

THORN

Product Catalogue

2014/2015



SAP Description key A-L

NL	Without lamp
0	Size 0
1	Size 1
1,2,3, etc	Reflector size
2	Size 2
2C	Twin circuit
2Mxx	two Screw fittings xx
2PGxx	Two Conduit thread xx
2xMAR	2x Connector (MARECHAL)
5D	5° reflector
A/A	Double Asymmetric
A/CB	Asymmetric - Counterbeam
A/S	Asymmetric
A/S2	Asymmetric 20°
A/S3	Asymmetric 30°
A/S6	Asymmetric 60°
AA	Anodised (aluminium)
ABS	Acrylonitrile butadiene styrene
AC	Acrylic (PMMA)
ACF	Anti caloric filter, thermal filter
AD	Art Deco
AE2	Emergency 2 Hour Axiom
AF	Front access
AGF	Anti glare filter
AGL	Anti-glare louvre
AGS	Barndoors
AH	Air handling
AJ	Adjustable
AL	Aluminium
ALP	Aluminium (effect)
ALV	Adjustable louvre
AMB	Amber
ANT	Anthracite
ANT900	Sanded grey 900 AKZO
AP	GRP (glass reinforced polyester)
AR	Anti-reflection
ASA	Acrylonitrile styrene acrylate
AUX	Facility for Auxilliary lamp
AY	Antique yellow
BA	Brushed - aluminium
BAF	Baffle
BE	Brass Earth
BESA	Fixing for BESA conduit box
BI	Integral ignitor with cut off facility
BK	Black
BLK	Black
BLU	Blue
Blxxy	Box leads (to interconnect distribution unit and fitting)
BN	Brown
BOL	Bollard
BP7	Bi Power with ZRMU6M
BPL	Bi Power Power Line
BPxx	Power reduction x hours
BR	Brass
BRA	Bracket
BRED	Brick Red
BRN	Brown
BS	Brushed - steel
BU	Blue
BW	Balance (counter) weight
C	Coupler - straight
C45	Coupler - 45°
C90	Coupler - 90°
CAB CLIP	Cable clip/cleat/clamp
CAP	Canopy
CBOX	Connection box
CC	Integral circuit breaker (MCB)
CCO	Cylindro-Conical
CCRT	Concrete
CDCM	Control module - basic
CDCMD	Control module - daylight
CDCMS	Control module - scene set
CDD	Presence (PIR) and daylight detector
CDDD	Daylight only detector
CDDM	Presence (microwave) only detector
CDDMD	Presence (microwave) and daylight detector
CDDP	Presence (PIR) only detector
CDMR	Manual controller - rotary control
CDMS	Manual controller - switch control
CDSSM	Scene set controller - master
CDSSS	Scene set controller - slave Dimmers
CE2	Emergency 2 Hour Clevetronic (AUS)

CH	Fixing for chain
CHR	Chrome (effect)
CIRC	Circular profile
CJR	Coupler / junction - rotating
CJRA	Coupler / junction - axial rotating
CL	Clear
CLA	Traditional
CLIP	Clip or toggle
CLIP/L	Clip - lamp retention
CLx	Electrical class
CMF	Comfort optic
CO	Conical
COL	Column
COLINS	Colour insert
CONLOCK	Connector locking device
CONx	Connector
CONxT	T connector (splitter)
CORR	Corridor function
CORS	Close Offset Rod suspension, 150mm
COVER	Cover
CP	switch start - high power factor
CPL	Coupler - mechanical
CRL	Circular annular louvre
CS	Integral socket for multifunction remote controller
CT	Coupler - T shape
CTBA	Colour Special (AUS)
CU	Copper
CUH	Coupler universal
CW	Corner wash
CWA	Constant Wattage (AUS)
CY	Cyan
CYA	Cyan
D	Direct
D/I	Direct / Indirect
DAMPER	Damper
DBLU	Dark Blue
DC	Dustcover
DD	Presence/daylight detector for distribution unit
DEC	Deco
DGE	Electronic high pressure discharge gear
DIM	Dimmers
DIMPC A-D	Protocol converter analogue to digital
DIMPC D-A	Protocol converter digital to analogue
DIMPC DALI-DSI	Protocol converter DALI to DSI
DIMPC DSI-DALI	Protocol converter DSI to DALI
DIMRCO	Relays - changeover
DIMRNC	Relays - normally closed contacts
DIMRNO	Relays-normally open contacts
DIMTX	Transformers
DM	Dimpled
DMB	Double parabolic, Mirrorbrite louvre
DOT	Dotted
DSB	Double parabolic, Satinbrite louvre
DSW	Integral residual (differential) current circuit breaker
DUA	Automatic controlled
DUD	Dimming controlled
DUES	Switch controlled with integral relay
DUS	Switch controlled
DWW	Parabolic reflectors, parabolic vanes all white finish
Dxx	Diameter
E1	1 hour duration, Manual test
E1M	1 hour duration, Manual test - maintained
E1MT	1 hour duration, SelfTest - maintained
E1MX	1 hour duration, Addressable test - maintained
E1NM	1 hour duration, Manual test - non maintained
E1NMT	1 hour duration, SelfTest - non maintained
E1NMX	1 hour duration, Addressable test - non maintained
E1T	1 hour duration, SelfTest
E1X	1 hour duration, Addressable test
E2	2 hour duration, Manual test

E2M	2 hour duration, Manual test - maintained
E2MT	2 hour duration, SelfTest - maintained
E2MX	2 hour duration, Addressable test - maintained
E2NM	Emergency 2 Hour Non/Maintained
E2NMT	2 hour duration, SelfTest - non maintained
E2NMX	2 hour duration, Addressable test - non maintained
E2T	2 hour duration, SelfTest
E2X	2 hour duration, Addressable test
E3	3 hour duration, Manual test
E3M	3 hour duration, Manual test - maintained
E3MT	3 hour duration, SelfTest - maintained
E3MX	3 hour duration, Addressable test - maintained
E3NM	3 hour duration,
E3NMR	3 hour, manual test emergency, non-maintained, remote gear
E3NMT	3 hour duration, SelfTest - non maintained
E3NMX	3 hour duration, Addressable test - non maintained
E3R	3 hour duration, manual test, remote box
E3T	3 hour duration, SelfTest
E3TX	3 hour duration, SelfTest/Addressable test
E3X	3 hour duration, Addressable test
E3XI	3 hour duration, Addressable test, ISO legend
EC	Central battery
ECA	End cap - aluminium
ECO	Conical
ECP	End cap - plastic
ECS	End cap - steel
ECU	Curved profile
EDO	Domed
EDP	Deep bowl
EFL	Flat panel / glass
EN*	Ensto type plug
EOP	Enclosure - opal
EPR	Enclosure - prismatic
EQB	Cube
ERD	Round enclosure
ESH	Shallow bowl
ESP	Spherical
ESQ	Square enclosure
ETR	Triangular
EUPL	Integral 230v (euro) plug - 2 pole
EVO	Oval
EW1	Enclosure with one window
EW2	Enclosure with 2 windows
EXT	Extensive
F	Diffuser in bezel frame
F 4M	Pre-wired French cable
FA	Anchor bolt fixing
FAI	Anchor bolts included
FE	Cast iron
FH	Fire rated
FILTER	Filter
FIX	Fixing accessory
FIX/AV	Fixing - anti vibration
FIX/CAT	Fixing for catenary wire
FIX/CB	Fixing - cantilever bracket
FIX/SUP	Fixing supplementary
FL	Flood, ~ 20° - 30°
FL-G	Flood, gold coloured reflector
FOG	Fibre optic generator
FOH	Fibre optic harness
FOT	Fibre optic terminal
FP	Flex & Plug 3 core 1.7m
FP4C	Flex & Plug 4 core Clipsal (AUS)
FP4H	Flex & Plug 4 core HPM (AUS)
FR	Frosted (sand blasted)
FRAME	Bezel frame
FSU	Freestanding upright
GB	Gear Box
GL	Glass
GN	Green
GOL	Gold (effect)
GR	Grille

GRIL	Grill
GRM	Cable entry grommet
GRN	Green
GRY	Grey
GST*	GST type plug
GT	Gear Tray
GUN	Gun metal (effect)
GY	Grey
GY150	Grey, AKZO 150 SABLE
HA	Starburst
HC	Honeycomb louvre
HD	Heavy duty
HF	Electronic, fixed output gear
HF/IND	Ballast Electronic Industry (AUS)
HFA	Electronic, analogue dimmable
HFD	Electronic, DSI dimmable
HFF	Electronic fixed output gear (cold start)
HFI	Electronic, DALI/DSI dimmable
HFIX	Electronic, DALI dimmable
HFL	SensaLink
HFS	Sensa
HFX	Electronic, DALI dimmable
HGF	Halogen Free wiring
HID	Magnetic high pressure sodium/metal halide gear
HIDE	Electronic high pressure sodium/metal halide gear
HIN	Hinged version
HPT	High protection treatment
HR	Hot restrike
I/D	Indirect / Direct
IB	Individual Ballast (AUS)
ID	Indirect
IHF	Industrial electronic gear
ILME	Connector (ILME)
INT	Intensive
IRIS	Iris diaphragm
IS*	Isodrom hadch with x pole
IVY	Ivory
K12	Panel K12 (AUS)
K15	Panel K15 (AUS)
K19	Panel K19 (AUS)
K19ST	Panel K19ST (AUS)
L	Large
L000	Without lamp
LAR	Raise & Lower version
LC	Concentrating lens
LDAT	Datalight louvre
LDC	Controller Powerline for stepless electronic ballasts
LDRF	Controller Radiofrequency for stepless electronic ballasts
LE2	Emergency 2 Hour Legrand (AUS)
LEG	Legend
LET	Controller Powerline for bi-power electronic ballasts
LF	Fresnel lens
LGRY	Light Grey
Llxxx	Complete with lamp (colour)
LL	Cross vane white louvre
Llxcyy	Link leads (to inter-connect adjacent fittings)
LN	Straight
LO	Low loss gear
LOT	Lotus-effect, micro-nanostructured
LRx	Refractor lens
LSC	Controller Powerline for bi-power magnetic ballasts
LV	Louvre
LVBACK	Louvre, back
LVFRONT	Louvre, front

Lighting people

Thorn is a globally trusted supplier of outdoor and indoor luminaires and integrated controls, both here in the UK & Ireland and around the world



Aspire Defence, UK

Our mission is to provide products and services which make it easier for customers to specify, install and maintain good quality, energy efficient lighting. A key factor in this goal is our commitment to excellence in optical performance and installer functionality.



Morrison's, UK



National Glass Centre, UK

Thorn has been leading the way in lighting since 1928 when Sir Jules Thorn founded the company. Today we deliver product and service innovations to a variety of customers, from wholesalers and contractors, through to public and private specifiers and end-users.

Our products are used in buildings and their surrounds, roads, cityscapes and sports facilities in more than 100 countries, where we have built a strong reputation for reliability, functionality and technically advanced design within our comprehensive portfolio.

The Thorn Academy of Light, based in Spennymoor in the UK is a pioneering facility that provides comprehensive training and ongoing professional development for employees and customers, the Academy is also a showpiece location where visitors can experience the world of Thorn.

Thorn Academy of Light

The Thorn Academy of Light is based in Spennymoor (England) with smaller satellite locations in Landskrona (Sweden), Les Andelys (France) and Bologna (Italy). Each facility provides comprehensive education and training for our employees and customers.

Visitors can experience light at work, view exhibitions and attend workshops while employees can attend continuing professional development (CPD) seminars.

The Thorn Academy of Light's key objectives are to improve knowledge of and creativity in professional lighting and design, and deliver the ideal balance between light quality and energy efficiency. The ultimate goal is to achieve maximum customer satisfaction.



▲ TAL Training session

◀ Retail application area



◀ '15 ways to make energy efficient lighting easy' lighting controls demonstration in the application area





▲ Modular robot wiring production line in the Spennymoor Factory



▲ Laboratory for product testing and certification



▲ Outdoor application area

"Having been invited to the Thorn HQ to receive a presentation on the Thorn Energy Partnership opportunity, my colleague and I were very impressed with the entire facility at Spennymoor and equally impressed with the professional manner in which the presentation was delivered.*

The range of lighting displays was outstanding, as was the R&D facility.

Having seen and heard what Thorn are looking to achieve, Electrical Installation Solutions Ltd are delighted to have the opportunity to become a partner under this scheme and see huge potential for all parties."

Electrical Installation Solutions Ltd

*see page 6 for more information

eControl has been traditionally associated with electronic dimming. Our drive towards energy efficiency however means we've now expanded eControl to be an entire programme for lighting control, energy saving, optical control and sustainability.



The '15 ways to make energy efficient lighting easy' framework forms a major pillar of our consultation advice for customers who set out to minimise energy consumption.

The framework is based on the principles that implementing one or more of the following guidelines will help generate significant energy savings.

See page 8



These Environmental Product Declarations (EPDs) are product-specific environmental data sheets. Each certificate contains product related data from cradle to grave, with energy consumption calculated according to standard EN 15193.



Thorn use online tools and activities to make it easier for our customers to find accurate, consistent and up-to-date product and application information and to support the knowledge and expertise of our sales people.

Software and electronic tools



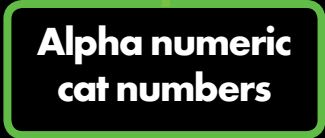
Calculates the life cycle costs of lighting solutions, taking into account the investment cost and other financial aspects of an environmentally-sound lighting system, such as CO₂ emissions, energy consumption, maintenance costs and waste disposal.



Our interactive, always up-to-date online tool which gives you advice on saving energy and applying the right lighting controls within 50 indoor and outdoor application areas.

www.thornlighting.co.uk/smart_city

See page 12



See page 14-17

Product Explorer

A plug-in for DIALux and Relux (3D visualisation and lighting design and calculation programmes).

Making it easier for you to understand, specify, install and maintain good quality, energy efficient lighting

Thorn Energy Solutions

A new service launched in 2011 that's dedicated to auditing, designing, supplying, installing and maintaining energy efficient lighting systems as a full turnkey package

See page 7

Thorn Energy Partnership

The Thorn Energy Partnership (TEP) is a worldwide venture between Thorn and lighting professionals. The overriding aim is to promote energy efficiency without sacrificing good lighting performance. By 2015, the TEP expects to save more than 25,000 tonnes of CO₂ – and you can be part of that achievement.

www.thornlighting.co.uk/tep

See page 6

CalcExpress

CalcExpress is an online tool that allows you to approximately calculate the number of luminaires required for square rooms. It allows simple regular arrays of luminaires. The calculation is based on room size, mounting height and the height of the working plane as well as on the illuminance level required on the working surface.

See page 15

energyCalc

Gives you the payback period and ROI figure by calculating lamp burning hours, energy costs, maintenance costs and energy savings.

Sustainability

From producing fully recyclable products to calculating the carbon footprint of our products, reducing packaging to reducing journeys, using recycled material to avoiding toxic substances, sustainability is at the heart of what we do.

Optical Control

An important contributor to energy saving and efficiency, providing light where and when it is needed. Think Orus, Clan and Menlo³.

Lighting Control

One of our key specialist areas, including outdoor photocells, traffic detection, indoor daylight linking, dimming and presence/absence detection.

Migration

Identifying and moving away from inefficient lighting.

Light source:

Changing discharge lamps for fluorescents, and fluorescents for LEDs, while ensuring the correct lamp for the environment.

Control gear:

Using control gear which is high frequency and compatible with regular switching to reduce and conserve energy.

Luminaire:

Using the correct luminaire to house the lamp and control gear to manage heat output and maximise light output.

A partnership for excellence

The Thorn Energy Partnership (TEP) is a worldwide venture between Thorn and lighting professionals. The overriding aim is to promote energy efficiency without sacrificing good lighting performance. By 2015, the TEP expects to save more than 25,000 tonnes of CO₂ – and you can be part of that achievement.

Open to installers and contractors, all successful applicants become a TEP Partner and are supported with a 2-year certified training programme. This training ensures partners are equipped with the breadth and depth of knowledge required to successfully implement energy saving schemes with a quick, attractive pay back. TEP Partners also receive other benefits, including access to exclusive local events and networking opportunities.

Improve your performance

As a TEP Partner, we will support your energy saving projects every step of the way and help your enhanced credentials to deliver increased sales and higher profits. By sharing experience, knowledge and tools through local events, online training and seminars, the TEP creates a win-win situation, providing benefits for partners, end users and the environment.

Achieve a Bronze to Gold status

Once approved, TEP Partners have the opportunity to become a 'Recommended Installer for Energy Efficiency' and move up the rankings to a Bronze, Silver and eventually Gold level. Each climb in status brings additional benefits. Gold TEP Partners enjoy the uppermost recognition and credibility through exclusive PR exposure, including the opportunity to engage in promotional interviews, provide a guest speaker at a TEP event and attend Thorn's annual expert conference.

Become an accredited TEP Partner

To learn more and become an accredited TEP Partner, please contact your local Thorn Energy Expert. For more information visit:

www.thornlighting.co.uk/tep



The First Bronze TEP partner in the UK - Fully Wired



International Sales signs first TEP partner in Dakar



Westex Carpets, UK
Product: Hi-Rack
TEP Partner: Fully Wired

Thorn Energy Solutions



To help you improve your energy efficiency and reap both the sustainability and financial rewards, Thorn Lighting brings you Thorn Energy Solutions. Thorn Energy Solutions is a new service dedicated to auditing, designing, supplying, installing and maintaining energy efficient lighting systems as a full turnkey package. Building on Thorn Lighting's expert knowledge, Thorn Energy Solutions provides the first truly credible, comprehensive and no-hassle service for customers across all industry sectors.

A new service from the UK & Ireland's biggest name in lighting.

There are so many benefits to using Thorn Energy Solutions...

Trusted brand

Established in 1928, Thorn has become a name that's trusted by specifiers, contractors, wholesalers, energy managers and end-users in more than 100 countries around the world. Always at the forefront of technological developments, Thorn is dedicated to sustainability through performance, efficiency and comfort in lighting.

A complete turnkey solution

Thorn Energy Solutions provides a comprehensive, hassle-free and commercially feasible solution for installing energy efficient lighting. Our specialist knowledge means you can depend on us every step of the way: from your initial energy audit, to the correct product specification to reliable long-term maintenance of your lighting system.

No consultation or auditing fees

The consultancy and auditing service from Thorn Energy Solutions is free and with no obligation. Our experts will audit your premises so you can find out how your current lighting system is performing and how much you could save. With predicted annual savings often amounting to thousands of pounds, can you afford not to have an audit?

Tax advice

Enhanced Capital Allowances (ECAs) for low energy equipment enable you to release your capital ten times faster than conventional equipment. Our tax advisors will therefore help improve your valuable cash flow by showing you how to offset the entire costs of qualifying low energy equipment against year one pre-tax profits.

Pioneering, energy efficient products

Thorn's commitment to developing energy efficient products runs deep. Thorn pioneered the first energy saving lamp more than 30 years ago and launched the world's first sensor luminaire in 1991. Today, Thorn's solutions continue to contribute to significant energy reduction worldwide.

Finance

Thorn Energy Solutions can help you access any available loans and grants, and offers a wide range of finance options. Crucially, updating your lighting system does not necessarily mean you have to incur any capital costs.

Energy procurement advice and solutions

Thorn Energy Solutions leaves no stone unturned - and that includes the price you pay for energy. Crucially, our strategic partnerships with leading energy suppliers mean you can access great energy prices through Thorn Energy Solutions.

15 easy ways to make energy efficient lighting easy

Technology



1

Napoli Airport, Italy



Lamp efficacy

Ensuring the lamp efficiently converts electricity into light

Thorn's Quattro LED has recently been updated to benefit from the latest LED light sources, which are fitted behind a low-glare optic. The lamp achieves over 76 lm/W, and is over 80% more efficient than the fluorescent technology it replaces.



2

Bosch China, Shanghai



Ballast classification

Controlling the electricity supply to the lamp

Compared with conventional gear, Thorn's high-frequency (HF) electronic control gear, with an energy-efficiency index (EEI) classification of A2, can cut electrical energy use by as much as 30% and also reduce parasitic power when the Quattro T5 luminaire is off.



3

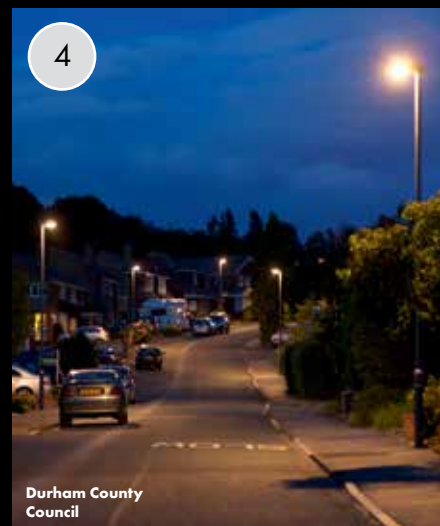
L'Hippodrome de Lyon, France



Luminaire distribution

Using optics to bend and shape the light to the right location

The innovative optical design in Thorn's Champion floodlight includes a zero cut-off light guillotine and an efficient elevated glass. This optical design improves output by as much as 10% while achieving industry-leading light nuisance control.



4

Durham County Council



System efficacy

Combining optical and thermal control in the luminaire

The small, modern Thorn Oracle S takes advantage of the latest white light sources and efficient sealed optics to maintain optimum performance.

Control

**Presence/Absence**

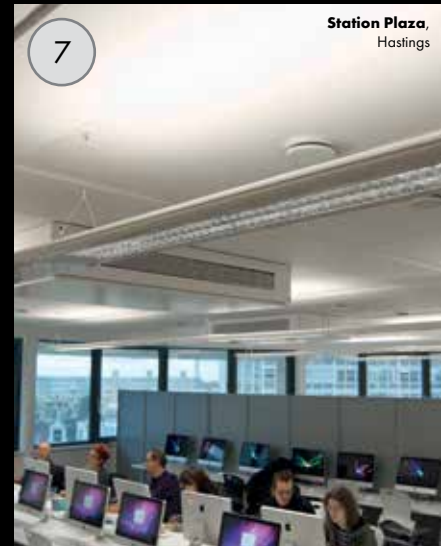
Providing light only when it's needed

With the right presence detector, even warehouses with high bay lighting can benefit from excellent energy savings when the space is unoccupied. Using absence detectors means the Thorn Hi-Rack luminaires must be turned on when entering the space – maximising energy savings.

**Constant Illuminance**

Making sure light levels remain correct throughout the maintenance period

Using digital dimming, Thorn's Cruz luminaires take measurements from sensors in the ceiling to establish the task illuminance at desk or floor level and compare it to the required lighting level. If there is too much light - when the lamps are new, for instance - the luminaires dim to save energy. As the lamps age, the dimming reduces to keep the task illuminance correct.

**Daylight**

Reducing waste light during daylight hours

Sensors built in to the Jupiter and Indiquattro luminaires sense the change in daylight in the space, and let the luminaires dim to save energy whenever there is sufficient daylight. Intelligent software ensures the lights do not react to short-term changes, such as the sun drifting behind a cloud for a few seconds.

**Task/Scene setting**

Letting the user set scenes and adapt the lighting to different tasks

Using Thorn's Titus Sport fitting in combination with switching, the correct lighting level can be chosen for a range of court uses, including netball, basketball, badminton, football and volleyball.

**Timed off**

Automatically turning all lights off during unoccupied hours

Indra's Bi power controls let the light level reduce automatically when the amount of traffic falls late at night. The luminaires still provide enough light to navigate safely through the space, but save energy by lowering their output.

15 easy ways to make energy efficient lighting easy

Applications



10

Port of Le Havre, France



Task Lighting

Lighting task areas with the correct amount of light

It takes immense skill and judgment to offload shipping containers, so it is essential that crane drivers have the right amount of light. The integrated light shield on Thorn's Champion fitting ensures no light travels up from the luminaire or creates glare for the driver. It also still provides excellent lighting for the containers.



11

Åre Ski Resort, Sweden



Zoning of Lighting

Arranging lighting in sections according to usage patterns or task locations

Careful selection and lighting arrangements across several key sections of the resort's slopes maximise lighting impact from the Mundial C luminaires, while minimising energy consumption in areas of lesser importance.



12

Sheffield County Council, Sheffield



Maintenance schedules

Tailoring maintenance schedules according to product age, performance and environment

When you have to maintain thousands of luminaires, it is vital to be able to check operation remotely. Thorn's Oxane provides a long-life LED and driver and communicates with the local authority's central controls when the lighting needs attention. In turn, this can significantly reduce maintenance requirements and costs as the modern light source and optics save energy.



13

Spennymoor Football Club



Waste light

Eliminating light that does not hit the intended target

Tight control of obtrusive light ensures the light from the Champion luminaires is directed only where required, so the surrounding buildings and environment are not affected. Nearby residents will no longer have their front rooms lit up on match night.

For more examples of how you can save lighting energy, visit the new Thorn website at www.thornlighting.co.uk
Explore Thorn's Smart City at www.thornlighting.co.uk/smart_city

Environment

14



Dallan Aqua Centre,
East Kilbride



Reflectance

Using light reflected from surfaces

It is vital in swimming pool lighting to make sure reflections in the water do not inhibit lifeguards' view of swimmers. This can be achieved by using the ceiling's high reflective properties to bounce light on to the pool. Thorn's Troika fittings can be mounted in easy-to-maintain locations and reflect light safely on to the task. Use of white paint helps maximise efficiency and avoids tinting the light as it's reflected.

15



Great Lumley,
Durham



Visible smart metering

Ensuring results of energy-saving actions can be seen

Even the simplest smart meter can highlight how much energy is being used, as it does in this installation using Thorn's Oracle S with the Telea controls system. This simple communication means users can immediately understand the impact of their lighting decisions. In most cases, users will balance the need to save energy with the light they need for the task at hand.



According to the World Health Organisation more than half of all people now live in an urban area. By 2030, six out of every ten people will live in a city, and by 2050, this proportion will increase to seven out of ten people.

Use the SMARTCITY experience to access:

- **50 outdoor and indoor application areas** Shows you how to achieve best practice with expert design advice on how to select and apply energy efficient lighting
- **Save energy with application-specific guidance** Use Thorn's '15 ways to make energy efficient lighting easy' framework
- **Apply the right lighting controls for maximum benefit** Detailed and useful information about how to achieve the full potential
- **Always up-to-date** Suggestions and information on existing, new and coming soon products, suitable for the application



SMARTBUILDING

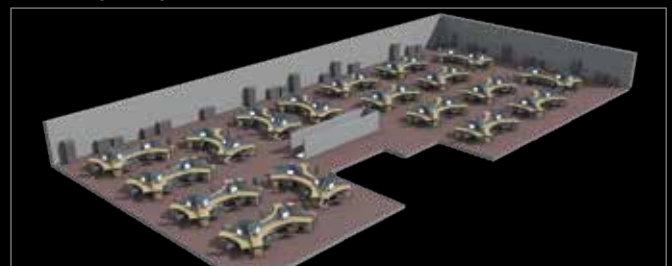
In any study of smart building design the factor of lighting, and LEDs in particular, features prominently - after all most of a building's running cost is accounted for by the electricity used for lighting.

LED lighting not only limits energy demand during peak consumption and limits carbon-dioxide emissions, but brings improved optical performance, greater flexibility and better comfort.

All these benefits mean that LEDs have rapidly become the preferred technology for those involved in lighting intelligent, energy efficient buildings.

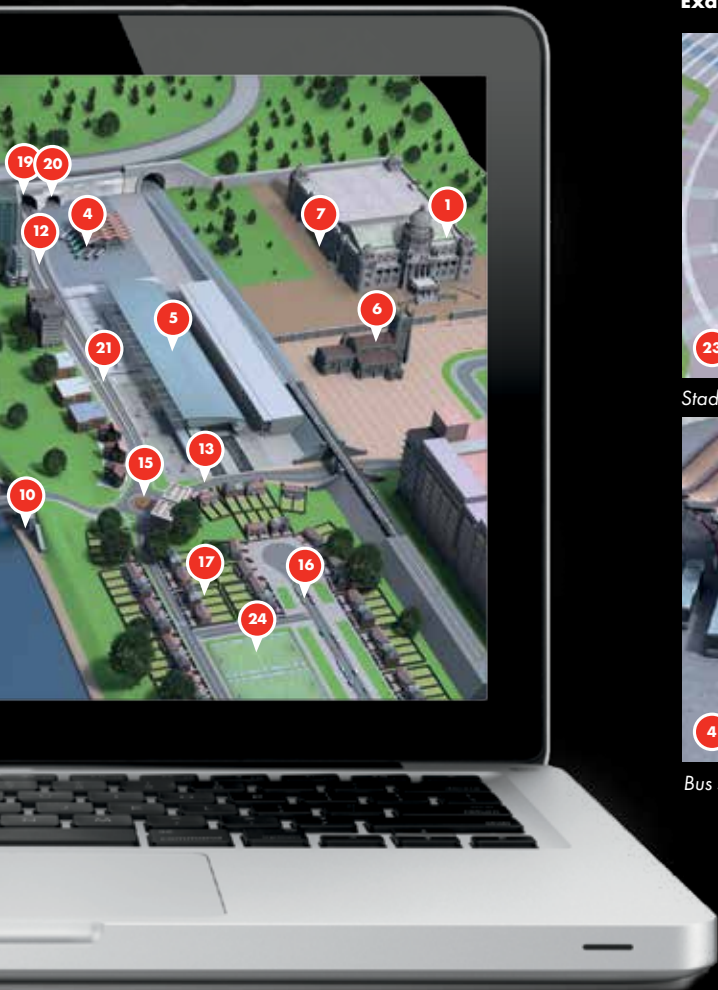


Warehousing/Storage



Open offices

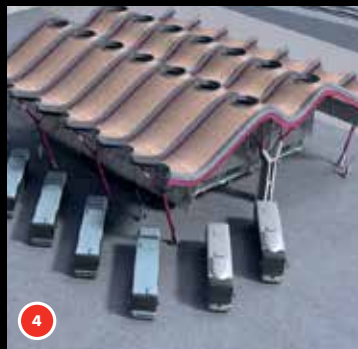
Examples of some of the application areas:



Stadium



Main roads



Bus stations



Bridges

Welcome To Our Smart Building Experience

This guide illustrates some of the more imaginative ways in which the wide range of Thorn LED products can be used in offices, schools, shops, hotels, hospitals and other energy intensive industries.

Please click on an area number you are interested in or launch one of our dedicated experiences.

THORN
LIGHTING PEOPLE

- 01. ENTRANCE HALL
- 02. RECEPTION
- 03. CORRIDOR/STAIRCASES
- 04. CIRCULATION AREAS
- 05. FIRST AID
- 06. TOILETS
- 07. RESTAURANT/CANTEEN
- 08. KITCHEN
- 09. CONFERENCE ROOM
- 10. MEETING ROOM - SMALL
- 11. MEETING ROOM - LARGE
- 12. OFFICE - SMALL
- 13. OFFICE - MEDIUM
- 14. OFFICE - OPEN
- 15. CLASSROOM
- 16. LECTURE THEATRE
- 17. WAREHOUSE/STORAGE

SMART BUILDING
LED
PEG
TO RAYS TO SAVE ENERGY
EDGELED
EDGEALDIE
NEW PRODUCTS
PDF

Public Lighting:
For an overview of all products available for Road and Tunnel, Cityscape and Sport application areas.

Launch Smart City

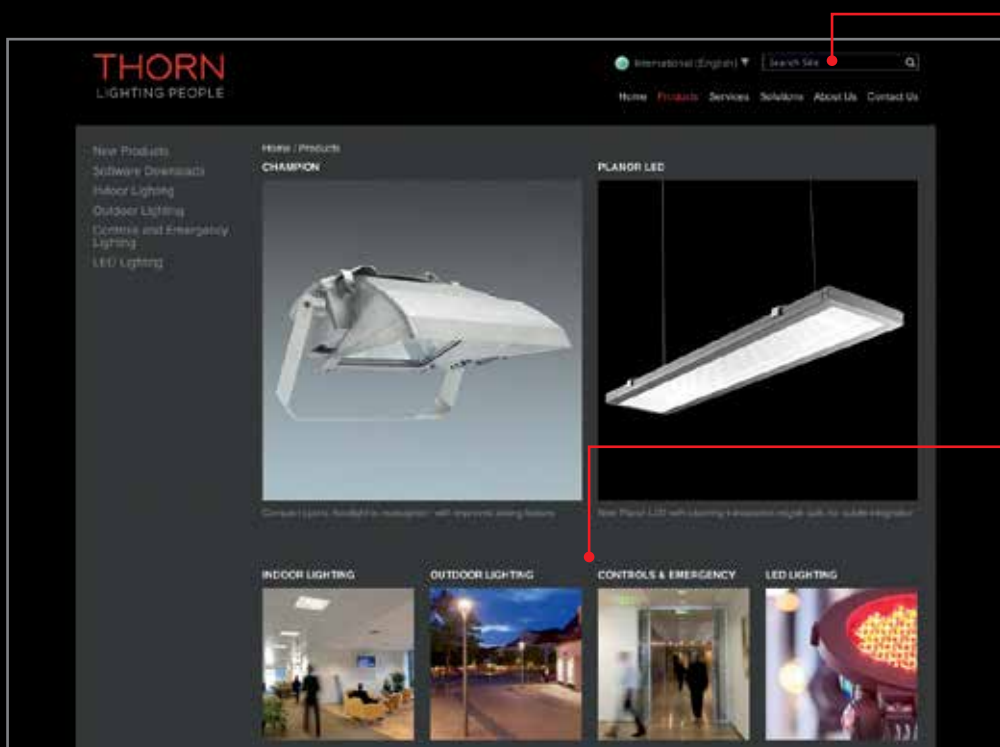
Thorn website and Electronic catalogue

Visit the Thorn website to access the most up to date product information

Using the website: www.thornlighting.co.uk

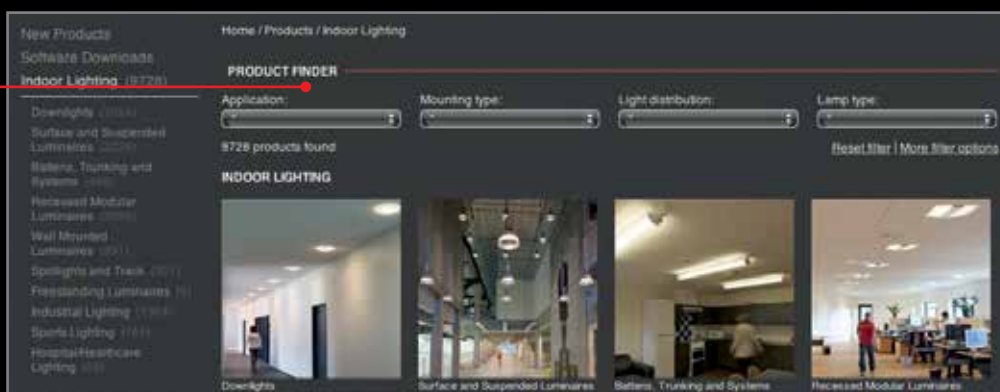
All our products are listed in our comprehensive online catalogue. The website is always up to date with the latest information on products and within each product range, you will find all the downloadable photometric files, certificates of conformity, installation information as well as all the information you will need when specifying, ordering or handling Thorn products.

For each product you will find images - product and application, as well as an overview of the different variants in the range; sorted by product type. Also, where applicable, you'll see project case studies featuring your chosen product, giving you a direct link to some of our most impressive solutions that we've delivered world-wide offering you inspiration and guidance for your Thorn product choice.



Use our complete site search to find specific product range names or type for fast, easy access to known ranges or solutions. You can include product description, range name, part description or article number

Select broad product categories, such as Indoor Lighting, Outdoor Lighting or LED Lighting, to look for a specific product types. Subsequent pages let you narrow your choice by application or product groups; such as Downlights, Surface and Suspended Luminaires, or Batters, Trunkings and Systems.



A key feature is the product filter. At the top of product section, you'll find several drop down menus that allow you to select the product based on a variety of criteria ranging from type, wattage, number of lamps, application (Office, Education, Healthcare etc.), installation type (recessed, surface, suspended etc.), emergency version, gear type and protection degree plus several other filters. This allows you to quickly search through our extensive catalogue to find the right solution for you.



Similar product recommendations and projects featuring the selected article can be found on the product range page.

New simplified ordering guide for product families allows easy selection of individual codes via section headings, allowing you to search through product variants with ease. New products are highlighted in the ordering guide so you can identify these at a glance.

From the product range page you can download:

- Catalogue page as PDF
- Product brochure as PDF
- Materials/Finish
- Installation/Mounting
- Specification
- Application images as a JPG

PARTNER 1416w TC-80 CP FF BLR L33H ecoCALC DALIux RELUX	FV02019FTD	F55	048	1.88	80222037
PARTNER 1428w TC-80BL WF PR BLR L33H ecoCALC DALIux RELUX	FV022008	F55	04704	1.87	80222048
PARTNER 1436w TC-80BL WF OP BLR L33H ecoCALC DALIux RELUX	FV022008	F55	04704	1.88	80222047
PARTNER 1437w TC-80BL WF PR BLR L33H ecoCALC DALIux RELUX	FV022008V	F55	04704	1.88	80222050
PARTNER 1437w TC-80BL WF OP BLR L33H ecoCALC DALIux RELUX	FV022008V	F55	04704	1.88	80222049
PARTNER 1437w TC-80BL WF PR BLR L33H ecoCALC DALIux RELUX	FV022008V	F55	04704	1.87	80222052
PARTNER 1437w TC-80BL WF OP BLR L33H ecoCALC DALIux RELUX	FV022008	F55	04704	1.88	80222049
PARTNER 1437w TC-80BL WF OP BLR L33H ecoCALC DALIux RELUX	FV022008W	F55	04708	1.85	80222051
PARTNER 1416w TC-80 CP FF OP BLR L33H ecoCALC DALIux RELUX	FV02019FTD	F55	048	1.88	80222034
PARTNER 1416w TC-80 CP FF BLR L33H ecoCALC DALIux RELUX	FV02019FTD	F55	048	1.88	80222036

Once you have selected an article you will see a full datasheet, including full text description of the luminaire, certifications and a light distribution curve. You can also do on screen configurations, and make changes to the product to include attachments and accessories, including different diffusers, louvers or filters; depending on the product options available.

You will also find a list of the available product downloads for your selected article:

Product Description:

- Product picture(s)
- Product description
- Product brochure PDF

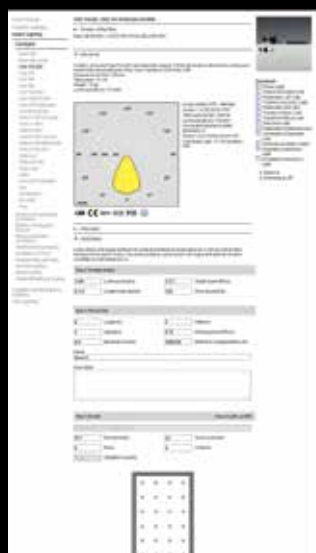
Design Data

- Photometric measurement file in IES and Eulumdat format
- Current calculation data for direct transfer into the DIALux/ RELUX
- Current calculation data for direct transfer into Thorn's ecoCALC lighting calculation programme

- Datasheet summary or photometric data PDF
- EC Declaration of Conformity PDF

Installation

- Dimension drawing in WMF format
- Installation Instructions



Lighting calculations directly within the website

Use CalcExpress to quickly carry out rough online calculations of luminaire numbers in rectangular rooms.

CalcExpress is a lighting calculation programme for indoor luminaires and square rooms with an intuitive user interface. Users can carry out calculations directly in the Thorn website while sitting at their workstations.

The software is integrated into the online product page, so the lighting calculation process has been reduced to include just a few short steps:

Simply select the required luminaire in the online product catalogue and click on the CalcExpress icon. Then enter calculation parameters such as room dimensions, mounting height, height of the useful plane and required level of illuminance. The programme instantly proposes a solution according to the light output ratio method.

What CalcExpress can do:

- Rough calculation of the number of luminaires in square rooms
- Downloading of calculation results and product sheet in pdf format
- Assessing the average level of illuminance with a given number of luminaires

Understanding our catalogue numbers

We recognise the importance of making it easier to identify our products through our ordering guides and part numbering system

To support our eControl philosophy and improve our ease to do business with we have now rolled out an initiative to simplify ordering our products. To support this we are listing all of our indoor and outdoor luminaires with an alpha numeric catalogue number in addition to the SAP code and SAP description.

The benefits of this initiative are:

- Easily identifiable part numbers by product range
- Clear and consistent logic across indoor and outdoor product offers
- Orders into our business can now be accepted for all products using a catalogue reference number
- Simplified order placement and processing
- Reduction in order complexity and potential ordering errors

LER128ZEPRW - Sample catalogue number

LE R 128 Z

Range (eg.)		Sub-range		LED lumen output		Gear	
AQ	AquaForce	E	Eco	2000	2000 lumens	Z	High Frequency
CH	Chalice	S	Small	4000	4000 lumens	D	DSI/DALI dimmable
LE	Leopard	L	Large	6000	6000 lumens	X	DALI dimmable
JU	Jupiter	Shape		14000	14000 lumens	ZS	High Frequency + Sensor
MN	Menlo	R	Round	Lamp no + wattage		DS	DSI/DALI dim + Sensor
		S	Square	135	1 x 35W	DC	DSI/DALI dim + Corridor Function
		Mounting option		249	2 x 49W		
		R	Recessed	314	3 x 14W		
		SR	Semi-recessed	424	4 x 24W		
		SF	Surface	170	1 x 70W		
		S	Suspended	150	1 x 150W		
		SS	System Suspended				
		SSF	System Surface				
		DI	Direct/Indirect				
		SDI	System Direct/Indirect				

Notes:

The logic set out below is followed as closely as possible for all Indoor/Outdoor Product ranges within the Thorn Lighting portfolio. As all ranges differ in scope the requirement for each element of the catalogue number is defined range by range, where some ranges require more fields than others.

The examples above show for each element of the catalogue number how some of the most common product features are defined.

In some instances the same abbreviation may be used for different features.

eg B = Black, B = Blue or MP = Microprism technology, MP = Microperforated. This is not the case if both these features are common to the same product range and an extra letter may be used to differentiate each version.

E**PR****W**

Emergency		Optic		Colour		Miscellaneous	
E	3hr standard emergency	LV	Louvre	W	White	PB	Plasterboard version
EX	3hr addressable emergency	OP	Opal	B	Black/Blue	FIL	Filter
EH	3hr high output emergency	PR	Prismatic	G	Grey/Green	REF	Reflector
		MP	Micro prism tech/perforated	R	Red	DIF	Diffuser
		RK	Rack	Y	Yellow	3K	3000K
		WD	Wide			4K	4000K
		NW	Narrow			C	Connect version
		SP	Spot				
		FL	Flood				
		M	Medium beam				
		AS	Asymmetric				
		MB	Mirrorbrite				
		SB	Satinbrite				

International Projects



Tianjin Chifeng Bridge, China
Product: Orus



St Anthony Church, Torun City, Poland
Product: Contrast LED, Qba LED, Band LED and D-CO LED



Phenix Theatre, Valenciennes, France
Product: Contrast
Photographer: Joss Guest



Automarocchi Transport HQ,
Trieste, Italy
Product: Omega LED
Photographer: Fabio Baraldi



IGA Supermarket, Australia
Product: Custom product



Citroën Garage, Barentin, France
Product: Plurio and Areaflood
Photographer: Joss Guest



Vallex Garden Hotel, Armenia
Product: Contrast, Mica and Band



T-Forbindelsen, Haugesund, Norway
Product: Gotthard



Catello Ceconi di Pielungo, Vito d'Asio, Italy
Product: Contrast, D-CO LED, Mica and Qba
Photographer: Fabio Baraldi

UK Projects



National Glass Centre, UK
Product: Contrast
Photographer: Joss Guest



Our Lady's Catholic Primary School, Chesham, UK
Product: Diffusalux
Photographer: Joss Guest



Westex Carpets, UK
Product: Hi-Rack
Photographer: Joss Guest



Durham University, UK
Product: Cruz LED, Garbo, Soul
Photographer: Joss Guest



Morrisons, UK
Product: Custom recessed luminaire
Photographer: Joss Guest



Spennymoor FC, UK
Product: Champion
Photographer: Joss Guest



Durham, UK
Product: Isaro
Photographer: Joss Guest



Liverpool University, UK
Product: Alumet, E/Fact
Photographer: Joss Guest



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Lezouar, France

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Trunking and Battens	130
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Wall and Ceiling Decorative Luminaires	184
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Sports Floodlighting	344
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Urban Amenity Lighting	378
Street Lighting	420
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Columns and Brackets	478

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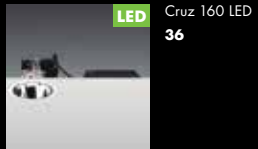
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LED Cruz 160 LED
36



Cruz 205
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Cruz 240
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Cruz 280
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Cruz 160/210 Gyro
44



Cruz 240 Wallwasher
46



Cruz Attachments
48



NEW **LED** Chalice 190 LED ECO
50



NEW Chalice 190 H
52



Chalice Attachments
54

DOWNLIGHTS



LED Base LED
56



NEW **LED** Base LED Junior
58



LED D-CO LED Downlight
60



LED Lightstream 2
66



Cetus
68

DIRECT/INDIRECT AND SURFACE LUMINAIRES



NEW **LED** Equaline LED
72



Equaline
76



NEW **LED** Planor LED
84



Planor Suspended
86



Planor Surface
88



Planor XL
89



Arena Symphony
90



Line XS
92



Line XS Circular
94



Optus IV Suspended
96

DIRECT/INDIRECT AND SURFACE LUMINAIRES



Optus IV Surface
100



Optus IV Whiteboard
102



NEW **LED** Jupiter 3
104



Punch II T5
108



Menlo³ Surface
110



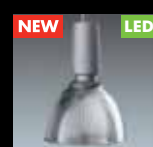
NEW **LED** College
112



Diffusalux
114



Prisma
116



NEW **LED** Glacier II LED
118



Glacier II
120

DIRECT/INDIRECT AND SURFACE LUMINAIRES



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122



Fata Morgana
Surface
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Fata Morgana
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Garbo Pendant
126



Garbo Ceiling
127



Soul Surface
128



Soul Pendant
129

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COMING SOON

New Trunking
Range
132



Arrowslim T5
134



PopPack
136



Popular Range
142

RECESSED MODULAR LUMINAIRES



NEW **LED** Menlo³ LED
148



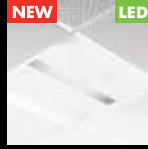
Menlo³
Recessed
150



Menlo³
Semi-Recessed
152



NEW **LED** Menlo³
Circular
154



NEW **LED** Elevation LED
156



Elevation
158



Planor
Recessed
160



NEW **LED** Pallion
162



NEW **LED** Quattro LED
166



Quattro C Line
168

RECESSED MODULAR LUMINAIRES



Quattro T5
170



IndiQuattro
172



NEW **LED** Specline LED
174



NEW **LED** Omega LED
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Omega 2 T5
178



NEW Omega 2 T5
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181



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182

Product Thumbnails

WALL AND CEILING DECORATIVE LUMINAIRES



Amazon
186



NEW LED Thames
188



NEW LED Danube
190



NEW LED Loire
192



Lyric
194



NEW LED Navaline
196



NEW LED Club
198



NEW LED Planor Wall
200



Garbo Wall
201



Garbo Wall
Uplight
202

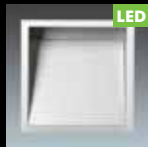
WALL AND CEILING DECORATIVE LUMINAIRES



Line XS Wall
203



Line XS Wall
Uplight
204



LED D-CO LED
Wall Recessed
205



Cimi
206



NEW LED Equaline Wall
208



NEW LED Equaline
Freestanding LED
209

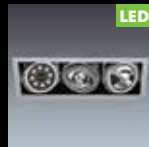
SPOTLIGHTS AND TRACK



NEW LED Prospector LED
212



LED D-CO LED
Spotlights
214



LED Tidon
216



Graffiti S
218



Graffiti M
220



Graffiti L
222



SuperTrack 2
224

INDUSTRIAL LUMINAIRES



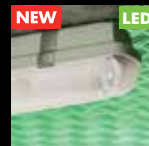
NEW LED HiPak Pro LED
232



Hi-Rack
234



Titus Industry
236



NEW LED ImpactForce II
238



NEW LED CorrosionForce II
241



ColdForce II
244



HeatForce
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LED E/Fact
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NEW LED Linn
284



LED Mica
286

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NEW LED Axl
292



LED Band Surface
294



NEW LED Band²
296



LED Cesar
298



NEW LED Contrast 2 LED
300



Contrast C
306



Contrast C
Wide Angle
308



LED Contrast Mini
Pinspot
310



Contrast Pinspot
312



Contrast R
314

INTRODUCTION

PRODUCT THUMBNAILS

Product Thumbnails

SURFACE MOUNTED ARCHITECTURAL FLOODLIGHTING



Contrast Spectra C2
316



LED D-CO LED Floodlights
318



LED Haline 2
320



LED Milo
322



NEW LED Olsys Illumination
324



Qba
326



LED Qba LED
328



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330

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Areaflood
334



NEW LED Olsys Area
338



Sonpak LX 15/25/40
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Sonpak LX 7/15
342

SPORTS FLOODLIGHTING



NEW Allis
346



NEW Champion
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Contrast C Sports
350



Mundial C
352



Troika
354

WALL MOUNTED LUMINAIRES



Avenue Deco Wall
358



LED Avenue Wall 300 II
359



Avenue F Wall
360



Dragon
361



LED Escort
362



NEW LED EyeKon LED/EyeKon
363



LED Leopard
370



Oyster
373









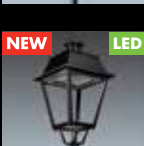



Panther
374





Piazza II
376

URBAN AMENITY LIGHTING

-  **NEW** Suncyl
380
-  Alumet Classic
384
-  Alumet Control Direct
386
-  Alumet Control Indirect
388
-  **LED** Alumet Stage
390
-  **NEW** **LED** Avenue D² LED
392
-  **LED** Avenue F LED
394
-  Avenue XL
396
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398
-  Gamma Basique
400








URBAN AMENITY LIGHTING

-  **NEW** **LED** Legend
402
-  **LED** Plurio/
Plurio LED
404/406
-  Plurio Effect
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-  **NEW** **LED** Adelie Bollard
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-  **LED** Promenade
412
-  Avenue Deco
Bollard
414
-  Basalt
416
-  Charter
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-  **NEW** **LED** D-CO LED
Bollard
418
-  **NEW** **LED** Tea
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STREET LIGHTING

-  CA 5000
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-  Celest
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-  Civic
425
-  **LED** Clan C
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-  **LED** Clan O
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-  Dyana
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-  **NEW** **LED** Dyana LED
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-  **NEW** **LED** Isaro LED
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-  **LED** Oxane
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SensaLite
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NEW Bi-power
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Voyager Elite + R
542



Voyager Elite ID + IDX
543



Voyager Elite IX
544



Voyager Elite SX
545



Voyager Elite X + XR
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LED Voyager Sigma
547



Voyager Exel
548



Voyager XXL
550



LED Voyager LED
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EMERGENCY LIGHTING LUMINAIRES

LED Voyager LED Series
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LED Voyager E LED
554



Voyager E Bulkhead
555



Voyager E Exit Sign
556



Voyager Escort
557



Voyager Twin Spot
558



Product Families

AVENUE



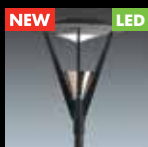
Avenue Deco Wall
358



LED Avenue Wall 300 II
359



Avenue F Wall
360



NEW **LED** Avenue D² LED
392



LED Avenue F LED
394



Avenue XL
396



Avenue Deco Bollard
414

CLAN



LED Clan C
436



LED Clan O
440

CONTRAST



NEW **LED** Contrast 2 LED
300



Contrast C
306



Contrast C Wide Angle
308



LED Contrast Mini Pinspot
310



Contrast Pinspot
312



Contrast R
314




















Contrast Spectra C2
316

INTRODUCTION

PRODUCT FAMILIES

Product Families

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">D-CO LED</p>	 <p>LED D-CO LED Downlight 60</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">EQUALINE</p>	 <p>NEW LED Equaline LED 72</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">FATA MORGANA</p>	 <p>Fata Morgana Pendant 122</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">GARBO</p>	 <p>Garbo Pendant 126</p>
	 <p>LED D-CO LED Wall Recessed 205</p>		 <p>Equaline 76</p>		 <p>Fata Morgana Surface 124</p>		 <p>Garbo Ceiling 127</p>
	 <p>LED D-CO LED Spotlights 214</p>		 <p>NEW LED Equaline Wall 208</p>		 <p>Fata Morgana Floor Standing 125</p>		 <p>Garbo Wall 201</p>
	 <p>LED D-CO LED Recessed 276</p>		 <p>NEW LED Equaline Freestanding LED 209</p>				 <p>Garbo Wall Uplight 202</p>
	 <p>LED D-CO LED Floodlights 318</p>						
	 <p>NEW LED D-CO LED Bollard 418</p>						

LINE XS



Line XS
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Line XS
Circular
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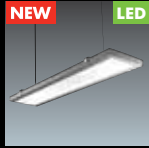


Line XS Wall
203



Line XS Wall
Uplight
204

PLANOR



NEW **LED** Planor LED
84



Planor
Suspended
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Planor Surface
88



Planor XL
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Planor
Recessed
160



NEW **LED** Planor Wall
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INDOOR LIGHTING



Downlights



Lincoln University, UK



LED Cruz 160 LED
36



NEW **LED** Chalice 190
LED ECO
50



Cruz 205
38



NEW Chalice 190 H
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Cruz 240
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Chalice Attachments
54



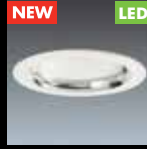
Cruz 280
42



LED Base LED
56



Cruz 160/210 Gyro
44



NEW **LED** Base LED Junior
58



Cruz 240
Wallwasher
46



LED D-CO LED
Downlight
60



Cruz Attachments
48



LED Lightstream 2
66



Cetus
68

Cruz 160 LED



www.thornlighting.co.uk/CR16

A high-output LED recessed downlight with passive cooling, dimming and consistent colour performance



- Cost and time saving rapid tool-free installation into the ceiling featuring the patented Thorn sec-loc® system
- Highly efficient and glarefree (LOR 94%, UGR >19) substitute for a common 1/2X26W CFL downlight with passive cooling technology (lifetime: 50,000 hours at 70% luminous flux remaining) and consistent colour (Ra ≥80)
- Digital DALI dimming option as standard with remote gear box
- Range of Cruz 160 attachments applicable

Materials/Finish

Body: die-cast aluminium
Reflectors: specular anodised high purity aluminium
Anti Harm cover: pressure die-cast aluminium bezel with a sealed 3mm clear polycarbonate diffuser

Installation/Mounting

Tool-free mounting, Secured by patented 'sec-lock' via pull rods in Ø160mm cut-out. Suitable for ceiling thicknesses 1-35mm.

Specification

To specify state:
A stylish, recessed High-Flux-LED downlight, luminaire body in die-cast aluminium with one-piece specular anodised high purity aluminium reflector - held in place via bayonet lock, LOR 94%, UGR<19, rapid tool-free mounting, secured by patented 'sec-lock' in Ø160mm cut-out. Suitable for ceiling thicknesses 1-35mm. Integral 1100/2000lm LED Light Engine with passive cooling and remote DALI dimmable gear, choice of 2 light colours: 3000K and 4000K.
As Thorn Cruz 160 LED.



Chrome bezel with clear IP54 glass



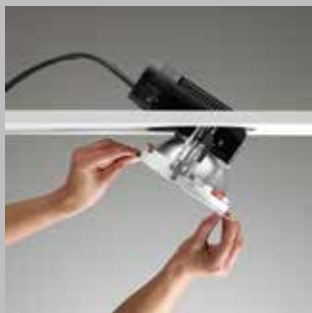
Grey bezel with clear IP54 glass



Frosted glass ring



White bezel with clear IP54 glass



Lamps

LED 11-29W

Standards

EN 60598
 IP20
 IK02

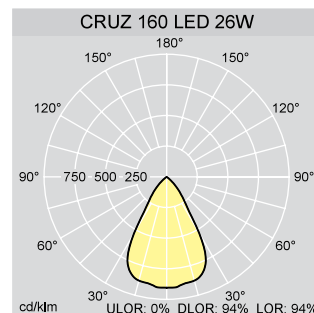
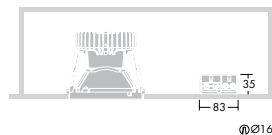
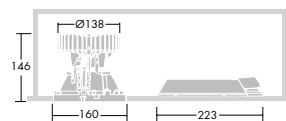
 850°C

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
CrUZ 160 LED			
CRUZ 160 1X11W LED L840 HFIX	1.50	96108349	CZ1601100X4K
CRUZ 160 1X12W LED L830 HFIX	1.45	96108351	CZ1601100X3K
CRUZ 160 1X26W LED L840 HFIX	1.45	96108353	CZ1602000X4K
CRUZ 160 1X29W LED L830 HFIX	1.55	96108355	CZ1602000X3K

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Cruz 205



www.thornlighting.co.uk/CR20

A range of high performance recessed downlights for compact fluorescent and discharge lamps with a cut-out of 205mm



- Rapid installation (average mounting time takes only seconds) supported by the sophisticated, patented sec-loc® spring mechanism
- Superior LOR in combination with CFL amalgam lamps (1X32W = 83% LOR)
- Choice of sources: powerful discharge or horizontal CFL in standard (Cruz H) or low height (Cruz HL) versions
- Compliant with EN 12464 and LG3/7 addendum in most wattages, with luminance limit of 1000 cd/m² at 65° (specular reflector of type H versions) or 200 cd/m² when used with attachments

Materials/Finish

Body: sandblasted die-cast aluminium
 Gear cover: black polycarbonate
 Reflector: high grade anodised aluminium
 Clips: stainless steel, quick-fix via patented sec-lock mechanism
 Bezel: die-cast aluminium

Installation/Mounting

Tool-free rapid installation without previous disassembling; patented sec-lock keeps product in place (1-35mm ceiling thickness). Integrated strain relief. 3 pole (3x2x2.5mm²) piano key terminal block as standard in fixed output versions (dimming versions with 5 or 6 poles). Choice of weight distribution ring (accessory) for soft ceilings, can be installed through the cut out. Attachments easily mounted by tool-free bayonet function. All common connectors to order. Integral or remote gear tray according to the functional requirements.

Specification

To specify state:
 Horizontal/low downlight (cut out Ø205mm) with die-cast aluminium body for 18-26W TC-DEL/18-32W TC-TEL compact fluorescent, 35-150W HIT metal halide and 50-100W white SON lamps. For emergency versions please specify E3 or E3TX for SelfTest/Addressable test. As Thorn Cruz 205

Ordering Guide

Supplied complete with lamp(s), bezel and attachment (if required) to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Cruz 205 V discharge (remote gear)			
CRUZ 205V 1X35W HIT G12 HF L830	1.00	96108195	CZ205135ZV
CRUZ 205V 1X50W HST GX12 HF L825	0.90	96108196	CZ205150ZV
CRUZ 205V 1X70W HIT G12 HF L830	1.00	96108197	CZ205170ZV
CRUZ 205V 1X100W HST GX12 HF L825	0.90	96108193	CZ2051100ZV
CRUZ 205V 1X150W HIT G12 HF L830	1.00	96108194	CZ2051150ZV
Cruz 205 H (integral gear)			
CRUZ 205H 1X18W TC-DEL HF L840	1.20	96108145	CZ205118DZH
CRUZ 205H 1X18W TC-TELI HF L840	1.20	96108148	CZ205118TZH
CRUZ 205H 1X26W TC-DEL HF L840	1.20	96108152	CZ205126DZH
CRUZ 205H 1X26W TC-TELI HF L840	1.20	96108154	CZ205126TZH
CRUZ 205H 1X32W TC-TELI HF L840	1.20	96108159	CZ205132TZH
CRUZ 205H 2X18W TC-DEL HF L840	1.20	96108164	CZ205218DZH
CRUZ 205H 2X26W TC-DEL HF L840	1.20	96108167	CZ205226DZH
Cruz 205 H dimmable (remote gear)			
CRUZ 205H 1X18W TC-TELI HFI L840	1.30	96108447	CZ205118TDH
CRUZ 205H 1X18W TC-DEL HFI L840	1.30	96108439	CZ205118DDH
CRUZ 205H 1X26W TC-DEL HFI L840	1.60	96108463	CZ205126DDH
CRUZ 205H 1X26W TC-TELI HFI L840	1.35	96108471	CZ205126TDH
CRUZ 205H 1X32W TC-TELI HFI L840	1.60	96108487	CZ205132TDH
CRUZ 205H 2X18W TC-DEL HFI L840	1.30	96108455	CZ205218DDH
CRUZ 205H 2X26W TC-DEL HFI L840	1.40	96108479	CZ205226DDH
Cruz 205 H emergency (remote gear)			
CRUZ 205H 1X18W TC-DEL HF E3 L840	1.90	96108310	CZ205118DZEH
CRUZ 205H 1X18W TC-TELI HF E3 L840	1.90	96108311	CZ205118TZEH
CRUZ 205H 1X26W TC-DEL HF E3 L840	2.00	96108312	CZ205126DZEH
CRUZ 205H 1X26W TC-TELI HF E3 L840	2.00	96108313	CZ205126TZEH
CRUZ 205H 1X32W TC-TELI HF E3 L840	2.00	96108314	CZ205132TZEH
CRUZ 205H 2X18W TC-DEL HF E3 L840	1.90	96108315	CZ205218DZEH
CRUZ 205H 2X26W TC-DEL HF E3 L840	2.00	96108316	CZ205226DZEH
Cruz 205 H dimmable, emergency (remote gear)			
CRUZ 205H 1X18W TC-TELI HFI E3 L840	2.00	96108448	CZ205118TDEH
CRUZ 205H 1X18W TC-DEL HFI E3 L840	2.00	96108440	CZ205118DDEH
CRUZ 205H 1X26W TC-DEL HFI E3 L840	2.10	96108464	CZ205126DDEH
CRUZ 205H 1X26W TC-TELI HFI E3 L840	2.10	96108472	CZ205126TDEH
CRUZ 205H 1X32W TC-TELI HFI E3 L840	2.10	96108488	CZ205132TDEH
CRUZ 205H 2X18W TC-DEL HFI E3 L840	2.00	96108456	CZ205218DDEH
CRUZ 205H 2X26W TC-DEL HFI E3 L840	2.10	96108480	CZ205226DDEH

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Cruz H

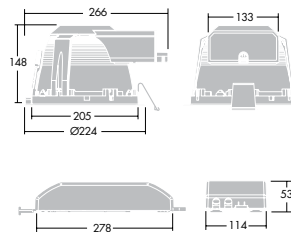
Lamps

	HIT-CE (MT)	G12	35-150W
	HST-CRI GX12 (STH)	GX12-1	50-100W
	TC-TELI (FSM)	GX24q-3	18-32W
	TC-DEL (FSQ)	G24q-3	18-26W
	TC-TELI (FSM)	GX24q-3	18-32W

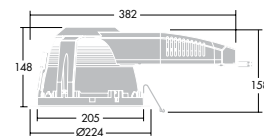
Standards



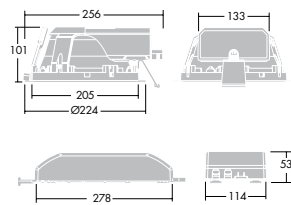
Description	Wt (kg)	SAP Code	Cat. No.
Cruz 205 HL (integral gear)			
CRUZ 205HL 1X18W TC-DEL HF L840	1.10	96108170	CZ205118DZHL
CRUZ 205HL 1X18W TC-TELI HF L840	1.10	96108173	CZ205118TZHL
CRUZ 205HL 1X26W TC-DEL HF L840	1.10	96108177	CZ205126DZHL
CRUZ 205HL 1X26W TC-TELI HF L840	1.10	96108178	CZ205126TZHL
CRUZ 205HL 1X32W TC-TELI HF L840	1.10	96108183	CZ205132TZHL
CRUZ 205HL 2X18W TC-DEL HF L840	1.10	96108188	CZ205218DZHL
CRUZ 205HL 2X26W TC-DEL HF L840	1.10	96108191	CZ205226DZHL
Cruz 205 HL dimmable (remote gear)			
CRUZ 205HL 1X18W TC-TELI HFI L840	1.20	96108451	CZ205118TDHL
CRUZ 205HL 1X18W TC-DEL HFI L840	1.22	96108443	CZ205118DDHL
CRUZ 205HL 1X26W TC-DEL HFI L840	1.20	96108467	CZ205126DDHL
CRUZ 205HL 1X26W TC-TELI HFI L840	1.20	96108475	CZ205126TDHL
CRUZ 205HL 1X32W TC-TELI HFI L840	1.20	96108491	CZ205132TDHL
CRUZ 205HL 2X18W TC-DEL HFI L840	1.20	96108459	CZ205218DDHL
CRUZ 205HL 2X26W TC-DEL HFI L840	1.40	96108483	CZ205226DDHL
Cruz 205 HL Emergency (remote gear)			
CRUZ 205HL 1X18W TC-DEL HF E3 L840	1.80	96108317	CZ205118DZEHL
CRUZ 205HL 1X18W TC-TELI HF E3 L840	1.80	96108318	CZ205118TZEHL
CRUZ 205HL 1X26W TC-DEL HF E3 L840	1.90	96108323	CZ205126DZEHL
CRUZ 205HL 1X26W TC-TELI HF E3 L840	1.90	96108319	CZ205126TZEHL
CRUZ 205HL 1X32W TC-TELI HF E3 L840	1.90	96108320	CZ205132TZEHL
CRUZ 205HL 2X18W TC-DEL HF E3 L840	1.80	96108321	CZ205218DZEHL
CRUZ 205HL 2X26W TC-DEL HF E3 L840	1.80	96108322	CZ205226DZEHL
Cruz 205 HL dimmable, emergency (remote gear)			
CRUZ 205HL 1X18W TC-TELI HFI E3 L840	2.00	96108452	CZ205118TDEHL
CRUZ 205HL 1X18W TC-DEL HFI E3 L840	2.00	96108444	CZ205118DDEHL
CRUZ 205HL 1X26W TC-DEL HFI E3 L840	2.00	96108468	CZ205126DDEHL
CRUZ 205HL 1X26W TC-TELI HFI E3 L840	2.00	96108476	CZ205126TDEHL
CRUZ 205HL 1X32W TC-TELI HFI E3 L840	2.00	96108492	CZ205132TDEHL
CRUZ 205HL 2X18W TC-DEL HFI E3 L840	1.90	96108460	CZ205218DDEHL
CRUZ 205HL 2X26W TC-DEL HFI E3 L840	1.90	96108484	CZ205226DDEHL



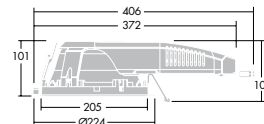
Cruz H HR / E3 / E3TX



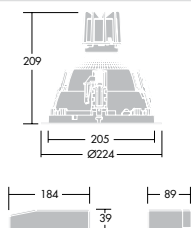
Cruz 205 H HF



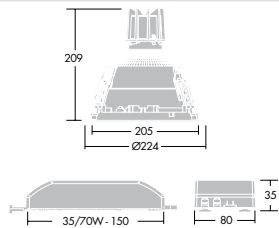
Cruz HL HF / E3



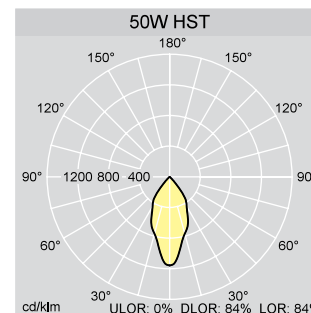
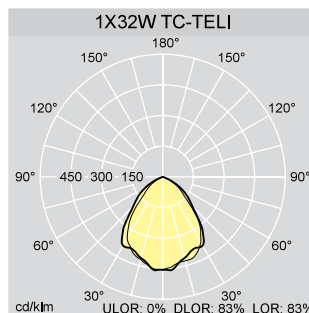
Cruz 205 HL HF



Cruz 205 V HST



Cruz 205 V HT



Cruz 240



www.thornlighting.co.uk/CR24

Versatile and powerful downlight for medium room heights



- Superior LOR in combination with CFL amalgam lamps (1x32W = 86% LOR)
- Rapid installation downlight (average mounting time takes only seconds) supported by the sophisticated, patented sec-loc® spring mechanism
- Choice of powerful discharge, high performance (Cruz HL) or highly comfortable (Cruz H) CFL versions matching your different application needs
- Digital dimming and emergency versions (manual test or SelfTest / addressable test) available as standard.

Materials/Finish

Body: sandblasted die-cast aluminium
 Gear cover: black polycarbonate (recycled)
 Reflector: high grade anodised aluminium
 Clips: stainless steel, quick-fix via SEC lock
 Bezel: die-cast aluminium

Installation/Mounting

Tool-free rapid installation without previous disassembling; patented sec-lock lock keeps product in place (1-35mm ceiling thickness). Integrated strain relief. 3 pole (3x2x2.5mm²) Piano key terminal block as standard in fixed output versions (Dimming versions with 5 or 6 poles). Choice of weight distribution ring (accessory) for soft ceilings, can be installed through the cut out. Attachments easily mounted by tool free bayonet function. All common connectors to order. Integral or remote gear tray according to the functional requirements.

Specification

To specify state:
 Horizontal/low recessed downlight for (Ø240mm cut out) with die cast aluminium body and sec-lock fixing for rapid installation. For 18-26W TC-DEL / 26-42W TC-TELI compact fluorescent, 70-150W HIT metal halide and 50-100W white SON lamps. For emergency versions please specify E3 for manual testing or E3TX for SelfTest / addressable testing.

As Thorn Cruz 240

Ordering Guide

Supplied complete with lamp(s), bezel and attachment (if required) to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Cruz 240 V discharge (remote gear)			
CRUZ 240V 1X50W HST GX12 HF L825	1.10	96108254	CZ240150ZV
CRUZ 240V 1X70W HIT G12 HF L830	1.30	96108255	CZ240170ZV
CRUZ 240V 1X100W HST GX12 HF L825	1.10	96108252	CZ2401100ZV
CRUZ 240V 1X150W HIT G12 HF L830	1.30	96108253	CZ2401150ZV
Cruz 240 H (integral gear)			
CRUZ 240H 1X26W TC-DEL HF L840	1.30	96108198	CZ240126DZH
CRUZ 240H 1X26W TC-TELI HF L840	1.30	96108201	CZ240126TZH
CRUZ 240H 1X32W TC-TELI HF L840	1.30	96108205	CZ240132TZH
CRUZ 240H 1X42W TC-TELI HF L840	1.30	96108210	CZ240142TZH
CRUZ 240H 2X18W TC-DEL HF L840	1.30	96108215	CZ240218DZH
CRUZ 240H 2X26W TC-DEL HF L840	1.30	96108218	CZ240226DZH
Cruz 240 H (remote gear)			
CRUZ 240H 2X32W TC-TELI HF L840	1.30	96108221	CZ240232TZH
Cruz 240 H dimmable (remote gear)			
CRUZ 240H 1X26W TC-DEL HFI L840	1.40	96108506	CZ240126DDH
CRUZ 240H 1X32W TC-TELI HFI L840	1.40	96108532	CZ240132TDH
CRUZ 240H 1X42W TC-TELI HFI L840	1.40	96108551	CZ240142TDH
CRUZ 240H 2X18W TC-DEL HFI L840	1.71	96108495	CZ240218DDH
CRUZ 240H 2X26W TC-DEL HFI L840	1.70	96108517	CZ240226DDH
CRUZ 240H 2X32W TC-TELI HFI L840	1.50	96108543	CZ240232TDH
Cruz 240 H emergency (remote gear)			
CRUZ 240H 1X26W TC-DEL HF E3 L840	2.10	96108324	CZ240126DZEH
CRUZ 240H 1X26W TC-TELI HF E3 L840	2.10	96108325	CZ240126TZEH
CRUZ 240H 1X32W TC-TELI HF E3 L840	2.10	96108326	CZ240132TZEH
CRUZ 240H 1X42W TC-TELI HF E3 L840	2.20	96108327	CZ240142TZEH
CRUZ 240H 2X18W TC-DEL HF E3 L840	2.00	96108328	CZ240218DZEH
CRUZ 240H 2X26W TC-DEL HF E3 L840	2.10	96108329	CZ240226DZEH
CRUZ 240H 2X32W TC-TELI HF E3 L840	2.10	96108330	CZ240232TZEH
Cruz 240 H dimmable, emergency (remote gear)			
CRUZ 240H 1X26W TC-DEL HFI E3 L840	2.20	96108507	CZ240126DDEH
CRUZ 240H 1X32W TC-TELI HFI E3 L840	2.20	96108533	CZ240132TDEH
CRUZ 240H 1X42W TC-TELI HFI E3 L840	2.30	96108552	CZ240142TDEH
CRUZ 240H 2X18W TC-DEL HFI E3 L840	2.10	96108496	CZ240218DDEH
CRUZ 240H 2X26W TC-DEL HFI E3 L840	2.20	96108518	CZ240226DDEH
CRUZ 240H 2X32W TC-TELI HFI E3 L840	2.20	96108544	CZ240232TDEH
Cruz 240 HL (integral gear)			
CRUZ 240HL 1X26W TC-DEL HF L840	1.20	96108226	CZ240126DZHL
CRUZ 240HL 1X26W TC-TELI HF L840	1.20	96108229	CZ240126TZHL
CRUZ 240HL 1X32W TC-TELI HF L840	1.20	96108232	CZ240132TZHL
CRUZ 240HL 1X42W TC-TELI HF L840	1.20	96108236	CZ240142TZHL



Cruz H

Lamps

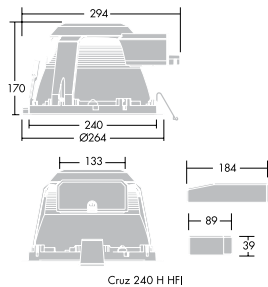
	HIT-CE (MT)	G12	70-150W
	HST-CRI GX12 (STH)	GX12-1	50-100W
	TC-TELI (FSM)	GX24q-4	26-42W
	TC-DEL (FSQ)	G24q-3	18-26W
	TC-TEL (FSM)	GX24q-4	26-42W

Standards

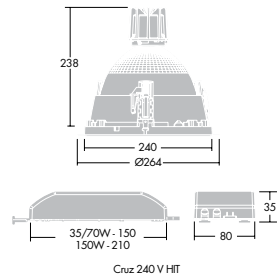


Description	Wt (kg)	SAP Code	Cat. No.
Cruz 240 HL (integral gear)			
CRUZ 240HL 2X18W TC-DEL HF L840	1.20	96108240	CZ240218DZHL
CRUZ 240HL 2X26W TC-DEL HF L840	1.20	96108243	CZ240226DZHL
CRUZ 240HL 2X26W TC-TELI HF L840	1.20	96108246	CZ240226TZHL
Cruz 240 HL (remote gear)			
CRUZ 240HL 2X32W TC-TELI HF L840	1.20	96108247	CZ240232TZHL
Cruz 240 HL dimmable (remote gear)			
CRUZ 240HL 1X26W TC-DEL HFI L840	1.50	96108510	CZ240126DDHL
CRUZ 240HL 1X32W TC-TELI HFI L840	1.34	96108536	CZ240132TDHL
CRUZ 240HL 1X42W TC-TELI HFI L840	1.20	96108555	CZ240142TDHL
CRUZ 240HL 2X18W TC-DEL HFI L840	1.30	96108499	CZ240218DDHL
CRUZ 240HL 2X26W TC-DEL HFI L840	1.20	96108521	CZ240226DDHL
CRUZ 240HL 2X32W TC-TELI HFI L840	1.30	96108547	CZ240232TDHL
Cruz 240 HL emergency (remote gear)			
CRUZ 240HL 1X26W TC-DEL HF E3 L840	2.00	96108331	CZ240126DZEHL
CRUZ 240HL 1X26W TC-TELI HF E3 L840	2.00	96108332	CZ240126TZEHL
CRUZ 240HL 1X32W TC-TELI HF E3 L840	2.00	96108333	CZ240132TZEHL
CRUZ 240HL 1X42W TC-TELI HF E3 L840	2.10	96108334	CZ240142TZEHL
CRUZ 240HL 2X18W TC-DEL HF E3 L840	1.90	96108335	CZ240218DZEHL
CRUZ 240HL 2X26W TC-DEL HF E3 L840	2.00	96108336	CZ240226DZEHL
CRUZ 240HL 2X32W TC-TELI HF E3 L840	2.00	96108337	CZ240232TZEHL
Cruz 240 HL dimmable, emergency (remote gear)			
CRUZ 240HL 1X26W TC-DEL HFI E3 L840	2.10	96108511	CZ240126DDEHL
CRUZ 240HL 1X32W TC-TELI HFI E3 L840	2.10	96108537	CZ240132TDEHL
CRUZ 240HL 1X42W TC-TELI HFI E3 L840	2.20	96108556	CZ240142TDEHL
CRUZ 240HL 2X18W TC-DEL HFI E3 L840	2.10	96108500	CZ240218DDEHL
CRUZ 240HL 2X26W TC-DEL HFI E3 L840	2.10	96108522	CZ240226DDEHL
CRUZ 240HL 2X26W TC-TELI HFI E3 L840	2.10	96108529	CZ240226TDEHL
CRUZ 240HL 2X32W TC-TELI HFI E3 L840	2.10	96108548	CZ240232TDEHL

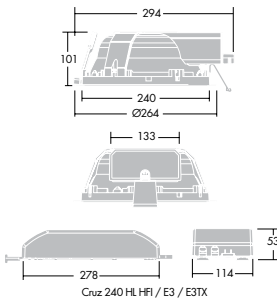
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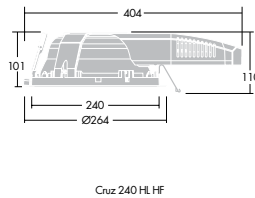
Cruz 240 H HFI



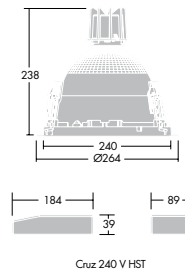
Cruz 240 V HIT



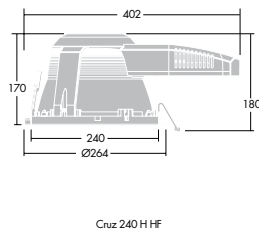
Cruz 240 HL HFI / E3 / E3TX



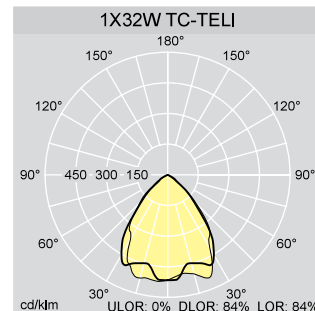
Cruz 240 HL HF



Cruz 240 V HST



Cruz 240 H HF



Cruz 280



www.thornlighting.co.uk/CR28

Performance downlight for large area, high ceiling applications



- High LOR in combination with high wattage CFL amalgum lamps (2x42W = 77% LOR)
- Rapid installation downlight (average mounting time takes only seconds) supported by the sophisticated, patented sec-loc® spring mechanism
- Choice of powerful discharge or CFL versions, extending spacings and savings
- Digital dimming and emergency versions (manual test or SelfTest / addressable test) available as standard.

Materials/Finish

Body: sandblasted die-cast aluminium
Gear cover: black polycarbonate
Reflector: high grade anodised aluminium
Clips: stainless steel, quick-fix via sec-lock mechanism
Bezel: die-cast aluminium

Installation/Mounting

Tool-free rapid installation without previous disassembly; patented sec-lock keeps product in place (1-35mm ceiling thickness). Integrated strain relief. 3 pole (3x2x2.5mm²) piano key terminal block as standard in fixed output versions (dimming versions with 5 or 6 poles). Choice of weight distribution ring (accessory) for soft ceilings, can be installed through the cut out. Attachments easily mounted by tool free bayonet function. All common connectors to order. integral or remote gear tray according to the application needs.

Specification

To specify state:
Horizontal recessed downlight for (280mm cut out) with die cast aluminium body and sec-lock fixing for rapid installation. Comes with 26W TC-DEL / 32-57W TC-TELI compact fluorescent, 70-150W HIT metal halide and 50-100W white SON lamps. For emergency versions please specify E3 for manual testing or E3TX for SelfTest / addressable testing.
As Thorn Cruz 280



Lamps

	HIT-CE (MT)	G12	70-150W
	HST-CRI GX12 (STH)	GX12-1	50-100W
	TC-TELI (FSM)	GX24q-5	32-57W
	TC-DEL (FSQ)	G24q-3	26W
	TC-TEL (FSM)	GX24q-5	32-57W

Standards

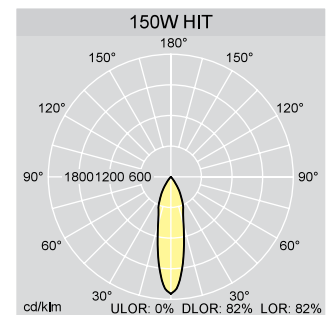
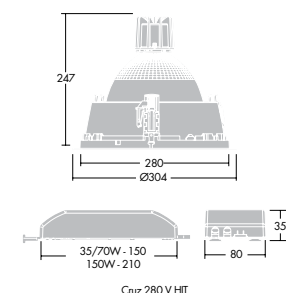
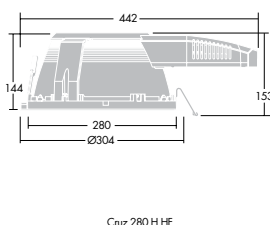
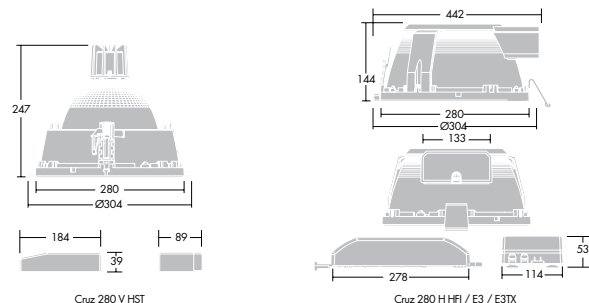


Ordering Guide

Supplied complete with lamp(s), bezel and attachment (if required) to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Cruz 280 V discharge (remote gear)			
CRUZ 280V 1X50W HST GX12 HF L825	1.20	96108291	CZ280150ZV
CRUZ 280V 1X70W HIT G12 HF L830	1.40	96108292	CZ280170ZV
CRUZ 280V 1X100W HST GX12 HF L825	1.20	96108289	CZ2801100ZV
CRUZ 280V 1X150W HIT G12 HF L830	1.40	96108290	CZ2801150ZV
Cruz 280 H (integral gear)			
CRUZ 280H 1X42W TC-TELI HF L840	1.50	96108274	CZ280142ZH
CRUZ 280H 2X26W TC-DEL HF L840	1.50	96108280	CZ280226ZH
Cruz 280 H (remote gear)			
CRUZ 280H 1X57W TC-TELI HF L840	1.50	96108277	CZ280157ZH
CRUZ 280H 2X32W TC-TELI HF L840	1.50	96108283	CZ280232ZH
CRUZ 280H 2X42W TC-TELI HF L840	1.50	96108286	CZ280242ZH
Cruz 280 H dimmable (remote gear)			
CRUZ 280H 1X42W TC-TELI HFI L840	1.72	96108566	CZ280142DH
CRUZ 280H 1X57W TC-TELI HFI L840	1.70	96108574	CZ280157DH
CRUZ 280H 2X32W TC-TELI HFI L840	1.70	96108562	CZ280232DH
CRUZ 280H 2X42W TC-TELI HFI L840	2.20	96108570	CZ280242DH
Cruz 280 H emergency (remote gear)			
CRUZ 280H 1X42W TC-TELI HF E3 L840	2.40	96108343	CZ280142ZEH
CRUZ 280H 2X26W TC-DEL HF E3 L840	2.30	96108344	CZ280226ZEH
CRUZ 280H 2X32W TC-TELI HF E3 L840	2.30	96108345	CZ280232ZEH
CRUZ 280H 2X42W TC-TELI HF E3 L840	2.40	96108346	CZ280242ZEH
Cruz 280 H dimmable, emergency (remote gear)			
CRUZ 280H 1X42W TC-TELI HFI E3 L840	2.50	96108567	CZ280142DEH
CRUZ 280H 1X57W TC-TELI HFI E3 L840	2.50	96108575	CZ280157DEH
CRUZ 280H 2X32W TC-TELI HFI E3 L840	2.40	96108563	CZ280232DEH
CRUZ 280H 2X42W TC-TELI HFI E3 L840	2.50	96108571	CZ280242DEH

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Cruz

160/210 Gyro



www.thornlighting.co.uk/CRGY

A stylish, pivoting, recessed downlight in two sizes for discharge lamps



- Pivots out up to 60°, rotates 0-355°, position lockable
- Remote electronic gears
- Choice of flood (36°) or spot (11°) reflector, supplied complete with protective glass
- Wide choice of attachments, such as colour filters, food filter, etc.

Materials/Finish

Body: die-cast aluminium, painted white.
Reflector: high grade anodised aluminium.
Clips: stainless steel spring clip.
Bezel: die-cast aluminium, painted white.

Installation/Mounting

Tool-free installation. Integrated strain relief. 3 pole (3x2x2.5mm²) piano key terminal block as standard in fixed output versions. Retained in ceiling by stainless spring clips. (1-35mm thickness).
Choice of weight distribution ring (accessory) for soft ceilings.
Can be installed through the cut-out.
All common connectors available to order.

Specification

To specify state:
Pivoting recessed downlight for 20-70W HIT metal halide lamps.
Ø160mm cut-out.
As Thorn Cruz 160 Gyro.
To specify state:
Pivoting recessed downlight for 35-150W HIT metal halide and 50-100W white SON lamps.
Ø210mm cut-out.
As Thorn Cruz 210 Gyro.



Lamps

	HIT-CE (MT)	G12	35-150W
	HIT-TC-CE (MT)	G8.5	20-70W
	HST-CRI GX12 (STH)	GX12-1	50-100W

Standards



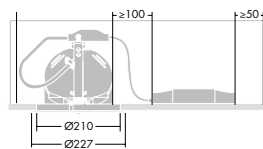
850°C

Ordering Guide

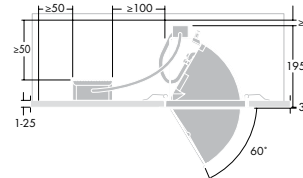
Supplied complete with lamp(s), bezel and attachment (if required) to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Cruz 160 Gyro			
CRUZ 160G 1X20W HIT G8,5 HF SP L830	1.20	96108293	CZ160G120ZSP
CRUZ 160G 1X35W HIT G8,5 HF FL L830	1.20	96108294	CZ160G135ZFL
CRUZ 160G 1X35W HIT G8,5 HF SP L830	1.20	96108295	CZ160G135ZSP
CRUZ 160G 1X70W HIT G8,5 HF FL L830	1.20	96108296	CZ160G170ZFL
CRUZ 160G 1X70W HIT G8,5 HF SP L830	1.20	96108297	CZ160G170ZSP
Cruz 210 Gyro			
CRUZ 210G 1X35W HIT G12 HF FL L830	1.90	96108302	CZ210G135ZFL
CRUZ 210G 1X35W HIT G12 HF SP L830	1.90	96108303	CZ210G135ZSP
CRUZ 210G 1X50W HST GX12 HF FL L825	1.80	96108304	CZ210G150ZFL
CRUZ 210G 1X50W HST GX12 HF SP L825	1.80	96108305	CZ210G150ZSP
CRUZ 210G 1X70W HIT G12 HF FL L830	1.90	96108306	CZ210G170ZFL
CRUZ 210G 1X70W HIT G12 HF SP L830	1.90	96108307	CZ210G170ZSP
CRUZ 210G 1X100W HST GX12 HF FL L825	1.80	96108298	CZ210G1100ZFL
CRUZ 210G 1X100W HST GX12 HF SP L825	1.80	96108299	CZ210G1100ZSP
CRUZ 210G 1X150W HIT G12 HF FL L830	1.90	96108300	CZ210G1150ZFL
CRUZ 210G 1X150W HIT G12 HF SP L830	1.90	96108301	CZ210G1150ZSP

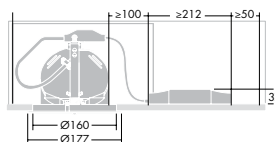
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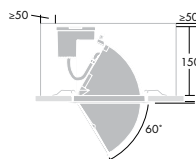
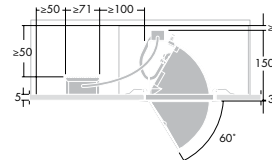
Cruz Gyro 210 HIT / HST



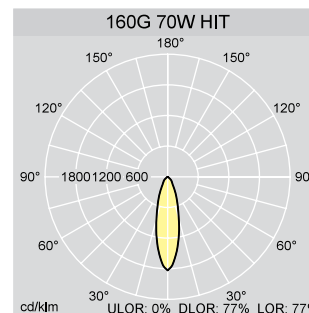
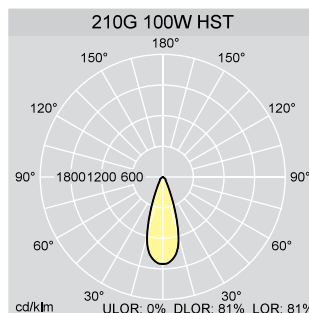
Cruz Gyro 210 HIT / HST



Cruz Gyro 160 35-70W HIT



Cruz Gyro 160 20W HIT



Cruz

240 Wallwasher



www.thornlighting.co.uk/CRWW

Recessed compact fluorescent / discharge downlight with a Ø240mm cut-out and asymmetric optic for true wall washing



- Versatile asymmetric wallwasher with a wide choice of lamp types, including metal halide and white SON to suit application needs
- Lamp and reflector tilted 30° to give optimal, asymmetric wallwasher
- Discharge versions complete with protective glass
- Full functionality is given by supporting digital dimming and emergency versions (manual test as well as SelfTest/Addressable Test)

Materials/Finish

Body: sandblasted die-cast aluminium
Gear cover: black polycarbonate
Reflector: high grade anodised aluminium
Clips: stainless steel, quick-fix via sec-lock spring mechanism
Bezel: die-cast aluminium

Installation/Mounting

Tool-free, rapid installation without previous disassembly, patented sec-lock keeps product in place (1-35mm ceiling thickness). Integrated strain relief. 3 pole (3x2x2.5mm²) piano key terminal block as standard in fixed output versions (dimming versions with 5 or 6 poles). Choice of weight distribution ring (accessory) for soft ceilings, can be installed through the cut out. Attachments easily mounted by tool-free bayonet function. All common connectors to order. Separate gearbox for HID version with pre-installed cable and connection.

Specification

To specify state:
Asymmetric recessed downlight for 18-26W TC-DEL/32-42W TC-TELI compact fluorescent, 35-150W HIT metal halide and 50-100W white SON lamps. 240mm cut-out. For emergency versions please specify E3 or E3TX for SelfTest/Addressable Test. As Thorn Cruz 240 Wallwasher.



Lamps

	HIT-CE (MT)	G 12	35-150W
	HST-CRI GX12 (STH)	GX12-1	50-100W
	TC-TELI (FSM)	GX24q-4	32-42W
	TC-DEL (FSQ)	G24q-3	18-26W
	TC-TEL (FSM)	GX24q-4	32-42W

Standards

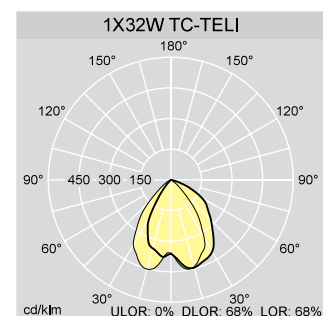
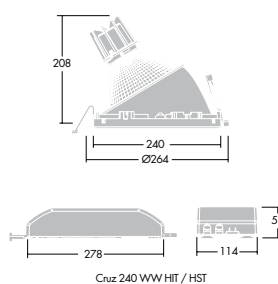
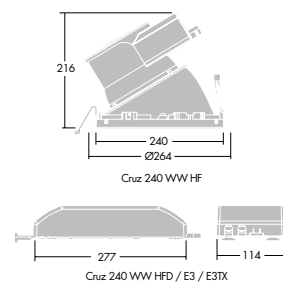


Ordering Guide

Supplied complete with lamp(s), bezel and attachment (if required) to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Cruz 240 Wallwasher Discharge (remote gear)			
CRUZ 240WW 1X35W HIT G 12 HF L830	1.30	96108262	CZ240135ZWW
CRUZ 240WW 1X50W HST GX12 HF L825	1.30	96108266	CZ240150ZWW
CRUZ 240WW 1X70W HIT G 12 HF L830	1.30	96108267	CZ240170ZWW
CRUZ 240WW 1X100W HST GX12 HF L825	1.30	96108256	CZ2401100ZWW
CRUZ 240WW 1X150W HIT G 12 HF L830	1.30	96108257	CZ2401150ZWW
Cruz 240 Wallwasher High Frequency (integral gear)			
CRUZ 240WW 1X26W TC-DEL HF L840	1.30	96108258	CZ240126ZWW
CRUZ 240WW 1X42W TC-TELI HF L840	1.30	96108263	CZ240142ZWW
CRUZ 240WW 2X18W TC-DEL HF L840	1.30	96108268	CZ240218ZWW
CRUZ 240WW 2X26W TC-DEL HF L840	1.30	96108271	CZ240226ZWW
Cruz 240 Wallwasher High Frequency Dimmable (remote gear)			
CRUZ 240WW 1X26W TC-DEL HFI L840	1.40	96108514	CZ240126DWW
CRUZ 240WW 1X32W TC-TELI HFI L840	1.40	96108540	CZ240132DWW
CRUZ 240WW 1X42W TC-TELI HFI L840	1.40	96108559	CZ240142DWW
CRUZ 240WW 2X18W TC-DEL HFI L840	1.40	96108503	CZ240218DWW
CRUZ 240WW 2X26W TC-DEL HFI L840	1.40	96108525	CZ240226DWW
Cruz 240 Wallwasher Emergency (remote gear)			
CRUZ 240WW 1X26W TC-DEL HF E3 L840	2.10	96108338	CZ240126ZEWW
CRUZ 240WW 1X26W TC-DEL HFI E3 L840	2.20	96108515	CZ240126DEWW
CRUZ 240WW 1X32W TC-TELI HFI E3 L840	2.20	96108541	CZ240132DEWW
CRUZ 240WW 1X42W TC-TELI HF E3 L840	2.20	96108340	CZ240142ZEWW
CRUZ 240WW 1X42W TC-TELI HFI E3 L840	2.30	96108560	CZ240142DEWW
CRUZ 240WW 2X18W TC-DEL HF E3 L840	2.00	96108341	CZ240218ZEWW
CRUZ 240WW 2X18W TC-DEL HFI E3 L840	2.10	96108504	CZ240218DEWW
CRUZ 240WW 2X26W TC-DEL HF E3 L840	2.10	96108342	CZ240226ZEWW
CRUZ 240WW 2X26W TC-DEL HFI E3 L840	2.20	96108526	CZ240226DEWW

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Cruz

Attachments

www.thornlighting.co.uk/CRAT

Ordering Guide All attachments require a bezel to be ordered, except for all IP54 versions, PC CL Anti Harm, Glass Halo FR, Glass Ring FR, Glass FR Ring Basic and Ring Line XS.

Attachments		Fixed							Gyro		Wall Washer
		115	160	205L	205H	240L	240H	280H	160	210	240
Bezels											
	BEZEL WHI	96106920 CR115WBEZ	96106926 CR160WBEZ	96106934 CR205WBEZ	96106934 CR205WBEZ	96106950 CZ240WBEZ	96106950 CZ240WBEZ	96106965 CZ280WBEZ			96106950 CZ240WBEZ
	BEZEL CHR	96106921 CR115CHBEZ	96106927 CR160CHBEZ	96106935 CR205CHBEZ	96106935 CR205CHBEZ	96106951 CZ240CHBEZ	96106951 CZ240CHBEZ	96106966 CZ280CHBEZ			96106951 CZ240CHBEZ
	BEZEL GRY	96107040 CR115GBEZ	96107041 CR160GBEZ	96107042 CZ205GBEZ	96107042 CZ205GBEZ	96107048 CZ240GBEZ	96107048 CZ240GBEZ	96107053 CZ280GBEZ			96107048 CZ240GBEZ
Functional											
	CROSS VANE LOUVRE			96106939 CZ205LVC	96106939 CZ205LVC	96106954 CZ240LVC	96106954 CZ240LVC				
	RADIAL LOUVRE			96107043 CZ205LVR	96107043 CZ205LVR	96107050 CZ240LVR	96107050 CZ240LVR	96107054 CZ280LVR			
	DOME		96106924 CR160D		96106932 CR205D						
	GLASS IP54 CL WHI	96107360 CR115GLWIP54	96107363 CR160GLWIP54	96107366 CZ205GLWIP54	96107366 CZ205GLWIP54	96107369 CZ240GLWIP54	96107369 CZ240GLWIP54	96107372 CZ280GLWIP54			96107369 CZ240GLWIP54
	GLASS IP54 CL CHR	96107361 CR115GLCHIP54	96107364 CR160GLCHIP54	96107367 CZ205GLCHIP54	96107367 CZ205GLCHIP54	96107370 CZ240GLCHIP54	96107370 CZ240GLCHIP54	96107373 CZ280GLCHIP54			96107370 CZ240GLCHIP54
	GLASS IP54 CL GRY	96107362 CR115GLGIP54	96107365 CR160GLGIP54	96107368 CZ205GLGIP54	96107368 CZ205GLGIP54	96107371 CZ240GLGIP54	96107371 CZ240GLGIP54	96107374 CZ280GLGIP54			96107368 CZ205GLGIP54
	WALLWASHER				96106948 CZ205WWH						
	PC CL ANTI HARM WHI	96106995 CR115CLWAH	96106996 CR160CLWAH	96106997 CZ205CLWAH	96106997 CZ205CLWAH	96106998 CZ240CLWAH	96106998 CZ240CLWAH	96106999 CZ280CLWAH			
Decorative											
	GLASS HALO FR			96106937 CR205GLFRH	96106937 CR205GLFRH	96107049 CZ240GLFRH	96107049 CZ240GLFRH				
	GLASS RING FR	96106922 CR115GLFRR	96106928 CR160GLFRR	96106936 CR205GLFRR	96106936 CR205GLFRR	96106952 CZ240GLFRRHL	96106952 CZ240GLFRRHL	96106967 CZ280GLFRR			
	GLASS TRUMPET FR/CL			96107045 CZ205GLFRCLTR	96107045 CZ205GLFRCLTR	96107052 CZ240GLFRCLT	96107052 CZ240GLFRCLT				

Attachments		Fixed						Gyro		Wall Washer	
		115	160	205L	205H	240L	240H	280H	160	210	240
Decorative											
	GLASS TIME FR/CL					96107051 CZ240GLFRCLTI	96107051 CZ240GLFRCLTI				
	GLASS FR RING BASIC				96107300 CZ205GLFRRB	96107301 CZ240GLFRRB		96107302 CZ280GLFRRB			
Family											
	GLASS PLANOR IP54 FR WHI				96107375 CZ205GLPWIP54						
	GLASS PLANOR IP54 FR CHR				96107376 CZ205GLPCHIP54						
	GLASS PLANOR IP54 FR GRY				96107377 CZ205GLPIP54						
	RING GARBO			96106946 CZ205GARR	96106946 CZ205GARR						
	RING LINE XS			96106947 CZ205LINEXS	96106947 CZ205LINEXS	96106961 CZ240LINEXS	96106961 CZ240LINEXS				
Retail											
	FILTER BLUE				96106973 CZ205BFIL			96106977 CZ160GBFIL	96106981 CZ210GBFIL		
	FILTER GREEN				96106974 CZ205GFIL			96106978 CZ160GGFIL	96106982 CZ210GGFIL		
	FILTER RED				96106975 CZ205RFIL			96106979 CZ160GRFIL	96106983 CZ210GRFIL		
	FILTER YELLOW				96106976 CZ205YFIL			96106980 CZ160GYFIL	96106984 CZ210GYFIL		
	FILTER IR/UVA							96107055 CZ160GIRFIL	96107056 CZ210GIRFIL		
Emergency											
	EMERGENCY L/R			96107046 CZ205ELR	96107046 CZ205ELR	96106962 CZ240ELR	96106962 CZ240ELR	96106970 CZ280ELR			
	EMERGENCY DOWN			96107047 CZ205ED	96107047 CZ205ED	96106963 CZ240ED	96106963 CZ240ED	96106971 CZ280ED			
Mounting											
WEIGHT DISTRIBUTION RING	96106985 CR115WDR	96106986 CZ160GWDR	96106987 CZ205/210GWDR	96106987 CZ205/210GWDR	96106989 CZ240WDR	96106989 CZ240WDR	96106990 CZ280WDR	96106986 CZ160GWDR	96106987 CZ205/210GWDR		
CONCRETE MOUNTING BOX			96106991 CZ205LCONMTG	96106992 CZ205HCONMTG	96106993 CZ240CONMTGL	96106994 CZ240CONMTGH					
IP23 BOX 1PC			96107010 CZ205/240BOX1	96107012 CZBOX1	96107010 CZ205/240BOX1	96107012 CZBOX1	96107012 CZBOX1				
IP23 BOX 5PC			96107011 CZ205/240BOX5		96107011 CZ205/240BOX5						

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NEW

Chalice

190 LED ECO



www.thornlighting.co.uk/CHLE

A direct replacement for conventional CFL downlights up to 2x32W



- Up to 70% energy reduction vs CFL downlights, reducing the energy bill. Further savings can be achieved via the DALI dimmable version in combination with remote presence/daylight sensors
- Ideal refurbishment solution with the same standard Chalice cut-out diameter (190mm) plus accessories for easy replacement and reduced installation time
- Tuneable white option (2700-6500K) to allow lighting adjustments to create atmosphere and ambience

Materials/Finish

Body: Polycarbonate, black
Mounting clips: Stainless steel; tuneable / Twist - Polycarbonate
Bezel and frame: Polycarbonate, white (RAL9016)
Reflector: Satinbrite Polycarbonate
Module support: white painted steel sheet
Heat sink: aluminium, black

Installation/Mounting

Stainless steel wings/adjustable black clips for ceiling thicknesses of 5-40 mm. No tools required.
Cut-out diameter 190mm.

Specification

To specify state:
Recessed LED downlight for mains connection using horizontal fixed/tuneable LED modules with 800/1000/1800/2000/3000 lm outputs, 50.000 h lifetime @ 70% lumen maintenance, passive cooled. Satinbrite Polycarbonate reflector with choice of attachments.
As Thorn Chalice LED ECO.



Lamps

LED 14-38W

Standards

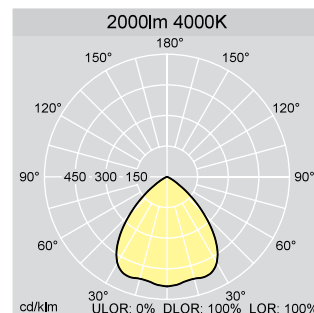
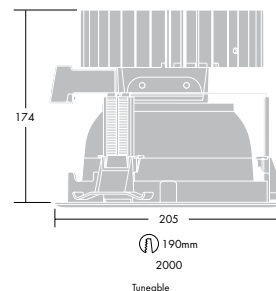
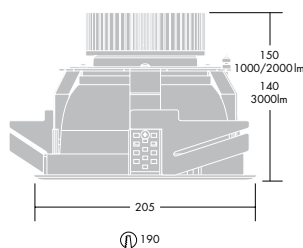
EN 60598 IP20 IK03 T_a $\begin{matrix} 5 \\ +25 \end{matrix}$
 850°C

Ordering Guide

Products supplied complete with LED module

Description	Wt (kg)	SAP Code	Cat. No.
Chalice 190 LED ECO			
CHALICE 190H LED ECO 1000 HF L830	1.00	96241516	CHE1000Z3K
CHALICE 190H LED ECO 1000 HF L840	1.00	96241517	CHE1000Z4K
CHALICE 190H LED ECO 2000 HF L830	1.00	96241520	CHE2000Z3K
CHALICE 190H LED ECO 2000 HF L840	1.00	96241521	CHE2000Z4K
CHALICE 190H LED ECO 3000 HF L830	1.00	96241526	CHE3000Z3K
CHALICE 190H LED ECO 3000 HF L840	1.00	96241527	CHE3000Z4K
Chalice 190 LED ECO Dimmable			
CHALICE 190H LED ECO 1000 HFI-X L830	1.00	96241518	CHE1000X3K
CHALICE 190H LED ECO 1000 HFI-X L840	1.00	96241519	CHE1000X4K
CHALICE 190H LED ECO 2000 HFI-X L830	1.00	96241522	CHE2000X3K
CHALICE 190H LED ECO 2000 HFI-X L840	1.00	96241524	CHE2000X4K
CHALICE 190H LED ECO 3000 HFI-X L830	1.00	96241528	CHE3000X3K
CHALICE 190H LED ECO 3000 HFI-X L840	1.00	96241529	CHE3000X4K
Chalice 190 LED ECO Emergency			
CHALICE 190H LED ECO 1000 HF E3 L830	1.90	96241530	CHE1000ZE3K
CHALICE 190H LED ECO 1000 HF E3 L840	1.90	96241531	CHE1000ZE4K
CHALICE 190H LED ECO 2000 HF E3 L830	1.90	96241534	CHE2000ZE3K
CHALICE 190H LED ECO 2000 HF E3 L840	1.90	96241535	CHE2000ZE4K
CHALICE 190H LED ECO 3000 HF E3 L830	1.90	96241538	CHE3000ZE3K
CHALICE 190H LED ECO 3000 HF E3 L840	1.90	96241539	CHE3000ZE4K
Chalice 190 LED ECO Dimmable, emergency			
CHALICE 190H LED ECO 1000 HFI-X E3 L830	1.90	96241532	CHE1000XE3K
CHALICE 190H LED ECO 1000 HFI-X E3 L840	1.90	96241533	CHE1000XE4K
CHALICE 190H LED ECO 2000 HFI-X E3 L830	1.90	96241536	CHE2000XE3K
CHALICE 190H LED ECO 2000 HFI-X E3 L840	1.90	96241537	CHE2000XE4K
CHALICE 190H LED ECO 3000 HFI-X E3 L830	1.90	96241540	CHE3000XE3K
CHALICE 190H LED ECO 3000 HFI-X E3 L840	1.90	96241541	CHE3000XE4K
Chalice 190 LED ECO Tuneable			
CHALICE 190H LED 800 HFI CL2 L927-65	1.60	96241419	CH800D927-65
CHALICE 190H LED 1800 HFI CL2 L927-65	2.20	96241420	CH1800D927-65

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NEW

Chalice

190 H



www.thornlighting.co.uk/CH9H

The all new Chalice 190 is a multi purpose problem solver with high versatility and excellent performance



- New energy saving compact fluorescent lamps consume 25% less power compared to traditional versions
- A satin aluminium reflector improves performance and extends the range up to 2x32W TC-TEL compact fluorescent lamps
- A discrete integral 3hr LED emergency solution at the bottom of the reflector reduces charging power consumption by 60% when compared to conventional compact fluorescent versions
- HFI-models are equipped with the latest multi-functional dimmable ballast, allowing DALI or DS1 control and Corridor functionality - the choice is yours!

Materials/Finish

Body: polycarbonate, black
 Mounting clips: polycarbonate, black
 Bezel and frame: polycarbonate, white
 Reflector: satinbrite, high purity aluminium or vacuum metallised mirrorbrite polycarbonate

Installation/Mounting

Adjustable fixing clips suitable for ceiling thicknesses from 1 - 25mm. No tools required. Cut out diameter 190mm.

Specification

To specify state:
 Recessed downlight, mains/LED emergency, for horizontal single/twin 18/26W TC-DEL, 32/42W TC-TEL and 14/17W PL-R lamps. Satinbrite aluminium or vacuum metallised polycarbonate reflector choice of attachments.
 As Thorn Chalice 190H

Ordering Guide

Supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Chalice 190 H Polycarbonate reflector			
CHALICE 190H PC 1X18 TC-DEL HF L840	0.75	96240160	CH118ZPC
CHALICE 190H PC 1X26 TC-DEL HF L840	0.75	96240161	CH126ZPC
CHALICE 190H PC 1X32 TC-TEL HF L840	0.85	96240318	CH132ZPC
CHALICE 190H PC 1X42 TC-TEL HF L840	0.85	96240319	CH142ZPC
CHALICE 190H PC 2X18 TC-DEL HF L840	0.85	96240162	CH218ZPC
CHALICE 190H PC 2X26 TC-DEL HF L840	0.85	96240163	CH226ZPC
Chalice 190 H Polycarbonate reflector, emergency			
CHALICE 190H PC 1X18 TC-DEL HF E3 L840	1.05	96240164	CH118ZEPC
CHALICE 190H PC 1X26 TC-DEL HF E3 L840	1.05	96240165	CH126ZEPC
CHALICE 190H PC 1X32 TC-TEL HF E3 L840	1.10	96240320	CH132ZEPC
CHALICE 190H PC 1X42 TC-TEL HF E3 L840	1.10	96240321	CH142ZEPC
CHALICE 190H PC 2X18 TC-DEL HF E3 L840	1.10	96240166	CH218ZEPC
CHALICE 190H PC 2X26 TC-DEL HF E3 L840	1.10	96240167	CH226ZEPC
Chalice 190 H Polycarbonate reflector, dimmable			
CHALICE 190H PC 1X18 TC-DEL HFI L840	0.80	96240709	CH118DPC
CHALICE 190H PC 1X26 TC-DEL HFI L840	0.80	96240710	CH126DPC
CHALICE 190H PC 1X32 TC-TEL HFI L840	0.90	96240322	CH132DPC
CHALICE 190H PC 1X42 TC-TEL HFI L840	0.90	96240323	CH142DPC
CHALICE 190H PC 2X18 TC-DEL HFI L840	0.90	96240711	CH218DPC
CHALICE 190H PC 2X26 TC-DEL HFI L840	0.90	96240712	CH226DPC
Chalice 190 H Polycarbonate reflector, dimmable, emergency			
CHALICE 190H PC 1X18 TC-DEL HFI E3 L840	1.10	96240713	CH118DEPC
CHALICE 190H PC 1X26 TC-DEL HFI E3 L840	1.10	96240714	CH126DEPC
CHALICE 190H PC 1X32 TC-TEL HFI E3 L840	1.15	96240324	CH132DEPC
CHALICE 190H PC 1X42 TC-TEL HFI E3 L840	1.15	96240325	CH142DEPC
CHALICE 190H PC 2X18 TC-DEL HFI E3 L840	1.20	96240715	CH218DEPC
CHALICE 190H PC 2X26 TC-DEL HFI E3 L840	1.20	96240716	CH226DEPC
Chalice 190 H Aluminium reflector			
CHALICE 190H ALU 1X14W PL-R HF L840	0.80	96548619	CH114ZAL
CHALICE 190H ALU 1X17W PL-R HF L840	0.80	96548620	CH117ZAL
CHALICE 190H ALU 1X18W TC-DEL HF L840	0.75	96548623	CH118ZAL
CHALICE 190H ALU 1X26W TC-DEL HF L840	0.75	96548625	CH126ZAL
CHALICE 190H ALU 1X32W TC-TEL HF L840	0.85	96548627	CH132ZAL
CHALICE 190H ALU 1X42W TC-TEL HF L840	0.85	96548628	CH142ZAL
CHALICE 190H ALU 2X14W PL-R HF L840	0.90	96548621	CH214ZAL
CHALICE 190H ALU 2X17W PL-R HF L840	0.90	96548622	CH217ZAL
CHALICE 190H ALU 2X18W TC-DEL HF L840	0.80	96548624	CH218ZAL
CHALICE 190H ALU 2X26W TC-DEL HF L840	0.80	96548626	CH226ZAL
CHALICE 190H ALU 2X32W TC-TEL HF L840	0.95	96548629	CH232ZAL



Lamps

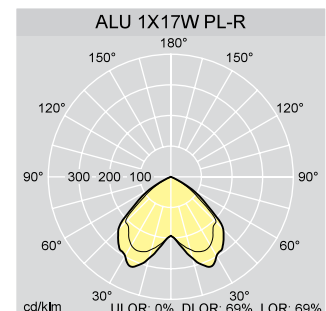
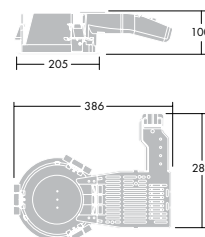
- TC-TEL (FSM) GR14q-1 14-17W
- TC-TELI (FSM) GX24q-4 32-42W
- TC-DEL (FSQ) G24q-3 18-26W
- TC-TEL (FSM) GX24q-4 32-42W

Standards

EN 60598 IP20 IP44 IK03 T_a $\begin{matrix} 5 \\ +25 \end{matrix}$
 850°C

Description	Wt (kg)	SAP Code	Cat. No.
Chalice 190 H Aluminium reflector, emergency			
CHALICE 190H ALU 1X14W PL-R HF E3 L840	1.10	96548635	CH114ZEAL
CHALICE 190H ALU 1X17W PL-R HF E3 L840	1.10	96548636	CH117ZEAL
CHALICE 190H ALU 1X18W TC-DEL HF E3 L840	1.00	96548639	CH118ZEAL
CHALICE 190H ALU 1X26W TC-DEL HF E3 L840	1.00	96548641	CH126ZEAL
CHALICE 190H ALU 1X32W TC-TEL HF E3 L840	1.10	96548643	CH132ZEAL
CHALICE 190H ALU 1X42W TC-TEL HF E3 L840	1.10	96548644	CH142ZEAL
CHALICE 190H ALU 2X14W PL-R HF E3 L840	1.20	96548637	CH214ZEAL
CHALICE 190H ALU 2X17W PL-R HF E3 L840	1.20	96548638	CH217ZEAL
CHALICE 190H ALU 2X18W TC-DEL HF E3 L840	1.10	96548640	CH218ZEAL
CHALICE 190H ALU 2X26W TC-DEL HF E3 L840	1.10	96548642	CH226ZEAL
CHALICE 190H ALU 2X32W TC-TEL HF E3 L840	1.25	96548645	CH232ZEAL
Chalice 190 H Aluminium reflector, dimmable			
CHALICE 190H ALU 1X14W PL-R HFI L840	0.85	96548647	CH114DAL
CHALICE 190H ALU 1X17W PL-R HFI L840	0.85	96548648	CH117DAL
CHALICE 190H ALU 1X18W TC-DEL HFI L840	0.80	96548651	CH118DAL
CHALICE 190H ALU 1X26W TC-DEL HFI L840	0.80	96548653	CH126DAL
CHALICE 190H ALU 1X32W TC-TEL HFI L840	0.85	96548655	CH132DAL
CHALICE 190H ALU 1X42W TC-TEL HFI L840	0.85	96548656	CH142DAL
CHALICE 190H ALU 2X14W PL-R HFI L840	1.00	96548649	CH214DAL
CHALICE 190H ALU 2X17W PL-R HFI L840	1.00	96548650	CH217DAL
CHALICE 190H ALU 2X18W TC-DEL HFI L840	0.90	96548652	CH218DAL
CHALICE 190H ALU 2X26W TC-DEL HFI L840	0.90	96548654	CH226DAL
CHALICE 190H ALU 2X32W TC-TEL HFI L840	1.00	96548657	CH232DAL
Chalice 190 H Aluminium reflector, dimmable, emergency			
CHALICE 190H ALU 1X14W PL-R HFI E3 L840	1.10	96548663	CH114DEAL
CHALICE 190H ALU 1X17W PL-R HFI E3 L840	1.10	96548664	CH117DEAL
CHALICE 190H ALU 1X18W TC-DEL HFI E3 L84	1.05	96548667	CH118DEAL
CHALICE 190H ALU 1X26W TC-DEL HFI E3 L84	1.05	96548669	CH126DEAL
CHALICE 190H ALU 1X32W TC-TEL HFI E3 L84	1.15	96548671	CH132DEAL
CHALICE 190H ALU 1X42W TC-TEL HFI E3 L84	1.15	96548672	CH142DEAL
CHALICE 190H ALU 2X14W PL-R HFI E3 L840	1.25	96548665	CH214DEAL
CHALICE 190H ALU 2X17W PL-R HFI E3 L840	1.25	96548666	CH217DEAL
CHALICE 190H ALU 2X18W TC-DEL HFI E3 L84	1.15	96548668	CH218DEAL
CHALICE 190H ALU 2X26W TC-DEL HFI E3 L84	1.15	96548670	CH226DEAL
CHALICE 190H ALU 2X32W TC-TEL HFI E3 L84	1.25	96548673	CH232DEAL

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Chalice





190 Attachments

www.thornlighting.co.uk/CH9A

A range of decorative attachments, which clip directly into holes in the bezel, two semi recessing rings and a ceiling support plate for added strength in soft ceilings

Ordering Guide

Attachments	Horizontal	
	TC-DEL/T	Bezels
	CEILING RING SILVER	96010587 CH190SB
Functional		
	TRI VANE LOUVRE	96010600 CHALV
	GLASS IP44 CL	96002081 ¹ CHAGIP
Decorative		
	RING DOUBLE WHI	96013137 CHARDW
	GLASS 20x4 FR RING	96002079 CHAGFR
	PC DISC OP	96009596 ² CHAOPC
	GLASS FR SPOT	96002080 CHAGFS
	PC DISC CL	96009595 ² CHACPC
	GLASS FR	96004414 CHAFG
	CONE AL	96004426 CHAC

Attachments	Horizontal	
	TC-DEL/T	Decorative
	SCORPION FR	96002087 CHAGS
	ZEPPELIN FR	96002088 CHAGZ
	STAR	96013134 CHAST
Family		
	GLORIE WHI	96004302 CHAH
	GLASS IP44 GLORIE	96004304 ¹ CHAGIPH
	GLORIE DOUBLE WHI	96013136 ¹ CHAGDW
Mounting		
	C-PLATE T1	96007800 CH190CP

1 - Do not use with TC-TEL lamps or 13W TC-DEL lamp types.
2 - IP44 not possible with TC-TEL lamp versions. Do not shorten plastic stays/legs.
Attachments also suitable for Chalice LED ECO range.

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Base LED



www.thornlighting.co.uk/BASE

An IP44 rated LED downlight combining energy efficiency and longevity with true colour quality



- Glarefree LED downlight with two output options (12W/650lm & 18W/1000lm); a choice of colour temperature (2700 or 3500K) and mounting (recessed or surface), powered by Cree's "True White"™ technology for outstanding, stable colour rendition (Ra >92)
- Thanks to high luminaire efficacy (54 lm/W), savings of up to 50% and 75% can be achieved compared with 1X18/26W CFL or 50/75W halogen mains downlights respectively
- Fit & forget solution - designed to last 50,000 hours by maintaining 70% of the nominal flux
- Dimming range 20-100% for the 12W version using defined reverse-phase dimming devices (see installation leaflet) or DALI / push-dim / corridor functionality for the 18W version; with the 12W version suitable for use with additional 3 hour emergency kit.

Materials/Finish

Body: die-cast aluminium

Bezel: die-cast aluminium with matt white finish with choice of matt white, matt copper or satin silver decorative inner ring

Installation/Mounting

Recessed version fixed with two spring clips. Suitable for ceiling thickness between 10-25mm. 3 x 2.5mm² terminal block. Ø165mm cut-out. Surface version fixes via 3 fixing points distributed evenly at 120°. Decorative inner ring accessories snap into place. Dimming range 20-100% using defined reverse-phase dimming devices.

Specification

To specify state:

Vertical recessed/surface downlight for 12W/18W (2700K/3500K) LEDs with constant colour temperature over the product life cycle. Ø165mm cut-out. As Thorn Base LED.



With matt copper bezel



With matt white bezel



Without bezel



With matt copper bezel



With satin silver bezel

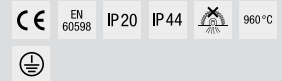


Emergency lighting kit

Lamps

LED 3-18W

Standards

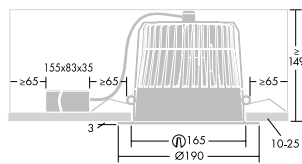


Ordering Guide

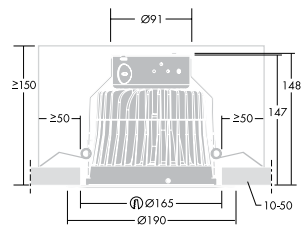
Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Base LED Recessed luminaire			
BASELED 165 MRE 1X12W LED L927	1.40	96107294	BAR650Z927
BASELED 165 MRE 1X12W LED L935	1.40	96107303	BAR650Z935
BASELED1K 165 MRE 18W LED L927 HFIX	1.40	96107983	BAR1000X927
BASELED1K 165 MRE 18W LED L935 HFIX	1.40	96107984	BAR1000X935
Emergency kit for BaseLED 165 MRE 12W & 18W Recessed versions			
BASELED 22 MRE 1X3W LED E3NMR	1.30	96107359	BA22E
Base LED Surface mounted luminaire			
BASELED 165 MCE 1X12W LED L927	2.10	96107308	BAS650Z927
BASELED 165 MCE 1X12W LED L935	2.10	96107310	BAS650Z935
BASELED1K 165 MCE 18W LED L927 HFIX	2.20	96107987	BAS1000X927
BASELED1K 165 MCE 18W LED L935 HFIX	2.20	96107988	BAS1000X935
Base LED Accessories			
BASELED 165 WHI BEZEL RING	0.10	96107393	BA650WBZ
BASELED 165 WHI BEZELRING RSB	0.10	96107394	BA650SBZ
BASELED1K 165 WHI BEZELRING RMB	0.10	96107995	BA1000MBZ
BASELED1K 165 WHI BEZELRING RSB	0.10	96107994	BA1000SBZ
BASELED1K 165 WHI BEZELRING WHI	0.10	96107993	BA1000WBZ

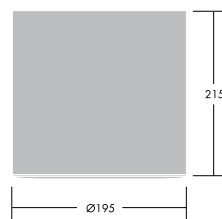
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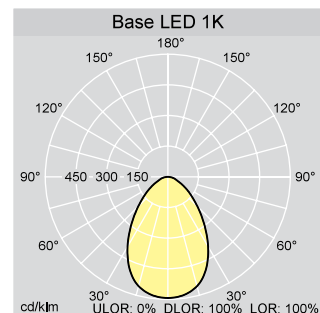
Base LED 18W



Base LED 12W



Base LED MCE



NEW

Base LED Junior



www.thornlighting.co.uk/BASJ

Smaller sized addition to the Base LED series of recessed low glare LED downlights offering high efficiency, longevity and superior colour quality



Base LED Junior H

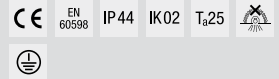


Base LED Junior L

Lamps

LED 11.5W

Standards



- Choice of two optics: L for high performance (650 lm) and H for added comfort (600 lm). Both utilise Cree's "True White"™ technology to deliver high quality light (3000K) with outstanding, stable, colour rendition (Ra 90)
- Ideal 50W MR16 replacement with minimum efficacy of 52 lm/W
- Trailing edge dimming possible
- Designed to last 50,000 hours by maintaining 70% of the nominal flux

Materials/Finish

Housing: aluminium
 Reflector: one piece high purity aluminium
 Diffuser: polycarbonate

Installation/Mounting

Suitable for recessed ceiling mounting, installation via rubber protected retaining springs in ceilings with 0.7-20 mm thickness.
 Cut out dimensions L: suitable from a range of 80-95 mm
 Cut out dimensions H: suitable for a range of 90-100 mm
 Electrical connection via 3 x 1.5 mm² tool less terminal block. Through wiring possible, max cable diameter 2 x 3 x 0.75 mm².

Specification

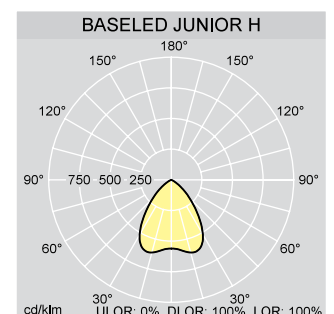
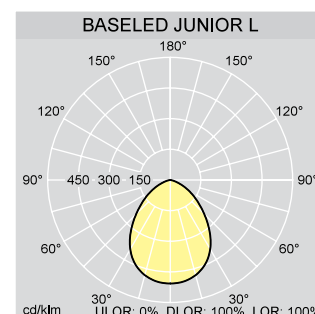
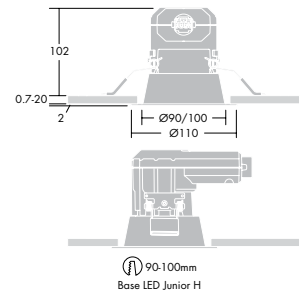
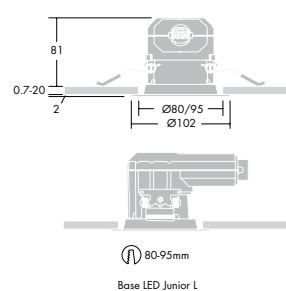
To specify state:
 Recessed LED downlight, colour temperature 3000K, trailing edge dimmable. Supplied with active colour temperature management.
 As Thorn Base LED Junior

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Base LED Junior			
BASELED JUNIOR 100 H 11,5W LED L930 230V	0.40	96108358	BAJH600Z930
BASELED JUNIOR 100 L 11,5W LED L930 230V	0.40	96108356	BAJL650Z930

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D-CO LED Downlight



www.thornlighting.co.uk/DCOD

A range of stylish, high performance and long lasting LED downlights



- High quality and stylish body and LED energy efficiency advantages allows use of the product in different applications, from simple halogen replacement to accent lighting
- "Fit and forget" installation (50,000 hrs at 70% of luminous flux remaining) with plug and socket for quick and tool free connection
- KIT versions available - pre-wired fittings with driver, ready to install straight from the box
- All LED advantages given thanks to high quality OSRAM LEDs: choice of colour temperatures (3000/4000K), cool beam, no IR/UV radiation

Materials/Finish

Housing: aluminium, painted titan-grey or white
Cables: halogen free

Installation/Mounting

Fixed to ceiling with an easily handled feather spring (one hand grip)
Electrical connection by plug and socket for easy and quick installation

Specification

To specify state:
Round recessed downlight with 1/3/6x1.2W LED light source.
Swivel or pivoting options. 24/35° beam options.
As Thorn D-CO LED Downlight



1.2W Mini Downlight



3 x 1.2W Downlight



3 x 3W Downlight



6 x 1.2W Downlight



6 x 1.2W Gyro



3 x 1.2W Downlight Kit

Lamps

LED 1.2-3W

Standards



Ordering Guide

Supplied complete with LED light source

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Downlight 1.2W mini			
D-CO LED MINI DL 1X1,2W 3K 20° 350MA GRY	0.09	96107427	DCM50ASPG3K
D-CO LED MINI DL 1X1,2W 3K 20° 350MA WHI	0.09	96108386	DCM50ASPW3K
D-CO LED MINI DL 1X1,2W 4K 20° 350MA GRY	0.09	96107428	DCM50ASPG4K
D-CO LED MINI DL 1X1,2W 4K 20° 350MA WHI	0.09	96108387	DCM50ASPW4K
D-CO LED MINI DL 5/1X1,2W 3K20° 230V KIT	0.28	96107429	DCM260VSP3KKIT
D-CO LED MINI DL 5/1X1,2W 4K20° 230V KIT	0.28	96107430	DCM260VSP4KKIT
D-CO LED Downlight 3 x 1.2 W			
D-CO LED DL 3X1,2W 3K 24° 350MA GRY	0.14	96107432	DCD180AFLG3K
D-CO LED DL 3X1,2W 3K 24° 350MA WHI	0.15	96108390	DCD180AFLW3K
D-CO LED DL 3X1,2W 3K 35° 350MA GRY	0.14	96107433	DCD180AMG3K
D-CO LED DL 3X1,2W 3K 35° 350MA WHI	0.11	96108392	DCD180AMW3K
D-CO LED DL 3X1,2W 4K 24° 350MA GRY	0.14	96107435	DCD180AFLG4K
D-CO LED DL 3X1,2W 4K 24° 350MA WHI	0.14	96108391	DCD180AFLW4K
D-CO LED DL 3X1,2W 4K 35° 350MA GRY	0.14	96107436	DCD180AMG4K
D-CO LED DL 3X1,2W 4K 35° 350MA WHI	0.16	96108393	DCD180AMW4K
D-CO LED DL 3/3X1,2W 3K 24° 230V KIT GRY	0.54	96107438	DCD540VFLG3KKIT
D-CO LED DL 3/3X1,2W 3K 24° 230V KIT WHI	0.83	96108394	DCD540VFLW3KKIT
D-CO LED DL 3/3X1,2W 3K 35° 230V KIT GRY	0.54	96107439	DCD540VMG3KKIT
D-CO LED DL 3/3X1,2W 3K 35° 230V KIT WHI	0.83	96108396	DCD540VMW3KKIT
D-CO LED DL 3/3X1,2W 4K 24° 230V KIT GRY	0.54	96107441	DCD540VFLG4KKIT
D-CO LED DL 3/3X1,2W 4K 24° 230V KIT WHI	0.54	96108395	DCD540VFLW4KKIT
D-CO LED DL 3/3X1,2W 4K 35° 230V KIT GRY	0.54	96107442	DCD540VMG4KKIT
D-CO LED DL 3/3X1,2W 4K 35° 230V KIT WHI	0.54	96108397	DCD540VMW4KKIT
D-CO LED Downlight 3 x 3W			
D-CO LED DL 3X3W 3K 60° 230V GRY	0.30	96107861	DCD210VWDG3K
D-CO LED DL 3X3W 3K 60° 230V WHI	0.30	96107863	DCD210VWDW3K
D-CO LED DL 3X3W 4K 60° 230V GRY	0.30	96107862	DCD210VWDG4K
D-CO LED DL 3X3W 4K 60° 230V WHI	0.30	96107864	DCD210VWDW4K
D-CO LED Downlight 3 x 3W without driver			
D-CO LED DL 3X3W 3K 60° 700MA GRY	0.18	96107975	DCD210AWDG3K
D-CO LED DL 3X3W 3K 60° 700MA WHI	0.18	96107976	DCD210AWDW3K
D-CO LED DL 3X3W 4K 60° 700MA GRY	0.18	96108385	DCD210AWDG4K
D-CO LED DL 3X3W 4K 60° 700MA WHI	0.18	96108418	DCD210AWDW4K

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Downlight 6 x 1.2W			
D-CO LED DL 6X1,2W 3K 24° 230V GRY	0.28	96107444	DCD310VFLG3K
D-CO LED DL 6X1,2W 3K 24° 230V WHI	0.28	96107847	DCD310VFLW3K
D-CO LED DL 6X1,2W 3K 35° 230V GRY	0.28	96107445	DCD310VMG3K
D-CO LED DL 6X1,2W 3K 35° 230V WHI	0.28	96107848	DCD310VMW3K
D-CO LED DL 6X1,2W 4K 24° 230V GRY	0.28	96107447	DCD310VFLG4K
D-CO LED DL 6X1,2W 4K 24° 230V WHI	0.28	96107850	DCD310VFLW4K
D-CO LED DL 6X1,2W 4K 35° 230V GRY	0.28	96107448	DCD310VMG4K
D-CO LED DL 6X1,2W 4K 35° 230V WHI	0.28	96107851	DCD310VMW4K
D-CO LED Downlight 6 x 1.2W without driver			
D-CO LED DL 6X1,2W 3K 24° 350MA GRY	0.22	96108365	DCD310AFLG3K
D-CO LED DL 6X1,2W 3K 24° 350MA WHI	0.22	96107970	DCD310AFLW3K
D-CO LED DL 6X1,2W 3K 35° 350MA GRY	0.22	96108367	DCD310AMG3K
D-CO LED DL 6X1,2W 3K 35° 350MA WHI	0.22	96107971	DCD310AMW3K
D-CO LED DL 6X1,2W 4K 24° 350MA GRY	0.22	96108366	DCD310AFLG4K
D-CO LED DL 6X1,2W 4K 24° 350MA WHI	0.22	96108402	DCD310AFLW4K
D-CO LED DL 6X1,2W 4K 35° 350MA GRY	0.22	96108368	DCD310AMG4K
D-CO LED DL 6X1,2W 4K 35° 350MA WHI	0.22	96108403	DCD310AMW4K
D-CO LED Downlight 6 x 1.2W gyro			
D-CO LED DL 6X1,2W GYRO 3K 24° 350MA GRY	0.27	96108381	DCG310AFLG3K
D-CO LED DL 6X1,2W GYRO 3K 24° 350MA WHI	0.27	96107973	DCG310AFLW3K
D-CO LED DL 6X1,2W GYRO 3K 35° 350MA GRY	0.27	96108383	DCG310AMG3K
D-CO LED DL 6X1,2W GYRO 3K 35° 350MA WHI	0.27	96107974	DCG310AMW3K
D-CO LED DL 6X1,2W GYRO 4K 24° 350MA GRY	0.27	96108382	DCG310AFLG4K
D-CO LED DL 6X1,2W GYRO 4K 24° 350MA WHI	0.27	96108416	DCG310AFLW4K
D-CO LED DL 6X1,2W GYRO 4K 35° 350MA GRY	0.27	96108384	DCG310AMG4K
D-CO LED DL 6X1,2W GYRO 4K 35° 350MA WHI	0.27	96108417	DCG310AMW4K
D-CO LED DL 6X1,2W GYRO 3K 24° 230V GRY	0.33	96107450	DCG310VFLG3K
D-CO LED DL 6X1,2W GYRO 3K 24° 230V WHI	0.33	96107453	DCG310VFLW3K
D-CO LED DL 6X1,2W GYRO 3K 35° 230V GRY	0.33	96107451	DCG310VMG3K
D-CO LED DL 6X1,2W GYRO 3K 35° 230V WHI	0.33	96107854	DCG310VMW3K
D-CO LED DL 6X1,2W GYRO 4K 24° 230V GRY	0.33	96107453	DCG310VFLG4K
D-CO LED DL 6X1,2W GYRO 4K 24° 230V WHI	0.33	96107856	DCG310VFLW4K
D-CO LED DL 6X1,2W GYRO 4K 35° 230V GRY	0.33	96107454	DCG310VMG4K
D-CO LED DL 6X1,2W GYRO 4K 35° 230V WHI	0.33	96107857	DCG310VMW4K

D-CO LED Downlight



www.thornlighting.co.uk/DCOD

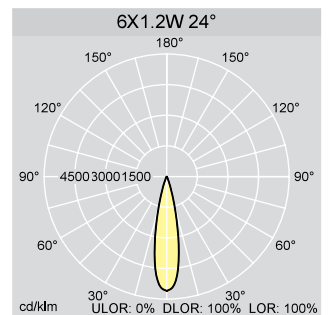
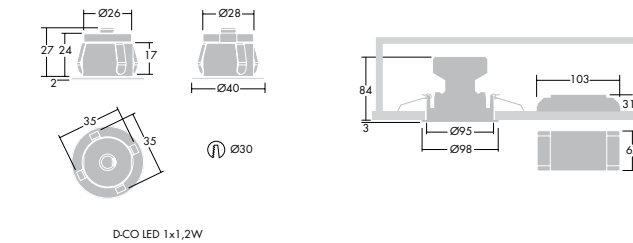
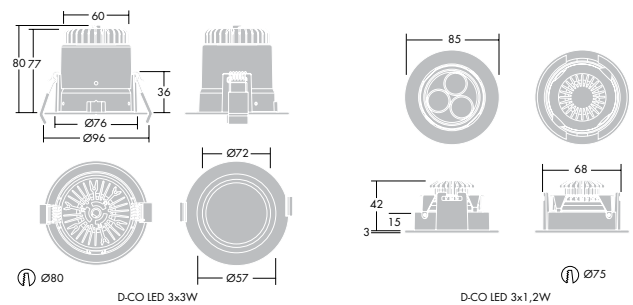
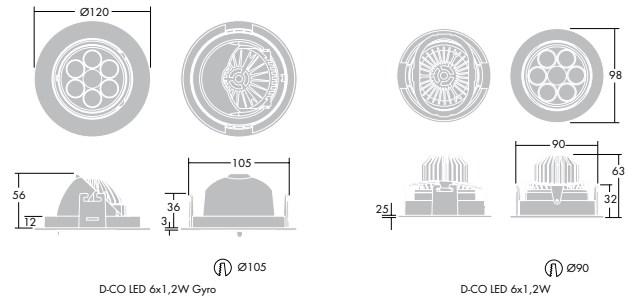
A range of stylish, high performance and long lasting LED downlights

Ordering Guide

Supplied complete with LED light source

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Downlight 6 x 3W			
D-CO LED DL 6X3W 3K 35° 230V HP GRY	0.58	96108377	DCD730VMG3K
D-CO LED DL 6X3W 3K 35° 230V HP WHI	0.60	96108412	DCD730VMW3K
D-CO LED DL 6X3W 3K 35° 700MA HP GRY	0.35	96108373	DCD730AMG3K
D-CO LED DL 6X3W 3K 35° 700MA HP WHI	0.35	96108408	DCD730AMW3K
D-CO LED DL 6X3W 4K 35° 230V HP GRY	0.60	96108378	DCD730VMG4K
D-CO LED DL 6X3W 4K 35° 230V HP WHI	0.60	96108413	DCD730VMW4K
D-CO LED DL 6X3W 4K 35° 700MA HP GRY	0.35	96108374	DCD730AMG4K
D-CO LED DL 6X3W 4K 35° 700MA HP WHI	0.35	96108409	DCD730AMW4K
D-CO LED Downlight Drivers 350mA			
LED CONV 12W 350MA 100-240V 6PLUG	0.14	96107647	DCDR12
LED CONV 15/25W UNI 110-240V DIM	0.11	96107649	DCDR15DIM
LED CONV 50W UNI 110-240V DIM THO	0.15	96108126	DCDR50DIM
LED CONV 50W UNI DALI	0.15	96108026	DCDR50DALI
LED CONV 6W 350MA 230V 1-10	0.05	96107648	DCDR6DIM
LED CONV 8W 350MA 100-240V 3PLUG	0.08	96107646	DCDR8
D-CO LED Downlight Drivers 700mA			
LED CONV 12W 700MA 100-240V 6PLUG	0.15	96108002	DCDR127
LED CONV 15/25W UNI 110-240V DIM	0.11	96107649	DCDR15DIM
LED CONV 18W 700MA 100-240V 6PLUG	0.22	96108003	DCDR187
LED CONV 3W 700MA 100-240V 3PLUG	0.26	96108001	DCDR37
LED CONV 50W UNI 110-240V DIM THO	0.15	96108126	DCDR50DIM
LED CONV 50W UNI DALI	0.15	96108026	DCDR50DALI
Accessories			
D-CO LED 6X1,2W/6X3W IP44 PC COVER	0.03	96108578	DCPCCOV1P44
LED EXTENSION 1M SOCKET/CLIP 350MA	0.02	96108024	DCEXT1M
LED EXTENSION 1M SOCKET/CLIP 700MA	0.02	96108025	DCEXT1M7
LED MULTIPLUG BRIDGE 350MA 25-PCS	0.002	96108128	DCMPB3
LED MULTIPLUG BRIDGE 700MA 25-PCS	0.001	96108129	DCMPB7
LTG SYNCHRON 2M LED CONV TCI THO	0.11	96108041	LTGS2
MULTIPLUG 3WAY SERIES 350MA LED	0.02	96107650	DCSKT3
MULTIPLUG 3WAY SERIES 700MA LED	0.02	96107980	DCSKT37
MULTIPLUG 6WAY SERIES 350MA LED	0.03	96107651	DCSKT6
MULTIPLUG 6WAY SERIES 700MA LED	0.03	96108000	DCSKT67
PLUG/SOCKET EXTENSION 2M 350MA LED	0.03	96107977	DCEXT2M
PLUG/SOCKET EXTENSION 2M 700MA LED	0.03	96107978	DCEXT2M7

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D-CO LED

Driver and Accessory range overview

Drivers

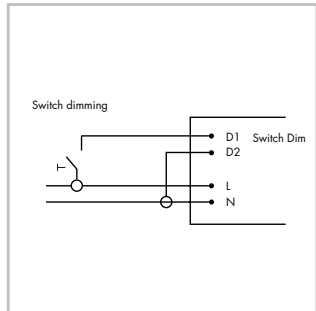
SAP code	Cat. No.	SAP description	Description	D-CO LED Mini SP/ Mini Flex (2.4W)	D-CO LED DL 1 x 1.2W (1.2W)	D-CO LED DL 3 x 1.2W (3.6W)	D-CO LED DL / Gyro 6 x 1.2W (7.2W)	D-CO LED DL 6 x 2.4W (14.4W)	D-CO LED DL 3 x 3W (9W)	D-CO LED WALL (1.6W)
96108127	DCDR1024V	LED CONV 10W 230V DC24V THO	10W Switchable	-	-	-	-	-	-	6
96107645	DCDRW25	LED CONV 25W DC24V	25W switchable	-	-	-	-	-	-	15
86455937	DCDRW25DIM	LED 0025 K210 24V One4all	25W DALI dimmable	-	-	-	-	-	-	15
96107646	DCDR8	LED CONV 8W 350mA 100-240V 3PLUG	8W switchable incl 3 way connector	-	6	2	1	-	-	-
96107647	DCDR12	LED CONV 12W 350mA 100-240V 6PLUG	12W switchable incl 6 way connector	-	10	3	-	-	-	-
96107648	DCDR6DIM	LED CONV 6W 350mA 230V 1-10	6W analogue dimmable	-	5	1	-	-	-	-
96108001	DCDR37	LED CONV 3W 700mA 100-240V 3PLUG	3W switchable incl 3 way connector	1	-	-	-	-	-	-
96108002	DCDR127	LED CONV 12W 700mA 100-240V 6PLUG	12W switchable incl 6 way connector	4	-	-	-	-	-	-
96108003	DCDR187	LED CONV 18W 700mA 100-240V 6PLUG	18W switchable incl 6 way connector	6	-	-	-	-	-	-
96107649	DCDR15DIM	LED CONV 15/25W UNI 110-240V DIM	15/25W* dimmable	8	12	4	2	1	2	-
96108126	DCDR50DIM	LED CONV 50W UNI 110-240V DIM THO	25/50W** dimmable	16	20	6	3	3	5	-
96108026	DCDR50DALI	LED CONV 50W UNI DALI	25/50W** DALI dimmable	16	20	6	3	3	5	-

* 15W at 350 mA, 25W at 700 mA, ** 25W at 350 mA, 50W at 700 mA

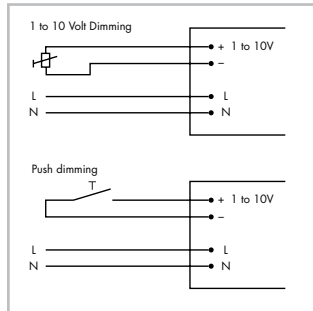
Accessories

SAP code	Cat. No.	SAP description	Description	D-CO LED Mini SP/ Mini Flex (2.4W)	D-CO LED DL 1 x 1.2W (1.2W)	D-CO LED DL 3 x 1.2W (3.6W)	D-CO LED DL / Gyro 6 x 1.2W (7.2W)	D-CO LED DL 6 x 2.4W (14.4W)	D-CO LED DL 3 x 3W (9W)	D-CO LED WALL (1.6W)
96107650	DCSKT3	MULTIPLUG 3WAY SERIES 350mA LED	3 Way connector	-	3	3	3	-	-	-
96107651	DCSKT6	MULTIPLUG 6WAY SERIES 350mA LED	6 Way connector	-	6	6	6	-	-	-
96107980	DCSKT37	MULTIPLUG 3WAY SERIES 700mA LED	3 Way connector	3	-	-	-	3	3	-
96108000	DCSKT67	MULTIPLUG 6WAY SERIES 700mA LED	6 Way connector	6	-	-	-	3	5	-
96107977	DCEXT2M	PLUG/SOCKET EXTENSION 2m 350mA LED	Extension wire	-	1	1	1	-	-	-
96107978	DCEXT2M7	PLUG/SOCKET EXTENSION 2m 700mA LED	Extension wire	1	-	-	-	1	1	-
96108024	DCEXT1M	LED EXTENSION 1m SOCKET/CLIP 350mA	Extension wire	-	1	1	1	-	-	-
96108025	DCEXT1M7	LED EXTENSION 1m SOCKET/CLIP 700mA	Extension wire	1	-	-	-	1	1	-
96108041	ITGS2	ITG SYNCHRON 2M LED CONV TCI THO	Additional control line allows consistent dimming	1	1	1	1	1	1	-
96108128	DCMPB3	LED MULTIPLUG BRIDGE 350mA 25-PCS	Bag of spare mini-plugs	-	1	1	1	-	-	-
96108129	DCMPB7	LED MULTIPLUG BRIDGE 700mA 25-PCS	Bag of spare mini-plugs	1	-	-	-	1	1	-

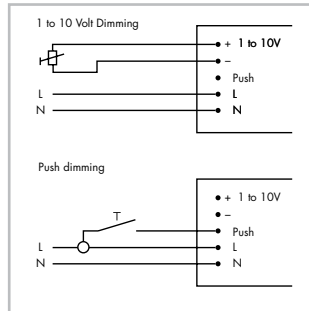
Input



86455937 - DCDRW25DIM
LED 0025 K210 24V One4all
25W driver for wall asymmetric,
dimnable

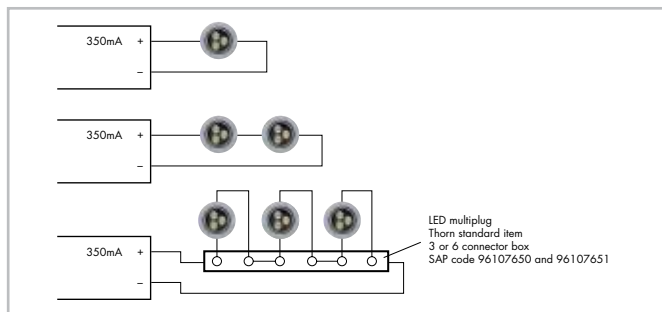


96107648 - DCDR6DIM
LED CONVERTER 6W 350mA 230V
DIM driver for all downlights and
spots, dimmable

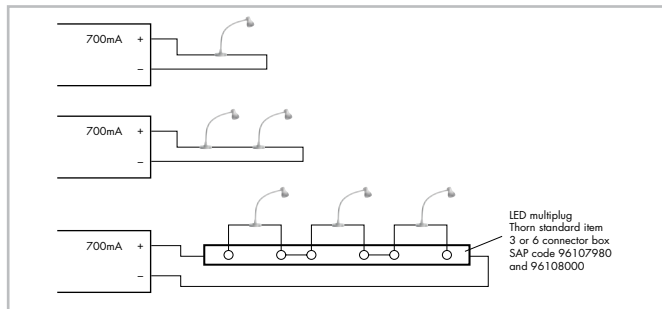
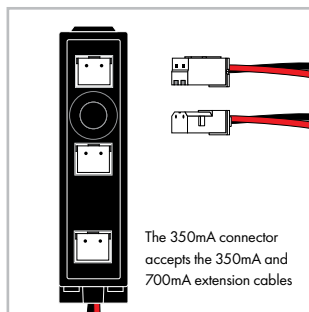


96107649 - DCDR15DIM
LED CONV 15/25W UNI 110-240V
DIM driver for all downlights and spots,
dimmable

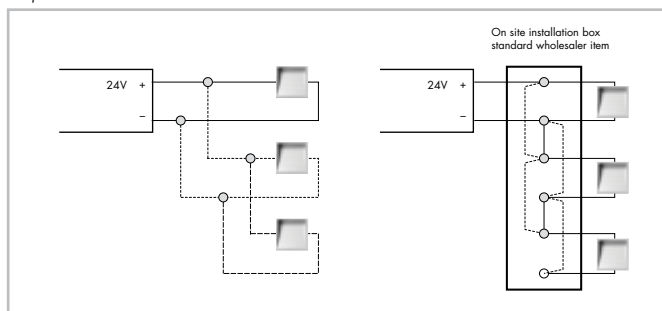
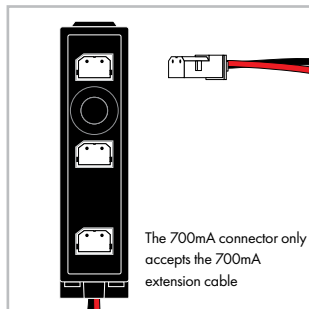
Output



Output for 350mA (all downlights and spots)



Output for 700mA



Output for 24V (Asymmetric Wall Recessed)

Lightstream 2



www.thornlighting.co.uk/LTSM

Multi purpose, high efficiency, fire rated downlight range, delivers quick payback and peace of mind



IP20 LED, fire hood, white bezel



- Competitive multi purpose downlight with a one year payback (vs 50W halogen), ideal for lighting homes and public buildings
- 5W and 8.5W dimmable LED lamp options, available in three different finishes and an IP65 version for bathrooms
- Designed for safety and peace of mind with fire rated fittings and compliance with the UK building regulations part B, C, E, L and P

Materials/Finish

Housing: rolled sheet steel, perforated on top
Gasket: silicon
Retaining springs: stainless steel
Intumescent material: carbon polymer compound
Bezels: white, satin nickel or chrome available

Installation/Mounting

Suitable for recessed ceiling mounting, ceiling thickness must not exceed 35mm. Adequate free air circulation of at least 50mm around the luminaire has to be ensured.

Cut-out diameters:

Fire hood IP65 - 72mm
Fire hood IP20 - 75mm
IP20 adjustable - 80mm
IP20 deep recessed - 75mm

Specification

To specify state:
Recessed downlight with/without fire hood protection, 5W/8.5W LED with dimming options. Colour temperatures available are 2700/3000/4200K.
Choice of three bezels in white, satin nickel or chrome.
As Thorn Lightstream 2.

Ordering Guide

Supplied complete with lamp

Description	Wt (kg)	SAP Code	Cat. No.
Lightstream 2 LED 8.5W dimmable, with fire hood, IP20			
LS2 FH 8,5W LED PAR16 IP20 CHR 830	0.42	96547953	LSF400CH30
LS2 FH 8,5W LED PAR16 IP20 CHR 842	0.42	96547954	LSF400CH42
LS2 FH 8,5W LED PAR16 IP20 SN 830	0.42	96547951	LSF400SN30
LS2 FH 8,5W LED PAR16 IP20 SN 842	0.42	96547952	LSF400SN42
LS2 FH 8,5W LED PAR16 IP20 WHI 830	0.42	96547949	LSF400W30
LS2 FH 8,5W LED PAR16 IP20 WHI 842	0.42	96547950	LSF400W42
Lightstream 2 LED 8.5W dimmable, with fire hood, IP65			
LS2 FH 8,5W LED PAR16 IP65 CHR 830	0.47	96547959	LS65F400CH30
LS2 FH 8,5W LED PAR16 IP65 CHR 842	0.47	96547960	LS65F400CH42
LS2 FH 8,5W LED PAR16 IP65 SN 830	0.47	96547957	LS65F400SN30
LS2 FH 8,5W LED PAR16 IP65 SN 842	0.47	96547958	LS65F400SN42
LS2 FH 8,5W LED PAR16 IP65 WHI 830	0.47	96547955	LS65F400W30
LS2 FH 8,5W LED PAR16 IP65 WHI 842	0.47	96547956	LS65F400W42
Lightstream 2 LED 8.5W dimmable, adjustable 0-30°, IP20			
LS2 8,5W LED PAR16 IP20 CHR 830 0-30°	0.30	96547969	LSA400CH30
LS2 8,5W LED PAR16 IP20 CHR 842 0-30°	0.30	96547970	LSA400CH42
LS2 8,5W LED PAR16 IP20 SN 830 0-30°	0.30	96547967	LSA400SN30
LS2 8,5W LED PAR16 IP20 SN 842 0-30°	0.30	96547968	LSA400SN42
LS2 8,5W LED PAR16 IP20 WHI 830 0-30°	0.30	96547965	LSA400W30
LS2 8,5W LED PAR16 IP20 WHI 842 0-30°	0.30	96547966	LSA400W42
Lightstream 2 LED 8.5W dimmable, deep recessed, adjustable 0-20°, IP20			
LS2 8,5W LED PAR16 IP20 DR CHR 830 0-20°	0.30	96547975	LSD400CH30
LS2 8,5W LED PAR16 IP20 DR CHR 842 0-20°	0.30	96547976	LSD400CH42
LS2 8,5W LED PAR16 IP20 DR SN 830 0-20°	0.30	96547973	LSD400SN30
LS2 8,5W LED PAR16 IP20 DR SN 842 0-20°	0.30	96547974	LSD400SN42
LS2 8,5W LED PAR16 IP20 DR WHI 830 0-20°	0.30	96547971	LSD400W30
LS2 8,5W LED PAR16 IP20 DR WHI 842 0-20°	0.30	96547972	LSD400W42
Lightstream 2 LED 5W dimmable, with fire hood, IP20			
LS2 FH 5W DIM LED MR16 IP20 CHR 827	0.38	96547981	LSF230CH27
LS2 FH 5W DIM LED MR16 IP20 SN 827	0.38	96547979	LSF230SN27
LS2 FH 5W DIM LED MR16 IP20 WHI 827	0.38	96547977	LSF230W27



IP20 LED, fire hood, satin nickel bezel



IP65 LED, fire hood, chrome bezel



IP65 LED, CL2, fire hood, white bezel



IP20 LED, deep recessed, white bezel



IP20 CFL, satin nickel bezel, adjustable

Lamps

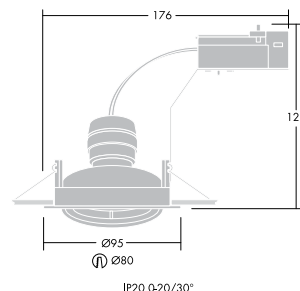
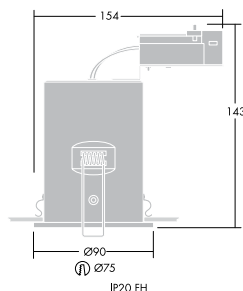
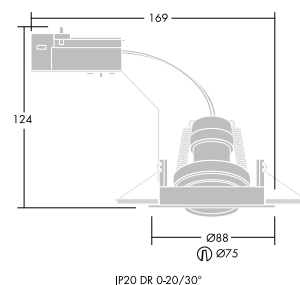
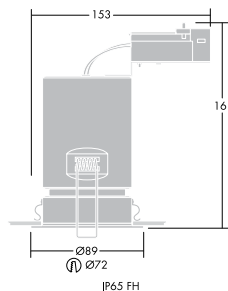
LED (PAR16) GU10 5-8.5W

Standards

CE	EN 60598	IP20	IP65	IK02	T _a 5 +25
	850 °C				

Description	Wt (kg)	SAP Code	Cat. No.
Lightstream 2 LED 5W dimmable, with fire hood, IP65			
LS2 FH 5W DIM LED MR16 IP65 CHR 827	0.43	96547987	LS65F230CH27
LS2 FH 5W DIM LED MR16 IP65 SN 827	0.43	96547985	LS65F230SN27
LS2 FH 5W DIM LED MR16 IP65 WHI 827	0.43	96547983	LS65F230W27
Lightstream 2 LED 5W dimmable, adjustable 0-30°, IP20			
LS2 5W DIM LED MR16 IP20 CHR 827 0-30	0.26	96240112	LSA230CH27
LS2 5W DIM LED MR16 IP20 SN 827 0-30	0.26	96240110	LSA230SN27
LS2 5W DIM LED MR16 IP20 WHI 827 0-30	0.26	96240108	LSA230W27
Lightstream 2 LED 5W dimmable, deep recessed, adjustable 0-20°, IP20			
LS2 5W DIM LED MR16 IP20 DR CHR 827 0-20	0.26	96240118	LSD230CH27
LS2 5W DIM LED MR16 IP20 DR SN 827 0-20	0.26	96240116	LSD230SN27
LS2 5W DIM LED MR16 IP20 DR WHI 827 0-20	0.26	96240114	LSD230W27
Lightstream 2 Accessory			
LS2 FIRE HOOD ADJ/DR 30/60 MIN	1.00	96240080	LS2HOOD

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Cetus



www.thornlighting.co.uk/CTUS

Compact recessed low height
downlight range, especially
designed for 18/26W
fluorescent lamps



Tri-vane louvre

- Simple and quick to install. Reflector remains in place when mounting into the ceiling using the spring clips.
- One size family (ceiling cut-out Ø210mm) with low 100mm height / mounting void depth 120mm, suitable for ceiling thicknesses between 1-25mm
- 3 hour maintained emergency versions with remote gear
- Range of attachments, including tri-vane louvre and IP44 cover

Materials/Finish

Body: polycarbonate, white
Gear housing: polycarbonate, black
Reflector: specular vacuum metallised plastic
Attachments: polycarbonate/glass
Fixing mechanism: steel

Installation/Mounting

Tool-free installation. Integrated strain relief. 3 pole piano key terminal block. Adjustable spring clips for fixation. (1-25mm ceiling thickness).

Specification

To specify state:
Recessed downlight, mains/
emergency, single/twin (horizontal
only), for 18/26W TC-DEL lamps.
Specular reflector with basic choice
of attachments.
As Thorn Cetus



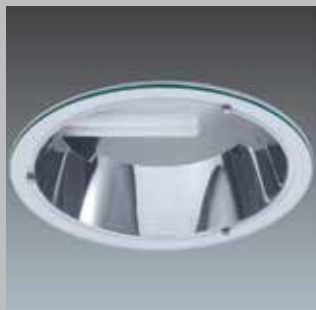
Glass FR



PC IP44 CL (flush)



PC IP44 OP (flush)



Glass CL



PC IP44 CL



PC IP44 OP

Lamps

TC-DEL (FSQ) G24q-3 18-26W

Standards

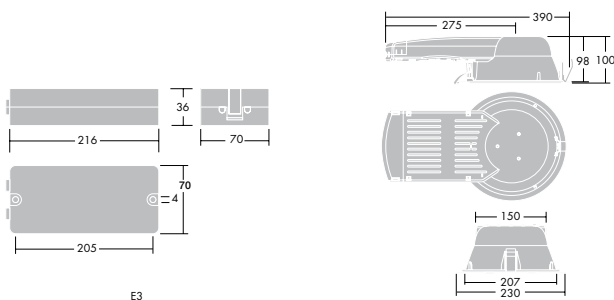


Ordering Guide

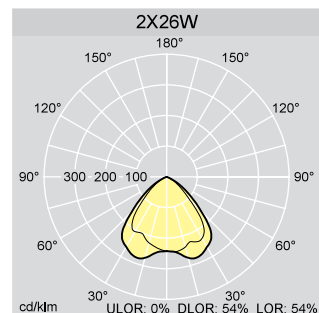
Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Cetus Class I/II electrical, complete with lamps			
CETUS 1X18W TC-DEL HF L840	0.60	96107208	CU118Z
CETUS 1X26W TC-DEL HF L840	0.60	96107209	CU126Z
CETUS 2X18W TC-DEL HF L840	0.60	96107210	CU218Z
CETUS 2X26W TC-DEL HF L840	0.60	96107211	CU226Z
Cetus Emergency (remote gear)			
CETUS 1X18W TC-DEL HF E3 L840	1.30	96107212	CU118ZE
CETUS 1X26W TC-DEL HF E3 L840	1.30	96107213	CU126ZE
CETUS 2X18W TC-DEL HF E3 L840	1.40	96107214	CU218ZE
CETUS 2X26W TC-DEL HF E3 L840	1.50	96107215	CU226ZE
Cetus Attachments			
CETUS DIFFUSER PC IP44 CL	0.15	96107230	CUPCCL
CETUS DIFFUSER PC IP44 FR	0.15	96107231	CUPCFR
CETUS GLASS CL	0.33	96107228	CUGLCL
CETUS GLASS FR	0.33	96107229	CUGLFR
CETUS TRI-VANE LOUVRE	0.07	96107232	CULV

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E3



INDOOR LIGHTING



Direct/Indirect and Surface Luminaires



Earl Mortimer College, UK



NEW **LED** Equaline LED
72



Optus IV Surface
100



Fata Morgana
Pendant
122



Equaline
76



Optus IV
Whiteboard
102



Fata Morgana
Surface
124



NEW **LED** Planor LED
84



NEW **LED** Jupiter 3
104



Fata Morgana
Floor Standing
125



Planor Suspended
86



Punch II T5
108



Garbo Pendant
126



Planor Surface
88



Menlo³ Surface
110



Garbo Ceiling
127



Planor XL
89



NEW **LED** College
112



Soul Surface
128



Arena
Symphony
90



Diffusalux
114



Soul Pendant
129



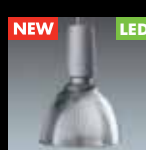
Line XS
92



Prisma
116



Line XS Circular
94



NEW **LED** Glacier II LED
118



Optus IV
Suspended
96



Glacier II
120

NEW

Equaline LED



www.thornlighting.co.uk/EQUL

Linear LED lighting in a simple
and pure design



- Delivers excellent light output (up to 4800lm) with up to 80Lm/W efficacy and very good glare control for office and education applications
- Can be recessed or surface mounted for direct illumination and suspended for direct/indirect illumination
- Available in single, double and triple length profiles with a wide range of connectors and infill modules for creative design possibilities
- Part of a complete family with freestanding and wall mounted versions, allowing flexible, energy efficient design schemes with a coordinated aesthetic

Materials/Finish

Body: extruded anodised aluminium (close to RAL 7046)
End Caps: die-cast aluminium, powder coated grey (close to RAL 7046)
Diffuser: Acrylic

Installation/Mounting

For surface version individual luminaires are supplied with dedicated surface mounting brackets, for suspended and direct/indirect versions individual luminaires are supplied with adjustable wire suspension mounting, with quicklocks included. For System versions brackets or suspension kits are to be ordered separately. Maximum spacing recommended is 2.5m. Individual luminaires supplied with a 2.5m halogen free grey cable 5 x 0.75mm². For system versions mains cable and feed-in blocks are to be ordered separately. Recessed version is suitable for recessed mounting into plasterboard ceiling using dedicated bracket kit 96238914 (to be ordered separately).

Specification

To specify state:

Surface mounted slim aluminium luminaire and acrylic diffuser with 1600lm and 3200lm outputs per individual length, mounted via dedicated surface brackets.

Mounted individually or in continuous lines, with dimmable versions.

As Thorn Equaline LED (Surface).

Wire suspended slim aluminium luminaire and acrylic diffuser with 1600lm and 3200lm outputs per individual length, mounted via dedicated wire suspension brackets.

Mounted individually or in continuous lines, with dimmable versions.

As Thorn Equaline LED (Suspended).

Recessed slim aluminium luminaire and acrylic diffuser with 1600lm and 3200lm outputs per individual length, mounted via dedicated concrete/plasterboard brackets. Mounted individually or in continuous lines, with dimmable versions.

As Thorn Equaline LED (Recessed).

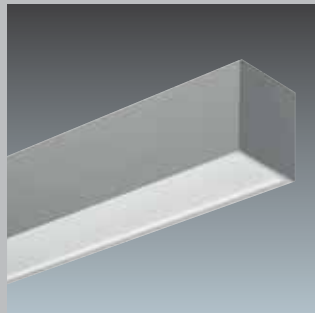
Wire suspended slim aluminium luminaire and acrylic diffuser with 2400lm and 4800lm outputs per individual length, mounted via dedicated wire suspension brackets. Mounted individually or in continuous lines, with dimmable versions.

As Thorn Equaline LED

(Direct/Indirect)



Recessed version



Surface version



Suspended version



Direct/Indirect version



Lamps

LED 24-55W

Standard

CE EN 60598 650°C IP20 T_a 0 +25

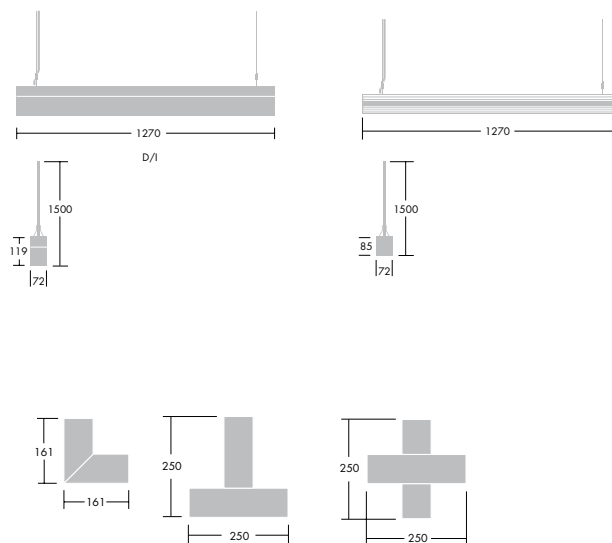
Ordering Guide

Supplied with non-user replaceable LED light source.

Description	Wt (kg)	SAP Code	Cat. No.
Individual versions - Surface			
EQUALINE LED 1600 HFI MPT MCE	5.7	96241523	EQSF1600DMP
EQUALINE LED 3200 HFI MPT MCE	5.7	96241525	EQSF3200DMP
Individual versions - Recessed			
EQUALINE LED 1600 HFI MPT MRE	6.0	96241542	EQR1600DMP
EQUALINE LED 3200 HFI MPT MRE	6.0	96241543	EQR3200DMP
Individual versions - Suspended			
EQUALINE LED 1600 HFI MPT MSWT	6.2	96241544	EQS1600DMP
EQUALINE LED 3200 HFI MPT MSWT	6.2	96241545	EQS3200DMP
Individual versions - Direct/Indirect			
EQUALINE DI LED 2400 HFI MPT	6.7	96241546	EQDI2400DMP
EQUALINE DI LED 4800 HFI MPT	6.7	96241547	EQDI4800DMP
System versions - Surface			
EQUALINE S LED 1600 HFI MPT MCE	5.7	96241548	EQSSF1600DMP
EQUALINE S LED 3200 HFI MPT MCE	5.7	96241549	EQSSF3200DMP
EQUALINE S LED 2/1600 HFI MPT MCE	11.3	96241550	EQSSF2/1600DMP
EQUALINE S LED 2/3200 HFI MPT MCE	11.3	96241551	EQSSF3/3200DMP
EQUALINE S LED 3/1600 HFI MPT MCE	16.9	96241552	EQSSF3/1600DMP
EQUALINE S LED 3/3200 HFI MPT MCE	16.9	96241553	EQSSF3/3200DMP
System versions - Suspended			
EQUALINE S LED 1600 HFI MPT MSWT	6.2	96241560	EQSS1600DMP
EQUALINE S LED 3200 HFI MPT MSWT	6.2	96241561	EQSS3200DMP
EQUALINE S LED 2/1600 HFI MPT MSWT	12.3	96241562	EQSS2/1600DMP
EQUALINE S LED 2/3200 HFI MPT MSWT	12.3	96241563	EQSS2/3200DMP
EQUALINE S LED 3/1600 HFI MPT MSWT	18.4	96241564	EQSS3/1600DMP
EQUALINE S LED 3/3200 HFI MPT MSWT	18.4	96241565	EQSS3/3200DMP
System versions - Recessed			
EQUALINE S LED 1600 HFI MPT MRE	6.0	96241554	EQSR1600DMP
EQUALINE S LED 3200 HFI MPT MRE	6.0	96241555	EQSR3200DMP
EQUALINE S LED 2/1600 HFI MPT MRE	11.9	96241556	EQSR2/1600DMP
EQUALINE S LED 2/3200 HFI MPT MRE	11.9	96241557	EQSR2/3200DMP
EQUALINE S LED 3/1600 HFI MPT MRE	17.8	96241558	EQSR3/1600DMP
EQUALINE S LED 3/3200 HFI MPT MRE	17.8	96241559	EQSR3/3200DMP

Description	Wt (kg)	SAP Code	Cat. No.
System versions - Direct/Indirect			
EQUALINE S DI LED 2400 HFI MPT	6.7	96241566	EQSDI2400DMP
EQUALINE S DI LED 4800 HFI MPT	6.7	96241567	EQSDI4800DMP
EQUALINE S DI LED 2/2400 HFI MPT	13.3	96241568	EQSDI2/2400DMP
EQUALINE S DI LED 2/4800 HFI MPT	13.3	96241569	EQSDI2/4800DMP
EQUALINE S DI LED 3/2400 HFI MPT	19.8	96241570	EQSDI3/2400DMP
EQUALINE S DI LED 3/4800 HFI MPT	19.8	96241571	EQSDI3/4800DMP

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NEW

Equaline LED

Linear LED lighting in a simple and pure design



www.thornlighting.co.uk/EQUL

Ordering tree - Equaline LED System configuration (SAP codes shown below each accessory eg. 96238920)

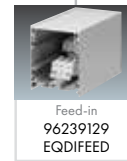
Mains cable



Direct

Direct/Indirect

Mains Feed-in

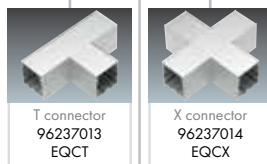
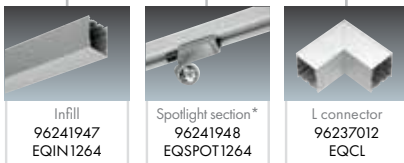


Luminaire

See Product Ordering Guide

See Product Ordering Guide

System connectors

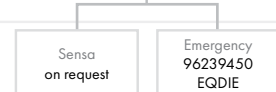
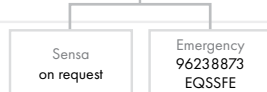


Other connectors available on request

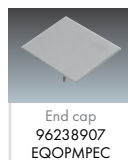
Mounting kits



Modules

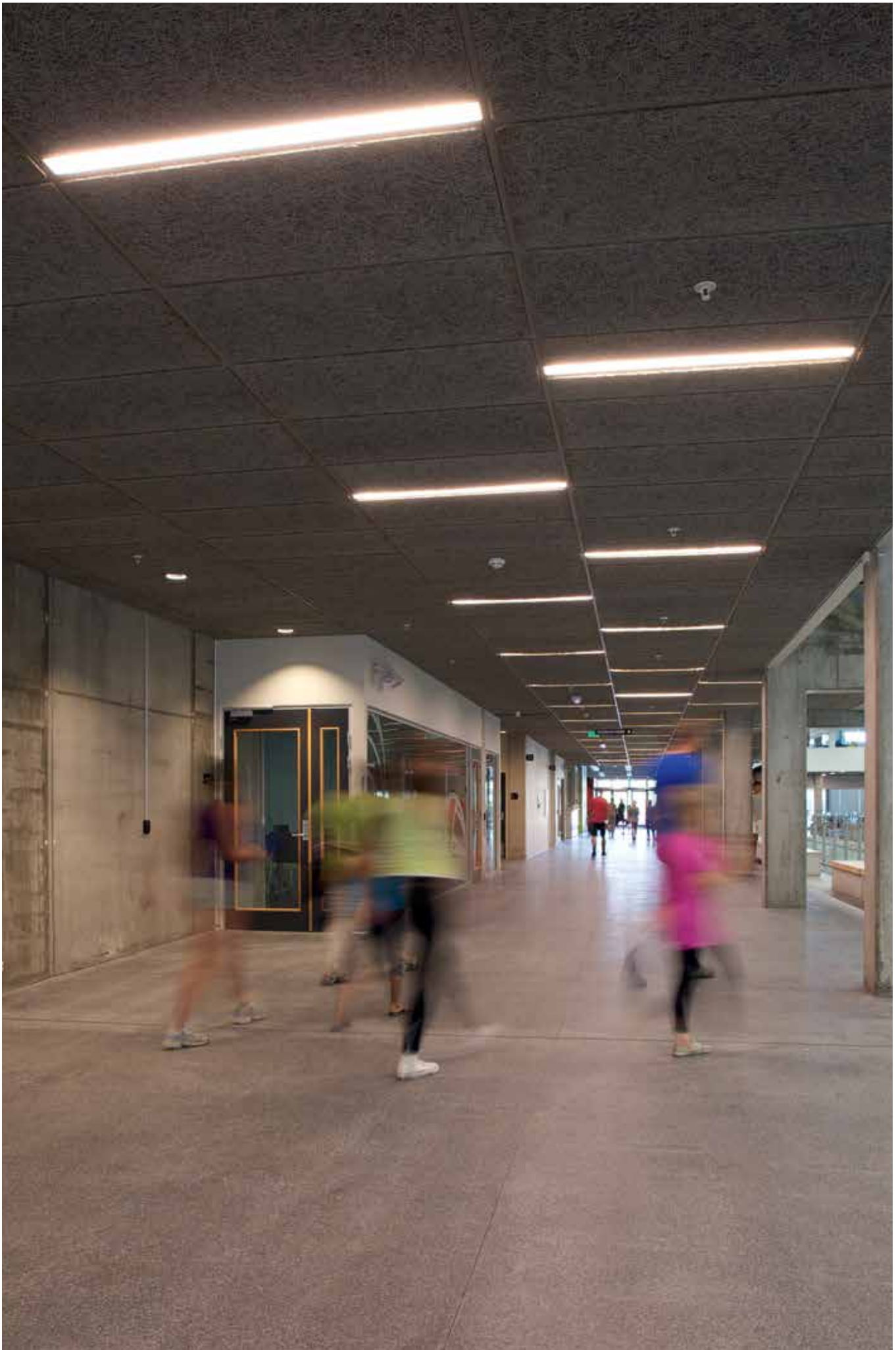


End caps



* Spotlight not included, sold separately.

For further information on ordering your Equaline LED system, please contact your local Thorn representative





- Superior performance demonstrated by LORs up to 83% for Satinbrite versions
- Recessed or surface mounted for direct illumination and suspended for direct/indirect illumination
- Available in single and double length modules with flexibility of optics: opal or microprism diffuser or satinbrite louvre
- System versions offer further design flexibility: double and triple length modules with a wide range of accessories such as connectors, spotlight modules and infill panels

Materials/Finish

Body: extruded anodised aluminium, recessed version finished in powder coated white (close to RAL 9003)
 End Caps: die-cast aluminium, powder coated grey (close to RAL 7046)
 Louvre: aluminium, Satinbrite finish
 MPT: acrylic refractor and controller, polycarbonate clear cover
 Diffuser: opal polycarbonate
 Wiring: Low Smoke Zero Halogen

Installation/Mounting

For surface version individual luminaires are supplied with dedicated surface mounting brackets, for suspended and direct/indirect versions individual luminaires are supplied with adjustable wire suspension mounting, with quick-locks included. For System versions brackets or suspension kits are to be ordered separately. Maximum spacing recommended is 2.5m. Individual luminaires supplied with a 2.5m halogen free grey cable 3 x 0.75mm² and Dimming/Sensa versions 5 x 0.75mm². For system versions mains cable and feed-in blocks are to be ordered separately. Recessed version is suitable for recessed mounting into plasterboard ceiling using dedicated bracket kit 96238914 (to be ordered separately). Versions for recessed mounting into concrete ceilings can also be made to special order, which can be cast into wet concrete during construction.

Specification

To specify state:
 Surface mounted slim aluminium luminaire for use with T16 (T5) 28, 35, 49, 54W lamps, mounted via dedicated surface brackets. With Satinbrite Louvre/Opal diffuser and MicroPrism Technology optics. Mounted individually or in continuous lines, with dimmable and Sensa versions.
 As Thorn EquaLine (Surface).

Wire suspended slim aluminium luminaire for use with T16 (T5) 28, 35, 49, 54W lamps, mounted via dedicated wire suspension brackets. With Satinbrite Louvre/Opal diffuser and MicroPrism Technology optics. Mounted individually or in continuous lines, with dimmable and Sensa versions.
 As Thorn EquaLine (Suspended).

Recessed slim aluminium luminaire for use with T16 (T5) 28, 35, 49, 54W lamps, mounted via dedicated concrete/plasterboard brackets. With Satinbrite Louvre/Opal diffuser and MicroPrism Technology optics. Mounted individually or in continuous lines, with dimmable and Sensa versions.
 As Thorn EquaLine (Recessed).

Wire suspended slim aluminium luminaire for use with T16 (T5) 28, 35, 49, 54W lamps, mounted via dedicated wire suspension brackets. With Satinbrite Louvre/Opal diffuser and MicroPrism Technology optics. Mounted individually or in continuous lines, with dimmable and Sensa versions.
 As Thorn EquaLine (Direct/Indirect).



Lamps

	T5 (FDH)	G5	28-54W
	T8 (FD)	G13	18W

Standards



Ordering Guide

Lamp(s) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Single length, suspended, louver			
EQUALINE 1X28W HF DSB MSWT	2.90	96236846	EQS128ZSB
EQUALINE 1X28W HFI DSB MSWT	3.00	96240522	EQS128DSB
EQUALINE 1X28W HFSI DSB MSWT	3.00	96240570	EQS128DSSB
EQUALINE 1X35W HF DSB MSWT	3.60	96236847	EQS135ZSB
EQUALINE 1X35W HFI DSB MSWT	4.10	96240533	EQS135DSB
EQUALINE 1X35W HFSI DSB MSWT	4.30	96240578	EQS135DSSB
EQUALINE 1X49W HF DSB MSWT	3.60	96236848	EQS149ZSB
EQUALINE 1X49W HFI DSB MSWT	3.75	96240542	EQS149DSB
EQUALINE 1X49W HFSI DSB MSWT	3.75	96240732	EQS149DSSB
EQUALINE 1X54W HF DSB MSWT	2.90	96236881	EQS154ZSB
EQUALINE 1X54W HFI DSB MSWT	4.00	96240554	EQS154DSB
EQUALINE 1X54W HFSI DSB MSWT	3.30	96240584	EQS154DSSB
Equaline Single length, suspended, MicroPrism technology			
EQUALINE 1X28W HF MPT MSWT	3.30	96236869	EQS128ZMP
EQUALINE 1X28W HFI MPT MSWT	3.30	96240524	EQS128DMP
EQUALINE 1X28W HFSI MPT MSWT	36.00	96240729	EQS128DSMP
EQUALINE 1X35W HF MPT MSWT	4.00	96236870	EQS135ZMP
EQUALINE 1X35W HFI MPT MSWT	4.00	96240535	EQS135DMP
EQUALINE 1X35W HFSI MPT MSWT	43.00	96240730	EQS135DSMP
EQUALINE 1X49W HF MPT MSWT	4.00	96236871	EQS149ZMP
EQUALINE 1X49W HFI MPT MSWT	4.00	96240544	EQS149DMP
EQUALINE 1X49W HFSI MPT MSWT	4.30	96240733	EQS149DSMP
EQUALINE 1X54W HF MPT MSWT	3.30	96236872	EQS154ZMP
EQUALINE 1X54W HFI MPT MSWT	3.30	96240718	EQS154DMP
EQUALINE 1X54W HFSI MPT MSWT	3.60	96240734	EQS154DSMP
Equaline Single length, suspended, opal polycarbonate			
EQUALINE 1X28W HF OP PC MSWT	2.90	96236857	EQS128ZOP
EQUALINE 1X28W HFI OP PC MSWT	2.90	96240527	EQS128DOP
EQUALINE 1X28W HFSI OP PC MSWT	3.20	96240574	EQS128DSOP
EQUALINE 1X35W HF OP PC MSWT	3.60	96236858	EQS135ZOP
EQUALINE 1X35W HFI OP PC MSWT	3.60	96240537	EQS135DOP
EQUALINE 1X35W HFSI OP PC MSWT	3.90	96240731	EQS135DSOP
EQUALINE 1X49W HF OP PC MSWT	3.60	96236859	EQS149ZOP
EQUALINE 1X49W HFI OP PC MSWT	3.60	96240547	EQS149DOP
EQUALINE 1X49W HFSI OP PC MSWT	3.90	96240583	EQS149DSOP
EQUALINE 1X54W HF OP PC MSWT	2.90	96236860	EQS154ZOP
EQUALINE 1X54W HFI OP PC MSWT	2.90	96240559	EQS154DOP
EQUALINE 1X54W HFSI OP PC MSWT	3.20	96240735	EQS154DSOP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Single length, surface mounted, louver			
EQUALINE 1X28W HF DSB MCE	2.80	96238133	EQSF128ZSB
EQUALINE 1X28W HFI DSB MCE	2.80	96240520	EQSF128DSB
EQUALINE 1X28W HFSI DSB MCE	3.10	96240568	EQSF128DSSB
EQUALINE 1X35W HF DSB MCE	3.50	96238134	EQSF135ZSB
EQUALINE 1X35W HFI DSB MCE	3.50	96240531	EQSF135DSB
EQUALINE 1X35W HFSI DSB MCE	3.70	96240736	EQSF135DSSB
EQUALINE 1X49W HF DSB MCE	3.50	96238135	EQSF149ZSB
EQUALINE 1X49W HFI DSB MCE	3.50	96240540	EQSF149DSB
EQUALINE 1X49W HFSI DSB MCE	3.80	96240738	EQSF149DSSB
EQUALINE 1X54W HF DSB MCE	2.80	96238136	EQSF154ZSB
EQUALINE 1X54W HFI DSB MCE	2.80	96240552	EQSF154DSB
EQUALINE 1X54W HFSI DSB MCE	3.10	96240740	EQSF154DSSB
Equaline Single length, surface mounted, MicroPrism technology			
EQUALINE 1X28W HF MPT MCE	3.20	96237042	EQSF128ZMP
EQUALINE 1X28W HFI MPT MCE	3.30	96240719	EQSF128DMP
EQUALINE 1X28W HFSI MPT MCE	3.60	96240571	EQSF128DSMP
EQUALINE 1X35W HF MPT MCE	3.90	96237043	EQSF135ZMP
EQUALINE 1X35W HFI MPT MCE	4.00	96240534	EQSF135DMP
EQUALINE 1X35W HFSI MPT MCE	4.30	96240737	EQSF135DSMP
EQUALINE 1X49W HF MPT MCE	3.90	96237044	EQSF149ZMP
EQUALINE 1X49W HFI MPT MCE	4.00	96240721	EQSF149DMP
EQUALINE 1X49W HFSI MPT MCE	4.30	96240739	EQSF149DSMP
EQUALINE 1X54W HF MPT MCE	3.20	96237072	EQSF154ZMP
EQUALINE 1X54W HFI MPT MCE	3.30	96240555	EQSF154DMP
EQUALINE 1X54W HFSI MPT MCE	3.60	96240741	EQSF154DSMP
Equaline Single length, surface mounted, opal polycarbonate			
EQUALINE 1X28W HF OP PC MCE	2.80	96238137	EQSF128ZOP
EQUALINE 1X28W HFI OP PC MCE	2.90	96240525	EQSF128DOP
EQUALINE 1X28W HFSI OP PC MCE	3.20	96240573	EQSF128DSOP
EQUALINE 1X35W HF OP PC MCE	3.50	96238138	EQSF135ZOP
EQUALINE 1X35W HFI OP PC MCE	3.60	96240720	EQSF135DOP
EQUALINE 1X35W HFSI OP PC MCE	3.90	96241336	EQSF135DSOP
EQUALINE 1X49W HF OP PC MCE	3.50	96238139	EQSF149ZOP
EQUALINE 1X49W HFI OP PC MCE	3.60	96240545	EQSF149DOP
EQUALINE 1X49W HFSI OP PC MCE	3.90	96240581	EQSF149DSOP
EQUALINE 1X54W HF OP PC MCE	2.80	96238140	EQSF154ZOP
EQUALINE 1X54W HFI OP PC MCE	2.90	96240557	EQSF154DOP
EQUALINE 1X54W HFSI OP PC MCE	3.20	96240585	EQSF154DSOP



Ordering Guide

Lamp(s) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
EquaLine Single length, recessed, louvre			
EQUALINE 1X28W HF DSB MRE	2.80	96238170	EQR128ZSB
EQUALINE 1X28W HFI DSB MRE	2.90	96240521	EQR128DSB
EQUALINE 1X28W HFSI DSB MRE	3.20	96240569	EQR128DSSB
EQUALINE 1X35W HF DSB MRE	3.50	96238171	EQR135ZSB
EQUALINE 1X35W HFI DSB MRE	3.60	96240532	EQR135DSB
EQUALINE 1X35W HFSI DSB MRE	3.90	96240743	EQR135DSSB
EQUALINE 1X49W HF DSB MRE	3.50	96238172	EQR149ZSB
EQUALINE 1X49W HFI DSB MRE	3.60	96240541	EQR149DSB
EQUALINE 1X49W HFSI DSB MRE	3.90	96240745	EQR149DSSB
EQUALINE 1X54W HF DSB MRE	2.80	96238173	EQR154ZSB
EQUALINE 1X54W HFI DSB MRE	2.90	96240553	EQR154DSB
EQUALINE 1X54W HFSI DSB MRE	3.20	96240747	EQR154DSSB
EquaLine Single length, recessed, MicroPrism technology			
EQUALINE 1X28W HF MPT MRE	3.20	96238178	EQR128ZMP
EQUALINE 1X28W HFI MPT MRE	3.30	96240523	EQR128DMP
EQUALINE 1X28W HFSI MPT MRE	3.60	96240572	EQR128DSMP
EQUALINE 1X35W HF MPT MRE	3.90	96238179	EQR135ZMP
EQUALINE 1X35W HFI MPT MRE	4.00	96240722	EQR135DMP
EQUALINE 1X35W HFSI MPT MRE	4.30	96240744	EQR135DSMP
EQUALINE 1X49W HF MPT MRE	3.90	96238180	EQR149ZMP
EQUALINE 1X49W HFI MPT MRE	4.00	96240543	EQR149DMP
EQUALINE 1X49W HFSI MPT MRE	4.30	96240746	EQR149DSMP
EQUALINE 1X54W HF MPT MRE	3.20	96238181	EQR154ZMP
EQUALINE 1X54W HFI MPT MRE	3.30	96240556	EQR154DMP
EQUALINE 1X54W HFSI MPT MRE	3.60	96240748	EQR154DSMP
EquaLine Single length, recessed, opal polycarbonate			
EQUALINE 1X28W HF OP PC MRE	2.80	96238174	EQR128ZOP
EQUALINE 1X28W HFI OP PC MRE	2.90	96240526	EQR128DOP
EQUALINE 1X28W HFSI OP PC MRE	3.20	96240742	EQR128DSOP
EQUALINE 1X35W HF OP PC MRE	3.50	96238175	EQR135ZOP
EQUALINE 1X35W HFI OP PC MRE	3.60	96240536	EQR135DOP
EQUALINE 1X35W HFSI OP PC MRE	3.90	96240579	EQR135DSOP
EQUALINE 1X49W HF OP PC MRE	3.50	96238176	EQR149ZOP
EQUALINE 1X49W HFI OP PC MRE	3.60	96240546	EQR149DOP
EQUALINE 1X49W HFSI OP PC MRE	3.90	96240582	EQR149DSOP
EQUALINE 1X54W HF OP PC MRE	2.80	96238177	EQR154ZOP
EQUALINE 1X54W HFI OP PC MRE	2.90	96240558	EQR154DOP
EQUALINE 1X54W HFSI OP PC MRE	3.20	96240586	EQR154DSOP

Description	Wt (kg)	SAP Code	Cat. No.
EquaLine Single length, direct/indirect, louvre			
EQUALINE DI 2X28W HF DSB	4.50	96238242	EQDI128ZSB
EQUALINE DI 2X28W HFI DSB	4.60	96240821	EQDI128DSB
EQUALINE DI 2X28W HFSI DSB	4.90	96240833	EQDI128DSSB
EQUALINE DI 2X35W HF DSB	4.90	96238243	EQDI135ZSB
EQUALINE DI 2X35W HFI DSB	5.00	96240824	EQDI135DSB
EQUALINE DI 2X35W HFSI DSB	5.30	96240836	EQDI135DSSB
EQUALINE DI 2X49W HF DSB	4.90	96238244	EQDI149ZSB
EQUALINE DI 2X49W HFI DSB	5.00	96240827	EQDI149DSB
EQUALINE DI 2X49W HFSI DSB	5.30	96240839	EQDI149DSSB
EQUALINE DI 2X54W HF DSB	4.50	96238245	EQDI154ZSB
EQUALINE DI 2X54W HFI DSB	4.60	96240830	EQDI154DSB
EQUALINE DI 2X54W HFSI DSB	4.90	96240842	EQDI154DSSB
EquaLine Single length, direct/indirect, MicroPrism technology			
EQUALINE DI 2X28W HF MPT	4.90	96238250	EQDI128ZMP
EQUALINE DI 2X28W HFI MPT	5.00	96240822	EQDI128DMP
EQUALINE DI 2X28W HFSI MPT	5.30	96240834	EQDI128DSMP
EQUALINE DI 2X35W HF MPT	5.30	96238251	EQDI135ZMP
EQUALINE DI 2X35W HFI MPT	5.40	96240825	EQDI135DMP
EQUALINE DI 2X35W HFSI MPT	5.70	96240837	EQDI135DSMP
EQUALINE DI 2X49W HF MPT	5.30	96238252	EQDI149ZMP
EQUALINE DI 2X49W HFI MPT	5.40	96240828	EQDI149DMP
EQUALINE DI 2X49W HFSI MPT	5.70	96240840	EQDI149DSMP
EQUALINE DI 2X54W HF MPT	4.90	96238253	EQDI154ZMP
EQUALINE DI 2X54W HFI MPT	5.00	96240831	EQDI154DMP
EQUALINE DI 2X54W HFSI MPT	5.30	96240843	EQDI154DSMP
EquaLine Single length, direct/indirect, opal polycarbonate			
EQUALINE DI 2X28W HF OP PC	4.50	96238246	EQDI228ZOP
EQUALINE DI 2X28W HFI OP PC	4.60	96240823	EQDI228DOP
EQUALINE DI 2X28W HFSI OP PC	4.90	96240835	EQDI228DSOP
EQUALINE DI 2X35W HF OP PC	4.90	96238247	EQDI235ZOP
EQUALINE DI 2X35W HFI OP PC	5.00	96240826	EQDI235DOP
EQUALINE DI 2X35W HFSI OP PC	5.30	96240838	EQDI235DSOP
EQUALINE DI 2X49W HF OP PC	4.90	96238248	EQDI249ZOP
EQUALINE DI 2X49W HFI OP PC	5.00	96240829	EQDI249DOP
EQUALINE DI 2X49W HFSI OP PC	5.30	96240841	EQDI249DSOP
EQUALINE DI 2X54W HF OP PC	4.50	96238249	EQDI254ZOP
EQUALINE DI 2X54W HFI OP PC	4.60	96240832	EQDI254DOP
EQUALINE DI 2X54W HFSI OP PC	4.90	96240844	EQDI254DSOP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Double length, suspended, louvre			
EQUALINE 2/1X28W HF DSB MSWT	5.60	96236849	EQS2/128ZSB
EQUALINE 2/1X28W HFI DSB MSWT	5.70	96240749	EQS2/128DSB
EQUALINE 2/1X28W HFSI DSB MSWT	6.00	96240785	EQS2/128DSSB
EQUALINE 2/1X35W HF DSB MSWT	7.00	96236850	EQS2/135ZSB
EQUALINE 2/1X35W HFI DSB MSWT	7.10	96240752	EQS2/135DSB
EQUALINE 2/1X35W HFSI DSB MSWT	7.40	96240788	EQS2/135DSSB
EQUALINE 2/1X49W HF DSB MSWT	7.00	96236851	EQS2/149ZSB
EQUALINE 2/1X49W HFI DSB MSWT	7.10	96240755	EQS2/149DSB
EQUALINE 2/1X49W HFSI DSB MSWT	7.40	96240791	EQS2/149DSSB
EQUALINE 2/1X54W HF DSB MSWT	5.60	96236852	EQS2/154ZSB
EQUALINE 2/1X54W HFI DSB MSWT	5.70	96240758	EQS2/154DSB
EQUALINE 2/1X54W HFSI DSB MSWT	6.00	96240794	EQS2/154DSSB
Equaline Double length, suspended, MicroPrism technology			
EQUALINE 2/1X28W HF MPT MSWT	6.40	96236873	EQS2/128ZMP
EQUALINE 2/1X28W HFI MPT MSWT	6.50	96240750	EQS2/128DMP
EQUALINE 2/1X28W HFSI MPT MSWT	6.80	96240786	EQS2/128DSMP
EQUALINE 2/1X35W HF MPT MSWT	7.80	96236874	EQS2/135ZMP
EQUALINE 2/1X35W HFI MPT MSWT	7.90	96240753	EQS2/135DMP
EQUALINE 2/1X35W HFSI MPT MSWT	8.20	96240789	EQS2/135DSMP
EQUALINE 2/1X49W HF MPT MSWT	7.80	96236875	EQS2/149ZMP
EQUALINE 2/1X49W HFI MPT MSWT	7.90	96240756	EQS2/149DMP
EQUALINE 2/1X49W HFSI MPT MSWT	8.20	96240792	EQS2/149DSMP
EQUALINE 2/1X54W HF MPT MSWT	6.40	96236876	EQS2/154ZMP
EQUALINE 2/1X54W HFI MPT MSWT	6.50	96240759	EQS2/154DMP
EQUALINE 2/1X54W HFSI MPT MSWT	6.80	96240795	EQS2/154DSMP
Equaline Double length, suspended, opal polycarbonate			
EQUALINE 2/1X28W HF OP PC MSWT	5.60	96236861	EQS2/128ZOP
EQUALINE 2/1X28W HFI OP PC MSWT	5.70	96240751	EQS2/128DOP
EQUALINE 2/1X28W HFSI OP PC MSWT	6.00	96240787	EQS2/128DSOP
EQUALINE 2/1X35W HF OP PC MSWT	7.00	96236862	EQS2/135ZOP
EQUALINE 2/1X35W HFI OP PC MSWT	7.10	96240754	EQS2/135DOP
EQUALINE 2/1X35W HFSI OP PC MSWT	7.40	96240790	EQS2/135DSOP
EQUALINE 2/1X49W HF OP PC MSWT	7.00	96236863	EQS2/149ZOP
EQUALINE 2/1X49W HFI OP PC MSWT	7.10	96240757	EQS2/149DOP
EQUALINE 2/1X49W HFSI OP PC MSWT	7.40	96240793	EQS2/149DSOP
EQUALINE 2/1X54W HF OP PC MSWT	5.60	96236864	EQS2/154ZOP
EQUALINE 2/1X54W HFI OP PC MSWT	5.70	96240760	EQS2/154DOP
EQUALINE 2/1X54W HFSI OP PC MSWT	6.00	96240796	EQS2/154DSOP
Equaline Double length, surface mounted, louvre			
EQUALINE 2/1X28W HF DSB MCE	5.40	96237057	EQSF2/128ZSB
EQUALINE 2/1X28W HFI DSB MCE	5.50	96240761	EQSF2/128DSB
EQUALINE 2/1X28W HFSI DSB MCE	5.80	96240797	EQSF2/128DSSB
EQUALINE 2/1X35W HF DSB MCE	6.80	96237058	EQSF2/135ZSB
EQUALINE 2/1X35W HFI DSB MCE	6.90	96240764	EQSF2/135DSB
EQUALINE 2/1X35W HFSI DSB MCE	7.20	96240800	EQSF2/135DSSB
EQUALINE 2/1X49W HF DSB MCE	6.80	96237059	EQSF2/149ZSB
EQUALINE 2/1X49W HFI DSB MCE	6.90	96240767	EQSF2/149DSB
EQUALINE 2/1X49W HFSI DSB MCE	7.20	96240803	EQSF2/149DSSB
EQUALINE 2/1X54W HF DSB MCE	5.40	96237060	EQSF2/154ZSB
EQUALINE 2/1X54W HFI DSB MCE	5.50	96240770	EQSF2/154DSB
EQUALINE 2/1X54W HFSI DSB MCE	5.80	96240806	EQSF2/154DSSB
Equaline Double length, surface mounted, MicroPrism technology			
EQUALINE 2/1X28W HF MPT MCE	6.20	96237045	EQSF2/128ZMP
EQUALINE 2/1X28W HFI MPT MCE	6.30	96240762	EQSF2/128DMP
EQUALINE 2/1X28W HFSI MPT MCE	6.60	96240798	EQSF2/128DSMP
EQUALINE 2/1X35W HF MPT MCE	7.60	96237046	EQSF2/135ZMP
EQUALINE 2/1X35W HFI MPT MCE	7.70	96240765	EQSF2/135DMP
EQUALINE 2/1X35W HFSI MPT MCE	8.00	96240801	EQSF2/135DSMP
EQUALINE 2/1X49W HF MPT MCE	7.60	96237047	EQSF2/149ZMP
EQUALINE 2/1X49W HFI MPT MCE	7.70	96240768	EQSF2/149DMP
EQUALINE 2/1X49W HFSI MPT MCE	8.00	96240804	EQSF2/149DSMP
EQUALINE 2/1X54W HF MPT MCE	6.20	96237048	EQSF2/154ZMP
EQUALINE 2/1X54W HFI MPT MCE	6.30	96240771	EQSF2/154DMP
EQUALINE 2/1X54W HFSI MPT MCE	6.60	96240807	EQSF2/154DSMP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Double length, surface mounted, opal polycarbonate			
EQUALINE 2/1X28W HF OP PC MCE	5.40	96237064	EQSF2/128ZOP
EQUALINE 2/1X28W HFI OP PC MCE	5.50	96240763	EQSF2/128DOP
EQUALINE 2/1X28W HFSI OP PC MCE	5.80	96240799	EQSF2/128DSOP
EQUALINE 2/1X35W HF OP PC MCE	6.80	96237065	EQSF2/135ZOP
EQUALINE 2/1X35W HFI OP PC MCE	6.90	96240766	EQSF2/135DOP
EQUALINE 2/1X35W HFSI OP PC MCE	7.20	96240802	EQSF2/135DSOP
EQUALINE 2/1X49W HF OP PC MCE	6.80	96237066	EQSF2/149ZOP
EQUALINE 2/1X49W HFI OP PC MCE	6.90	96240769	EQSF2/149DOP
EQUALINE 2/1X49W HFSI OP PC MCE	7.20	96240805	EQSF2/149DSOP
EQUALINE 2/1X54W HF OP PC MCE	5.40	96237067	EQSF2/154ZOP
EQUALINE 2/1X54W HFI OP PC MCE	5.50	96240772	EQSF2/154DOP
EQUALINE 2/1X54W HFSI OP PC MCE	5.80	96240808	EQSF2/154DSOP
Equaline Double length, recessed, louvre			
EQUALINE 2/1X28W HF DSB MRE	5.40	96238206	EQR2/128ZSB
EQUALINE 2/1X28W HFI DSB MRE	5.50	96240773	EQR2/128DSB
EQUALINE 2/1X28W HFSI DSB MRE	5.80	96240809	EQR2/128DSSB
EQUALINE 2/1X35W HF DSB MRE	6.80	96238207	EQR2/135ZSB
EQUALINE 2/1X35W HFI DSB MRE	6.90	96240776	EQR2/135DSB
EQUALINE 2/1X35W HFSI DSB MRE	7.20	96240812	EQR2/135DSSB
EQUALINE 2/1X49W HF DSB MRE	6.80	96238208	EQR2/149ZSB
EQUALINE 2/1X49W HFI DSB MRE	6.90	96240779	EQR2/149DSB
EQUALINE 2/1X49W HFSI DSB MRE	7.20	96240815	EQR2/149DSSB
EQUALINE 2/1X54W HF DSB MRE	5.40	96238209	EQR2/154ZSB
EQUALINE 2/1X54W HFI DSB MRE	5.50	96240782	EQR2/154DSB
EQUALINE 2/1X54W HFSI DSB MRE	5.80	96240818	EQR2/154DSSB
Equaline Double length, recessed, MicroPrism technology			
EQUALINE 2/1X28W HF MPT MRE	6.20	96238214	EQR2/128ZMP
EQUALINE 2/1X28W HFI MPT MRE	6.30	96240774	EQR2/128DMP
EQUALINE 2/1X28W HFSI MPT MRE	6.60	96240810	EQR2/128DSMP
EQUALINE 2/1X35W HF MPT MRE	7.60	96238215	EQR2/135ZMP
EQUALINE 2/1X35W HFI MPT MRE	7.70	96240777	EQR2/135DMP
EQUALINE 2/1X35W HFSI MPT MRE	8.00	96240813	EQR2/135DSMP
EQUALINE 2/1X49W HF MPT MRE	7.60	96238216	EQR2/149ZMP
EQUALINE 2/1X49W HFI MPT MRE	7.70	96240780	EQR2/149DMP
EQUALINE 2/1X49W HFSI MPT MRE	8.00	96240816	EQR2/149DSMP
EQUALINE 2/1X54W HF MPT MRE	6.20	96238217	EQR2/154ZMP
EQUALINE 2/1X54W HFI MPT MRE	6.30	96240783	EQR2/154DMP
EQUALINE 2/1X54W HFSI MPT MRE	6.60	96240819	EQR2/154DSMP
Equaline Double length, recessed, opal polycarbonate			
EQUALINE 2/1X28W HF OP PC MRE	5.40	96238210	EQR2/128ZOP
EQUALINE 2/1X28W HFI OP PC MRE	5.50	96240775	EQR2/128DOP
EQUALINE 2/1X28W HFSI OP PC MRE	5.80	96240811	EQR2/128DSOP
EQUALINE 2/1X35W HF OP PC MRE	6.80	96238211	EQR2/135ZOP
EQUALINE 2/1X35W HFI OP PC MRE	6.90	96240778	EQR2/135DOP
EQUALINE 2/1X35W HFSI OP PC MRE	7.20	96240814	EQR2/135DSOP
EQUALINE 2/1X49W HF OP PC MRE	6.80	96238212	EQR2/149ZOP
EQUALINE 2/1X49W HFI OP PC MRE	6.90	96240781	EQR2/149DOP
EQUALINE 2/1X49W HFSI OP PC MRE	7.20	96240817	EQR2/149DSOP
EQUALINE 2/1X54W HF OP PC MRE	5.40	96238213	EQR2/154ZOP
EQUALINE 2/1X54W HFI OP PC MRE	5.50	96240784	EQR2/154DOP
EQUALINE 2/1X54W HFSI OP PC MRE	5.80	96240820	EQR2/154DSOP
Equaline Double length, direct/indirect, louvre			
EQUALINE DI 2/2X28W HF DSB	9.00	96238278	EQDI2/228ZSB
EQUALINE DI 2/2X28W HFI DSB	9.10	96240845	EQDI2/228DSB
EQUALINE DI 2/2X28W HFSI DSB	9.40	96240857	EQDI2/228DSSB
EQUALINE DI 2/2X35W HF DSB	9.80	96238279	EQDI2/235ZSB
EQUALINE DI 2/2X35W HFI DSB	9.90	96240848	EQDI2/235DSB
EQUALINE DI 2/2X35W HFSI DSB	10.20	96240860	EQDI2/235DSSB
EQUALINE DI 2/2X49W HF DSB	9.80	96238280	EQDI2/249ZSB
EQUALINE DI 2/2X49W HFI DSB	9.90	96240851	EQDI2/249DSB
EQUALINE DI 2/2X49W HFSI DSB	10.20	96240863	EQDI2/249DSSB
EQUALINE DI 2/2X54W HF DSB	9.00	96238281	EQDI2/254ZSB
EQUALINE DI 2/2X54W HFI DSB	9.10	96240854	EQDI2/254DSB
EQUALINE DI 2/2X54W HFSI DSB	9.40	96240866	EQDI2/254DSSB



Ordering Guide

Lamp(s) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Double length, direct/indirect, MicroPrism technology			
EQUALINE DI 2/2X28W HF MPT	9.80	96238286	EQDI2/228ZMP
EQUALINE DI 2/2X28W HFI MPT	9.90	96240846	EQDI2/228DMP
EQUALINE DI 2/2X28W HFSI MPT	10.20	96240858	EQDI2/228DSMP
EQUALINE DI 2/2X35W HF MPT	10.60	96238287	EQDI2/235ZMP
EQUALINE DI 2/2X35W HFI MPT	10.70	96240849	EQDI2/235DMP
EQUALINE DI 2/2X35W HFSI MPT	11.00	96240861	EQDI2/235DSMP
EQUALINE DI 2/2X49W HF MPT	10.60	96238288	EQDI2/249ZMP
EQUALINE DI 2/2X49W HFI MPT	10.70	96240852	EQDI2/249DMP
EQUALINE DI 2/2X49W HFSI MPT	11.00	96240864	EQDI2/249DSMP
EQUALINE DI 2/2X54W HF MPT	9.80	96238289	EQDI2/254ZMP
EQUALINE DI 2/2X54W HFI MPT	9.90	96240855	EQDI2/254DMP
EQUALINE DI 2/2X54W HFSI MPT	10.20	96240867	EQDI2/254DSMP
Equaline Double length, direct/indirect, opal polycarbonate			
EQUALINE DI 2/2X28W HF OP PC	9.00	96238282	EQDI2/228ZOP
EQUALINE DI 2/2X28W HFI OP PC	9.10	96240847	EQDI2/228DOP
EQUALINE DI 2/2X28W HFSI OP PC	9.40	96240859	EQDI2/228DSOP
EQUALINE DI 2/2X35W HF OP PC	9.80	96238283	EQDI2/235ZOP
EQUALINE DI 2/2X35W HFI OP PC	9.90	96240850	EQDI2/235DOP
EQUALINE DI 2/2X35W HFSI OP PC	10.20	96240862	EQDI2/235DSOP
EQUALINE DI 2/2X49W HF OP PC	9.80	96238284	EQDI2/249ZOP
EQUALINE DI 2/2X49W HFI OP PC	9.90	96240853	EQDI2/249DOP
EQUALINE DI 2/2X49W HFSI OP PC	10.20	96240865	EQDI2/249DSOP
EQUALINE DI 2/2X54W HF OP PC	9.00	96238285	EQDI2/254ZOP
EQUALINE DI 2/2X54W HFI OP PC	9.10	96240856	EQDI2/254DOP
EQUALINE DI 2/2X54W HFSI OP PC	9.40	96240868	EQDI2/254DSOP
Equaline System, double length, suspended, louvre			
EQUALINE S 2/1X28W HF DSB MSWT	5.60	96238314	EQSS2/128ZSB
EQUALINE S 2/1X28W HFI DSB MSWT	5.70	96240869	EQSS2/128DSB
EQUALINE S 2/1X28W HFSI DSB MSWT	6.00	96240906	EQSS2/128DSSB
EQUALINE S 2/1X35W HF DSB MSWT	7.00	96238315	EQSS2/135ZSB
EQUALINE S 2/1X35W HFI DSB MSWT	7.10	96240872	EQSS2/135DSB
EQUALINE S 2/1X35W HFSI DSB MSWT	7.40	96240909	EQSS2/135DSSB
EQUALINE S 2/1X49W HF DSB MSWT	7.00	96238316	EQSS2/149ZSB
EQUALINE S 2/1X49W HFI DSB MSWT	7.10	96240875	EQSS2/149DSB
EQUALINE S 2/1X49W HFSI DSB MSWT	7.40	96240912	EQSS2/149DSSB
EQUALINE S 2/1X54W HF DSB MSWT	5.60	96238317	EQSS2/154ZSB
EQUALINE S 2/1X54W HFI DSB MSWT	5.70	96240878	EQSS2/154DSB
EQUALINE S 2/1X54W HFSI DSB MSWT	6.00	96240915	EQSS2/154DSSB
Equaline System, double length, suspended, MicroPrism technology			
EQUALINE S 2/1X28W HF MPT MSWT	6.40	96238322	EQSS2/128ZMP
EQUALINE S 2/1X28W HFI MPT MSWT	6.50	96240870	EQSS2/128DMP
EQUALINE S 2/1X28W HFSI MPT MSWT	6.80	96240907	EQSS2/128DSMP
EQUALINE S 2/1X35W HF MPT MSWT	7.80	96238323	EQSS2/135ZMP
EQUALINE S 2/1X35W HFI MPT MSWT	7.90	96240873	EQSS2/135DMP
EQUALINE S 2/1X35W HFSI MPT MSWT	8.20	96240910	EQSS2/135DSMP
EQUALINE S 2/1X49W HF MPT MSWT	7.80	96238324	EQSS2/149ZMP
EQUALINE S 2/1X49W HFI MPT MSWT	7.90	96240876	EQSS2/149DMP
EQUALINE S 2/1X49W HFSI MPT MSWT	8.20	96240913	EQSS2/149DSMP
EQUALINE S 2/1X54W HF MPT MSWT	6.40	96238325	EQSS2/154ZMP
EQUALINE S 2/1X54W HFI MPT MSWT	6.50	96240879	EQSS2/154DMP
EQUALINE S 2/1X54W HFSI MPT MSWT	6.80	96240916	EQSS2/154DSMP
Equaline System, double length, suspended, opal polycarbonate			
EQUALINE S 2/1X28W HF OP PC MSWT	5.60	96238318	EQSS2/128ZOP
EQUALINE S 2/1X28W HFI OP PC MSWT	5.70	96240871	EQSS2/128DOP
EQUALINE S 2/1X28W HFSI OP PC MSWT	6.00	96240908	EQSS2/128DSOP
EQUALINE S 2/1X35W HF OP PC MSWT	7.00	96238319	EQSS2/135ZOP
EQUALINE S 2/1X35W HFI OP PC MSWT	7.10	96240874	EQSS2/135DOP
EQUALINE S 2/1X35W HFSI OP PC MSWT	7.40	96240911	EQSS2/135DSOP
EQUALINE S 2/1X49W HF OP PC MSWT	7.00	96238320	EQSS2/149ZOP
EQUALINE S 2/1X49W HFI OP PC MSWT	7.10	96240877	EQSS2/149DOP
EQUALINE S 2/1X49W HFSI OP PC MSWT	7.40	96240914	EQSS2/149DSOP
EQUALINE S 2/1X54W HF OP PC MSWT	5.60	96238321	EQSS2/154ZOP
EQUALINE S 2/1X54W HFI OP PC MSWT	5.70	96240880	EQSS2/154DOP
EQUALINE S 2/1X54W HFSI OP PC MSWT	6.00	96240917	EQSS2/154DSOP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline System, double length, surface mounted, louvre			
EQUALINE S 2/1X28W HF DSB MCE	5.40	96238386	EQSSF2/128ZSB
EQUALINE S 2/1X28W HFI DSB MCE	5.50	96240881	EQSSF2/128DSB
EQUALINE S 2/1X28W HFSI DSB MCE	5.80	96240918	EQSSF2/128DSSB
EQUALINE S 2/1X35W HF DSB MCE	6.80	96238387	EQSSF2/135ZSB
EQUALINE S 2/1X35W HFI DSB MCE	6.90	96240884	EQSSF2/135DSB
EQUALINE S 2/1X35W HFSI DSB MCE	7.20	96240921	EQSSF2/135DSSB
EQUALINE S 2/1X49W HF DSB MCE	6.80	96238388	EQSSF2/149ZSB
EQUALINE S 2/1X49W HFI DSB MCE	6.90	96240887	EQSSF2/149DSB
EQUALINE S 2/1X49W HFSI DSB MCE	7.20	96240924	EQSSF2/149DSSB
EQUALINE S 2/1X54W HF DSB MCE	5.40	96238389	EQSSF2/154ZSB
EQUALINE S 2/1X54W HFI DSB MCE	5.50	96240890	EQSSF2/154DSB
EQUALINE S 2/1X54W HFSI DSB MCE	5.80	96240927	EQSSF2/154DSSB
Equaline System, double length, surface mounted, MicroPrism technology			
EQUALINE S 2/1X28W HF MPT MCE	6.20	96238394	EQSSF2/128ZMP
EQUALINE S 2/1X28W HFI MPT MCE	6.30	96240882	EQSSF2/128DMP
EQUALINE S 2/1X28W HFSI MPT MCE	6.60	96240919	EQSSF2/128DSMP
EQUALINE S 2/1X35W HF MPT MCE	7.60	96238395	EQSSF2/135ZMP
EQUALINE S 2/1X35W HFI MPT MCE	7.70	96240885	EQSSF2/135DMP
EQUALINE S 2/1X35W HFSI MPT MCE	8.00	96240922	EQSSF2/135DSMP
EQUALINE S 2/1X49W HF MPT MCE	7.60	96238396	EQSSF2/149ZMP
EQUALINE S 2/1X49W HFI MPT MCE	7.70	96240888	EQSSF2/149DMP
EQUALINE S 2/1X49W HFSI MPT MCE	8.00	96240925	EQSSF2/149DSMP
EQUALINE S 2/1X54W HF MPT MCE	6.20	96238397	EQSSF2/154ZMP
EQUALINE S 2/1X54W HFI MPT MCE	6.30	96240892	EQSSF2/154DMP
EQUALINE S 2/1X54W HFSI MPT MCE	6.60	96240928	EQSSF2/154DSMP
Equaline System, double length, surface mounted, opal polycarbonate			
EQUALINE S 2/1X28W HF OP PC MCE	5.40	96238390	EQSSF2/128ZOP
EQUALINE S 2/1X28W HFI OP PC MCE	5.50	96240883	EQSSF2/128DOP
EQUALINE S 2/1X28W HFSI OP PC MCE	5.80	96240920	EQSSF2/128DSOP
EQUALINE S 2/1X35W HF OP PC MCE	6.80	96238391	EQSSF2/135ZOP
EQUALINE S 2/1X35W HFI OP PC MCE	6.90	96240886	EQSSF2/135DOP
EQUALINE S 2/1X35W HFSI OP PC MCE	7.20	96240923	EQSSF2/135DSOP
EQUALINE S 2/1X49W HF OP PC MCE	6.80	96238392	EQSSF2/149ZOP
EQUALINE S 2/1X49W HFI OP PC MCE	6.90	96240889	EQSSF2/149DOP
EQUALINE S 2/1X49W HFSI OP PC MCE	7.20	96240926	EQSSF2/149DSOP
EQUALINE S 2/1X54W HF OP PC MCE	5.40	96238393	EQSSF2/154ZOP
EQUALINE S 2/1X54W HFI OP PC MCE	5.50	96240893	EQSSF2/154DOP
EQUALINE S 2/1X54W HFSI OP PC MCE	5.80	96240929	EQSSF2/154DSOP
Equaline System, double length, recessed, louvre			
EQUALINE S 2/1X28W HF DSB MRE	5.40	96238671	EQSR2/128ZSB
EQUALINE S 2/1X28W HFI DSB MRE	5.50	96240894	EQSR2/128DSB
EQUALINE S 2/1X28W HFSI DSB MRE	5.80	96240930	EQSR2/128DSSB
EQUALINE S 2/1X35W HF DSB MRE	6.80	96238672	EQSR2/135ZSB
EQUALINE S 2/1X35W HFI DSB MRE	6.90	96240897	EQSR2/135DSB
EQUALINE S 2/1X35W HFSI DSB MRE	7.20	96240933	EQSR2/135DSSB
EQUALINE S 2/1X49W HF DSB MRE	6.80	96238673	EQSR2/149ZSB
EQUALINE S 2/1X49W HFI DSB MRE	6.90	96240900	EQSR2/149DSB
EQUALINE S 2/1X49W HFSI DSB MRE	7.20	96240936	EQSR2/149DSSB
EQUALINE S 2/1X54W HF DSB MRE	5.40	96238674	EQSR2/154ZSB
EQUALINE S 2/1X54W HFI DSB MRE	5.50	96240903	EQSR2/154DSB
EQUALINE S 2/1X54W HFSI DSB MRE	5.80	96240939	EQSR2/154DSSB
Equaline System, double length, recessed, MicroPrism technology			
EQUALINE S 2/1X28W HF MPT MRE	6.20	96238679	EQSR2/128ZMP
EQUALINE S 2/1X28W HFI MPT MRE	6.30	96240895	EQSR2/128DMP
EQUALINE S 2/1X28W HFSI MPT MRE	6.60	96240931	EQSR2/128DSMP
EQUALINE S 2/1X35W HF MPT MRE	7.60	96238680	EQSR2/135ZMP
EQUALINE S 2/1X35W HFI MPT MRE	7.70	96240898	EQSR2/135DMP
EQUALINE S 2/1X35W HFSI MPT MRE	8.00	96240934	EQSR2/135DSMP
EQUALINE S 2/1X49W HF MPT MRE	7.60	96238681	EQSR2/149ZMP
EQUALINE S 2/1X49W HFI MPT MRE	7.70	96240901	EQSR2/149DMP
EQUALINE S 2/1X49W HFSI MPT MRE	8.00	96240937	EQSR2/149DSMP
EQUALINE S 2/1X54W HF MPT MRE	6.20	96238682	EQSR2/154ZMP
EQUALINE S 2/1X54W HFI MPT MRE	6.30	96240904	EQSR2/154DMP
EQUALINE S 2/1X54W HFSI MPT MRE	6.60	96240940	EQSR2/154DSMP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline System, double length, recessed, opal polycarbonate			
EQUALINE S 2/1X28W HF OP PC MRE	5.40	96238675	EQSR2/128ZOP
EQUALINE S 2/1X28W HFI OP PC MRE	5.50	96240896	EQSR2/128DOP
EQUALINE S 2/1X28W HFSI OP PC MRE	5.80	96240932	EQSR2/128DSOP
EQUALINE S 2/1X35W HF OP PC MRE	6.80	96238676	EQSR2/135ZOP
EQUALINE S 2/1X35W HFI OP PC MRE	6.90	96240899	EQSR2/135DOP
EQUALINE S 2/1X35W HFSI OP PC MRE	7.20	96240935	EQSR2/135DSOP
EQUALINE S 2/1X49W HF OP PC MRE	6.80	96238677	EQSR2/149ZOP
EQUALINE S 2/1X49W HFI OP PC MRE	6.90	96240902	EQSR2/149DOP
EQUALINE S 2/1X49W HFSI OP PC MRE	7.20	96240938	EQSR2/149DSOP
EQUALINE S 2/1X54W HF OP PC MRE	5.40	96238678	EQSR2/154ZOP
EQUALINE S 2/1X54W HFI OP PC MRE	5.50	96240905	EQSR2/154DOP
EQUALINE S 2/1X54W HFSI OP PC MRE	5.80	96240941	EQSR2/154DSOP
Equaline System, double length, direct/indirect, louvre			
EQUALINE S DI 2/2X28W HF DSB	9.00	96238784	EQSDI2/228ZSB
EQUALINE S DI 2/2X28W HFI DSB	9.10	96240997	EQSDI2/228DSB
EQUALINE S DI 2/2X28W HFSI DSB	9.40	96241006	EQSDI2/228DSB
EQUALINE S DI 2/2X35W HF DSB	9.80	96238785	EQSDI2/235ZSB
EQUALINE S DI 2/2X35W HFI DSB	9.90	96241246	EQSDI2/235DSB
EQUALINE S DI 2/2X35W HFSI DSB	10.20	96241009	EQSDI2/235DSB
EQUALINE S DI 2/2X49W HF DSB	9.80	96238786	EQSDI2/249ZSB
EQUALINE S DI 2/2X49W HFI DSB	9.90	96241000	EQSDI2/249DSB
EQUALINE S DI 2/2X49W HFSI DSB	10.20	96241012	EQSDI2/249DSB
EQUALINE S DI 2/2X54W HF DSB	9.00	96238787	EQSDI2/254ZSB
EQUALINE S DI 2/2X54W HFI DSB	9.10	96241003	EQSDI2/254DSB
EQUALINE S DI 2/2X54W HFSI DSB	9.40	96241015	EQSDI2/254DSB
Equaline System, double length, direct/indirect, MicroPrism technology			
EQUALINE S DI 2/2X28W HF MPT	9.80	96238792	EQSDI2/228ZMP
EQUALINE S DI 2/2X28W HFI MPT	9.90	96240998	EQSDI2/228DMP
EQUALINE S DI 2/2X28W HFSI MPT	10.20	96241007	EQSDI2/228DSMP
EQUALINE S DI 2/2X35W HF MPT	10.60	96238793	EQSDI2/235ZMP
EQUALINE S DI 2/2X35W HFI MPT	10.70	96241248	EQSDI2/235DMP
EQUALINE S DI 2/2X35W HFSI MPT	11.00	96241010	EQSDI2/235DSMP
EQUALINE S DI 2/2X49W HF MPT	10.60	96238794	EQSDI2/249ZMP
EQUALINE S DI 2/2X49W HFI MPT	10.70	96241001	EQSDI2/249DMP
EQUALINE S DI 2/2X49W HFSI MPT	11.00	96241013	EQSDI2/249DSMP
EQUALINE S DI 2/2X54W HF MPT	9.80	96238795	EQSDI2/254ZMP
EQUALINE S DI 2/2X54W HFI MPT	9.90	96241004	EQSDI2/254DMP
EQUALINE S DI 2/2X54W HFSI MPT	10.20	96241016	EQSDI2/254DSMP
Equaline System, double length, direct/indirect, opal polycarbonate			
EQUALINE S DI 2/2X28W HF OP PC	9.00	96238788	EQSDI2/228ZOP
EQUALINE S DI 2/2X28W HFI OP PC	9.10	96240999	EQSDI2/228DOP
EQUALINE S DI 2/2X28W HFSI OP PC	9.40	96241008	EQSDI2/228DSOP
EQUALINE S DI 2/2X35W HF OP PC	9.80	96238789	EQSDI2/235ZOP
EQUALINE S DI 2/2X35W HFI OP PC	10.20	96241247	EQSDI2/235DOP
EQUALINE S DI 2/2X35W HFSI OP PC	10.20	96241011	EQSDI2/235DSOP
EQUALINE S DI 2/2X49W HF OP PC	9.80	96238790	EQSDI2/249ZOP
EQUALINE S DI 2/2X49W HFI OP PC	9.90	96241002	EQSDI2/249DOP
EQUALINE S DI 2/2X49W HFSI OP PC	10.20	96241014	EQSDI2/249DSOP
EQUALINE S DI 2/2X54W HF OP PC	9.00	96238791	EQSDI2/254ZOP
EQUALINE S DI 2/2X54W HFI OP PC	9.10	96241005	EQSDI2/254DOP
EQUALINE S DI 2/2X54W HFSI OP PC	9.40	96241017	EQSDI2/254DSOP
Equaline System, triple length, suspended, louvre			
EQUALINE S 3/1X28W HF DSB MSWT	8.50	96238350	EQSS3/128ZSB
EQUALINE S 3/1X28W HFI DSB MSWT	8.60	96240528	EQSS3/128DSB
EQUALINE S 3/1X28W HFSI DSB MSWT	8.90	96240576	EQSS3/128DSB
EQUALINE S 3/1X35W HF DSB MSWT	10.60	96238351	EQSS3/135ZSB
EQUALINE S 3/1X35W HFI DSB MSWT	10.70	96240943	EQSS3/135DSB
EQUALINE S 3/1X35W HFSI DSB MSWT	11.00	96240580	EQSS3/135DSB
EQUALINE S 3/1X49W HF DSB MSWT	10.60	96238352	EQSS3/149ZSB
EQUALINE S 3/1X49W HFI DSB MSWT	10.70	96240945	EQSS3/149DSB
EQUALINE S 3/1X49W HFSI DSB MSWT	11.00	96240971	EQSS3/149DSB
EQUALINE S 3/1X54W HF DSB MSWT	8.50	96238353	EQSS3/154ZSB
EQUALINE S 3/1X54W HFI DSB MSWT	8.60	96240946	EQSS3/154DSB
EQUALINE S 3/1X54W HFSI DSB MSWT	8.90	96240588	EQSS3/154DSB

Description	Wt (kg)	SAP Code	Cat. No.
Equaline System, triple length, suspended, MicroPrism technology			
EQUALINE S 3/1X28W HF MPT MSWT	9.70	96238358	EQSS3/128ZMP
EQUALINE S 3/1X28W HFI MPT MSWT	9.80	96240942	EQSS3/128DMP
EQUALINE S 3/1X28W HFSI MPT MSWT	10.10	96240967	EQSS3/128DSMP
EQUALINE S 3/1X35W HF MPT MSWT	11.80	96238359	EQSS3/135ZMP
EQUALINE S 3/1X35W HFI MPT MSWT	11.90	96240944	EQSS3/135DMP
EQUALINE S 3/1X35W HFSI MPT MSWT	12.20	96240969	EQSS3/135DSMP
EQUALINE S 3/1X49W HF MPT MSWT	11.80	96238360	EQSS3/149ZMP
EQUALINE S 3/1X49W HFI MPT MSWT	11.90	96240550	EQSS3/149DMP
EQUALINE S 3/1X49W HFSI MPT MSWT	12.20	96240972	EQSS3/149DSMP
EQUALINE S 3/1X54W HF MPT MSWT	9.70	96238361	EQSS3/154ZMP
EQUALINE S 3/1X54W HFI MPT MSWT	9.80	96240560	EQSS3/154DMP
EQUALINE S 3/1X54W HFSI MPT MSWT	10.10	96240974	EQSS3/154DSMP
Equaline System, triple length, suspended, opal polycarbonate			
EQUALINE S 3/1X28W HF OP PC MSWT	8.50	96238354	EQSS3/128ZOP
EQUALINE S 3/1X28W HFI OP PC MSWT	8.60	96240530	EQSS3/128DOP
EQUALINE S 3/1X28W HFSI OP PC MSWT	8.90	96240968	EQSS3/128DSOP
EQUALINE S 3/1X35W HF OP PC MSWT	10.60	96238355	EQSS3/135ZOP
EQUALINE S 3/1X35W HFI OP PC MSWT	10.70	96240539	EQSS3/135DOP
EQUALINE S 3/1X35W HFSI OP PC MSWT	11.00	96240970	EQSS3/135DSOP
EQUALINE S 3/1X49W HF OP PC MSWT	10.60	96238356	EQSS3/149ZOP
EQUALINE S 3/1X49W HFI OP PC MSWT	10.70	96240551	EQSS3/149DOP
EQUALINE S 3/1X49W HFSI OP PC MSWT	11.00	96240973	EQSS3/149DSOP
EQUALINE S 3/1X54W HF OP PC MSWT	8.50	96238357	EQSS3/154ZOP
EQUALINE S 3/1X54W HFI OP PC MSWT	8.60	96240947	EQSS3/154DOP
EQUALINE S 3/1X54W HFSI OP PC MSWT	8.90	96240975	EQSS3/154DSOP
Equaline System, triple length, surface mounted, louvre			
EQUALINE S 3/1X28W HF DSB MCE	8.20	96238422	EQSSF3/128ZSB
EQUALINE S 3/1X28W HFI DSB MCE	8.30	96240948	EQSSF3/128DSB
EQUALINE S 3/1X28W HFSI DSB MCE	8.60	96240575	EQSSF3/128DSB
EQUALINE S 3/1X35W HF DSB MCE	10.30	96238423	EQSSF3/135ZSB
EQUALINE S 3/1X35W HFI DSB MCE	10.40	96240950	EQSSF3/135DSB
EQUALINE S 3/1X35W HFSI DSB MCE	10.70	96240978	EQSSF3/135DSB
EQUALINE S 3/1X49W HF DSB MCE	10.30	96238424	EQSSF3/149ZSB
EQUALINE S 3/1X49W HFI DSB MCE	10.40	96240953	EQSSF3/149DSB
EQUALINE S 3/1X49W HFSI DSB MCE	10.70	96240981	EQSSF3/149DSB
EQUALINE S 3/1X54W HF DSB MCE	8.20	96238425	EQSSF3/154ZSB
EQUALINE S 3/1X54W HFI DSB MCE	8.30	96240956	EQSSF3/154DSB
EQUALINE S 3/1X54W HFSI DSB MCE	8.60	96240587	EQSSF3/154DSB
Equaline System, triple length, surface mounted, MicroPrism technology			
EQUALINE S 3/1X28W HF MPT MCE	9.40	96238643	EQSSF3/128ZMP
EQUALINE S 3/1X28W HFI MPT MCE	9.50	96240949	EQSSF3/128DMP
EQUALINE S 3/1X28W HFSI MPT MCE	9.80	96240976	EQSSF3/128DSMP
EQUALINE S 3/1X35W HF MPT MCE	11.50	96238644	EQSSF3/135ZMP
EQUALINE S 3/1X35W HFI MPT MCE	11.60	96240951	EQSSF3/135DMP
EQUALINE S 3/1X35W HFSI MPT MCE	11.90	96240979	EQSSF3/135DSMP
EQUALINE S 3/1X49W HF MPT MCE	11.50	96238645	EQSSF3/149ZMP
EQUALINE S 3/1X49W HFI MPT MCE	11.60	96240954	EQSSF3/149DMP
EQUALINE S 3/1X49W HFSI MPT MCE	11.90	96240982	EQSSF3/149DSMP
EQUALINE S 3/1X54W HF MPT MCE	9.40	96238646	EQSSF3/154ZMP
EQUALINE S 3/1X54W HFI MPT MCE	9.50	96240957	EQSSF3/154DMP
EQUALINE S 3/1X54W HFSI MPT MCE	9.80	96240984	EQSSF3/154DSMP
Equaline System, triple length, surface mounted, opal polycarbonate			
EQUALINE S 3/1X28W HF OP PC MCE	8.20	96238639	EQSSF3/128ZOP
EQUALINE S 3/1X28W HFI OP PC MCE	8.30	96240529	EQSSF3/128DOP
EQUALINE S 3/1X28W HFSI OP PC MCE	8.60	96240977	EQSSF3/128DSOP
EQUALINE S 3/1X35W HF OP PC MCE	10.30	96238640	EQSSF3/135ZOP
EQUALINE S 3/1X35W HFI OP PC MCE	10.40	96240952	EQSSF3/135DOP
EQUALINE S 3/1X35W HFSI OP PC MCE	10.70	96240980	EQSSF3/135DSOP
EQUALINE S 3/1X49W HF OP PC MCE	10.30	96238641	EQSSF3/149ZOP
EQUALINE S 3/1X49W HFI OP PC MCE	10.40	96240955	EQSSF3/149DOP
EQUALINE S 3/1X49W HFSI OP PC MCE	10.70	96240983	EQSSF3/149DSOP
EQUALINE S 3/1X54W HF OP PC MCE	8.20	96238642	EQSSF3/154ZOP
EQUALINE S 3/1X54W HFI OP PC MCE	8.30	96240958	EQSSF3/154DOP
EQUALINE S 3/1X54W HFSI OP PC MCE	8.60	96240985	EQSSF3/154DSOP



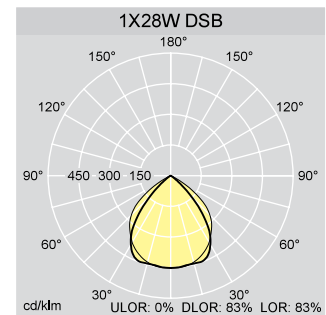
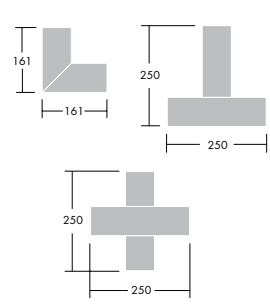
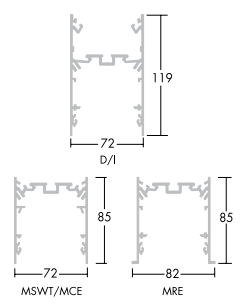
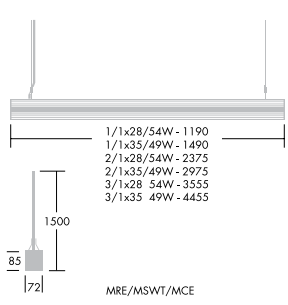
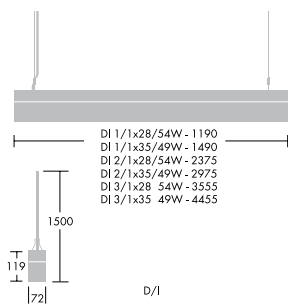
Ordering Guide

Lamp(s) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Equaline System, triple length, recessed, louvre			
EQUALINE S 3/1X28W HF DSB MRE	8.20	96238727	EQSR3/128ZSB
EQUALINE S 3/1X28W HFI DSB MRE	8.30	96240959	EQSR3/128DSB
EQUALINE S 3/1X28W HFSI DSB MRE	8.60	96240986	EQSR3/128DSSB
EQUALINE S 3/1X35W HF DSB MRE	10.30	96238728	EQSR3/135ZSB
EQUALINE S 3/1X35W HFI DSB MRE	10.40	96240961	EQSR3/135DSB
EQUALINE S 3/1X35W HFSI DSB MRE	10.70	96240988	EQSR3/135DSSB
EQUALINE S 3/1X49W HF DSB MRE	10.30	96238729	EQSR3/149ZSB
EQUALINE S 3/1X49W HFI DSB MRE	10.40	96240548	EQSR3/149DSB
EQUALINE S 3/1X49W HFSI DSB MRE	10.70	96240991	EQSR3/149DSSB
EQUALINE S 3/1X54W HF DSB MRE	8.20	96238730	EQSR3/154ZSB
EQUALINE S 3/1X54W HFI DSB MRE	8.30	96240965	EQSR3/154DSB
EQUALINE S 3/1X54W HFSI DSB MRE	8.60	96240994	EQSR3/154DSSB
Equaline System, triple length, recessed, MicroPrism technology			
EQUALINE S 3/1X28W HF MPT MRE	9.40	96238735	EQSR3/128ZMP
EQUALINE S 3/1X28W HFI MPT MRE	9.50	96240960	EQSR3/128DMP
EQUALINE S 3/1X28W HFSI MPT MRE	9.80	96240987	EQSR3/128DSMP
EQUALINE S 3/1X35W HF MPT MRE	11.50	96238736	EQSR3/135ZMP
EQUALINE S 3/1X35W HFI MPT MRE	11.60	96240962	EQSR3/135DMP
EQUALINE S 3/1X35W HFSI MPT MRE	11.90	96240989	EQSR3/135DSMP
EQUALINE S 3/1X49W HF MPT MRE	11.50	96238737	EQSR3/149ZMP
EQUALINE S 3/1X49W HFI MPT MRE	11.60	96240549	EQSR3/149DMP
EQUALINE S 3/1X49W HFSI MPT MRE	11.90	96240992	EQSR3/149DSMP
EQUALINE S 3/1X54W HF MPT MRE	9.40	96238738	EQSR3/154ZMP
EQUALINE S 3/1X54W HFI MPT MRE	9.50	96240966	EQSR3/154DMP
EQUALINE S 3/1X54W HFSI MPT MRE	9.80	96240995	EQSR3/154DSMP
Equaline System, triple length, recessed, opal polycarbonate			
EQUALINE S 3/1X28W HF OP PC MRE	8.20	96238731	EQSR3/128ZOP
EQUALINE S 3/1X28W HFI OP PC MRE	8.30	96240963	EQSR3/128DOP
EQUALINE S 3/1X28W HFSI OP PC MRE	8.60	96240577	EQSR3/128DSOP
EQUALINE S 3/1X35W HF OP PC MRE	10.30	96238732	EQSR3/135ZOP
EQUALINE S 3/1X35W HFI OP PC MRE	10.40	96240538	EQSR3/135DOP
EQUALINE S 3/1X35W HFSI OP PC MRE	10.70	96240990	EQSR3/135DSOP
EQUALINE S 3/1X49W HF OP PC MRE	10.30	96238733	EQSR3/149ZOP
EQUALINE S 3/1X49W HFI OP PC MRE	10.40	96240964	EQSR3/149DOP
EQUALINE S 3/1X49W HFSI OP PC MRE	10.70	96240993	EQSR3/149DSOP
EQUALINE S 3/1X54W HF OP PC MRE	8.20	96238734	EQSR3/154ZOP
EQUALINE S 3/1X54W HFI OP PC MRE	8.30	96240561	EQSR3/154DOP
EQUALINE S 3/1X54W HFSI OP PC MRE	8.60	96240996	EQSR3/154DSOP
Equaline System, triple length, direct/indirect, louvre			
EQUALINE S DI 3/2X28W HF DSB	13.50	96238820	EQSDI3/228ZSB
EQUALINE S DI 3/2X28W HFI DSB	13.60	96241018	EQSDI3/228DSB
EQUALINE S DI 3/2X28W HFSI DSB	13.90	96241030	EQSDI3/228DSSB
EQUALINE S DI 3/2X35W HF DSB	14.70	96238821	EQSDI3/235ZSB
EQUALINE S DI 3/2X35W HFI DSB	14.80	96241021	EQSDI3/235DSB
EQUALINE S DI 3/2X35W HFSI DSB	15.10	96241033	EQSDI3/235DSSB
EQUALINE S DI 3/2X49W HF DSB	14.70	96238822	EQSDI3/249ZSB
EQUALINE S DI 3/2X49W HFI DSB	14.80	96241024	EQSDI3/249DSB
EQUALINE S DI 3/2X49W HFSI DSB	15.10	96241036	EQSDI3/249DSSB
EQUALINE S DI 3/2X54W HF DSB	13.50	96238823	EQSDI3/254ZSB
EQUALINE S DI 3/2X54W HFI DSB	13.60	96241027	EQSDI3/254DSB
EQUALINE S DI 3/2X54W HFSI DSB	13.90	96241039	EQSDI3/254DSSB
Equaline System, triple length, direct/indirect, MicroPrism technology			
EQUALINE S DI 3/2X28W HF MPT	14.70	96238828	EQSDI3/228ZMP
EQUALINE S DI 3/2X28W HFI MPT	14.80	96241019	EQSDI3/228DMP
EQUALINE S DI 3/2X28W HFSI MPT	15.20	96241031	EQSDI3/228DSMP
EQUALINE S DI 3/2X35W HF MPT	15.90	96238829	EQSDI3/235ZMP
EQUALINE S DI 3/2X35W HFI MPT	16.00	96241022	EQSDI3/235DMP
EQUALINE S DI 3/2X35W HFSI MPT	16.30	96241034	EQSDI3/235DSMP
EQUALINE S DI 3/2X49W HF MPT	15.90	96238830	EQSDI3/249ZMP
EQUALINE S DI 3/2X49W HFI MPT	16.00	96241025	EQSDI3/249DMP
EQUALINE S DI 3/2X49W HFSI MPT	16.30	96241037	EQSDI3/249DSMP
EQUALINE S DI 3/2X54W HF MPT	14.70	96238831	EQSDI3/254ZMP
EQUALINE S DI 3/2X54W HFI MPT	14.80	96241028	EQSDI3/254DMP
EQUALINE S DI 3/2X54W HFSI MPT	15.10	96241040	EQSDI3/254DSMP

Description	Wt (kg)	SAP Code	Cat. No.
Equaline System, triple length, direct/indirect, opal polycarbonate			
EQUALINE S DI 3/2X28W HF OP PC	13.50	96238824	EQSDI3/228ZOP
EQUALINE S DI 3/2X28W HFI OP PC	13.60	96241020	EQSDI3/228DOP
EQUALINE S DI 3/2X28W HFSI OP PC	13.90	96241032	EQSDI3/228DSOP
EQUALINE S DI 3/2X35W HF OP PC	14.70	96238825	EQSDI3/235ZOP
EQUALINE S DI 3/2X35W HFI OP PC	14.80	96241023	EQSDI3/235DOP
EQUALINE S DI 3/2X35W HFSI OP PC	15.10	96241035	EQSDI3/235DSOP
EQUALINE S DI 3/2X49W HF OP PC	14.70	96238826	EQSDI3/249ZOP
EQUALINE S DI 3/2X49W HFI OP PC	14.80	96241026	EQSDI3/249DOP
EQUALINE S DI 3/2X49W HFSI OP PC	15.10	96241038	EQSDI3/249DSOP
EQUALINE S DI 3/2X54W HF OP PC	13.50	96238827	EQSDI3/254ZOP
EQUALINE S DI 3/2X54W HFI OP PC	13.60	96241029	EQSDI3/254DOP
EQUALINE S DI 3/2X54W HFSI OP PC	13.90	96241041	EQSDI3/254DSOP
Equaline Accessories, End cap kits			
EQUALINE D/I ECA BRA SINGLE	0.10	96238911	EQDIOPMPEC
EQUALINE D/I ECA SINGLE	0.10	96238910	EQDISBEC
EQUALINE ECA BRA MRE SINGLE	0.05	96238909	EQROPMPPEC
EQUALINE ECA BRA SINGLE	0.05	96238907	EQOPMPEC
EQUALINE ECA MRE SINGLE	0.05	96238908	EQRSBEC
EQUALINE ECA SINGLE	0.05	96238903	EQSBEC
Equaline Accessories, Mounting Kits			
EQUALINE CEILING ROSE KIT ML5C1.5	0.15	96238915	EQCRKIT
EQUALINE MCE PAIR	0.005	96238912	EQSSF
EQUALINE MRS KIT 200MM PAIR	0.22	96238913	EQRS200
EQUALINE MSWT 1500MM PAIR	0.04	96237077	EQS1500
EQUALINE PLASTERBOARD KIT PAIR	0.35	96238914	EQPBKIT
Equaline Accessories, System components			
EQUALINE INFILL PROFILE 1185MM	2.00	96238917	EQIN1185
EQUALINE INFILL PROFILE 1485MM	2.50	96238916	EQIN1485
EQUALINE SPOTLIGHT MODULE 1185MM	3.20	96238918	EQSPOT1185
EQUALINE T-CL	0.52	96237012	EQCL
EQUALINE T-CL D/I	0.64	96238935	EQDCL
EQUALINE T-CL MRE	0.52	96238934	EQRCL
EQUALINE T-CT	0.70	96237013	EQCT
EQUALINE T-CX	0.95	96237014	EQCX
Equaline Accessories, Electrical components			
EQUALINE D/I FEED-IN BLOCK	0.50	96239129	EQDIFEEED
EQUALINE FEED-IN BLOCK	0.33	96238092	EQFEEED
EQUALINE MRE FEED-IN BLOCK	0.40	96239130	EQRFEEED
TRANSPARENT ML3C1.5	0.07	96238920	EQML3C
TRANSPARENT ML5C1.5	0.10	96238921	EQML5C
Equaline Accessories, Sensa accessories			
SENSA SENP	0.05	96004189	S3DIRPT
SENSA SENRC	0.11	96004175	S3IRRH
Equaline Accessories, Emergency LED modules			
EQUALINE S DI EMERGENCY UNIT	1.80	96239450	EQDIE
EQUALINE S EMERGENCY UNIT MCE/MSWT	1.40	96238873	EQSSF
EQUALINE S EMERGENCY UNIT MRE	1.80	96240274	EQRE

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NEW

Planor LED



www.thornlighting.co.uk/PLNL

Edgelit LED version of the slim and elegant Planor design, with a stunning transparent direct/indirect optic



- Side-lit transparent light guide optic with no visible light source subtly integrates into minimalist office designs
- Low voltage side-mounted LED technology delivers superior efficacy (>75lm/W and >80lm/W) with a comfortable view
- 60/40 balance of downlight/uplight creates an uplifting environment with effective illumination of all surfaces and people
- Wall mounted version also available for LED accent lighting with a co-ordinated aesthetic

See Wall and Ceiling decorative luminaires section

Materials/Finish

Suspended:

Frame: extruded aluminium, powder coated silver-grey (close to RAL 9006/9007)

Brackets: aluminium anodised in natural colour

Light guide optic: acrylic

Top cover: clear polycarbonate

Installation/Mounting

Suspended mounting only, with adjustable wire suspension kit (2m Quicklock) included. Fitting is supplied with 3m non-halogen cable
Electrical connection via 5 way terminal block for 5x2.5mm² cable (HFI)

Specification

To specify state:

Suspended slim LED luminaire with aluminium frame and transparent edgelit light guide optic for direct/indirect lighting.

As Thorn Planor LED.



Unlit - optic is transparent



Lit - optic comes to life



Lamps

LED 32-65W

Standards

CE EN 60598 IP20 IK06 T_a 0 +25 750°C

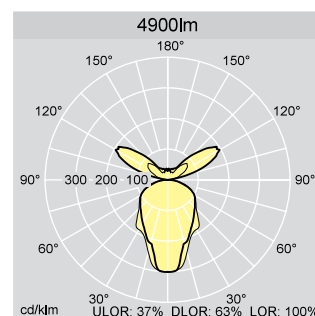
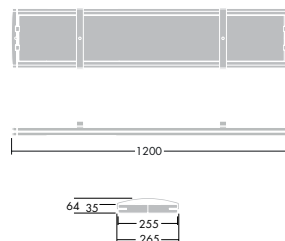


Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Planor LED Suspended			
PLANOR LED 2600 HFIX L840	6.00	96210314	PN2650X
PLANOR LED 4900 HFIX L840	6.00	96210207	PN4900X

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Planor Suspended



www.thornlighting.co.uk/PLNI

Strikingly slim and elegant T16 (T5) fluorescent suspended luminaires to compliment the minimalist office design.



- High-tech slimline design only 35mm deep creates a minimalist look for modern architecture
- Micro prism technology optic version for a crisp modern aesthetic and advanced lighting performance
- Designed for optimal visual comfort. UGR<13
- Balance of uplight/downlight 60/40% ensures an uplifting lit environment with effective illumination of tasks and people

Materials/Finish

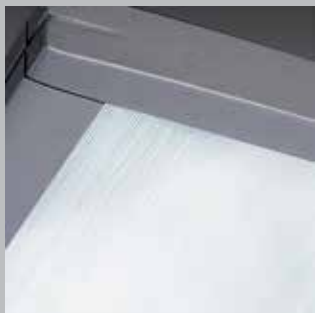
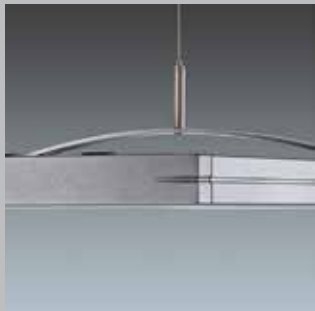
Frame: extruded aluminium, powder coated silver-grey (close to RAL 9006/9007), other colours to order.
Brackets: aluminium anodised in natural colour
Refractors, controllers: clear acrylic.
Top cover: clear acrylic.
Reflectors: aluminium.

Installation/Mounting

For suspension mounting only, adjustable wire suspension kit (2m Quicklock) included, Lock Set also required (to be ordered separately). Fitting is supplied with 3m non-halogen cable.

Specification

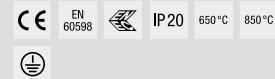
To specify state:
Suspended ultraslim luminaire with aluminium frame and MPT or prism control lighting system for T16 lamps.
For emergency versions please specify E3 for manual testing or E3TX for Selftest/Addressable test.
As Thorn Planor Suspended.



Lamps

T5 (FDH) G5 21-54W

Standards

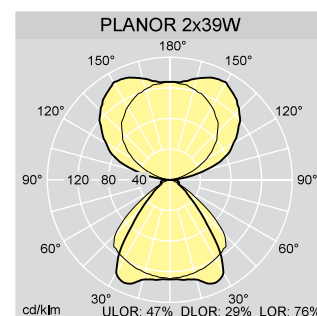
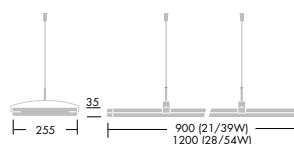


Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Planor Suspended			
PLANOR 2X21W T16 HF L840	5.00	96547698	PN221Z
PLANOR 2X28W T16 HF L840	6.00	96547699	PN228Z
PLANOR 2X39W T16 HF L840	5.00	96547702	PN239Z
PLANOR 2X54W T16 HF SIL L840	6.00	96547704	PN254Z
PLANOR 2X54W T16 HFI L840	6.50	96550456	PN254D
Planor Suspended MicroPrism Technology			
PLANOR 2X21W HF MPT L840	5.00	96206276	PN221ZMP
PLANOR 2X28W HF MPT L840	6.00	96206278	PN228ZMP
PLANOR 2X28W HFI MPT L840	6.00	96209727	PN228DMP
PLANOR 2X28W HFSI MPT L840	6.00	96209733	PN228DSMP
PLANOR 2X39W HF MPT L840	5.00	96206277	PN239ZMP
PLANOR 2X39W HFI MPT L840	5.00	96209737	PN239DMP
PLANOR 2X39W HFSI MPT L840	5.00	96209743	PN239DSMP
PLANOR 2X54W HF MPT L840	6.00	96206279	PN254ZMP
PLANOR 2X54W HFI MPT L840	6.00	96209748	PN254DMP
PLANOR 2X54W HFSI MPT L840	6.00	96209754	PN254DSMP
Planor Suspended Accessories			
C-BOX 115 GRY	0.50	96004465	OCBOX
LOCK-SET (2 PCE)	0.04	96004393	LKSET2
SENSA SENP	0.05	96004189	S3DIRPT
SENSA SENRC	0.11	96004175	S3IRHH

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Planor Surface



www.thornlighting.co.uk/PLND

Elegant and minimalist surface mounted T16 (T5) luminaires



Lamps

T5 (FDH) G5 14-54W

Standards



- Shallow Modular (S) or linear (C) design both only 55mm deep
- Minimalist look for modern architecture
- Spills light onto the ceiling to create a halo effect
- Prism control diffuser optics create uniform luminance

Materials/Finish

Frame: extruded aluminium, powder coated silver-grey (close to RAL 9006/9007)

Brackets: aluminium anodised in natural colour (Planor C only).
Refractors, controllers: clear acrylic; emergency in polycarbonate.
Top cover: opal acrylic.
Reflectors: anodised aluminium.

Installation/Mounting

Planor C: Fix brackets to ceiling and clip the luminaire into the brackets.
Planor S: Removal of centre plate gives access to 3 way terminal block for 3 x 2.5mm² cable on standard versions and 5 way terminal block for 5 x 2.5mm² cable on dimmable versions. Fixes via keyholes at 340mm fixing centres.

Specification

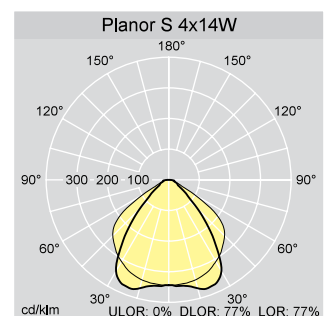
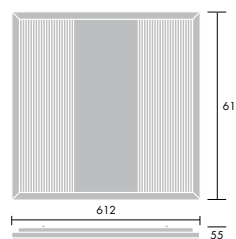
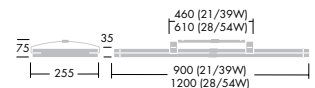
To specify state:
Surface mounted ultraslim luminaire with aluminium frame and prism control lighting system for T16 lamps with a choice of linear (C) or modular (S) shape.
As Thorn Planor Surface.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Planor Surface			
PLANOR C 2X21W T16 HF L840	5.00	96547706	PNC221Z
PLANOR C 2X28W T16 HF L840	6.00	96547707	PNC228Z
PLANOR C 2X28W T16 HFI L840	5.80	96550457	PNC228D
PLANOR C 2X39W T16 HF SIL L840	5.00	96547709	PNC239Z
PLANOR C 2X39W T16 HFI L840	5.50	96550458	PNC239D
PLANOR C 2X54W T16 HF SIL L840	6.00	96547711	PNC254Z
PLANOR C 2X54W T16 HFI L840	6.50	96550459	PNC254D
Planor Surface Square			
PLANOR S 4X14W T16 HF TTM L840	8.00	96547727	PNS414Z
PLANOR S 4X14W T16 HF E3 L840	8.50	96547728	PNS414ZE
PLANOR S 4X24W T16 HF SIL L840	8.00	96547729	PNS424Z
PLANOR S 4X24W T16 HF E3 L840	8.50	96547730	PNS424ZE
PLANOR S 4X24W T16 HFI SIL L840	8.00	96550464	PNS424D

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Planor XL



www.thornlighting.co.uk/PLXL

The largest member of the Planor family offers a futuristic, floating appearance



Lamps

T5 (FDH) G5 28-54W

Standards



- Suspended mounting creates an ultra modern work environment
- High lumen package for excellent lighting performance
- Unique minimalist design with slim profile for modern office architecture
- Prism control diffuser optics create uniform luminance

Materials/Finish

Frame: aluminium profiles, powder coated in silver-grey (close to RAL 9006/9007).

Refractors: clear acrylic.

Top cover: clear polycarbonate.

Installation/Mounting

Suitable for suspension mounting only. 5m PVC free cable 5 x 0,75mm² and 2 x 2 x 2,5mm² terminal block plus earth terminal. Suspended with quick-lock wire suspension 4 x 3m (included).

Specification

To specify state:

Large, suspended, ultraslim luminaire for T16 linear fluorescent lamps with aluminium profiles and prism-control lighting system.

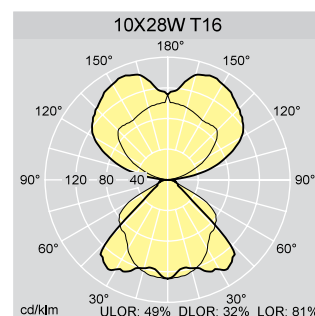
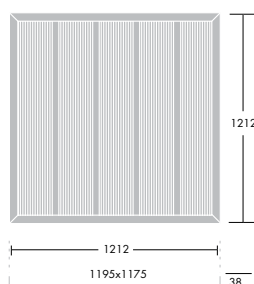
As Thorn Planor XL

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Planor XL			
PLANOR XL 10X28W HFI L840	23.90	96550466	PNXL1028D
PLANOR XL 10X54W HFI TTM-1-TX L840	24.10	96550467	PNXL1054D

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Arena Symphony



www.thornlighting.co.uk/ARNS

Tailor made suspended architectural service raft incorporating fluorescent direct/indirect luminaire designed to comply with BB93 standards



- Slim profile acoustic panel design, suspended below ceiling, minimises sound reverberation within the space, making it suitable for standard secondary classrooms without additional sound absorption baffles to the walls or ceilings
- The sophisticated optical design provides efficient light output (>77%) with glare control within suitable limits for modern classrooms and display screens
- Available in 2200mm length by 850mm wide, with 600mm and 1000mm wide available to order
- Infill panels of 500mm provide additional spacing or acoustic performance if required. Can also be used for intergration of additional services (e.g. PIR's, PA speakers or fire detection equipment)

Materials/Finish

Body: steel, white (close to RAL 9010) perforated
Louvre: high reflective Satinbrite aluminium
Diffuser: reeded curved polycarbonate

Installation/Mounting

Suspended panels/luminaires are mounted by four point wire suspension (supplied) in continuous line mounting with infill panels where required. Rear of body channels provide cable tray for other services. Luminaires, infill panels and junction modules are pre-wired with plug and socket for quick connection.

Specification

To specify state:
Continuous lighting and services raft including T16 (T5) direct/indirect luminaire in white with performance louvre, asymmetric reflector or diffuser optics and acoustic panels to aid BB93 and EN 12464 compliance. Mounted individually or in continuous lines, fixed output or addressable digitally dimmable control gear with 3 hour manual test or SelfTest/Addressable test emergency function. As Thorn Arena Symphony



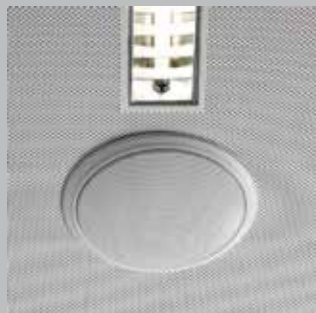
Curved diffuser (EDP)



Satinbrite louvre (DSB)



PIR Sensor



PA speakers



Lamps

T5 (FDH) G5 35-49W

Standards

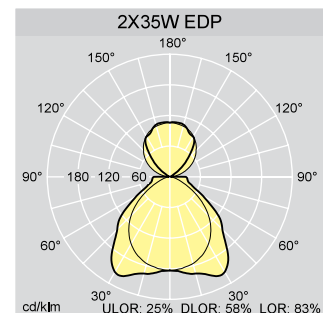
CE EN 60598 IP20 T_a 5⁺ -25 650°C

Ordering Guide

Lamps to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Arena Symphony Satinbrite louvre			
ARENA S T16 1X49 HF WL6 DSB 850	22.00	96239258	AS149ZSB
ARENA S T16 2X35 HF WL6 DSB 850	22.00	96239259	AS235ZSB
Arena Symphony Louvre, emergency			
ARENA S T16 1X49 HF E3 WL6 DSB 850	23.00	96239282	AS149ZESB
ARENA S T16 2X35 HF E3 WL6 DSB 850	23.00	96239283	AS235ZESB
Arena Symphony Louvre, dimmable			
ARENA S T16 1X49 HFI WL6 DSB 850	12.50	96549618	AS149DSB
ARENA S T16 2X35 HFI WL6 DSB 850	12.50	96549641	AS235DSB
Arena Symphony Louvre, dimmable, emergency			
ARENA S T16 1X49 HFI E3 WL6 DSB 850	12.20	96549616	AS149DES B
ARENA S T16 2X35 HFI E3 WL6 DSB 850	12.08	96549639	AS235DES B
Arena Symphony Diffuser			
ARENA S T16 1X49 HF WL6 EDP PC 850	22.00	96239262	AS149ZPC
ARENA S T16 2X35 HF WL6 EDP PC 850	22.00	96239263	AS235ZPC
Arena Symphony Diffuser, emergency			
ARENA S T16 1X49 HF E3 WL6 EDP PC 850	23.00	96239284	AS149ZEP C
ARENA S T16 2X35 HF E3 WL6 EDP PC 850	23.00	96239285	AS235ZEP C
Arena Symphony Diffuser, dimmable			
ARENA S T16 1X49 HFI WL6 EDP PC 850	23.00	96549619	AS149DPC
ARENA S T16 2X35 HFI WL6 EDP PC 850	23.00	96549642	AS235DPC
Arena Symphony Diffuser, dimmable, emergency			
ARENA S T16 1X49 HFI E3 WL6 EDP PC 850	23.00	96549617	AS149DEPC
ARENA S T16 2X35 HFI E3 WL6 EDP PC 850	23.00	96549640	AS235DEPC
Arena Symphony Infill panel			
ARENA S T16 INFILL 850	13.00	96239290	ASIN850
Arena Symphony Accessories			
JUPITER 2 SINGLE LAMP 35/49/80 RPR KIT	0.05	96233746	JU35/49/80RPR

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Line XS



www.thornlighting.co.uk/LIXS

A series of ultra slim, oval shaped T16 (T5) luminaires for suspended mounting, complements the range of Line XS products



- Perforated side with a choice of blue or opal colour insert
- Ultra slim body, only 52mm deep
- Ideal for office, conference and education environments
- Choice of three lighting distributions: uplight only or indirect/direct louvre and diffuser

Materials/Finish

Body and end cap: steel, powder coated white or textured grey.
 Louvre: anodised aluminium.
 Diffuser: acrylic.
 Uplight: steel, powder coated white or textured grey.

Installation/Mounting

Direct/Indirect luminaires supplied with 2.6m white or grey (for white and grey bodied luminaires respectively) non-halogen 3 x 0.75mm² cable (5 x 0.75mm² for digital dimming versions). Suspended via Quicklock wire suspension kit supplied (fastening kits available for fixing wire to ceiling - ceiling kit 96193244). Variable mounting distance between wires: 21W (600-800mm), 28W (600-1100mm) and 35W (600-1200mm). Through wiring for continuous lines possible. Through wiring kit required for Uplight versions. Electrical connection: 3 x 2.5mm² piano key terminal block. Continuous line mounting: straightforward, using couplers already installed in the luminaire body.

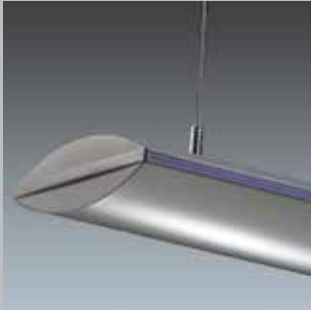
Specification

To specify state:
 Ultra slim, oval shaped, suspended/continuous mounting T16 (T5) luminaire, in white or textured grey, with HF/digital dimming/control gear, blue/opal edging and uplight/louvre/diffuser optics.
 As Thorn Line XS.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Line XS Tech			
LINE XS TECH 2X21W GRY PF/BLU L840	2.30	96548405	LIT221ZOPGBL
LINE XS TECH 2X21W GRY PF/OP L840	2.30	96548406	LIT221ZOPGOP
LINE XS TECH 2X21W WHI PF/BLU L840	2.30	96548407	LIT221ZOPWBL
LINE XS TECH 2X21W WHI PF/OP L840	2.30	96548408	LIT221ZOPWOP
LINE XS TECH 2X28W GRY PF/BLU L840	3.10	96548962	LIT228ZOPGBL
LINE XS TECH 2X28W GRY PF/OP L840	3.10	96548409	LIT228ZOPGOP
LINE XS TECH 2X28W WHI PF/BLU L840	3.10	96548961	LIT228ZOPWBL
LINE XS TECH 2X28W WHI PF/OP L840	3.10	96547741	LIT228ZOPWOP
LINE XS TECH 2X35W GRY PF/BLU L840	3.90	96547742	LIT235ZOPGBL
LINE XS TECH 2X35W GRY PF/OP L840	3.90	96547743	LIT235ZOPGOP
LINE XS TECH 2X35W WHI PF/BLU L840	3.90	96547756	LIT235ZOPWBL
LINE XS TECH 2X35W WHI PF/OP L840	3.90	96547757	LIT235ZOPWOP
Line XS Tech, dimmable			
LINE XS TECH 2X28W HFI GRY PF/BLU L840	3.40	96209424	LIT228DOPGBL
LINE XS TECH 2X28W HFI GRY PF/OP L840	3.40	96209426	LIT228DOPGOP
LINE XS TECH 2X28W HFI WHI PF/BLU L840		96209436	LIT228DOPWBL
LINE XS TECH 2X28W HFI WHI PF/OP L840	2.50	96209438	LIT228DOPWOP
LINE XS TECH 2X35W HFI GRY PF/BLU L840	3.70	96209440	LIT235DOPGBL
LINE XS TECH 2X35W HFI GRY PF/OP L840	3.70	96209442	LIT235DOPGOP
LINE XS TECH 2X35W HFI WHI PF/BLU L840	3.40	96209452	LIT235DOPWBL
LINE XS TECH 2X35W HFI WHI PF/OP L840	3.70	96209454	LIT235DOPWOP
Line XS Tech, emergency			
LINE XS TECH 2X28W E3 GRY PF/BLU L840	3.60	96547793	LIT228ZEOPGBL
LINE XS TECH 2X28W E3 GRY PF/OP L840	3.90	96547794	LIT228ZEOPGOP
LINE XS TECH 2X28W E3 WHI PF/OP L840	3.90	96547795	LIT228ZEOPWOP
LINE XS TECH 2X28W WHI PF/BLU E3 L840	3.60	96547800	LIT228ZLWGBL
LINE XS TECH 2X35W E3 GRY PF/BLU L840	4.40	96547801	LIT235ZEOPGBL
LINE XS TECH 2X35W E3 GRY PF/OP L840	4.40	96547802	LIT235ZEOPGOP
LINE XS TECH 2X35W E3 WHI PF/BLU L840	4.40	96547803	LIT235ZLWGBL
LINE XS TECH 2X35W E3 WHI PF/OP L840	4.40	96547804	LIT235ZLWOP
Line XS Tech LG3			
LINE XS TECH 2X28W LG3 GRY PF/BLU L840	4.00	96547737	LIT228ZLVGBL
LINE XS TECH 2X28W LG3 GRY PF/OP L840	4.00	96547738	LIT228ZLVGOP
LINE XS TECH 2X28W LG3 WHI PF/BLU L840	4.00	96547739	LIT228ZLVWBL
LINE XS TECH 2X28W LG3 WHI PF/OP L840	4.00	96547740	LIT228ZLVWOP
LINE XS TECH 2X35W LG3 GRY PF/BLU L840	3.80	96547752	LIT235ZLVGBL
LINE XS TECH 2X35W LG3 GRY PF/OP L840	3.80	96547753	LIT235ZLVGOP
LINE XS TECH 2X35W LG3 WHI PF/BLU L840	3.80	96547754	LIT235ZLVWBL
LINE XS TECH 2X35W LG3 WHI PF/OP L840	3.80	96547755	LIT235ZLVWOP



Lamps

T5 (FDH) G5 21-35W

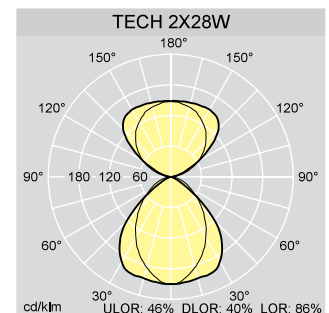
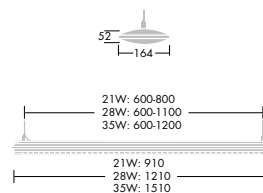
Standards



Description	Wt (kg)	SAP Code	Cat. No.
Line XS Tech LG3, dimmable			
LINE XS TECH 2X28 HFI LG3 GRY PF/BL L840	4.15	96209427	LIT228DLVGBl
LINE XS TECH 2X28W HFI LG3 GRY PF/OP L84	4.15	96209428	LIT228DLVGOP
LINE XS TECH 2X28W HFI LG3 WHI PF/BL L840	4.15	96209429	LIT228DLVWBl
LINE XS TECH 2X28W HFI LG3 WHI PF/OP L84	4.15	96209430	LIT228DLVWOP
LINE XS TECH 2X35W HFILG3 GRY PF/BL L840	3.80	96209455	LIT235DLVGBl
LINE XS TECH 2X35W HFILG3 GRY PF/OP L840	3.80	96209456	LIT235DLVGOP
LINE XS TECH 2X35W HFILG3 WHI PF/BL L840	3.80	96209457	LIT235DLVWBl
LINE XS TECH 2X35W HFILG3 WHI PF/OP L840	3.80	96209458	LIT235DLVWOP
Line XS Tech LG3, emergency			
LINE XS TECH 2X28W LG3 E3 GRY PF/BL L840	3.60	96547796	LIT228ZELVGBL
LINE XS TECH 2X28W LG3 E3 GRY PF/OP L840	3.60	96547797	LIT228ZELVGOP
LINE XS TECH 2X28W LG3 E3 WHI PF/BL L840	3.60	96547798	LIT228ZELVWBL
LINE XS TECH 2X28W LG3 E3 WHI PF/OP L840	3.60	96547799	LIT228ZELVWOP
LINE XS TECH 2X35W LG3 E3 GRY PF/BL L840	4.40	96547805	LIT235ZELVGBL
LINE XS TECH 2X35W LG3 E3 GRY PF/OP L840	4.40	96547806	LIT235ZELVGOP
LINE XS TECH 2X35W LG3 E3 WHI PF/BL L840	4.40	96547807	LIT235ZELVWBL
LINE XS TECH 2X35W LG3 E3 WHI PF/OP L840	4.40	96547808	LIT235ZELVWOP
Line XS Uplight			
LINE XS UP 2X21W GRY PF/BLU L840	2.30	96547758	LIU221ZOPGBL
LINE XS UP 2X21W GRY PF/OP L840	2.30	96547759	LIU221ZOPGOP
LINE XS UP 2X21W WHI PF/BLU L840	2.30	96547760	LIU221ZOPWBL
LINE XS UP 2X21W WHI PF/OP L840	2.30	96547761	LIU221ZOPWOP
LINE XS UP 2X28W GRY PF/BLU L840	3.10	96547762	LIU228ZOPGBL
LINE XS UP 2X28W GRY PF/OP L840	3.10	96547763	LIU228ZOPGOP
LINE XS UP 2X28W WHI PF/BLU L840	3.10	96547764	LIU228ZOPWBL
LINE XS UP 2X28W WHI PF/OP L840	3.10	96547765	LIU228ZOPWOP
LINE XS UP 2X35W GRY PF/BLU L840	3.90	96547766	LIU235ZOPGBL
LINE XS UP 2X35W GRY PF/OP L840	3.90	96547767	LIU235ZOPGOP
LINE XS UP 2X35W WHI PF/BLU L840	3.90	96547768	LIU235ZOPWBL
LINE XS UP 2X35W WHI PF/OP L840	3.90	96547769	LIU235ZOPWOP
Line XS Soft			
LINE XS SOFT 2X28W GRY PF/BLU L840	2.90	96548390	LIS228ZOPGBL
LINE XS SOFT 2X28W GRY PF/OP L840	2.90	96548391	LIS228ZOPGOP
LINE XS SOFT 2X28W WHI PF/BLU L840	2.90	96548396	LIS228ZOPWBL
LINE XS SOFT 2X28W WHI PF/OP L840	2.90	96548397	LIS228ZOPWOP
LINE XS SOFT 2X35W GRY PF/BLU L840	3.70	96548398	LIS235ZOPGBL
LINE XS SOFT 2X35W GRY PF/OP L840	3.70	96548399	LIS235ZOPGOP
LINE XS SOFT 2X35W WHI PF/BLU L840	3.70	96548403	LIS235ZOPWBL
LINE XS SOFT 2X35W WHI PF/OP L840	3.70	96548404	LIS235ZOPWOP

Description	Wt (kg)	SAP Code	Cat. No.
Line XS Attachments			
LINE XS DUSTCOVER 21W AC	0.09	96100020	LI21ACDC
LINE XS DUSTCOVER 21W OP	0.09	96210693	LI21OPDC
LINE XS DUSTCOVER 28/54W AC	0.10	96100021	LI28/54ACDC
LINE XS DUSTCOVER 28/54W OP	0.28	96210694	LI28/54OPDC
LINE XS DUSTCOVER 35/49W AC	0.14	96100022	LI35/49ACDC
LINE XS DUSTCOVER 35/49W OP	0.35	96210695	LI35/49OPDC
Line XS Accessories			
LINE XS BLIND 1200MM GRY	2.90	96100053	LIB1200G
LINE XS BLIND 1200MM WHI	2.90	96100052	LIB1200W
LINE XS BLIND 1500MM GRY	3.60	96100055	LIB1500G
LINE XS BLIND 1500MM WHI	3.60	96100054	LIB1500W
LINE XS BLIND 900MM GRY	2.30	96100051	LIB900G
LINE XS BLIND 900MM WHI	2.30	96100050	LIB900W
LINE XS PENDANT ROD KIT 150MM	0.60	96194205	LIPPRK
LINE XS UPLIGHT THROUGH WIRING KIT	0.03	96100057	LIUTWK

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Line XS

Circular



www.thornlighting.co.uk/LIXC

Striking round pendant luminaire for soft indirect lighting



Lamps

TC-TEL (FSM) GX24q-4 32-42W

Standards



- Decorative pendant design completes the Line XS family, offering an alternative to the classic linear shape
- High lumen package using the 4 x 42W compact fluorescent lamp option
- Distinct Line XS perforated body with blue insert
- Excellent glare control with 100% uplight

Materials/Finish

Body: spun aluminium, textured grey (close to RAL 9006/9007) or matt white (close to RAL 9016).

Ceiling plate: steel, textured grey or white finish.

Installation/Mounting

Fixed output versions have 3 x 2 x 2.5mm² and digital dimmable versions (HFI) have 5 x 2 x 2.5mm² piano key terminal block in the ceiling plate. Fitting is pre-wired between body and ceiling plate via 0.7m non-halogen white or grey cable, 3 x 0.75mm² (fixed output) or 5 x 0.75mm² (dimmable). Ceiling plate and quick-lock wire suspension included for easy mounting.

Specification

To specify state:

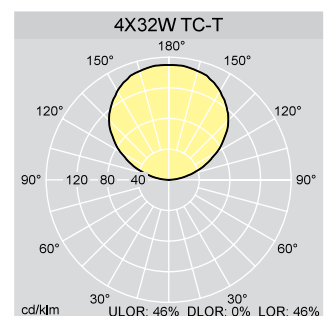
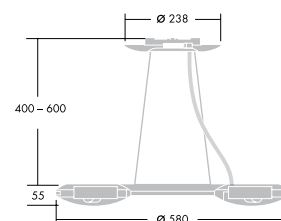
Striking circular pendant luminaire with perforated sides for 32/42W TC-TEL compact fluorescent lamps. As Thorn Line XS Circular.

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Line XS Circular			
LINE XS CIRC 4X32/42W TCT GRY PF/BL L840	3.50	96547782	LIC432ZOPGBL
LINE XS CIRC 4X32/42W TCT WHI PF/BL L840	3.50	96547783	LIC432ZOPWBL
LINE XS CIRC 4X42W TCT HFI WH PF/BL L840	3.70	96209408	LIC442DOPWBL

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Optus IV

Suspended



www.thornlighting.co.uk/OP4I

Low profile, suspended T16 (T5) fluorescent luminaire for direct/indirect illumination



- Clean simple lines and a choice of white or grey painted finish allows unobtrusive architectural integration
- Can be suspended individually or in continuous lines without additional accessories
- 90-270° junction box permits wide ranging configuration permutations

Materials/Finish

Body: extruded aluminium, brushed aluminium finish or powder coated, titan grey (close to RAL 9006/9007) or matt white (close to RAL 9016)
End caps: die-cast zinc powder coated, titan grey or matt white
Louvre: anodised aluminium.

Installation/Mounting

Fixed output versions and versions with internal dimming (HFI/HFSI) delivered with 2.6m 3x0.75mm² non halogen cable. Dimmable version for external control (HFI) delivered with 5x0.75mm² non halogen cable. Pre-mounted Quick Lock wire suspension kit included. Optional suspension rods available.

Specification

To specify state:
Suspended aluminium luminaire for 28-54W T16 lamps with metal end caps and balanced light ratio of 60:40 Direct/Indirect. For emergency versions please specify E3 for manual testing or E3TX for Selftest/Addressable test.
As Thorn Optus IV Suspended.

**Lamps**
 T5 (FDH) G5 28-54W
Standards**Ordering Guide**

Supplied complete with lamp(s). Suspension wire kit included.

Description	Wt (kg)	SAP Code	Cat. No.
Direct/Indirect - Satinbrite			
OPTUS IV DI 1X28W HF GRY DSB ML L840	2.60	96547842	OPDI128ZSBG
OPTUS IV DI 1X28W HF WHI DSB ML L840	2.60	96547844	OPDI128ZSBW
OPTUS IV DI 1X35W HF ALP DSB ML L840	3.20	96548334	OPDI135ZSBAL
OPTUS IV DI 1X35W HF GRY DSB ML L840	3.20	96547848	OPDI135ZSBG
OPTUS IV DI 1X35W HF WHI DSB ML L840	3.20	96547850	OPDI135ZSBW
OPTUS IV DI 1X49W HF GRY DSB ML L840	3.20	96547854	OPDI149ZSBG
OPTUS IV DI 1X49W HF WHI DSB ML L840	3.20	96547856	OPDI149ZSBW
OPTUS IV DI 1X54W HF GRY DSB ML L840	2.60	96547860	OPDI154ZSBG
OPTUS IV DI 1X54W HF WHI DSB ML L840	2.60	96547862	OPDI154ZSBW
OPTUS IV DI 2X28W HF ALP DSB ML L840	3.20	96548347	OPDI228ZSBAL
OPTUS IV DI 2X28W HF GRY DSB ML L840	2.60	96548348	OPDI228ZSBG
OPTUS IV DI 2X28W HF WHI DSB ML L840	2.60	96548349	OPDI228ZSBW
OPTUS IV DI 2X35W HF ALP DSB ML L840	3.20	96547811	OPDI235ZSBAL
OPTUS IV DI 2X35W HF GRY DSB ML L840	3.20	96547812	OPDI235ZSBG
OPTUS IV DI 2X35W HF WHI DSB ML L840	3.20	96547813	OPDI235ZSBW
OPTUS IV DI 2X49W HF GRY DSB ML L840	2.60	96547818	OPDI249ZSBG
OPTUS IV DI 2X49W HF WHI DSB ML L840	3.20	96547879	OPDI249ZSBW
OPTUS IV DI 2X54W HF GRY DSB ML L840	2.60	96547883	OPDI254ZSBG
OPTUS IV DI 2X54W HF WHI DSB ML L840	2.60	96547885	OPDI254ZSBW
Direct/Indirect Emergency - Satinbrite			
OPTUS IV DI 1X35W HF GRY DSB E3 L840	3.20	96548379	OPDI135ZESBG
OPTUS IV DI 2X35W HF GRY DSB E3 L840	3.20	96548382	OPDI235ZESBG
OPTUS IV DI 2X49W HF GRY DSB E3 L840	3.20	96548384	OPDI249ZESBG

Description	Wt (kg)	SAP Code	Cat. No.
Direct/Indirect dimmable - Satinbrite			
OPTUS IV DI 1X28W HFI ALP DSB ML L840	2.60	96209579	OPDI128DSBAL
OPTUS IV DI 1X28W HFI GRY DSB ML L840	2.60	96209580	OPDI128DSBG
OPTUS IV DI 1X28W HFI WHI DSB ML L840	2.60	96209583	OPDI128DSBW
OPTUS IV DI 1X35W HFI ALP DSB ML L840	3.00	96209593	OPDI135DSBAL
OPTUS IV DI 1X35W HFI GRY DSB ML L840	3.30	96209595	OPDI135DSBG
OPTUS IV DI 1X35W HFI WHI DSB ML L840	3.20	96209597	OPDI135DSBW
OPTUS IV DI 1X49W HFI GRY DSB ML L840	3.20	96209608	OPDI149DSBG
OPTUS IV DI 1X49W HFI WHI DSB ML L840	3.10	96209610	OPDI149DSBW
OPTUS IV DI 1X54W HFI GRY DSB ML L840	2.60	96209616	OPDI154DSBG
OPTUS IV DI 1X54W HFI WHI DSB ML L840	2.60	96209618	OPDI154DSBW
OPTUS IV DI 2X28W HFI ALP DSB ML L840	2.60	96209626	OPDI228DSBAL
OPTUS IV DI 2X28W HFI GRY DSB ML L840	2.60	96209628	OPDI228DSBG
OPTUS IV DI 2X28W HFI WHI DSB ML L840	2.50	96209630	OPDI228DSBW
OPTUS IV DI 2X35W HFI ALP DSB ML L840	3.20	96209641	OPDI235DSBAL
OPTUS IV DI 2X35W HFI GRY DSB ML L840	3.20	96209644	OPDI235DSBG
OPTUS IV DI 2X35W HFI WHI DSB ML L840	3.10	96209646	OPDI235DSBW
OPTUS IV DI 2X49W HFI GRY DSB ML L840	3.20	96209657	OPDI249DSBG
OPTUS IV DI 2X49W HFI WHI DSB ML L840	3.30	96209659	OPDI249DSBW
OPTUS IV DI 2X54W HFI GRY DSB ML L840	2.60	96209665	OPDI254DSBG
OPTUS IV DI 2X54W HFI WHI DSB ML L840	2.60	96209667	OPDI254DSBW
Direct/Indirect dimmable Emergency - Satinbrite			
OPTUS IV DI 1X28W HFI WHI DSB E3 ML L840	2.60	96209581	OPDI128DESBW

Optus IV

Suspended



www.thornlighting.co.uk/OP4I

Low profile, suspended T16 (T5) fluorescent luminaire for direct/indirect illumination



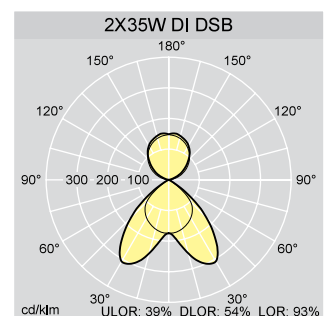
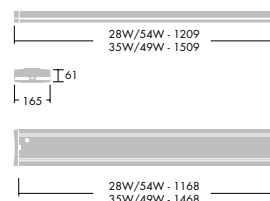
Ordering Guide

Supplied complete with lamp(s). Suspension wire kit included.

Description	Wt (kg)	SAP Code	Cat. No.
Direct/Indirect Sensa dimmable - Satinbrite			
OPTUS IV DI 1X28W HFSI ALP DSB ML L840	2.60	96209585	OPDI128DSSBAL
OPTUS IV DI 1X28W HFSI GRY DSB ML L840	2.60	96209587	OPDI128DSSBG
OPTUS IV DI 1X28W HFSI WHI DSB ML L840	2.60	96209589	OPDI128DSSBW
OPTUS IV DI 1X35W HFSI ALP DSB ML L840	3.00	96209599	OPDI135DSSBAL
OPTUS IV DI 1X35W HFSI GRY DSB ML L840	2.90	96209601	OPDI135DSSBG
OPTUS IV DI 1X35W HFSI WHI DSB ML L840	2.90	96209604	OPDI135DSSBW
OPTUS IV DI 1X35W HFSI WHI DSB E3 ML L84	4.00	96209602	OPDI135DSESBW
OPTUS IV DI 1X49W HFSI GRY DSB ML	2.90	96209611	OPDI149DSSBG
OPTUS IV DI 1X49W HFSI WHI DSB ML	3.00	96209612	OPDI149DSSBW
OPTUS IV DI 1X54W HFSI GRY DSB ML	2.60	96209619	OPDI154DSSBG
OPTUS IV DI 1X54W HFSI WHI DSB ML	2.60	96209620	OPDI154DSSBW
OPTUS IV DI 2X28W HFSI ALP DSB ML L840	2.60	96209632	OPDI228DSSBAL
OPTUS IV DI 2X28W HFSI GRY DSB ML L840	2.60	96209634	OPDI228DSSBG
OPTUS IV DI 2X28W HFSI WHI DSB ML L840	2.50	96209637	OPDI228DSSBW
OPTUS IV DI 2X28W HFSI WHI DSB E3 ML L840	2.60	96209635	OPDI228DSESBW
OPTUS IV DI 2X35W HFSI ALP DSB ML L840	3.20	96209648	OPDI235DSSBAL
OPTUS IV DI 2X35W HFSI GRY DSB ML L840	3.20	96209650	OPDI235DSSBG
OPTUS IV DI 2X35W HFSI WHI DSB ML L840	3.10	96209653	OPDI235DSSBW
OPTUS IV DI 2X35W HFSI WHI DSB E3 ML L84	4.50	96209651	OPDI235DSESBW
OPTUS IV DI 2X49W HFSI GRY DSB ML	3.00	96209660	OPDI249DSSBG
OPTUS IV DI 2X49W HFSI WHI DSB ML	3.00	96209661	OPDI249DSSBW
OPTUS IV DI 2X54W HFSI GRY DSB ML	2.60	96209668	OPDI254DSSBG
OPTUS IV DI 2X54W HFSI WHI DSB ML	2.60	96209669	OPDI254DSSBW

Description	Wt (kg)	SAP Code	Cat. No.
Accessories			
CEILING KIT CANOPY 80X35MM WHI	0.08	96236614	OPCKCW
OPTUS IV INFILL L=1200MM GRY	2.00	96206246	OPING1200
OPTUS IV INFILL L=1200MM WHI	2.00	96206245	OPINW1200
OPTUS IV INFILL L=300MM GRY	0.50	96206240	OPING300
OPTUS IV INFILL L=300MM WHI	0.50	96206239	OPINW300
OPTUS IV INFILL L=600MM GRY	1.00	96206242	OPING600
OPTUS IV INFILL L=600MM WHI	1.00	96206241	OPINW600
OPTUS IV INFILL L=900MM GRY	1.50	96206244	OPING900
OPTUS IV INFILL L=900MM WHI	1.50	96206243	OPINW900
OPTUS IV JUNCTION BOX WHI	0.30	96201673	OPJBW
OPTUS IV JUNCTION BOX GRY	0.30	96201674	OPJBG
OPTUS IV PENDANT ROD KIT 150MM	0.05	96202907	OPPRK150
SENSA SENRC	0.11	96004175	S3IRHH
WIRE SUSPENSION FOR JUNCTION BOX	0.06	96003014	OPWSJB

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Optus IV Surface



www.thornlighting.co.uk/OP4D

Low profile, surface mounted or suspended T16 (T5) fluorescent luminaire for direct illumination



- Clean simple lines and a choice of white or grey painted finish allows unobtrusive architectural integration
- Continuous line installation possible without accessories (not IP23)
- For suspended direct illumination use with optional wire or rod suspension kit
- 90-270° junction box permits wide ranging configuration permutations

Materials/Finish

Body: extruded aluminium, brushed aluminium finish or powder coated, titan grey (close to RAL 9006/9007) or matt white (close to RAL 9016)
End caps: die-cast zinc, powder coated titan grey or matt white
Louvre: Satinbrite anodised aluminium, Mirrorbrite available on request

Installation/Mounting

3/5/8 pole piano key terminal block and cable clamp. Key holes for mounting Optus IV Surface: 28/54W 1000mm, 35/49W 1300mm.

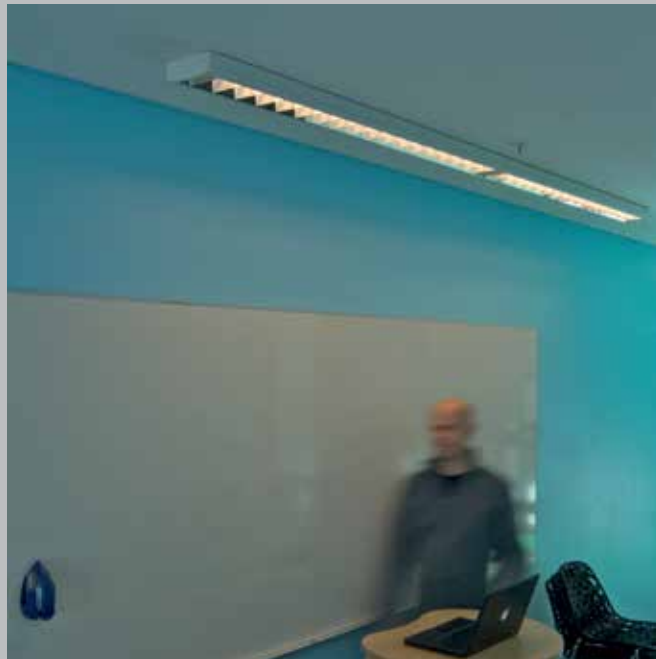
Specification

To specify state:
Surface mounted aluminium luminaire rated to IP23 for 28-54W T16 lamps with metal end caps. For emergency versions please specify E3 for manual testing or E3TX for Selftest/Addressable test.
As Thorn Optus IV IP23 Surface.

Ordering Guide

Lamps to be ordered separately unless otherwise specified.

Description	Wt (kg)	SAP Code	Cat. No.
Surface - Satinbrite			
OPTUS IV D 1X28W HF ALP DSB L840	2.60	96548255	OPD128ZSBAL
OPTUS IV D 1X28W HF GRY DSB L840	2.60	96548257	OPD128ZSBG
OPTUS IV D 1X28W HF WHI DSB L840	2.60	96548259	OPD128ZSBW
OPTUS IV D 1X35W HF ALP DSB L840	3.00	96548271	OPD135ZSBAL
OPTUS IV D 1X35W HF GRY DSB L840	3.00	96548273	OPD135ZSBG
OPTUS IV D 1X35W HF WHI DSB L840	3.00	96548275	OPD135ZSBW
OPTUS IV D 1X49W HF GRY DSB L840	3.00	96548285	OPD149ZSBG
OPTUS IV D 1X49W HF WHI DSB L840	3.00	96548286	OPD149ZSBW
OPTUS IV D 1X54W HF GRY DSB L840	2.60	96548290	OPD154ZSBG
OPTUS IV D 1X54W HF WHI DSB L840	2.60	96548291	OPD154ZSBW
OPTUS IV D 2X28W HF ALP DSB L840	2.60	96548294	OPD228ZSBAL
OPTUS IV D 2X28W HF GRY DSB L840	2.60	96548296	OPD228ZSBG
OPTUS IV D 2X28W HF WHI DSB L840	2.60	96548297	OPD228ZSBW
OPTUS IV D 2X35W HF ALP DSB L840	3.00	96548305	OPD235ZSBAL
OPTUS IV D 2X35W HF GRY DSB L840	3.20	96548307	OPD235ZSBG
OPTUS IV D 2X35W HF WHI DSB L840	2.60	96548308	OPD235ZSBW
OPTUS IV D 2X54W HF GRY DSB L840	2.60	96548322	OPD254ZSBG
OPTUS IV D 2X54W HF WHI DSB L840	2.60	96548323	OPD254ZSBW
Surface dimmable - Satinbrite			
OPTUS IV D 1X28W HFI ALP DSB L840	2.60	96209463	OPD128DSBAL
OPTUS IV D 1X28W HFI GRY DSB L840	2.60	96209466	OPD128DSBG
OPTUS IV D 1X28W HFI WHI DSB L840	2.60	96209471	OPD128DSBW
OPTUS IV D 1X35W HFI GRY DSB L840	3.00	96209479	OPD135DSBG
OPTUS IV D 1X35W HFI ALP DSB L840	3.00	96209482	OPD135DSBAL
OPTUS IV D 1X35W HFI WHI DSB L840	3.00	96209487	OPD135DSBW
OPTUS IV D 1X49W HFI WHI DSB L840	3.00	96209497	OPD149DSBW
OPTUS IV D 1X54W HFI GRY DSB L840	2.60	96209501	OPD154DSBG
OPTUS IV D 1X54W HFI WHI DSB L840	2.60	96209503	OPD154DSBW
OPTUS IV D 2X28W HFI ALP DSB L840	2.60	96209508	OPD228DSBAL
OPTUS IV D 2X28W HFI GRY DSB L840	2.70	96209519	OPD228DSBG
OPTUS IV D 2X28W HFI WHI DSB L840	2.60	96209524	OPD228DSBW
OPTUS IV D 2X35W HFI ALP DSB L840	3.20	96209535	OPD235DSBAL
OPTUS IV D 2X35W HFI GRY DSB L840	3.20	96209542	OPD235DSBG
OPTUS IV D 2X35W HFI WHI DSB L840	3.20	96209547	OPD235DSBW
OPTUS IV D 2X49W HFI GRY DSB L840	3.00	96209558	OPD249DSBG
OPTUS IV D 2X49W HFI WHI DSB L840	3.00	96209561	OPD249DSBW
OPTUS IV D 2X54W HFI GRY DSB L840	2.50	96209567	OPD254DSBG
OPTUS IV D 2X54W HFI WHI DSB L840	2.60	96209570	OPD254DSBW



Lamps

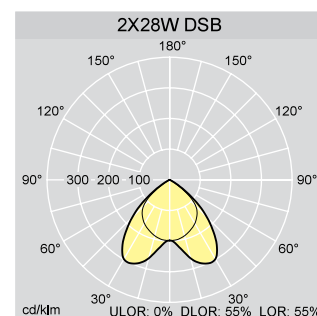
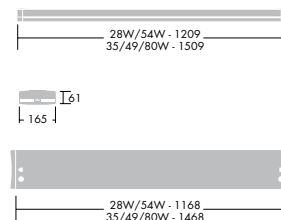
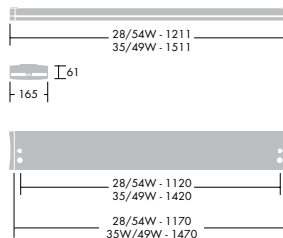
T5 (FDH) G5 28-54W

Standards

CE EN 60598 IP20 IP23 850 °C

Description	Wt (kg)	SAP Code	Cat. No.
Surface Sensa dimmable - Satinbrite			
OPTUS IV D 1X28W HFSI ALP DSB L840	2.60	96209473	OPD128DSSBAL
OPTUS IV D 1X28W HFSI GRY DSB L840	2.60	96209475	OPD128DSSBG
OPTUS IV D 1X28W HFSI WHI DSB L840	2.60	96209477	OPD128DSSBW
OPTUS IV D 1X35W HFSI ALP DSB L840	3.00	96209489	OPD135DSSBAL
OPTUS IV D 1X35W HFSI GRY DSB L840	3.00	96209491	OPD135DSSBG
OPTUS IV D 1X35W HFSI WHI DSB L840	3.00	96209493	OPD135DSSBW
OPTUS IV D 2X28W HFSI ALP DSB L840	2.60	96209526	OPD228DSSBAL
OPTUS IV D 2X28W HFSI GRY DSB L840	2.60	96209529	OPD228DSSBG
OPTUS IV D 2X28W HFSI WHI DSB L840	2.60	96209532	OPD228DSSBW
OPTUS IV D 2X35W HFSI ALP DSB L840	3.20	96209549	OPD235DSSBAL
OPTUS IV D 2X35W HFSI GRY DSB L840	3.20	96209552	OPD235DSSBG
OPTUS IV D 2X35W HFSI WHI DSB L840	3.20	96209555	OPD235DSSBW
OPTUS IV D 2X49W HFSI GRY DSB L840	3.00	96209563	OPD249DSSBG
OPTUS IV D 2X49W HFSI WHI DSB L840	3.00	96209565	OPD249DSSBW
Accessories			
CEILING KIT CANOPY 80X35MM WHI	0.08	96236614	OPCKCW
OPTUS IV INFILL L=1200MM GRY	2.00	96206246	OPING1200
OPTUS IV INFILL L=1200MM WHI	2.00	96206245	OPINW1200
OPTUS IV INFILL L=300MM GRY	0.50	96206240	OPING300
OPTUS IV INFILL L=300MM WHI	0.50	96206239	OPINW300
OPTUS IV INFILL L=600MM GRY	1.00	96206242	OPING600
OPTUS IV INFILL L=600MM WHI	1.00	96206241	OPINW600
OPTUS IV INFILL L=900MM GRY	1.50	96206244	OPING900
OPTUS IV INFILL L=900MM WHI	1.50	96206243	OPINW900
OPTUS IV JUNCTION BOX WHI	0.30	96201673	OPJBW
OPTUS IV JUNCTION BOX GRY	0.30	96201674	OPJBG
SENSA SENRC	0.11	96004175	S3IRHH
WIRE SUSPENSION FOR JUNCTION BOX	0.06	96003014	OPWSJB

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Optus IV Whiteboard



www.thornlighting.co.uk/OP4W

Low profile, T16 (T5) fluorescent luminaire with asymmetric optic for specialist whiteboard illumination



- Common aesthetic design in white or grey painted finish to coordinate with the rest of the Optus range
- Excellent lighting technique (I max >900 cd / 1000 lm) provides high luminance on the whiteboard with no glare
- Use brackets or console kit to achieve the best lighting performance
- Wire suspension or surface mounting also possible with optional accessory (not intended for system mounting)

Materials/Finish

Body: extruded aluminium, powder coated, titan grey (close to RAL9006/9007) or matt white (close to RAL 9016)
End caps: die-cast zinc powder coated, titan grey or matt white
Louvre: anodised aluminium, asymmetric Satinbrite with flat cross lamellas

Installation/Mounting

3/5/8 pole piano key terminal block and cable clamp. Mounting Optus IV Whiteboard, with wall brackets/console kit, one kit per fitting to be ordered separately. Flexible distance 28W C-C 600-1150mm, 35/49W C-C 600-1450mm. To ensure correct mounting place brackets on wall flush with top of whiteboard. Alternative mounting option with wire suspension kit (to be ordered separately) or direct on the ceiling. 28W C-C 1150mm, 35/49W C-C 1450mm.

Specification

To specify state:
Asymmetric aluminium luminaire >900cd/1000lm for 28-49W T16 (T5) lamps with metal end caps.
As Thorn Optus IV Whiteboard.



Whiteboard bracket kit



Suspension kit



Whiteboard console kit

Lamps

T5 (FDH) G5 28-49W

Standards

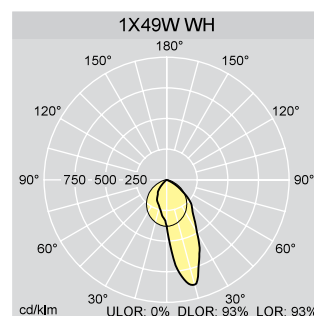
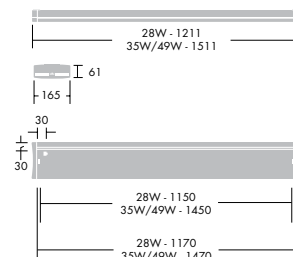


Ordering Guide

Lamps to be ordered separately unless otherwise specified. Wire kit included.

Description	Wt (kg)	SAP Code	Cat. No.
Fixed output			
OPTUS IV WHITEBOARD 1X28W HF GR RAS L840	3.70	96547823	OPWB128ZASG
OPTUS IV WHITEBOARD 1X28W HF WH RAS L840	3.70	96547824	OPWB128ZASW
OPTUS IV WHITEBOARD 1X35W HF GR RAS L840	4.00	96547825	OPWB135ZASG
OPTUS IV WHITEBOARD 1X35W HF WH RAS L840	4.00	96547826	OPWB135ZASW
OPTUS IV WHITEBOARD 1X49W HF GR RAS L840	4.00	96547827	OPWB149ZASG
OPTUS IV WHITEBOARD 1X49W HF WH RAS L840	4.00	96547828	OPWB149ZASW
Accessories			
OPTUS IV WHITEBOARD BRACKET KIT GRY	0.60	96201672	OPWBGBRK
OPTUS IV WHITEBOARD BRACKET KIT WHI	0.60	96201671	OPWBWBRK
OPTUS IV WHITEBOARD CONSOLE KIT GRY	1.20	96207059	OPWBGCON
OPTUS IV WHITEBOARD CONSOLE KIT WHI	1.20	96207060	OPWBWCON

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NEW

Jupiter 3



www.thornlighting.co.uk/JUP3

The practical choice for slim and efficient direct/indirect lighting



- Slim, lightweight luminaire with a simple, practical and robust design
- Maximise energy savings with highly efficient LED (>85lm/W) or T16 (>75lm/W) lamps and integrated control options.
- Meet the recommendations of EN 12464 by adapting lighting to the task environment with surface or suspended, direct or direct indirect, diffuser or louvre optic versions.
- Quick and easy to install and maintain with self-balancing design, retained optic and the option for continuous row mounting

Materials/Finish

Body: sheet steel painted white (close to RAL 9010).
Endcap: moulded in white polycarbonate.
Louvre optic: anodised aluminium.
MPT optic: Microprismatic acrylic diffuser with white painted steel frame and anodised aluminium reflectors

Installation/Mounting

Surface (D): Luminaire fixes to ceiling via keyhole slots at 700mm (1200mm version) or 1000mm (1500mm version) centres. Can also be suspended for direct illumination via optional suspension kit 96241826. Electrical connection via 20.5mm holes at end or centre into piano key terminal blocks. Asymmetric version can also be wall mounted with bracket kit 96241825 (sold separately).
Suspended (DI): Luminaire is self-balancing and suspended via 2 adjustable 1.5m long quick lock single suspension wires (supplied) at 1115mm (1200mm version) and 1415mm (1500mm version) fixing centres. Electrical connection via pre-fitted LSOH white mains cable. All versions are suitable for mounting end to end in continuous rows using corresponding connecting kit for mechanical connection and through wiring kit (sold separately).

Specification

To specify state:
Slim LED or T16 surface direct or suspended self-balancing direct/indirect luminaire in white with double parabolic performance louvre optic, microprismatic diffuser or asymmetric louvre, mounted individually or in continuous lines, with dimmable and emergency versions.
As Thorn Jupiter 3.




Louvre version with optional sensor










Simple continuous row mounting

Lamps

 LED		17-66W
 T16 (FDH)	G5	28-54W

Standard

Ordering Guide

Supplied complete with LEDs and power supply.

Description	Wt (Kg)	SAP Code	Cat. No.
Jupiter Direct/Indirect LED, dimmable			
JUP3 LED DI 2000 HFI MPT L840 144	4.50	96241852	JUDI2000DMP
JUP3 LED DI 3000 HFI MPT L840 144	4.50	96241853	JUDI3000DMP
JUP3 LED DI 4500 HFI MPT L840 219	4.50	96241854	JUDI4500DMP
JUP3 LED DI 5500 HFI MPT L840 219	4.50	96241855	JUDI5500DMP
Jupiter Direct/Indirect LED, dimmable, emergency			
JUP3 LED DI 2000 HFI E3 MPT L840 144	5.40	96241858	JUDI2000DEMP
JUP3 LED DI 3000 HFI E3 MPT L840 144	5.40	96241859	JUDI3000DEMP
JUP3 LED DI 4500 HFI E3 MPT L840 219	5.40	96241860	JUDI4500DEMP
JUP3 LED DI 5500 HFI E3 MPT L840 219	5.40	96241861	JUDI5500DEMP
Jupiter Direct LED, dimmable			
JUP3 LED D 1400 HFI MPT L840 144	4.40	96241844	JUD1400DMP
JUP3 LED D 2200 HFI MPT L840 144	4.40	96241845	JUD2200DMP
JUP3 LED D 2800 HFI MPT L840 219	4.40	96241846	JUD2800DMP
JUP3 LED D 4500 HFI MPT L840 219	4.40	96241847	JUD4500DMP
Jupiter Direct LED, dimmable, emergency			
JUP3 LED D 1400 HFI E3 MPT L840 144	5.30	96241848	JUD1400DEMP
JUP3 LED D 2200 HFI E3 MPT L840 144	5.30	96241849	JUD2200DEMP
JUP3 LED D 2800 HFI E3 MPT L840 219	5.30	96241850	JUD2800DEMP
JUP3 LED D 4500 HFI E3 MPT L840 219	5.30	96241851	JUD4500DEMP
Jupiter Direct/Indirect, diffuser			
JUP3 DI 1X28W T16 HF MPT WHI L840	3.80	96550891	JUDI128ZMP
JUP3 DI 1X35W T16 HF MPT WHI L840	3.96	96550892	JUDI135ZMP
JUP3 DI 1X49W T16 HF MPT WHI L840	3.96	96550893	JUDI149ZMP
JUP3 DI 2X28W T16 HF MPT WHI L840	4.30	96550905	JUDI228ZMP
JUP3 DI 2X35W T16 HF MPT WHI L840	4.58	96550906	JUDI235ZMP
JUP3 DI 2X49W T16 HF MPT WHI L840	4.58	96550907	JUDI249ZMP
Jupiter Direct/Indirect, diffuser, emergency			
JUP3 DI 1X28W T16 HF E3 MPT WHI L840	4.74	96550898	JUDI128ZEMP
JUP3 DI 1X35W T16 HF E3 MPT WHI L840	4.90	96550899	JUDI135ZEMP
JUP3 DI 1X49W T16 HF E3 MPT WHI L840	4.90	96550900	JUDI149ZEMP
JUP3 DI 2X28W T16 HF E3 MPT WHI L840	5.24	96550919	JUDI228ZEMP
JUP3 DI 2X35W T16 HF E3 MPT WHI L840	5.52	96550920	JUDI235ZEMP
JUP3 DI 2X49W T16 HF E3 MPT WHI L840	5.52	96550921	JUDI249ZEMP

Description	Wt (Kg)	SAP Code	Cat. No.
Jupiter Direct/Indirect, diffuser, dimmable			
JUP3 DI 2X28W T16 HFI MPT WHI L840	4.30	96550912	JUDI228DMP
JUP3 DI 2X35W T16 HFI MPT WHI L840	4.58	96550913	JUDI235DMP
JUP3 DI 2X49W T16 HFI MPT WHI L840	4.58	96550914	JUDI249DMP
Jupiter Direct/Indirect, louvre			
JUP3 DI 1x28W T16 HF DSB L840	3.50	96550887	JUDI128ZSB
JUP3 DI 1x35W T16 HF DSB L840	3.58	96550888	JUDI135ZSB
JUP3 DI 1x49W T16 HF DSB L840	3.58	96550889	JUDI149ZSB
JUP3 DI 1x54W T16 HF DSB L840	3.50	96550890	JUDI154ZSB
JUP3 DI 2x28W T16 HF DSB L840	3.70	96550901	JUDI228ZSB
JUP3 DI 2x35W T16 HF DSB L840	3.83	96550902	JUDI235ZSB
JUP3 DI 2x49W T16 HF DSB L840	3.83	96550903	JUDI249ZSB
JUP3 DI 2x54W T16 HF DSB L840	3.70	96550904	JUDI254ZSB
Jupiter Direct/Indirect, louvre, emergency			
JUP3 DI 1x28W T16 HF E3 DSB L840	4.44	96550894	JUDI128ZESB
JUP3 DI 1x35W T16 HF E3 DSB L840	4.52	96550895	JUDI135ZESB
JUP3 DI 1x49W T16 HF E3 DSB L840	4.52	96550896	JUDI149ZESB
JUP3 DI 1x54W T16 HF E3 DSB L840	4.44	96550897	JUDI154ZESB
JUP3 DI 2x28W T16 HF E3 DSB L840	4.64	96550915	JUDI228ZESB
JUP3 DI 2x35W T16 HF E3 DSB L840	4.77	96550916	JUDI235ZESB
JUP3 DI 2x49W T16 HF E3 DSB L840	4.77	96550917	JUDI249ZESB
JUP3 DI 2x54W T16 HF E3 DSB L840	4.64	96550918	JUDI254ZESB
Jupiter Direct/Indirect, louvre, dimmable			
JUP3 DI 2x28W T16 HFI DSB L840	3.70	96550908	JUDI228DSB
JUP3 DI 2x35W T16 HFI DSB L840	3.83	96550909	JUDI235DSB
JUP3 DI 2x49W T16 HFI DSB L840	3.83	96550910	JUDI249DSB
JUP3 DI 2x54W T16 HFI DSB L840	3.70	96550911	JUDI254DSB
Jupiter Direct, diffuser			
JUP3 D 1x28W T16 HF MPT L840	3.60	96550853	JUD128ZMP
JUP3 D 1x35W T16 HF MPT L840	3.76	96550854	JUD135ZMP
JUP3 D 1x49W T16 HF MPT L840	3.76	96550855	JUD149ZMP
JUP3 D 2x28W T16 HF MPT L840	4.10	96550871	JUD228ZMP
JUP3 D 2x35W T16 HF MPT L840	4.38	96550872	JUD235ZMP
JUP3 D 2x49W T16 HF MPT L840	4.38	96550873	JUD249ZMP

NEW

Jupiter 3



www.thornlighting.co.uk/JUP3

The practical choice for slim and efficient direct/indirect lighting

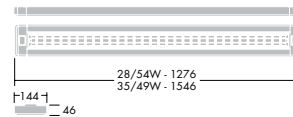
Ordering Guide

Supplied complete with LEDs and power supply.

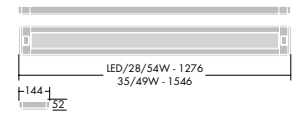
Description	Wt (Kg)	SAP Code	Cat. No.
Jupiter Direct, diffuser, emergency			
JUP3 D 1x28W T16 HF E3 MPT L840	4.54	96550862	JUD128ZEMP
JUP3 D 1x35W T16 HF E3 MPT L840	4.70	96550863	JUD135ZEMP
JUP3 D 1x49W T16 HF E3 MPT L840	4.70	96550864	JUD149ZEMP
JUP3 D 2x28W T16 HF E3 MPT L840	5.04	96550884	JUD228ZEMP
JUP3 D 2x35W T16 HF E3 MPT L840	5.32	96550885	JUD235ZEMP
JUP3 D 2x49W T16 HF E3 MPT L840	5.32	96550886	JUD249ZEMP
Jupiter Direct, diffuser, dimmable			
JUP3 D 2x28W T16 HFI MPT L840	4.10	96550878	JUD228DMP
JUP3 D 2x35W T16 HFI MPT L840	4.38	96550879	JUD235DMP
JUP3 D 2x49W T16 HFI MPT L840	4.38	96550880	JUD249DMP
Jupiter Direct, louvre			
JUP3 D 1x28W T16 HF DSB L840	3.30	96550849	JUD128ZSB
JUP3 D 1x35W T16 HF DSB L840	3.38	96550850	JUD135ZSB
JUP3 D 1x49W T16 HF DSB L840	3.38	96550851	JUD149ZSB
JUP3 D 1x54W T16 HF DSB L840	3.30	96550852	JUD154ZSB
JUP3 D 2x28W T16 HF DSB L840	3.50	96550867	JUD228ZSB
JUP3 D 2x35W T16 HF DSB L840	3.63	96550868	JUD235ZSB
JUP3 D 2x49W T16 HF DSB L840	3.63	96550869	JUD249ZSB
JUP3 D 2x54W T16 HF DSB L840	3.50	96550870	JUD254ZSB
Jupiter Direct, louvre, emergency			
JUP3 D 1x28W T16 HF E3 DSB L840	4.24	96550858	JUD128ZESB
JUP3 D 1x35W T16 HF E3 DSB L840	4.32	96550859	JUD135ZESB
JUP3 D 1x49W T16 HF E3 DSB L840	4.32	96550860	JUD149ZESB
JUP3 D 1x54W T16 HF E3 DSB L840	4.24	96550861	JUD154ZESB
JUP3 D 2x28W T16 HF E3 DSB L840	4.44	96550881	JUD228ZESB
JUP3 D 2x35W T16 HF E3 DSB L840	4.57	96241725	JUD235ZESB
JUP3 D 2x49W T16 HF E3 DSB L840	4.57	96550882	JUD249ZESB
JUP3 D 2x54W T16 HF E3 DSB L840	4.44	96550883	JUD254ZESB
Jupiter Direct, louvre, dimmable			
JUP3 D 2x28W T16 HFI DSB L840	3.50	96550874	JUD228DSB
JUP3 D 2x35W T16 HFI DSB L840	3.63	96550875	JUD235DSB
JUP3 D 2x49W T16 HFI DSB L840	3.63	96550876	JUD249DSB
JUP3 D 2x54W T16 HFI DSB L840	3.50	96550877	JUD254DSB
Jupiter Direct, asymmetric			
JUP3 D 1x28W T16 HF RAS L840	3.80	96550856	JUD128ZAS
JUP3 D 1x35W T16 HF RAS L840	3.90	96550857	JUD135ZAS
Jupiter Direct, asymmetric, emergency			
JUP3 D 1x28W T16 HF E3 RAS L840	4.74	96550865	JUD128ZEAS
JUP3 D 1x35W T16 HF E3 RAS L840	4.84	96550866	JUD135ZEAS

Description	SAP Code	Cat. No.
Jupiter Accessories		
JUP3 CONNECT KIT SINGLE LAMP	CONTINUOUS MOUNTING KIT	96241823 JUSCON
JUP3 CONNECT KIT TWIN LAMP	CONTINUOUS MOUNTING KIT	96241824 JUTCON
JUP3 D RAS BRA MWA	WALL BRACKET FOR ASYMMETRIC LOUVRE	96241825 JUDRAS
JUP3 D TWKIT 1200MM	THROUGH WIRING KIT 1200MM	96241827 JUTWK1200
JUP3 D TWKIT 1500MM	THROUGH WIRING KIT 1500MM	96241828 JUTWK1500
JUP3 MSW1 x 2	SINGLE WIRE SUSPENSION	96241826 JUMSW1

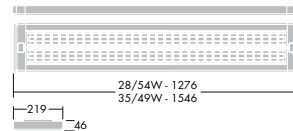
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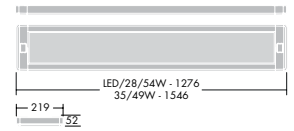
Single Direct/D/I



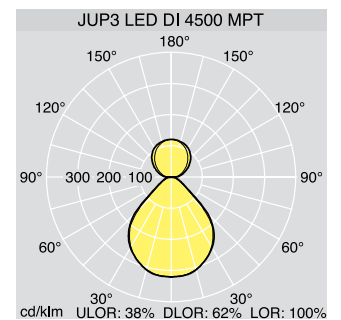
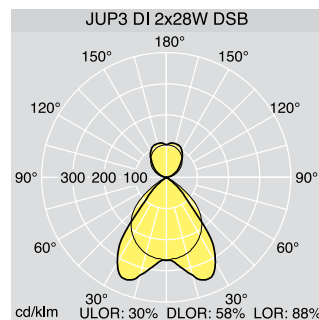
Single MPT



Twin Direct/D/I



Twin MPT





Hastings College, Hastings, UK

Punch II

T5



www.thornlighting.co.uk/PNC5

A range of surface mounted or suspended luminaires, combining T16 (T5) direct lighting with louvres for high light output



- Smooth, rounded body design gives unobtrusive appearance
- Excellent optical performance with LOR up to 74%
- Surface luminaires can also be suspended for suspended direct illumination
- High frequency dimming versions available

Materials/Finish

Body: sheet steel painted white (close to RAL9010)

End cap: moulded in white polycarbonate

Louvres: aluminium anodised.

Installation/Mounting

Electrical installation via piano-key terminal blocks, two cable entry points at centre of fitting. Clips retain the louvre to enable hinging for easy lamp replacement and maintain earth continuity. Surface versions mounted with spacers via keyholes and C-washers. Single/twin surface and DI versions can be suspended via optional wire suspension kits (to be ordered separately), close offset rod or pendant rod kits. Continuous line mounting of luminaires via optional connect kit.

UK: BESA accessory kit available for mounting onto BESA box.

Specification

To specify state:

Surface mounted fluorescent luminaire in single/twin/quad T16(T5) lamp 14/28/35W versions with high frequency / high frequency dimmable / emergency gear
As Thorn Punch II T5

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Punch II T5 Mirrorbrite louvre			
PUNCH II 1X28W T16 HF DMB L840	3.40	96536190	PU128ZMB
PUNCH II DI 1X28W T16 HF DMB L1840	3.40	96547368	PUDI128ZMB
PUNCH II 1X35W T16 HF DMB L840	4.60	96536195	PU135ZMB
PUNCH II DI 1X35W T16 HF DMB L1840	4.60	96547369	PUDI135ZMB
PUNCH II 1X49W T16 HF DMB L840	4.10	96547358	PU149ZMB
PUNCH II DI 1X49W T16 HF DMB L1840	4.60	96547370	PUDI149ZMB
PUNCH II 2X28W T16 HF DMB L840	4.80	96536221	PU228ZMB
PUNCH II DI 2X28W T16 HF DMB L1840	4.80	96547371	PUDI228ZMB
PUNCH II 2X35W T16 HF DMB L840	6.30	96536229	PU235ZMB
PUNCH II DI 2X35W T16 HF DMB L1840	6.30	96547372	PUDI235ZMB
PUNCH II 2X49W T16 HF DMB L840	5.50	96547362	PU249ZMB
PUNCH II DI 2X49W T16 HF DMB L1840	6.30	96547373	PUDI249ZMB
PUNCH II 4X14W T16 HF DMB L840	4.50	96536262	PU414ZMB
Punch II T5 Mirrorbrite louvre, emergency			
PUNCH II 1X28W T16 HF DMB E3 L840	4.40	96536191	PU128ZEMB
PUNCH II 1X35W T16 HF DMB E3 L840	5.60	96536196	PU135ZEMB
PUNCH II DI 1X35W T16 HF DMB E3 L1840	5.60	96547381	PUDI135ZEMB
PUNCH II 1X49W T16 HF DMB E3 L840	5.10	96547359	PU149ZEMB
PUNCH II DI 1X49W T16 HF DMB E3 L1840	5.60	96547382	PUDI149ZEMB
PUNCH II 2X28W T16 HF DMB E3 L840	5.80	96536222	PU228ZEMB
PUNCH II DI 2X28W T16 HF DMB E3 L1840	5.80	96547383	PUDI228ZEMB
PUNCH II 2X35W T16 HF DMB E3 L840	7.30	96536230	PU235ZEMB
PUNCH II DI 2X35W T16 HF DMB E3 L1840	7.30	96547384	PUDI235ZEMB
PUNCH II 2X49W T16 HF DMB E3 L840	6.50	96547363	PU249ZEMB
PUNCH II DI 2X49W T16 HF DMB E3 L1840	7.30	96547385	PUDI249ZEMB
PUNCH II 4X14W T16 HF DMB E3 L840	5.60	96536263	PU414ZEMB
Punch II T5 Mirrorbrite louvre, dimmable			
PUNCH II 2X28W T16 HFI DMB L840	12.80	96549846	PU228DMB
PUNCH II DI 2X28W T16 HFI DMB L1840	8.20	96549852	PUDI228DMB
PUNCH II 2X35W T16 HFI DMB L840	4.80	96549860	PU235DMB
PUNCH II DI 2X35W T16 HFI DMB L1840	8.25	96549866	PUDI235DMB
PUNCH II 2X49W T16 HFI DMB L840	8.50	96549870	PU249DMB
PUNCH II DI 2X49W T16 HFI DMB L1840	8.50	96549875	PUDI249DMB
PUNCH II 4X14W T16 HFI DMB L840	6.30	96549894	PU414XMB
Punch II T5 Mirrorbrite louvre, dimmable, emergency			
PUNCH II 2X28W T16 HFI DMB E3 L840	12.50	96549845	PU228DEMB
PUNCH II DI 2X28W T16 HFI DMB E3 L1840	6.10	96549851	PUDI228DEMB
PUNCH II 2X35W T16 HFI DMB E3 L840	8.50	96549859	PU235DEMB
PUNCH II DI 2X35W T16 HFI DMB E3 L1840	8.25	96549865	PUDI235DEMB
PUNCH II 2X49W T16 HFI DMB E3 L840	8.50	96549869	PU249DEMB
PUNCH II DI 2X49W T16 HFI DMB E3 L1840	8.50	96549874	PUDI249DEMB
PUNCH II 4X14W T16 HFI DMB E3 L840	5.50	96549895	PU414XEMB



Lamps

T5 (FDH) G5 14-49W

Standards

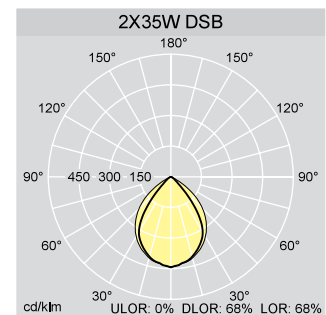
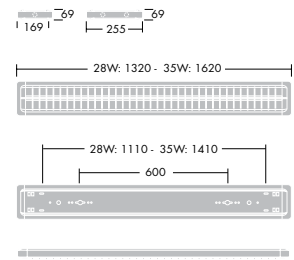
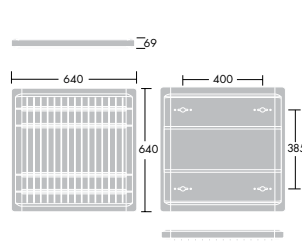
CE EN 60598 IP20 IK07 T_a 5 +25 960°C



Description	Wt (kg)	SAP Code	Cat. No.
Punch II T5 Satinbrite louver			
PUNCH II 1X28W T16 HF DSB L840	3.40	96536192	PU128ZSB
PUNCH II DI 1X28W T16 HF DSB L840	3.40	96547392	PUDI28ZSB
PUNCH II 1X35W T16 HF DSB L840	4.60	96536197	PU135ZSB
PUNCH II DI 1X35W T16 HF DSB L840	4.10	96547393	PUDI135ZSB
PUNCH II 1X49W T16 HF DSB L840	4.10	96547356	PU149ZSB
PUNCH II DI 1X49W T16 HF DSB L840	4.10	96547394	PUDI149ZSB
PUNCH II 2X28W T16 HF DSB L840	4.80	96536223	PU228ZSB
PUNCH II DI 2X28W T16 HF DSB L840	4.80	96547395	PUDI228ZSB
PUNCH II 2X35W T16 HF DSB L840	6.30	96536231	PU235ZSB
PUNCH II DI 2X35W T16 HF DSB L840	6.30	96547396	PUDI235ZSB
PUNCH II 2X49W T16 HF DSB L840	5.20	96547360	PU249ZSB
PUNCH II DI 2X49W T16 HF DSB L840	6.30	96547397	PUDI249ZSB
PUNCH II 4X14W T16 HF DSB L840	5.30	96536264	PU414ZSB
Punch II T5 Satinbrite louver, emergency			
PUNCH II 1X28W T16 HF DSB E3 L840	4.40	96536193	PU128ZESB
PUNCH II 1X35W T16 HF DSB E3 L840	5.60	96536198	PU135ZESB
PUNCH II DI 1X35W T16 HF DSB E3 L840	5.60	96547405	PUDI135ZESB
PUNCH II 1X49W T16 HF DSB E3 L840	5.10	96547357	PU149ZESB
PUNCH II DI 1X49W T16 HF DSB E3 L840	5.60	96547406	PUDI149ZESB
PUNCH II 2X28W T16 HF DSB E3 L840	5.80	96536224	PU228ZESB
PUNCH II DI 2X28W T16 HF DSB E3 L840	5.80	96547407	PUDI228ZESB
PUNCH II 2X35W T16 HF DSB E3 L840	7.30	96536232	PU235ZESB
PUNCH II DI 2X35W T16 HF DSB E3 L840	7.30	96547408	PUDI235ZESB
PUNCH II 2X49W T16 HF DSB E3 L840	6.20	96547361	PU249ZESB
PUNCH II DI 2X49W T16 HF DSB E3 L840	7.30	96547409	PUDI249ZESB
PUNCH II 4X14W T16 HF DSB E3 L840	6.20	96536265	PU414ZESB
Punch II T5 Satinbrite louver, dimmable			
PUNCH II 2X28W T16 HFI DSB L840	3.10	96549850	PU228DSB
PUNCH II DI 2X28W T16 HFI DSB L840	8.20	96549854	PUDI228DSB
PUNCH II 2X35W T16 HFI DSB L840	10.50	96549864	PU235DSB
PUNCH II DI 2X35W T16 HFI DSB L840	10.50	96549868	PUDI235DSB
PUNCH II 2X49W T16 HFI DSB L840	3.90	96549872	PU249DSB
PUNCH II DI 2X49W T16 HFI DSB L840	3.90	96549877	PUDI249DSB
PUNCH II 4X14W T16 HFI DSB L840	5.20	96549896	PU414XSB
Punch II T5 Satinbrite louver, dimmable, emergency			
PUNCH II 2X28W T16 HFI DSB E3 L840	6.50	96549849	PU228DESB
PUNCH II DI 2X28W T16 HFI DSB E3 L840	6.10	96549853	PUDI228DESB
PUNCH II 2X35W T16 HFI DSB E3 L840	8.50	96549863	PU235DESB
PUNCH II DI 2X35W T16 HFI DSB E3 L840	8.25	96549867	PUDI235DESB
PUNCH II 2X49W T16 HFI DSB E3 L840	8.50	96549871	PU249DESB
PUNCH II DI 2X49W T16 HFI DSB E3 L840	4.60	96549876	PUDI249DESB
PUNCH II 4X14W T16 HFI DSB E3 L840	6.30	96549897	PU414XESB

Description	Wt (kg)	SAP Code	Cat. No.
Punch II T5 Accessories			
PUNCH 2 CONNECT KIT - SINGLE	0.80	96238616	PUSCK
PUNCH 2 CONNECT KIT - TWIN	0.70	96238615	PUTCK
PUNCH 2 WHITEBOARD SUSPENSION KIT	5.20	96238614	PUWBSK
PUNCH 2 MSW1 1500MM	0.24	96238862	PUWSK1500
PUNCH 2 PENDANT ROD KIT 150MM	1.50	96238860	PURSK150
PUNCH 2 ROD SUSPENSION BRACKETS	0.20	96238861	PURSB
PUNCH 2 ROD SUSPENSION KIT 1450MM	2.00	96238859	PURSK1450
PUNCH 2 BESA MOUNTING BRACKETS X2		59003643	PUBESA

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Menlo³ Surface



www.thornlighting.co.uk/MNLS

Menlo³ lighting techniques and styling recreated in an alternative mounting method and geometry



- Outstanding photometric performance with high LOR, high efficiency and glare control options to suit all screen types
- Sleek rectangular optic combines directional illuminance with soft indirect illumination, delivering 30%/50% of task area illuminance onto the ceilings/walls for an uplifting environment
- Surface mounted upper light chamber diffuses indirect illumination for a very controlled illuminance at 65 degrees and above
- Available with innovative mini-vane louvre, modern linear microprism or diffuser optics for differing preferences in efficiency, glare control and aesthetics

Materials/Finish

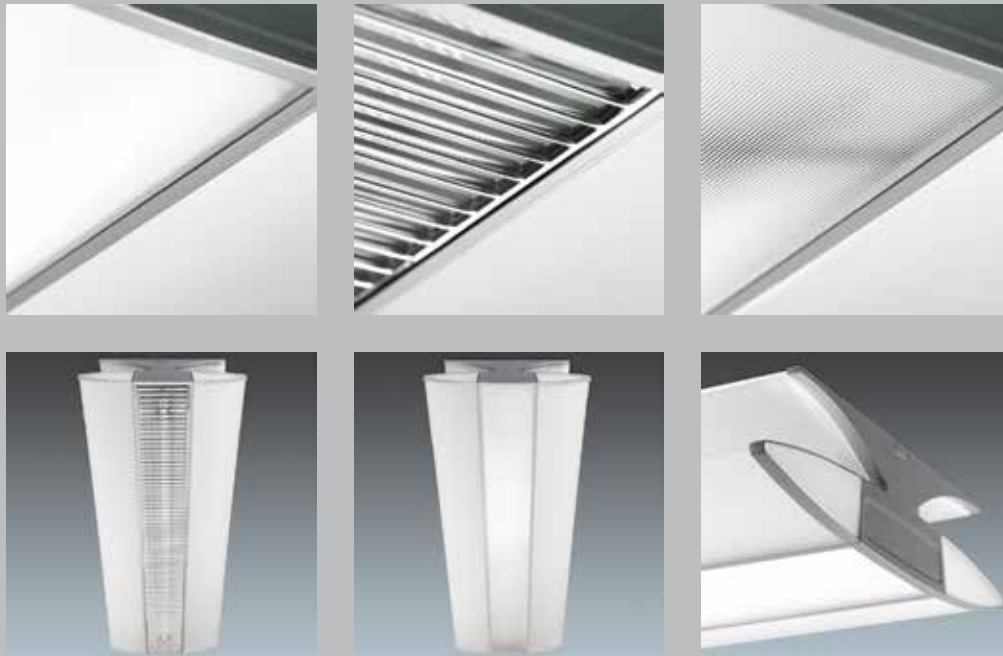
Housing: pre-painted sheet steel.
End caps: die-cast aluminium, powder coated silver (RAL 9006)
Light Chamber/Wings: extruded high-purity acrylic (PMMA) bead suspended diffuser pearl material.
Louvre: aluminium in Satinbrite finish.
Diffuser: high purity acrylic (PMMA) diffuser pearl material.
MPT diffuser: microprismatic and high purity acrylic (PMMA) diffuser pearl material.

Installation/Mounting

Suitable for surface mounting onto solid ceiling. Optic and light chamber are removed using turnbuckles to allow gear tray to be fixed to ceiling via 2 screw fastenings. Electrical connection to be made via terminal block before reattaching light chamber and optic. Central optic is easily removed and replaced by hand for lamp access. Can also be integrated into 300x1200mm suspended ceiling grids using suspended mounting kit (to be ordered separately).

Specification

To specify state:
Surface mounted luminaire for 54W T16 (T5) linear fluorescent lamps with diffusing pearl light chamber and wings and central mini-vane louvre/MPT diffuser/opal diffuser for direct/indirect lighting performance. Suitable for surface mounting onto solid ceilings or integrating into suspended ceiling grids using optional accessories. Fixed output or digital dimmable control gear with 3 hour Self/Addressable test integral LED emergency versions and option for integral sensor head.
As Thorn Menlo³ Surface



Lamps

T5 (FDH) G5 54W

Standards

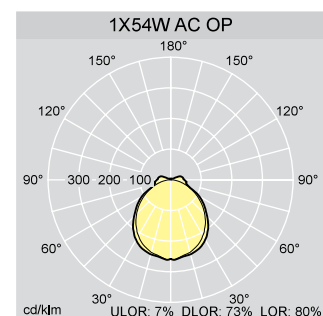
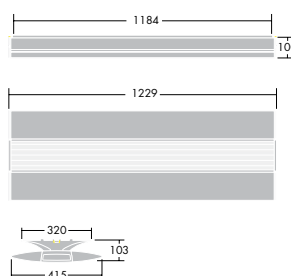
EN 60598 IP20 T_a25 T_a5 +25 650°C

Ordering Guide

Lamps included unless otherwise stated.
 Versions with mini-sensor available on request.

Description	Wt (kg)	SAP Code	Cat. No.
Menlo³ Surface With louvre			
MENLO3S 1X54W HF AC LV L840	7.00	96238991	MNSF154ZLV
Menlo³ Surface With louvre, dimmable			
MENLO3S 1X54W HFI AC LV L840	7.00	96550014	MNSF154DLV
Menlo³ Surface With louvre, emergency			
MENLO3S 1X54W HF E3 AC LV L840	7.20	96548219	MNSF154ZELV
Menlo³ Surface With louvre, dimmable emergency			
MENLO3S 1X54W HFI E3 AC LV L840	7.20	96550019	MNSF154DELV
MENLO3S 1X54W HFI E3TX AC LV L840	7.20	96241818	MNSF154DEXLV
Menlo³ Surface With opal diffuser			
MENLO3S 1X54W HF AC OP L840	7.30	96238993	MNSF154ZOP
Menlo³ Surface With opal diffuser, dimmable			
MENLO3S 1X54W HFI AC OP L840	8.40	96550016	MNSF154DOP
Menlo³ Surface With opal diffuser, emergency			
MENLO3S 1X54W HF E3 AC OP L840	7.50	96548221	MNSF154ZEOP
Menlo³ Surface With opal diffuser, dimmable emergency			
MENLO3S 1X54W HFI E3 AC OP L840	7.50	96550020	MNSF154DEOP
MENLO3S 1X54W HFI E3TX AC OP L840	7.50	96241819	MNSF154DEXOP
Menlo³ Surface With prismatic diffuser			
MENLO3S 1X54W HF AC PR L840	7.60	96238992	MNSF154ZPR
Menlo³ Surface With prismatic diffuser, dimmable			
MENLO3S 1X54W HFI AC PR L840	9.20	96550018	MNSF154DPR
Menlo³ Surface With prismatic diffuser, emergency			
MENLO3S 1X54W HF E3 AC PR L840	7.80	96548220	MNSF154ZEPR
Menlo³ Surface With prismatic diffuser, dimmable emergency			
MENLO3S 1X54W HFI E3 AC PR L840	9.30	96550021	MNSF154DEPR
Menlo³ Surface Accessories			
MENLO3S SUSPENDED MOUNTING KIT	0.20	96239180	MNSUSKIT

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NEW

College



www.thornlighting.co.uk/CLLG

A range of curved profile linear fluorescent luminaires with clear prismatic diffusers for surface or suspended mounting



- Clear prismatic diffuser in tough polycarbonate for specific light control and impact resistance
- Rigidly fixed diffuser held in place by screwed on polycarbonate end caps for improved diffuser security and vandal/impact resistance
- Sealed to IP44
- Easy to remove and replace gearcover protects components

Materials/Finish

Body and gear tray: white galvanised prepainted steel.
End caps: polycarbonate
Diffuser: precision extruded clear prismatic polycarbonate.

Installation/Mounting

Two cable entry holes (Ø21.5mm) in the centre of the back spine.
Optional cable entry through each end cap. Fitting supplied with sealing grommets and 'quick-fix' horseshoe sliding washers for direct screw fixing to surface. Standard BESA fixings.
5 x 2 x 2.5mm² piano key terminal block supplied for easy and quick looping. 5 x 2 x 2.5mm² + 3 x 2 x 2.5mm² piano key terminal block for dimmable emergency versions.

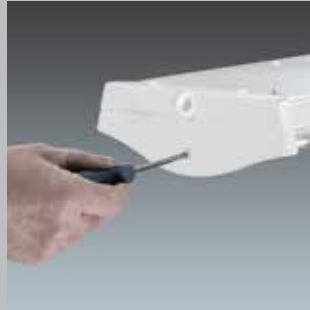
Specification

To specify state:
Surface mounted IP44 fluorescent / LED luminaire with curved clear prismatic polycarbonate diffuser retained along its length by screwed on end caps employing protected high frequency/dimmable/emergency gear for single/twin T16 (T5)/T26 (T8) lamps/LEDs for educational lighting.
As Thorn College.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
College LED			
COLLEGE LED 2900 HF PC CL L840	4.70	96241614	CO2900ZCL
COLLEGE LED 4650 HF PC CL L840	4.60	96241610	CO4650ZCL
College LED dimmable			
COLLEGE LED 2900 HFIX PC CL L840	4.80	96241616	CO2900XCL
COLLEGE LED 4650 HFIX PC CL L840	4.80	96241612	CO4650XCL
College LED emergency			
COLLEGE LED 2900 HF E3 PC CL L840	5.20	96241615	CO2900ZECL
COLLEGE LED 4650 HF E3 PC CL L840	5.10	96241611	CO4650ZECL
College LED dimmable, emergency			
COLLEGE LED 2900 HFIX E3 PC CL L840	5.30	96241617	CO2900XECL
COLLEGE LED 4650 HFIX E3 PC CL L840	5.30	96241613	CO4650XECL
College T16 (T5)			
COLLEGE 1X28W HF PC CL L840	4.00	96535821	CO128ZCL
COLLEGE 1X35W HF PC CL L840	4.30	96535822	CO135ZCL
COLLEGE 1X35W HF PC CL NIGHT LIGHT	4.30	96238102	CO135ZCLNL
COLLEGE 1X49W HF PC CL L840	4.50	96535824	CO149ZCL
COLLEGE 1X49W HF PC CL NIGHT LIGHT	4.40	96238103	CO149ZCLNL
COLLEGE 2X28W HF PC CL L840	4.20	96535826	CO228ZCL
COLLEGE 2X35W HF PC CL L840	4.30	96535828	CO235ZCL
COLLEGE 2X35W HF PC CL SLDMD BASIC	4.40	96238636	CO235ZSCL
COLLEGE 2X49W HF PC CL L840	4.30	96535830	CO249ZCL
COLLEGE 2X49W HF PC CL SLDMD BASIC	4.40	96238637	CO249ZSCL
College T16 dimmable			
COLLEGE 1X35W HFI PC CL L840	4.20	96549136	CO135DCL
COLLEGE 1X49W HFI PC CL L840	5.20	96549141	CO149DCL
COLLEGE 2X28W HFI PC CL L840	4.30	96549145	CO228DCL
COLLEGE 2X35W HFI PC CL L840	4.30	96549150	CO235DCL
COLLEGE 2X49W HFI PC CL L840	5.40	96549132	CO249DCL
College T16 (T5) Emergency			
COLLEGE 1X28W HF E3 PC CL L840	5.70	96535866	CO128ZECL
COLLEGE 1X35W HF E3 PC CL L840	5.80	96535867	CO135ZECL
COLLEGE 1X49W HF E3 PC CL L840	5.80	96535869	CO149ZECL
COLLEGE 2X28W HF E3 PC CL L840	6.00	96535871	CO228ZECL
COLLEGE 2X35W HF E3 PC CL L840	6.50	96535873	CO235ZECL
COLLEGE 2X49W HF E3 PC CL L840	7.10	96535875	CO249ZECL



Lamps

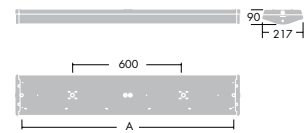
	LED	2.4-63W
	T5 (FDH) G5	28-49W
	T8 (FD) G13	36-70W

Standards

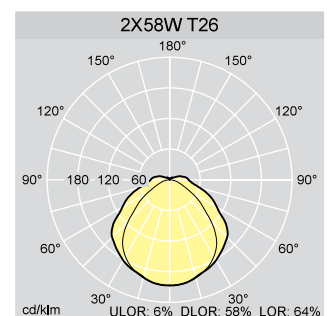
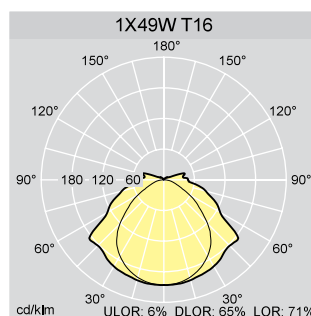


Description	Wt (kg)	SAP Code	Cat. No.
College T16 dimmable, emergency			
COLLEGE 1X35W HFI E3 PC CL L840	5.80	96549135	CO135DECL
COLLEGE 1X49W HFI E3 PC CL L840	5.80	96549140	CO149DECL
COLLEGE 2X28W HFI E3 PC CL L840	4.10	96549144	CO228DECL
COLLEGE 2X35W HFI E3 PC CL L840	5.50	96549149	CO235DECL
COLLEGE 2X49W HFI E3 PC CL L840	7.10	96549131	CO249DECL
College T26 (T8)			
COLLEGE 1X36W HF PC CL L840	4.10	96535809	CO136ZCL
COLLEGE 1X36W HF PC CL RAS L840	4.30	96535810	CO136ZCLAS
COLLEGE 1X58W HF PC CL L840	4.40	96535811	CO158ZCL
COLLEGE 1X58W HF PC CL RAS L840	4.60	96535812	CO158ZCLAS
COLLEGE 1X70W HF PC CL L840	5.20	96535814	CO170ZCL
COLLEGE 1X70W HF PC CL RAS L840	5.40	96535815	CO170ZCLAS
COLLEGE 2X36W HF PC CL L840	4.30	96535816	CO236ZCL
COLLEGE 2X58W HF PC CL L840	4.50	96535818	CO258ZCL
COLLEGE 2X70W HF PC CL L840	5.30	96535820	CO270ZCL
College T26 dimmable			
COLLEGE 2X36W HFD PC CL L840	4.20	96535817	CO236DCL
COLLEGE 2X58W HFD PC CL L840	4.50	96535819	CO258DCL
College T26 (T8) Emergency			
COLLEGE 1X36W HF E3 PC CL L840	5.70	96535854	CO136ZECL
COLLEGE 1X36W HF E3 PC CL RAS L840	5.90	96535855	CO136ZECLAS
COLLEGE 1X58W HF E3 PC CL L840	6.30	96535856	CO158ZECL
COLLEGE 1X58W HF E3 PC CL RAS L840	6.50	96535857	CO158ZECLAS
COLLEGE 1X70W HF E3 PC CL L840	7.10	96535859	CO170ZECL
COLLEGE 1X70W HF E3 PC CL RAS L840	7.30	96535860	CO170ZECLAS
COLLEGE 2X36W HF E3 PC CL L840	5.80	96535861	CO236ZECL
COLLEGE 2X58W HF E3 PC CL L840	6.90	96535863	CO258ZECL
COLLEGE 2X70W HF E3 PC CL E3 L840	8.20	96535865	CO270ZECL
College T26 dimmable, emergency			
COLLEGE 2X36W HFD E3 PC CL L840	5.80	96535862	CO236DECL
COLLEGE 2X58W HFD E3 PC CL L840	6.40	96535864	CO258DECL

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	Length	Fixing centres (A)
38W	1220mm	1150mm
35W/49W LED	1520mm	1450mm
36W	1271mm	1200mm
58W	1571mm	1500mm
70W	1835mm	1550mm



Diffusalux



www.thornlighting.co.uk/DFX2

A range of curved profile linear fluorescent luminaires with clear or opal diffusers for surface or suspended mounting



- Light control is enhanced through curved shape prism diffuser
- Surface, suspended or conduit mounting possible
- All versions balanced
- Choice of T16 or T26 lamps

Materials/Finish

Body: white prepainted steel
End caps: polycarbonate
Diffuser: precision extruded clear prismatic or opal styrene (polycarbonate for emergency versions)

Installation/Mounting

Cable entry holes (Ø21.5mm) in the centre of the back spine. Optional cable entry through each end cap. Fitting supplied with end cap sealing grommets and 'quick-fix' horseshoe sliding washers for direct screw fixing to surface. 5 x 2 x 2.5mm² piano key terminal block suitable for easy and quick looping. Standard BESA fixing possible.

Specification

To specify state:
High performance surface mounted fluorescent luminaire with curved opal/clear prismatic diffuser retained along its length, employing high frequency/emergency gear for single/twin T26/T16 lamps for general interior lighting.
As Thorn Diffusalux.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Diffusalux T16 (T5)			
DIFFUSALUX 1X28W HF PS CL L840	3.40	96535877	DF128ZCL
DIFFUSALUX 1X28W HF PS OP L840	3.40	96535878	DF128ZOP
DIFFUSALUX 1X35W HF PS CL L840	4.20	96535879	DF135ZCL
DIFFUSALUX 1X35W HF PS OP L840	4.20	96535880	DF135ZOP
DIFFUSALUX 1X49W HF PS CL L840	4.60	96535883	DF149ZCL
DIFFUSALUX 1X49W HF PS OP L840	4.20	96535884	DF149ZOP
DIFFUSALUX 2X28W HF PS CL L840	3.60	96535889	DF228ZCL
DIFFUSALUX 2X28W HF PS OP L840	3.60	96535890	DF228ZOP
DIFFUSALUX 2X35W HF PS CL L840	4.40	96535891	DF235ZCL
DIFFUSALUX 2X35W HF PS OP L840	4.40	96535892	DF235ZOP
DIFFUSALUX 2X49W HF PS CL L840	4.60	96535895	DF249ZCL
DIFFUSALUX 2X49W HF PS OP L840	4.40	96535896	DF249ZOP
Diffusalux T16 (T5) Emergency			
DIFFUSALUX 1X35W HF PC CL E3 L840	6.10	96535901	DF135ZECL
DIFFUSALUX 1X35W HF PC OP E3 L840	6.10	96535902	DF135ZEOP
DIFFUSALUX 1X49W HF PC CL E3 L840	6.10	96535904	DF149ZECL
DIFFUSALUX 1X49W HF PC OP E3 L840	6.10	96535905	DF149ZEOP
DIFFUSALUX 2X35W HF PC CL E3 L840	6.40	96535909	DF235ZECL
DIFFUSALUX 2X35W HF PC OP E3 L840	6.40	96535910	DF235ZEOP
DIFFUSALUX 2X49W HF PC CL E3 L840	6.40	96535912	DF249ZECL
DIFFUSALUX 2X49W HF PC OP E3 L840	6.40	96535913	DF249ZEOP
Diffusalux T16 (T5) dimmable			
DIFFUSALUX 1X35W HFI PS CL L840	4.30	96241140	DF135DCL
DIFFUSALUX 1X49W HFI PS CL L840	4.30	96241142	DF149DCL
DIFFUSALUX 2X35W HFI PS CL L840	4.50	96241141	DF235DCL
DIFFUSALUX 2X49W HFI PS CL L840	4.70	96549151	DF249DCL
Diffusalux T16 (T5) dimmable, emergency			
DIFFUSALUX 1X35W HFI PC CL E3 L840	6.20	96241143	DF135DECL
DIFFUSALUX 1X49W HFI PC CL E3 L840	6.20	96241145	DF149DECL
DIFFUSALUX 2X35W HFI PC CL E3 L840	6.50	96241144	DF235DECL
DIFFUSALUX 2X49W HFI PC CL E3 L840	6.50	96241146	DF249DECL



Lamps

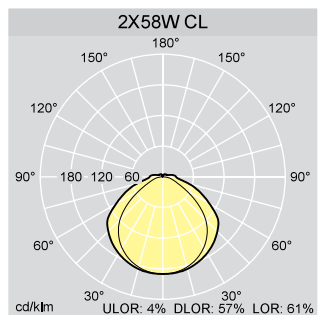
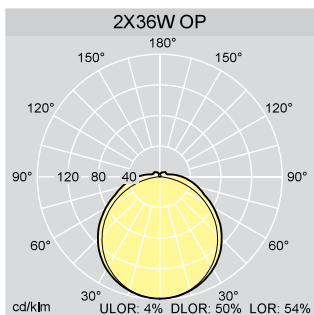
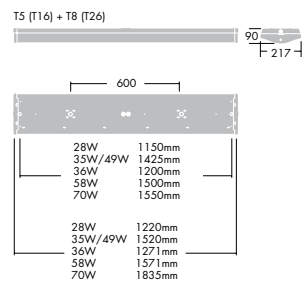
	T5 (FDH)	G5	28-49W
	T8 (FD)	G13	36-70W

Standards



Description	Wt (kg)	SAP Code	Cat. No.
Diffusalux T26 (T8)			
DIFFUSALUX 1X36W HF PS CL L840	3.50	96535881	DF136ZCL
DIFFUSALUX 1X36W HF PS OP L840	3.50	96535882	DF136ZOP
DIFFUSALUX 1X58W HF PS CL L840	4.30	96535885	DF158ZCL
DIFFUSALUX 1X58W HF PS OP L840	4.30	96535886	DF158ZOP
DIFFUSALUX 1X70W HF PS CL L840	4.60	96535887	DF170ZCL
DIFFUSALUX 1X70W HF PS OP L840	4.60	96535888	DF170ZOP
DIFFUSALUX 2X36W HF PS CL L840	4.70	96535893	DF236ZCL
DIFFUSALUX 2X36W HF PS OP L840	3.70	96535894	DF236ZOP
DIFFUSALUX 2X58W HF PS CL L840	4.50	96535897	DF258ZCL
DIFFUSALUX 2X58W HF PS OP L840	4.50	96535898	DF258ZOP
DIFFUSALUX 2X70W HF PS CL L840	4.70	96535899	DF270ZCL
DIFFUSALUX 2X70W HF PS OP L840	4.70	96535900	DF270ZOP
Diffusalux T26 (T8) Emergency			
DIFFUSALUX 1X36W HF PC CL E3 L840	5.60	96535903	DF136ZECL
DIFFUSALUX 1X36W HF PC OP E3 L840	5.60	96239731	DF136ZEOP
DIFFUSALUX 1X58W HF PC CL E3 L840	6.20	96535906	DF158ZECL
DIFFUSALUX 1X58W HF PC OP E3 L840	6.20	96535907	DF158ZEOP
DIFFUSALUX 1X70W HF PC CL E3 L840	6.50	96535908	DF170ZECL
DIFFUSALUX 1X70W HF PC OP E3 L840	6.50	96239732	DF170ZEOP
DIFFUSALUX 2X36W HF PC CL E3 L840	5.80	96535911	DF236ZECL
DIFFUSALUX 2X36W HF PC OP E3 L840	5.80	96239733	DF236ZEOP
DIFFUSALUX 2X58W HF PC CL E3 L840	6.50	96535914	DF258ZECL
DIFFUSALUX 2X58W HF PC OP E3 L840	6.50	96239734	DF258ZEOP
DIFFUSALUX 2X70W HF PC CL E3 L840	6.60	96535915	DF270ZECL
DIFFUSALUX 2X70W HF PC OP E3 L840	6.60	96239735	DF270ZEOP
Diffusalux Accessories			
LOCK-SET (2 PCE)	0.04	96004393	LKSET2
WIRE SUSPENSION KIT 1,5M	0.15	96204619	WSPK1500

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Prisma



www.thornlighting.co.uk/PRSM

Slim fluorescent luminaire with prismatic or opal diffuser for surface and suspended mounting



- Slim luminaire with curved diffuser optimised for T16 (T5) lamps
- IP44 seal extends applications to canteens, cafeterias and kitchens
- Prism shape retained throughout the curved diffuser to optimise light output and reduce shadows from components

Materials/Finish




Body: Pre-painted white 0.7mm galvanised steel.
Endcaps: Shockproof ASA plastic, white.
Diffuser: Prismatic/opal acrylic (emergency versions in polycarbonate).

Installation/Mounting

Keyhole fixing positions $\varnothing 14\text{mm}$ for direct mounting to ceiling, wall or bracket mounting. Twin lamp versions balanced for suspended mounting using accessories. Single lamp versions can only be surface mounted. Fixing centres: 28W-1100mm and 35/49W-1400mm. Two cable entries $\varnothing 19\text{mm}$ in the centre of the body (not 14W version where cable entry is at end of body) and a knockout hole in the endcaps. Grommets included. Cable capacity $5 \times 2.5\text{mm}^2$.

Specification

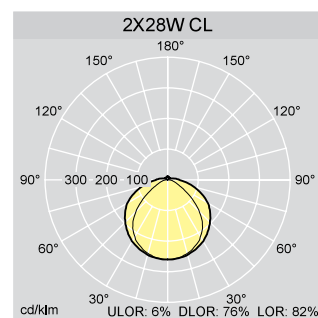
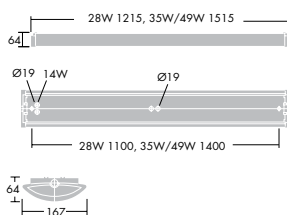
To specify state: Surface/suspended slim luminaire with curved prismatic/opal acrylic diffuser for T5 lamps. IP44. As Thorn Prisma.

**Lamps**
 T5 (FDH) G5 28-49W
Standards
  IP44 650 °C 850 °C 
Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Prisma C			
PRISMA C 1X28W CL L840	2.50	96547467	PR128Z
PRISMA C 1X35W CL L840	3.10	96547468	PR135Z
PRISMA C 1X35W HFI CL L840		96241769	PR135D
PRISMA C 1X49W CL L840	3.10	96547469	PR149Z
PRISMA C 2X28W CL L840	3.00	96547470	PR228Z
PRISMA C 2X35W CL L840	4.10	96547471	PR235Z
PRISMA C 2X49W CL L840	3.60	96547472	PR249Z
Emergency			
PRISMA C 1X28W CL PC E3 L840	3.30	96547473	PR128ZE
PRISMA C 1X49W CL PC E3 L840	3.90	96547475	PR149ZE
PRISMA C 2X28W CL PC E3 L840	3.80	96547477	PR228ZE
PRISMA C 2X35W CL PC E3 L840	5.10	96547478	PR235ZE
Accessories			
WIRE SUSPENSION KIT 1,5M	0.15	96204619	WSPK1500

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NEW

Glacier II

LED



www.thornlighting.co.uk/GLCL

Modern and efficient decorative LED pendant luminaire with high lumen packages



- High performance (76-107Lm/W) decorative luminaire offers an efficient alternative to traditional HID pendants
- Dimming options further enhance energy saving opportunities
- A choice of 4 reflectors to fit a wide range of applications
- Ceiling rose in same design to complete the stylish look

Materials/Finish

Housing: die-cast aluminium with satin grey finish
Reflector: polycarbonate prismatic, glass prismatic, opal glass or grey spun aluminium
Suspension wire: braided steel
Ceiling rose (to be ordered separately): die-cast aluminium with satin grey finish and white plastic

Installation/Mounting

Suspension: adjustable quick-lock 2.5m single wire suspension (supplied). Similar length of pre-installed braided flame retardant silicon cable 5x0.75mm² (6x0.75mm² for E3). Ceiling rose option (ordered separately) 2x5x2.5mm² terminal block.

Specification

To specify state:
Large decorative LED pendant with metal die cast aluminium housing on single wire suspension. With polycarbonate prismatic/glass prismatic/opal glass/grey spun aluminium reflector. Lumen output from 3000-6000 lumens, efficacy 76-107Lm/W, CRI>80.
As Thorn Glacier II LED.



With aluminium reflector



With prismatic glass reflector



Lamps

LED 1.2-56W

Standards

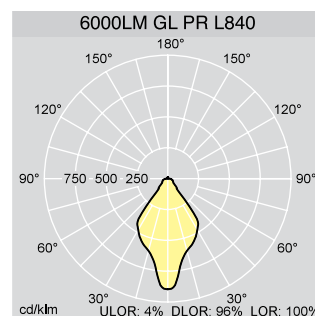
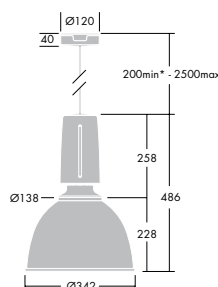
CE EN 60598 EN 55015 IP20 T_a25

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Glacier II LED			
GLACIER II LED 3000 HFIX AL L830	4.80	96221099	GL3000XAL
GLACIER II LED 3000 HFIX GL OP L830	6.50	96221098	GL3000XGLOP
GLACIER II LED 3000 HFIX GL PR L830	6.80	96221097	GL3000XGLPR
GLACIER II LED 3000 HFIX PC PR L830	5.00	96221096	GL3000XPCPR
GLACIER II LED 3500 HFIX AL L840	4.80	96221103	GL3500XAL
GLACIER II LED 3500 HFIX GL OP L840	6.50	96221102	GL3500XGLOP
GLACIER II LED 3500 HFIX GL PR L840	6.80	96221101	GL3500XGLPR
GLACIER II LED 3500 HFIX PC PR L840	5.00	96221100	GL3500XPCPR
GLACIER II LED 5500 HFIX AL L830	4.80	96221107	GL5500XAL
GLACIER II LED 5500 HFIX GL OP L830	6.50	96221106	GL5500XGLOP
GLACIER II LED 5500 HFIX GL PR L830	6.80	96221105	GL5500XGLPR
GLACIER II LED 5500 HFIX PC PR L830	5.00	96221104	GL5500XPCPR
GLACIER II LED 6000 HFIX AL L840	4.80	96221111	GL6000XAL
GLACIER II LED 6000 HFIX GL OP L840	6.50	96221110	GL6000XGLOP
GLACIER II LED 6000 HFIX GL PR L840	6.80	96221109	GL6000XGLPR
GLACIER II LED 6000 HFIX PC PR L840	5.00	96221108	GL6000XPCPR
Glacier II LED Emergency			
GLACIER II LED 3000 HFIX E3 AL L830	5.10	96221131	GL3000XEAL
GLACIER II LED 3000 HFIX E3 GL PR L830	7.10	96221129	GL3000XEGLPR
GLACIER II LED 3000 HFIX E3 PC PR L830	5.30	96221128	GL3000XEPCPR
GLACIER II LED 3500 HFIX E3 AL L840	5.10	96221135	GL3500XEAL
GLACIER II LED 3500 HFIX E3 GL PR L840	7.10	96221133	GL3500XEGLPR
GLACIER II LED 3500 HFIX E3 PC PR L840	5.30	96221132	GL3500XEPCPR
GLACIER II LED 5500 HFIX E3 AL L830	5.10	96221139	GL5500XEAL
GLACIER II LED 5500 HFIX E3 GL PR L830	7.10	96221137	GL5500XEGLPR
GLACIER II LED 5500 HFIX E3 PC PR L830	5.30	96221136	GL5500XEPCPR
GLACIER II LED 6000 HFIX E3 AL L840	5.10	96221143	GL6000XEAL
GLACIER II LED 6000 HFIX E3 GL PR L840	7.10	96221141	GL6000XEGLPR
GLACIER II LED 6000 HFIX E3 PC PR L840	5.30	96221140	GL6000XEPCPR
Glacier II LED Accessory			
THORN CEILING ROSE	0.50	96205307	GLCR

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Glacier II



www.thornlighting.co.uk/GLCR

Modern, decorative pendant in two sizes with a choice of light sources and direct or direct/indirect reflectors



- Easy installation
- 2 sizes and 4 different reflectors to fit a wide range of applications
- Ceiling rose in same design to complete the stylish look

Materials/Finish

Housing: die-cast aluminium with satin grey finish

Reflector: prismatic polycarbonate, prismatic or opal glass and spun aluminium in textured grey

Suspension wire: steel

Optional Protective lamp cover: frosted glass

Ceiling Rose: die-cast aluminium with satin grey finish and white plastic

Installation/Mounting

Suspension: adjustable quick-lock 2.5m single wire suspension (supplied). Similar length of pre-installed braided flame retardant silicon cable 3 x 0.75mm silicon cable (5 x 0,75mm for dimmable versions) without plug for easy, neat installation

Visible installation: mounts directly into the ceiling rose (ordered separately). 2 x 3 pole terminal block (20x30x30mm).

Concealed installation possible.

Housing neck features bayonet cap type mount for quick and easy reflector connection.

Repositional housing sleeve to facilitate maintenance of control gear. Metal Halide (HIT) versions supplied with frosted glass protective lamp cover. Frosted glass protective lamp cover available as an accessory for fluorescent (TC-TEL) versions.

Specification

To specify state:

Large/small decorative pendant with metal housing on single wire suspension for 18/26W TC-T, 18/26/42/57W TC-TEL, 20W HIT-TC-CE, 35/70/150W HIT-CE lamps. With prismatic/opal glass/prismatic polycarbonate/spun aluminium reflector and pre-installed 2.5m (3/5x0.75mm) flame retardant halogen free mains cable. As Thorn Glacier II.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Glacier II Small, prismatic reflector			
GLACIER II S 1X18W TC-TEL HF PRM REL L840	3.50	96548029	GLS118ZPR
GLACIER II S 1X18W TC-TEL HFA PRM REF L840	3.70	96548030	GLS118APR
GLACIER II S 1X20W HIT-CE HF PRM REF L830	4.00	96548015	GLS120ZPR
GLACIER II S 1X35W HIT-CE HF PRM REF L830	4.00	96548016	GLS135ZPR
Glacier II Small, aluminium reflector			
GLACIER II S 1X18W TC-TEL HF ALU REF L840	2.00	96548027	GLS118ZAL
GLACIER II S 1X18W TC-TEL HFA AL REF L840	2.00	96548028	GLS118AAL
GLACIER II S 1X20W HIT-CE HF ALU REF L830	2.50	96239974	GLS120ZAL
GLACIER II S 1X35W HIT-CE HF ALU REF L830	2.50	96548014	GLS135ZAL
Glacier II Small, opal reflector			
GLACIER II S 1X18W TC-TEL HF OP REFL L840	3.00	96548031	GLS118ZOP
GLACIER II S 1X18W TC-TEL HFA OP REF L840	3.00	96548032	GLS118AOP
GLACIER II S 1X20W HIT-CE HF OP REF L830	3.50	96548017	GLS120ZOP
GLACIER II S 1X35W HIT-CE HF OP REF L830	3.50	96548018	GLS135ZOP
Glacier II Large, prismatic reflector			
GLACIER II 1X26W TC-TEL HFI PRM REF L840	7.60	96550445	GLL126DPR
GLACIER II 1X26W TC-TEL HF PRM REF L840	5.20	96548039	GLL126ZPR
GLACIER II 1X42W TC-TEL HFI PRM REF L840	7.50	96550448	GLL142DPR
GLACIER II 1X42W TC-TEL HF PRM REF L840	5.20	96548041	GLL142ZPR
GLACIER II 1X57W TC-TEL HFI PRM REF L840	7.50	96550452	GLL157DPR
GLACIER II 1X57W TC-TEL HF PRM REF L840	5.20	96548043	GLL157ZPR
GLACIER II 1X70W HIT-CE HF PRM REF L830	5.70	96548021	GLL170ZPR
GLACIER II 1X150W HIT-CE HF PRM REF L830	5.70	96548022	GLL1150ZPR
Glacier II Large, aluminium reflector			
GLACIER II 1X26W TC-TEL HFI AL REF L840	4.50	96550443	GLL126DAL
GLACIER II 1X26W TC-TEL HF ALU REFL L840	3.20	96548033	GLL126ZAL
GLACIER II 1X42W TC-TEL HFI ALU REF L840	4.40	96550447	GLL142DAL
GLACIER II 1X42W TC-TEL HF ALU REFL L840	3.20	96548035	GLL142ZAL
GLACIER II 1X57W TC-TEL HFI ALU REF L840	4.40	96550451	GLL157DAL
GLACIER II 1X57W TC-TEL HF ALU REFL L840	3.20	96548037	GLL157ZAL
GLACIER II 1X70W HIT-CE HF ALU REF L830	3.70	96548019	GLL170ZAL
GLACIER II 1X150W HIT-CE HF ALU REF L830	3.70	96548020	GLL1150ZAL



Lamps

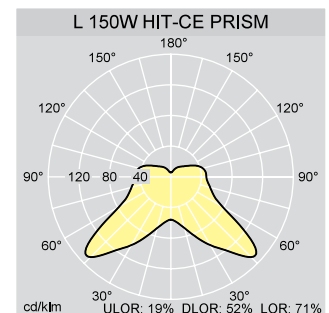
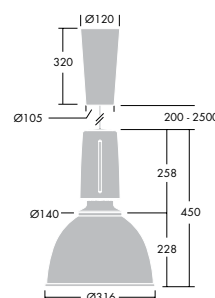
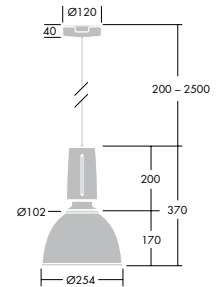
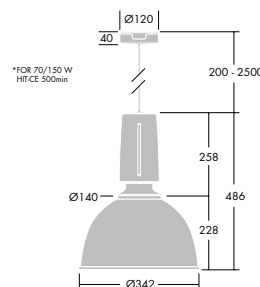
	HIT G12 (MT)	G12	70W
	HIT-CE (MT)	G12	20-150W
	TC-TEL (FSM)	GX24q-5	18-57W

Standards



Description	Wt (kg)	SAP Code	Cat. No.
Glacier II Large, opal reflector			
GLACIER II 1X26W TC-TEL HFI OP REF L840	5.94	96550444	GLL126DOP
GLACIER II 1X26W TC-TEL HF OP REF L840	5.00	96548046	GLL126ZOP
GLACIER II 1X42W TC-TEL HFI OP REFL L840	5.84	96550449	GLL142DOP
GLACIER II 1X42W TC-TEL HF OP REF L840	5.00	96548048	GLL142ZOP
GLACIER II 1X57W TC-TEL HFI OP REFL L840	5.84	96550453	GLL157DOP
GLACIER II 1X57W TC-TEL HF OP REFL L840	5.00	96548050	GLL157ZOP
GLACIER II 1X70W HIT-CE HF OP REFL L830	5.50	96548023	GLL170ZOP
GLACIER II 1X150W HIT-CE HF OP REFL L830	5.50	96548024	GLL1150ZOP
Glacier II Large, polycarbonate prismatic reflector			
GLACIER II 1X26WTC-TEL HFI PC PR REF L840	3.80	96550446	GLL126DPC
GLACIER II 1X26W TC-TEL HF PC PR REF L840	3.50	96548052	GLL126ZPC
GLACIER II 1X42W TC-TEL HFI PC PR REF L840	3.70	96550450	GLL142DPC
GLACIER II 1X42W TC-TEL HF PC PR REF L840	3.50	96548054	GLL142ZPC
Glacier II Large, prismatic reflector, emergency			
GLACIER2 1X42WTC-TELHF E3TXLED PRISRFL840		96241688	GLL142ZEXPR
GLACIER2 1X57WTC-TELHF E3TXLED PRISRFL840		96241691	GLL157ZEXPR
Glacier II Large, aluminium reflector, emergency			
GLACIER2 1X42WTC-TELHF E3TXLED ALURFL840		96241687	GLL142ZEXAL
GLACIER2 1X57WTC-TEL HF E3TXLED ALURFL840		96241690	GLL157ZEXAL
Glacier II Large, polycarbonate prismatic reflector, emergency			
GLACIER2 1X42WTC-TELHF E3TXLED PCPRREL840		96241689	GLL142ZEXPC
GLACIER2 1X57WTC-TELHF E3TXLED PCPRREL840		96241692	GLL157ZEXPC
Glacier II Accessories			
GLACIER II PROTECTIVE LAMP GLASS	0.75	96205380	GLIGL
GLACIER II PROTECTIVE PC COVER	0.10	96206178	GLPCCOV
GLACIER II S PROTECTIVE LAMP GLASS	0.30	96205381	GLSGL
THORN CEILING ROSE	0.50	96205307	GLCR
THORN CEILING ROSE 1X26W TC-TEL HF E3TX	2.00	96205348	GLCR26ZEX
THORN CEILING ROSE 1X42W TC-TEL HF E3TX	2.00	96205349	GLCR42ZEX

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Fata Morgana Pendant



www.thornlighting.co.uk/FAMP

Pendant mounted single or twin upright with elegant curved shade for glare free lighting, ideal for spacious locations



- Downlight and uplight can be separately switched
- White cable or rod suspension
- Pendant diameters from 600mm to 1150mm
- Complementary wall, ceiling and floor standing versions available

Materials/Finish

Shade and bowls: aluminium with lacquered white finish
Suspension: white

Installation/Mounting

Suspended from ceiling by 3x 4m cables (standard length) or via 3 rods (min 450mm, max 1000mm). Electrical cable is contained within the suspension cable. Cable length is adjustable in ceiling rose. HIT version: Gear with ceiling rose/ignitor is at light source. HIT and QT-DE supplied with safety glass.

Specification

To specify state:
White aluminium direct/indirect architectural pendant luminaire with upper bowl/shade and lower bowl, for use with: 150W QT/300W/500W/1000W TH-DE/3 x 42W TC-TEL/70W/250W HIT-DE lamps for the direct reflected lighting option or 500W/1000W TH-DE/1 x 42W TC-TEL/250W HIT-DE (complete with auxiliary run up) lamps for the indirect lighting option. For cable or rod suspension, containing supply cable.
As Thorn Fata Morgana - Pendant.

Fata Morgana

Surface



www.thornlighting.co.uk/FAMO

Elegantly designed to complement pendant and floor standing versions.



Lamps

	QT 18 (HSGT)	B 15d	150W
	QT-DE 12 (HDG)	R7s	500W
	TC-TEL (FSM)	GX24q-4	42W

Standards



- Classic architectural design
- Choice of shade size: Ø600mm, Ø800mm or Ø1000mm
- 3 lamp options: 150W or 500W tungsten and high frequency 42W TC-TEL
- Complements Fata Morgana wall, pendant and floor standing versions

Materials/Finish

All aluminium construction with white shade and bowl.

Installation/Mounting

Fixes directly onto ceiling rose.

Specification

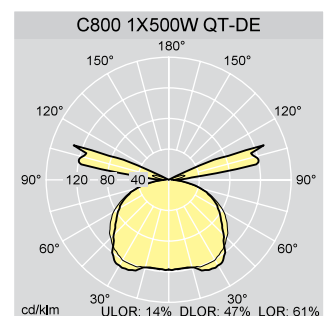
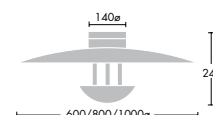
To specify state:
Architectural ceiling mounted 150W/500W tungsten, 3 x 42W TC-TEL luminaire. Indirect lighting effect with white shade and bowl.
As Thorn Fata Morgana Ceiling.

Ordering Guide

Lamps to be ordered separately (except for TC-TEL version)

Description	Wt (kg)	SAP Code	Cat. No.
Fata Morgana Ceiling			
FATA MORGANA C1000 3X42W TC-TEL HF L840	7.20	96547697	FMC10342Z
FATA MORGANA C600 1X150W QT	2.90	96004300	FMC61150
FATA MORGANA C800 1X500W QT-DE	4.50	96004301	FMC81500
Fata Morgana Wall			
FATA MORGANA CW 390 1X150W QT	2.20	96004320	FMCW1150

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Fata Morgana

Floor Standing



www.thornlighting.co.uk/FAMF

Floor standing tungsten halogen upright with elegant curved shade, complementing pendant, wall and ceiling versions



Lamps

QT-DE 12 (HDG) R7s 300W

Standards



- Indirect lighting effect
- White shade and bowl supported by 3 chrome rods and circular base
- Includes in-line switch

Materials/Finish

Shade/bowl: white aluminium
Rods: chrome painted steel

Installation/Mounting

Supplied complete with 3m white electrical cable, plug and switch. QT-DE versions supplied with safety glass

Specification

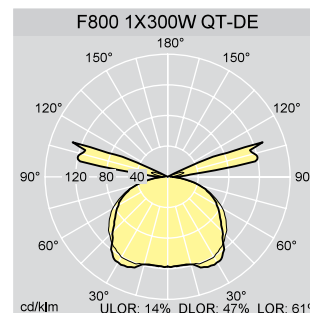
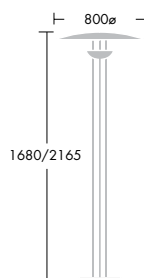
To specify state:
Architectural floor standing 300W tungsten luminaire. Indirect lighting effect with 800mm white shade and bowl with 3 chrome rods and base. As Thorn Fata Morgana - Floor standing.

Ordering Guide

Lamps to ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Fata Morgana Floor			
FATA MORGANA F800 1X300W QT-DE A8	10.50	96004329	FMF81300

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Garbo Pendant



www.thornlighting.co.uk/GARP

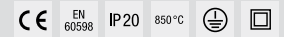
Stylish tubular pendant with satin diffuser for a soft, diffused light, complements the Garbo ceiling and wall range



Lamps

TC-L (FSD) 2G11 24W

Standards



- Classic retro look
- Decorative ring in aluminium
- Easy installation

Materials/Finish

Diffuser: satin polycarbonate
Housing: sheet steel
Fixings: brushed stainless steel
Decorative ring: aluminium

Installation/Mounting

All variants are delivered with 2.6m white cable (without plug).

Specification

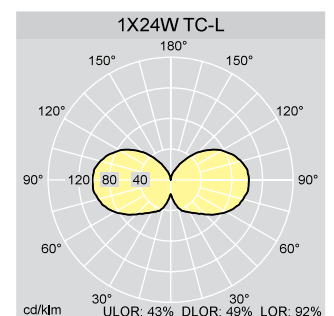
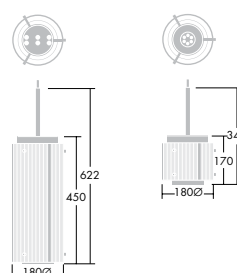
To specify state:
Stylish pendant luminaire for 24W TC-L compact fluorescent with soft tubular shape and brushed stainless steel fixings.
As Thorn Garbo Pendant.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Garbo Pendant Large			
GARBO P 24W TC-L HF L840	2.00	96547692	GBP124Z
GARBO P 2X24W TC-L HF L840	2.00	96547691	GBP224Z

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Garbo Ceiling



www.thornlighting.co.uk/GARC

Stylish, tubular ceiling luminaire with satin diffuser for a "soft" light, complements the Garbo pendant and wall range



Lamps

TC-TEL (FSM) GX24q-3 18-26W

Standards

CE EN 60598 IP20 850°C

- Classic retro look
- Attractive cylindrical diffuser in satin polycarbonate
- Throws light onto the ceiling, reducing contrast between ceiling and luminaire
- Decorative ring in aluminium

Materials/Finish

Diffuser: satin polycarbonate
Housing: sheet steel
Fixings: brushed stainless steel
Decorative ring: aluminium

Installation/Mounting

Distance between mounting fixings is 100mm. Piano key 3 x 1.5mm². Looping possible.

Specification

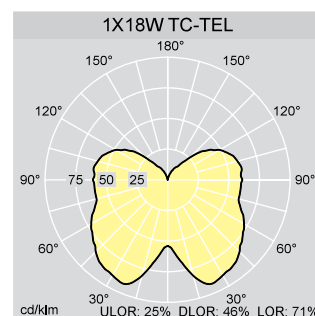
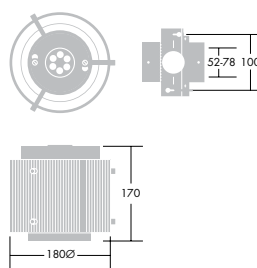
To specify state:
Mellow light ceiling luminaire for 18-26W TC-TEL compact fluorescent lamps, with soft tubular shape and brushed stainless steel fixings.
As Garbo Ceiling.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Garbo Ceiling			
GARBO C 18W TC-TEL HF L840	1.00	96547687	GBC118Z
GARBO C 26W TC-TEL HF L840	1.00	96547686	GBC126Z

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Soul Surface




www.thornlighting.co.uk/SOUL

A striking slimline surface mounted luminaire designed around the T16-R (T5-C) circular fluorescent lamp.



Lamps

 T5-R (FSCH) 2GX13 40-55W

Standards



- Slimline shape creates a visual focus for minimal interiors
- Choice of 2 diffusers to create a Soft (IP40) or Direct (IP20) effect
- Silver colour with the option of white or anthracite versions to order
- Slots on top of the body provide a decorative uplight (10%)

Materials/Finish

Body: Cast aluminium, exterior textured silver painted finish, interior white painted finish.

Interior is supplied with protective transparent foil to prevent dust build up. Diffusers: (soft and direct) : cast opal polycarbonate.

Installation/Mounting

Mounts directly onto wall or ceiling. 3 way terminal block for 3 x 2.5mm² cable.

Specification

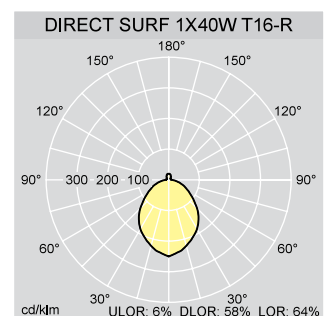
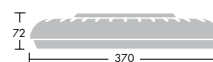
To specify state:
Surface mounted circular luminaire with cast aluminium body and opal polycarbonate diffuser for T16-R (T5-C) lamps.
As Thorn Soul.

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Soul Surface Soft			
SOUL SOFT SURF 1X40W T16-R HF SIL	3.80	96004598	SOSS140ZS
SOUL SOFT SURF 1X55W T16-R HF SIL	3.80	96004599	SOSS155ZS
Soul Surface Direct			
SOUL DIRECT SURF 1X40W T16-R HF SIL	3.80	96004600	SODS140ZS
SOUL DIRECT SURF 1X55W T16-R HF SIL	3.80	96004601	SODS155ZT

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Soul Pendant



www.thornlighting.co.uk/SOUP

A striking slimline pendant designed for circular T16-R (T5-C) lamps, with complementary surface model



Lamps

T5-R (FSCH) 2GX13 40-55W

Standards



- Slimline shape creates a visual focus for minimal interiors
- Slots on top of the body provide a decorative uplight (10%)
- Choice of 2 diffusers to create a Soft (IP40) or Direct (IP20) effect
- Silver colour with the option of white or anthracite versions to order

Materials/Finish

Body: Cast aluminium, exterior textured silver painted finish, interior white painted finish. Interior is supplied with protective transparent foil to prevent dust build up.
Diffusers (Soft and Direct): Cast opal polycarbonate.

Installation/Mounting

Suspended: Suspended ceiling box with integral gear and 3 x 3m adjustable steel wire suspension supplied. Wires to be fastened in canopy when it has been mounted on the ceiling. 3 way terminal block for 3 x 2.5mm² cable.

Specification

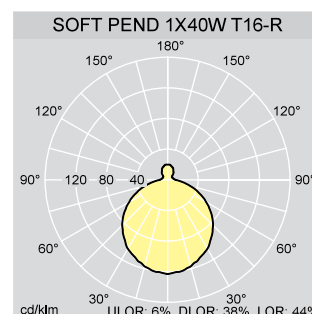
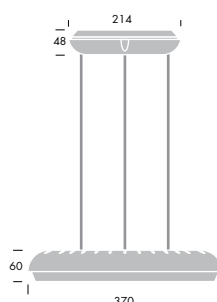
To specify state:
Suspended circular luminaire with cast aluminium body and opal polycarbonate diffuser for T16-R lamps. As Thorn Soul Pendant.

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Soul Pendant Soft			
SOUL SOFT PEND 1X40W T16-R HF SIL	4.00	96004594	SOSP140ZS
SOUL SOFT PEND 1X55W T16-R HF SIL	4.00	96004595	SOSP155ZS
Soul Pendant Direct			
SOUL DIRECT PEND 1X40W T16-R HF SIL	4.00	96004596	SODP140ZS
SOUL DIRECT PEND 1X55W T16-R HF SIL	4.00	96004597	SODP155ZS

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INDOOR LIGHTING



Trunking and Battens



New Trunking Range
132

COMING SOON



ArrowSlim T5
134



PopPack
136



Popular Range
142





Toyota Bilcenter, Oslo Norway

New Trunking Range

Suitable for a wide range of application demands. From a simple continuous light line to a fully configurable lighting installation.



- Our new ranges have features to suit all retail and industrial demands.
- **Easy to order and simple to plan** – Optimised configuration with minimal order codes based around 1.5m modular lengths, saves time and complexity in project planning stages
- **Flexible configuration** – unique ‘flexi-link’ accessory ensure luminaire placement anywhere along the trunking, giving you freedom in lighting design layout
- **Contemporary aesthetic** – blends into the application settings offering multiple distributions from one consistent design
- **Energy saving** - LED (up to 118 lumen/W), dimming and sensor (daylight/presence) options to reduce energy costs and carbon emissions
- **Breadth of choice** – dedicated optics, lumen packages, spots and track provide the right lighting solution for your application
- **Rapid installation and maintenance** – fast to install features saves project time and money

	Trunking in a box	Trunking designed for flexibility
	Offers rapid installation straight out of the box for projects that require simple continuous lines of light	Designed for intelligent lighting projects that require modern design aesthetics, performance optics, adaptable luminaire placement, accent lighting or dynamic controls
Design appearance	Basic	Modern decorative
Configuration	Simple  100%	Flexible  100%  Custom  50%
Flexibility	None	Flexible luminaire positioning Sensors intergration Spot and track intergration White reflector houses multiple dedicated optic inserts
Installation	Complete ready to install Fixed luminaire position Lengths - 1.5m / 3.0m Cables - 5x2.5mm ²	Trunking and luminaire ordered separately Fixed or flexible luminaire position Lengths - 1.5m / 3.0m / 4.5m Cables - 7x2.5mm ²
Optical choice	White (solid) Aluminium wide Aluminium rack	White (solid/perforated) Double asymmetric - A/A Shop I Aluminium wide Shop C (perforated) Aluminium rack Glare control louvres/MPT White asymmetric



Arrowslim

T5



www.thornlighting.co.uk/ARST

A slim profile T16 (T5) batten with simple design aesthetic and a choice of diffusers, reflectors and connect versions



- Ultra slim profile design (38mm width)
- Three-position rotating lampholder provides maximum mounting flexibility for single lamp versions
- Diffuser and reflector attachments available to enhance lighting performance
- Connect, ready to install, versions for rapid installation

Materials/Finish

Spine: steel, white enamel finish (RAL 9010)

Lampholder: polycarbonate, white finish

Diffuser: clear reeded polycarbonate and clear reeded acrylic

Reflector: steel, white enamel finish (RAL 9010)

Installation/Mounting

Suitable for surface mounting or in recessed areas. Surface mounting via keyhole slots. On single lamp versions, three position rotating lampholders allows lamp to be located either side of the spine. For Connect version: Fix and connect first luminaire then simply plug in and fix subsequent luminaires. Use intermediate connectors to feed other rows up to 10A maximum. Different connection kit options are available. Cover plates and reflector attachments retained by plastic spring latches.

Specification

To specify state:

Slim single or twin lamp fluorescent batten for 14/21/28/35/49/54/80W, T16(T5) linear fluorescent lamps, with connect version and optional diffuser and attachments.

As Thorn Arrowslim T5.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Arrowslim T5 Battens			
ARROSLM 1X14W L840	0.75	96211392	AR114Z
ARROSLM 1X21W L840	0.85	96211394	AR121Z
ARROSLM 1X28W L840	1.10	96211396	AR128Z
ARROSLM 1X35W L840	1.40	96211398	AR135Z
ARROSLM 1X49W L840	1.40	96211408	AR149Z
ARROSLM 1X54W L840	1.40	96211410	AR154Z
ARROSLM 1X80W L840	1.40	96211412	AR180Z
ARROSLM 2X21W L840	1.00	96211402	AR221Z
ARROSLM 2X28W L840	1.20	96211404	AR228Z
ARROSLM 2X35W L840	1.60	96211406	AR235Z
ARROSLM 2X49W L840	1.60	96211414	AR249Z
ARROSLM 2X54W L840	1.60	96211416	AR254Z
Arrowslim T5 Connect versions			
ARROSLM CONNECT 1X14W L840	0.75	96211418	AR114ZC
ARROSLM CONNECT 1X21W L840	0.95	96211420	AR121ZC
ARROSLM CONNECT 1X28W L840	1.24	96211422	AR128ZC
ARROSLM CONNECT 1X35W L840	1.47	96211424	AR135ZC
ARROSLM CONNECT 1X49W L840	1.40	96211434	AR149ZC
ARROSLM CONNECT 1X54W L840	1.59	96211436	AR154ZC
ARROSLM CONNECT 1X80W L840	1.63	96211438	AR180ZC
ARROSLM CONNECT 2X21W L840	1.15	96211428	AR221ZC
ARROSLM CONNECT 2X28W L840	1.39	96211430	AR228ZC
ARROSLM CONNECT 2X35W L840	1.73	96211432	AR235ZC
ARROSLM CONNECT 2X49W L840	1.83	96211440	AR249ZC
ARROSLM CONNECT 2X54W L840	1.50	96211442	AR254ZC
Arrowslim T5 High Frequency Dimmable versions			
ARROSLM 1X21W HFI L840	1.00	96549647	AR121D
ARROSLM 1X28W HFI L840	1.10	96549653	AR128D
ARROSLM 1X35W HFI L840	1.55	96549659	AR135D
ARROSLM 1X49W HFI L840	1.50	96549670	AR149D
ARROSLM 1X54W HFI L840	1.50	96549676	AR154D
ARROSLM 2X21W HFI L840	1.19	96549683	AR221D
ARROSLM 2X28W HFI L840	1.50	96549685	AR228D
ARROSLM 2X35W HFI L840	1.70	96549688	AR235D
ARROSLM 2X49W HFI L840	1.70	96549692	AR249D
ARROSLM 2X54W HFI L840	1.38	96549698	AR254D



Lamps

T5 (FDH) G5 14-80W

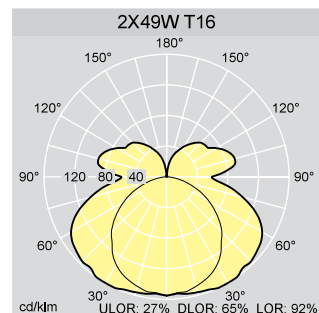
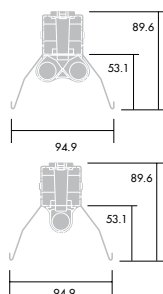
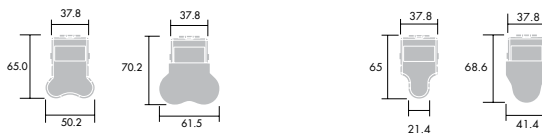
Standards

EN 60598 EN 60320 IP20 IK02 T_a25
 650 °C 850 °C

Description	Wt (kg)	SAP Code	Cat. No.
Arrowslim T5 Emergency versions - Remote Box			
ARROSLM 1X28W E3R L840	2.30	96211446	AR128ZER
ARROSLM 1X54W E3R L840	2.30	96211448	AR154ZER
ARROSLM 2X28W E3R L840	2.50	96211447	AR228ZER
ARROSLM 2X54W E3R L840	2.50	96211449	AR254ZER
Arrowslim T5 Emergency versions			
ARROSLM 1X35W E3 L840	2.49	96211450	AR135ZE
ARROSLM 1X49W E3 L840	2.47	96211453	AR149ZE
ARROSLM 2X35W E3 L840	2.80	96211452	AR235ZE
ARROSLM 2X49W E3 L840	2.70	96211454	AR249ZE
Arrowslim T5 SelfTest Emergency versions			
ARROSLM 1X35W E3T L840	3.35	96211457	AR135ZET
ARROSLM 1X49W E3T L840	2.63	96211459	AR149ZET
ARROSLM 2X35W E3T L840	4.00	96211458	AR235ZET
ARROSLM 2X49W E3T L840	2.83	96211460	AR249ZET
Arrowslim T5 Emergency versions - High Frequency Dimmable			
ARROSLM 1X35W HFI E3 L840	2.90	96549663	AR135DE
ARROSLM 1X49W HFI E3 L840	24.00	96549671	AR149DE
ARROSLM 1X49W HFI E3T L840	2.61	96549672	AR149DET
ARROSLM 2X35W HFI E3 L840	2.90	96549689	AR235DE
ARROSLM 2X35W HFI E3T L840	0.51	96549690	AR235DET
ARROSLM 2X49W HFI E3 L840	1.19	96549693	AR249DE
ARROSLM 2X49W HFI E3T L840	2.80	96549694	AR249DET
Arrowslim T5 Reflector			
ARROSLM ASYM REFLECTOR 1X49W	0.50	96309200	AR149ASYREF
ARROSLM ASYM REFLECTOR 1X54W	0.40	96309199	AR154ASYREF
ARROSLM REFLECTOR 1/2X49	1.00	96218674	AR49REF
ARROSLM REFLECTOR 1/2X54	0.80	96218673	AR54REF
Arrowslim T5 Clear Reeded Acrylic Diffuser			
ARROSLM DIFFUSER 1X49 RE AC	0.35	96218587	AR149ACRDIF
ARROSLM DIFFUSER 1X54 RE AC	0.28	96218585	AR154ACRDIF
Arrowslim T5 Clear Reeded Polycarbonate Diffuser			
ARROSLM DIFFUSER 1X14 RE PC	0.14	96218597	AR114PCRDIF
ARROSLM DIFFUSER 1X21 RE PC	0.21	96218599	AR121PCRDIF
ARROSLM DIFFUSER 1X49 RE PC	0.35	96218595	AR149PCRDIF
ARROSLM DIFFUSER 1X54 RE PC	0.28	96218593	AR154PCRDIF
ARROSLM DIFFUSER 2X28 RE PC	0.40	96218594	AR228PCRDIF
ARROSLM DIFFUSER 2X49 RE PC	0.50	96218596	AR249PCRDIF

Description	Wt (kg)	SAP Code	Cat. No.
Arrowslim T5 Connect accessories			
ARROSLM 0.5M INT CONNECTOR TWN (M&F)	0.10	96217797	ARIC500LSOH
ARROSLM 1.0M INT CONNECTOR TWN (M&F)	0.10	96217796	ARIC1000LSOH
ARROSLM 1.0M WHITE START LEAD	0.10	96217798	ARMCLSOH
ARROSLM CLOSE CONNECTOR PACK OF 5	0.01	96004223	ARCC
ARROSLM CONNECTORS TWN PACK OF 5 (M&F)	0.04	96007454	ARSC
ARROSLM LOCK SLIDE TWN PACK OF 5 (M&F)	0.004	96008186	ARLS
ARROSLM T16 DIFFUSER CPL 1 WHI	0.20	96218786	ARCPL1
ARROSLM T16 DIFFUSER CPL 2 WHI	0.20	96218787	ARCPL2

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PopPack Pro

Battens and modules



www.thornlighting.co.uk/PPPB

Innovative new fluorescent batten range featuring patented quick-fix mounting, sensor/emergency plug-ins and attachments



- Contemporary slimline design
- Quick and easy installation using patented quick fix mounting plate
- Flexibility - plug and play sensor/emergency modules for safe and simple conversion
- A choice of attachments with outstanding optical performance

Materials/Finish

Batten: pre-coated roll form steel, white
End caps/lamp holders: injection moulded polycarbonate, white
FixExpress mounting plates: injection moulded polycarbonate, white
Sensor and emergency modules: injection moulded polycarbonate
ClipLine diffusers (T16 only): opal acrylic

Installation/Mounting

PopPack Pro comes with FixExpress mounting plates to ensure rapid installation directly onto a surface or BESA box (for trunking via 20mm connectors an accessory kit is required). All versions have 600mm fixing centres except for 14/24W versions which are at 445mm centres. Supplied with a screw terminal block that accepts 2x2.5mm² cable and is suitable for loop in/loop out wiring. All internal wiring uses halogen free cable.
Sensor and emergency modules push fit on the ends, after the end caps have been removed, and are connected with 'one-way' plugs and sockets (not suitable for 14/24W versions)

Specification

To specify state:
T16/T26 fluorescent batten of slim cross section with open gear tray and snap on cover. With quick-fix mounting system and plug and play sensor/emergency flexibility.
As Thorn PopPack Classic



Twin batten



Twin ClipLine diffuser



Presence/daylight detection module



Single ClipLine diffuser



LED emergency module

Lamps

	LED		1W
	T5 (FDH)	G5	14-54W
	T8 (FD)	G13	36-70W

Standards

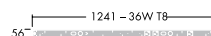
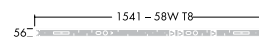
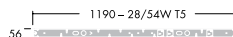
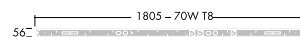
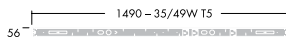
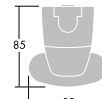
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850 °C					

Ordering Guide

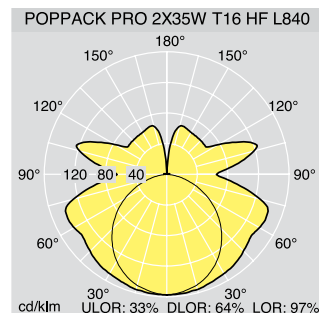
Supplied complete with lamp(s) and mounting plates

Description	Wt (kg)	SAP Code	Cat. No.
PopPack Pro T16 (T5) batten			
POPPACK PRO 1X14W T16 HF L840	1.00	96548068	PPP114Z
POPPACK PRO 1X28W T16 HF L840	1.20	96548069	PPP128Z
POPPACK PRO 1X35W T16 HF L840	1.30	96548071	PPP135Z
POPPACK PRO 1X49W T16 HF L840	1.30	96548073	PPP149Z
POPPACK PRO 1X54W T16 HF L840	1.20	96548075	PPP154Z
POPPACK PRO 2X28W T16 HF L840	1.20	96548070	PPP228Z
POPPACK PRO 2X35W T16 HF L840	1.40	96548072	PPP235Z
POPPACK PRO 2X49W T16 HF L840	1.40	96548074	PPP249Z
POPPACK PRO 2X54W T16 HF L840	1.20	96548076	PPP254Z
PopPack Pro T16 (T5) dimmable batten			
POPPACK PRO 1X49W T16 HFI L840	5.40	96549703	PPP149D
POPPACK PRO 1X54W T16 HFI L840	2.08	96549705	PPP154D
POPPACK PRO 2X49W T16 HFI L840	2.30	96549706	PPP249D
POPPACK PRO 2X54W T16 HFI L840	1.60	96549707	PPP254D
PopPack Pro T16 (T5) batten with ClipLine diffuser			
POPPACK PRO 1X24W T16 HF OP L840	1.20	96548077	PPP124ZOP
POPPACK PRO 1X49W T16 HF OP L840	1.70	96548078	PPP149ZOP
POPPACK PRO 1X54W T16 HF OP L840	1.50	96548080	PPP154ZOP
POPPACK PRO 2X49W T16 HF OP L840	1.90	96548079	PPP249ZOP
POPPACK PRO 2X54W T16 HF OP L840	1.60	96548081	PPP254ZOP
PopPack Pro T26 (T8) batten			
POPPACK PRO 1X36W T26 HF L840	1.20	96548062	PPP136Z
POPPACK PRO 1X58W T26 HF L840	1.30	96548064	PPP158Z
POPPACK PRO 1X70W T26 HF L840	1.50	96548066	PPP170Z
POPPACK PRO 2X36W T26 HF L840	1.30	96548063	PPP236Z
POPPACK PRO 2X58W T26 HF L840	1.40	96548065	PPP258Z
POPPACK PRO 2X70W T26 HF L840	1.40	96548067	PPP270Z
PopPack LED emergency module			
POPPACK LED E3 KIT	0.40	96504901	PPPE
POPPACK LED E3T KIT	0.40	96504902	PPPET

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E3/SLD KIT



PopPack Pro

Attachments and accessories

www.thornlighting.co.uk/PPPA

Wide range of performance enhancing attachments delivering efficiency and comfort for a variety of indoor applications



- New family of optics delivers same look and feel to all aspects of installation
- Revolutionary new diffuser design equipped with quickclick installation for quick, easy first time every time installation.
- Cornice attachment ideal for corridor lighting. Right angled to avoid dust trap.
- Robust wire guard - ideal for applications where lamp protection is required from impacts or projectiles

Materials/Finish

TwinLine diffusers: clear prismatic acrylic or opal prismatic acrylic with white polycarbonate end caps
 Asymmetric reflector: white steel
 Cornice attachment: white steel, clear prismatic plastic diffuser with white polycarbonate end caps
 LiteLine white reflector: white steel
 Louvre inserts: white painted steel or Satinbrite aluminium with white polycarbonate end caps
 Wire guard: zinc plated steel wire with white polycarbonate end caps

Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
PopPack Pro ClipLine opal diffuser			
POPPACK PRO 1X14 DIFF KIT SA AC	0.20	96239193	PPP114SADIF
POPPACK PRO 1X28 DIFF KIT SA AC	0.30	96239195	PPP128SADIF
POPPACK PRO 1X35 DIFF KIT SA AC	0.40	96239197	PPP135SADIF
POPPACK PRO 2X28 DIFF KIT SA AC	0.40	96239196	PPP228SADIF
POPPACK PRO 2X35 DIFF KIT SA AC	0.50	96239198	PPP235SADIF
PopPack Pro TwinLine clear prismatic acrylic diffusers			
POPPACK PRO DIFF 1/2X28/54 CL PR AC	1.00	96548089	PPP28/54CLDIF
POPPACK PRO DIFF 1/2X35/49 CL PR AC	1.70	96548090	PPP35/49CLDIF
POPPACK PRO DIFF 1/2X36 CL PR AC	1.00	96548086	PPP36CLDIF
POPPACK PRO DIFF 1/2X58 CL PR AC	1.70	96548087	PPP58CLDIF
POPPACK PRO DIFF 1/2X70 CL PR AC	2.00	96548088	PPP70CLDIF
PopPack Pro TwinLine opal prismatic acrylic diffusers			
POPPACK PRO DIFF 1/2X28/54 OP PR AC	1.00	96548094	PPP28/54OPDIF
POPPACK PRO DIFF 1/2X35/49 OP PR AC	1.70	96548095	PPP35/49OPDIF
POPPACK PRO DIFF 1/2X36 OP PR AC	1.00	96548091	PPP36OPDIF
POPPACK PRO DIFF 1/2X58 OP PR AC	1.70	96548092	PPP58OPDIF
POPPACK PRO DIFF 1/2X70 OP PR AC	2.00	96548093	PPP70OPDIF
PopPack Pro LiteLine white reflectors			
POPPACK PRO REFL 1/2X28/54 RHW	0.80	96548119	PPP28/54REF
POPPACK PRO REFL 1/2X35/49 RHW	0.90	96548120	PPP35/49REF
POPPACK PRO REFL 1/2X36 RHW	0.80	96548116	PPP36REF
POPPACK PRO REFL 1/2X58 RHW	0.90	96548117	PPP58REF
POPPACK PRO REFL 1/2X70 RHW	1.00	96548118	PPP70REF
PopPack Pro Wireguard kit for use with LiteLine white reflector			
POPPACK PRO KIT 1/2X28/54 WG (RHW)	1.50	96548124	PPP28/54WG
POPPACK PRO KIT 1/2X35/49 WG (RHW)	1.70	96548125	PPP35/49WG
POPPACK PRO KIT 1/2X36 WG (RHW)	1.50	96548121	PPP36WG
POPPACK PRO KIT 1/2X58 WG (RHW)	1.70	96548122	PPP58WG
POPPACK PRO KIT 1/2X70 WG (RHW)	1.90	96548123	PPP70WG
PopPack Pro LiteLine white reflector with satinbrite louvre insert			
POPPACK PRO REFL DSB 1/2X28/54	0.90	96548114	PPP28/54SBREF
POPPACK PRO REFL DSB 1/2X35/49	1.00	96548115	PPP35/49SBREF
POPPACK PRO REFL DSB 1/2X36	0.90	96548111	PPP36SBREF
POPPACK PRO REFL DSB 1/2X58	1.00	96548112	PPP58SBREF
POPPACK PRO REFL DSB 1/2X70	1.10	96548113	PPP70SBREF



Cornice attachment



LiteLine white reflector with white louvre insert



LiteLine white reflector with Satinbrite louvre insert



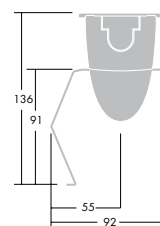
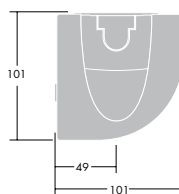
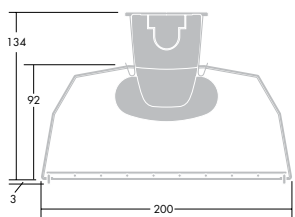
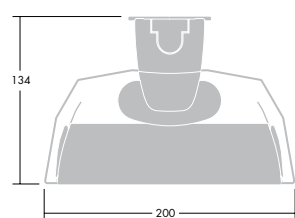
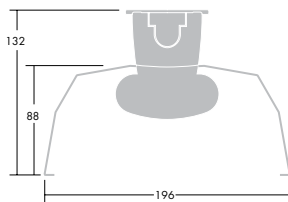
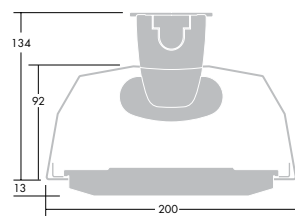
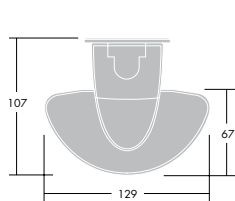
Asymmetric reflector



LiteLine white reflector with wire guard

Description	Wt (kg)	SAP Code	Cat. No.
PopPack Pro LiteLine white reflector with white vane louvre insert			
POPPACK PRO REFL LL 1/2X28/54	1.00	96548109	PPP28/54LVREF
POPPACK PRO REFL LL 1/2X35/49	1.20	96548110	PPP35/49LVREF
POPPACK PRO REFL LL 1/2X36	1.00	96548106	PPP36LVREF
POPPACK PRO REFL LL 1/2X58	1.10	96548107	PPP58LVREF
POPPACK PRO REFL LL 1/2X70	1.20	96548108	PPP70LVREF
PopPack Pro Asymmetric reflector			
POPPACK PRO REFL RAS 1X28/54	0.80	96548099	PPP28/54ASREF
POPPACK PRO REFL RAS 1X35/49	0.90	96548100	PPP35/49ASREF
POPPACK PRO REFL RAS 1X36	0.80	96548096	PPP36ASREF
POPPACK PRO REFL RAS 1X58	0.90	96548097	PPP58ASREF
POPPACK PRO REFL RAS 1X70	1.00	96548098	PPP70ASREF
PopPack Pro Cornice diffuser in clear prismatic			
POPPACK PRO ECU 1X28/54 CL PR PC	1.60	96548104	PPP28/54CCLDIF
POPPACK PRO ECU 1X35/49 CL PR PC	2.40	96548105	PPP35/49CCLDIF
POPPACK PRO ECU 1X36 CL PR PC	1.60	96548101	PPP36CCLDIF
POPPACK PRO ECU 1X58 CL PR PC	2.40	96548102	PPP58CCLDIF
POPPACK PRO ECU 1X70 CL PR PC	2.80	96548103	PPP70CCLDIF
PopPack Pro Accessories			
POPPACK FIXEXPRESS BRA KIT QTY 20	1.00	96239192	PPPF EK
POPPACK PRO TRUNKING ACCESSORY	1.00	96240300	PPPTRK

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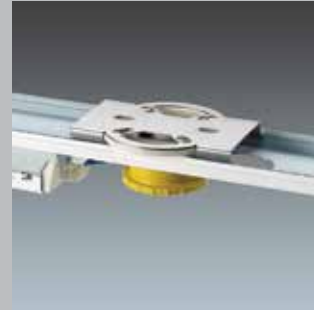


PopPack Compact



www.thornlighting.co.uk/PPCM

Unique, compact batten, complete with lamp and diffuser, delivers high optical performance in a space saving luminaire



Lamps

	LED	1W
	TC-L (FSDH)2G11	55W

Standards

	EN 60598	IP20	IK02	T _a 25	850°C

- Ideal for small space applications
- Multi packs, ideal for ad-hoc installations
- Flexibility - plug and play sensor/emergency modules for safe and simple conversion
- Single point 'Fix Express' mounting system for rapid installation

Materials/Finish

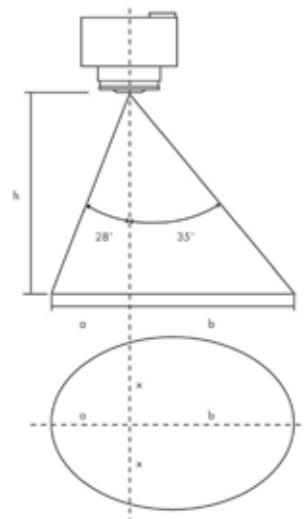
Batten: pre-coated roll form steel, white
 End caps/lamp holders: injection moulded polycarbonate, white
 FixExpress mounting plate: injection moulded polycarbonate
 Sensor and emergency modules: injection moulded polycarbonate, white
 Diffuser: clear prismatic UV stabilised polycarbonate

Installation/Mounting

PopPack Compact comes with one FixExpress mounting plate to ensure rapid installation directly onto a surface or BESA box. Supplied with a screw terminal block which accepts 2.5mm² cable and is suitable for loop in/loop out wiring. Sensor and emergency modules push fit on the ends after the end caps have been removed and are connected with 'one-way' plug and sockets. All internal wiring uses halogen free cable.

Specification

To specify state:
 Compact fluorescent batten with open gear tray and snap on cover. With quick fix mounting system and plug and play sensor/emergency flexibility
 As Thorn PopPack Compact

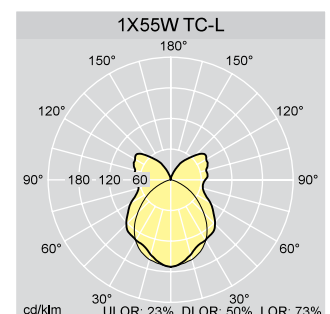
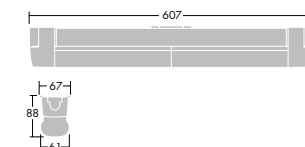
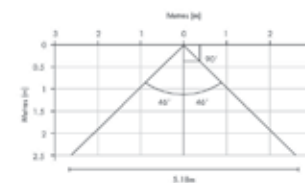


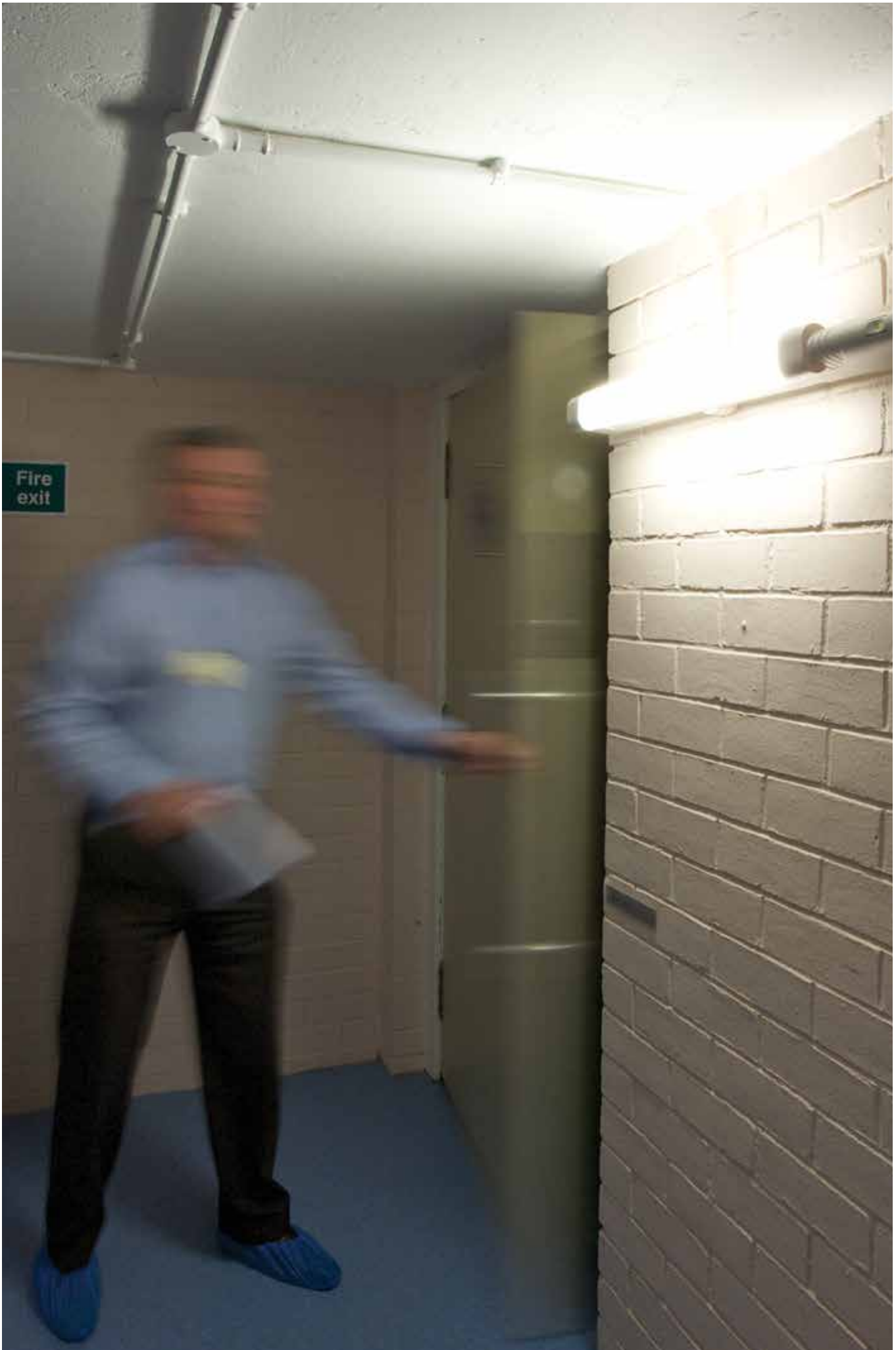
Ordering Guide

Supplied complete with lamp, diffuser and mounting plate

Description	Wt (kg)	SAP Code	Cat. No.
PopPack Compact with diffuser			
POPPACK COMPACT 1X55W TC-L HF L840	1.00	96239202	PPC155Z
POPPACK COMPACT 1X55W TC-L HF L840 QTY 6	6.00	96504899	PPC155ZX6
PopPack Compact LED emergency module			
POPPACK LED E3 KIT	0.40	96504901	PPPE
POPPACK LED E3T KIT	0.40	96504902	PPPET
PopPack Compact SwitchLite module			
POPPACK SLD KIT	0.20	96504903	PPPS

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Popular Range Battens



www.thornlighting.co.uk/POPR

The original Popular Range
fluorescent batten



- Adjustable twin lampholder alters distribution, to suit desired mounting height
- Tool-less, clip-on cover plate for quick installation
- Twist-lock lampholders for reliable electrical contact
- A range of diffusers and reflectors covering every application requirement

Materials/Finish

Batten: rolled steel section in pre-coated high reflectivity white paint. Lampholder assembly: tough white polycarbonate.

Installation/Mounting

Four-way terminal block with capacity for 2 x 2.5mm² cables. Angled terminal block for easy wiring. Ambient temperature: -5°C to 25°C. Normal, dry, indoor atmospheres. Fixings via two BESA piercings, one central and two at fixing centres: 600mm - 500mm, 1200/1500/1800mm - 600mm. Bare battens can be mounted end-to-end (except emergency versions - recommended minimum space between luminaires 50mm). Emergency fixing centres: 600mm, 1110mm and 1410mm.

Specification

To specify state:
Fluorescent batten with adjustable lamp holders (twin only) for beam choice, twist-lock lamp holders and clip in cover plate.
As Thorn Popular Pack.


Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Popular Range T5 battens			
POPPACK BATTEN 1X14W T16 HF L840	0.65	96550703	PP114Z
POPPACK BATTEN 1X24W T16 HF L840	0.65	96550709	PP124Z
POPPACK BATTEN 1X28W T16 HF L840	1.22	96550704	PP128Z
POPPACK BATTEN 1X35W T16 HF L840	1.47	96550705	PP135Z
POPPACK BATTEN 1X49W T16 HF L840	1.47	96550711	PP149Z
POPPACK BATTEN 1X54W T16 HF L840	1.22	96550710	PP154Z
POPPACK BATTEN 2X14W T16 HF L840	0.77	96550706	PP214Z
POPPACK BATTEN 2X24W T16 HF L840	0.77	96550712	PP224Z
POPPACK BATTEN 2X28W T16 HF L840	1.40	96550707	PP228Z
POPPACK BATTEN 2X35W T16 HF L840	1.65	96550708	PP235Z
POPPACK BATTEN 2X49W T16 HF L840	1.65	96550714	PP249Z
POPPACK BATTEN 2X54W T16 HF L840	1.40	96550713	PP254Z
Popular Range T5 battens, emergency			
POPPACK BATTEN 1X28W T16 HF E3 L840	2.13	96550716	PP128ZE
POPPACK BATTEN 1X35W T16 HF E3 L840	2.37	96550717	PP135ZE
POPPACK BATTEN 1X49W T16 HF E3 L840	2.37	96550723	PP149ZE
POPPACK BATTEN 1X54W T16 HF E3 L840	2.13	96550722	PP154ZE
POPPACK BATTEN 2X28W T16 HF E3 L840	2.29	96550719	PP228ZE
POPPACK BATTEN 2X35W T16 HF E3 L840	2.55	96550720	PP235ZE
POPPACK BATTEN 2X49W T16 HF E3 L840	2.55	96550726	PP249ZE
POPPACK BATTEN 2X54W T16 HF E3 L840	2.29	96550725	PP254ZE
Popular Range T5 battens, dimmable			
POPPACK BATTEN 1X28W T16 HFI L840	1.29	96550728	PP128D
POPPACK BATTEN 1X35W T16 HFI L840	1.54	96550729	PP135D
POPPACK BATTEN 1X49W T16 HFI L840	1.54	96550735	PP149D
POPPACK BATTEN 1X54W T16 HFI L840	1.29	96550734	PP154D
POPPACK BATTEN 2X28W T16 HFI L840	1.50	96550731	PP228D
POPPACK BATTEN 2X35W T16 HFI L840	1.74	96550732	PP235D
POPPACK BATTEN 2X49W T16 HFI L840	1.74	96550738	PP249D
POPPACK BATTEN 2X54W T16 HFI L840	1.50	96550737	PP254D
Popular Range T5 battens, dimmable, emergency			
POPPACK BATTEN 1X35W T16 HFI E3 L840	2.58	96550741	PP135DE
POPPACK BATTEN 1X49W T16 HFI E3 L840	2.58	96550747	PP149DE
POPPACK BATTEN 2X35W T16 HFI E3 L840	2.78	96550744	PP235DE
POPPACK BATTEN 2X49W T16 HFI E3 L840	2.78	96550750	PP249DE



Lamps

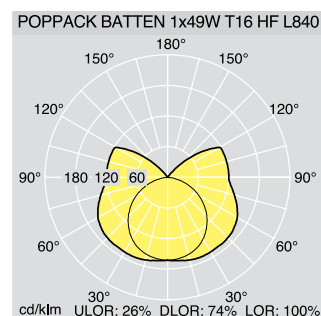
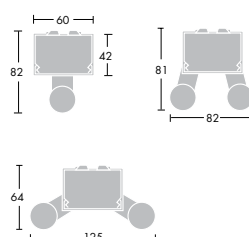
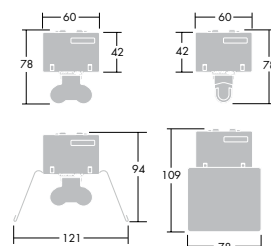
 T5 (FDH)	G5	14-54W
 T8 (FD)	G13	36-70W

Standards



Description	Wt (kg)	SAP Code	Cat. No.
Popular Range T8 battens			
POPPACK BATTEN 1X36W T26 HF L840	1.90	96229554	PP136Z
POPPACK BATTEN 1X58W T26 HF L840	2.05	96229555	PP158Z
POPPACK BATTEN 1X70W T26 HF L840	2.30	96229556	PP170Z
POPPACK BATTEN 2X36W T26 HF L840	2.10	96229557	PP236Z
POPPACK BATTEN 2X58W T26 HF L840	2.25	96229558	PP258Z
POPPACK BATTEN 2X70W T26 HF L840	2.50	96229559	PP270Z
Popular Range T8 battens, emergency			
POPPACK BATTEN 1X36W T26 HF E3 L840	2.75	96229560	PP136ZE
POPPACK BATTEN 1X58W T26 HF E3 L840	3.05	96229561	PP158ZE
POPPACK BATTEN 1X70W T26 HF E3 L840	3.45	96229562	PP170ZE
POPPACK BATTEN 2X36W T26 HF E3 L840	2.95	96229563	PP236ZE
POPPACK BATTEN 2X58W T26 HF E3 L840	3.30	96229564	PP258ZE
POPPACK BATTEN 2X70W T26 HF E3 L840	3.65	96229565	PP270ZE

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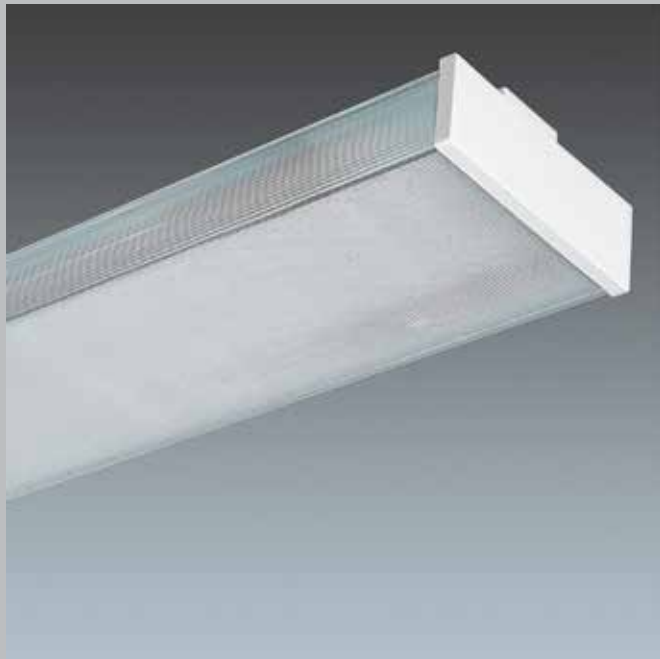
Popular Range

Attachments



www.thornlighting.co.uk/POPA

Economy diffusers and reflectors for use with original Popular Range battens



- For cost conscious schemes
- Diffusers retained by spring loaded end caps for quick and simple maintenance
- A wide beam reflector to provide wider luminaire spacing
- A narrow beam reflector where focussed directional light is needed

Materials/Finish

Diffusers: UV stabilised styrene with white ABS end caps
Reflectors: steel with pre-coated high reflectivity white finish

Installation/Mounting

Diffusers attach to the batten using spring loaded end caps. All clips and end caps supplied. Allow a minimum of 50 mm spacing between end caps of adjacent fittings. Reflectors attach to the batten with mounting kits (supplied).

Specification

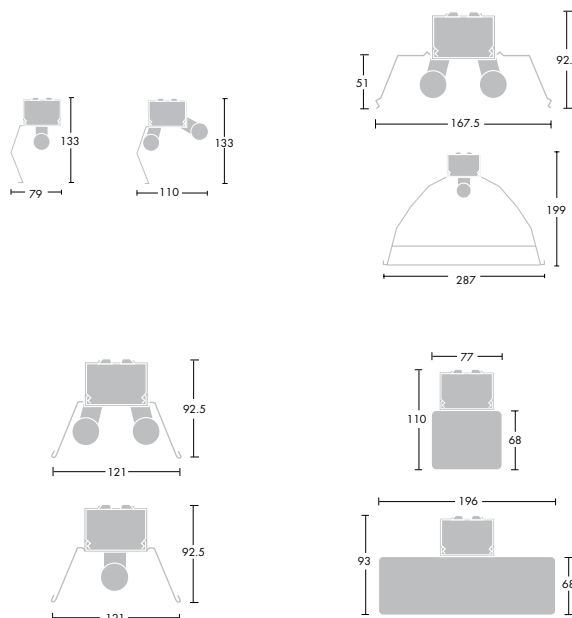
To specify state:
Diffuser in extruded opal polystyrene with external reeding/prismatic controller in clear extruded polystyrene with finely embossed prismatic pattern in base.
As Thorn Popular Range Economy Diffuser
To specify state:
Open ended, trough reflector in white stove enamelled steel with optional wire guard.
As Thorn Popular range Economy Reflector
To specify state:
Rack lighting reflector in high reflectivity polished aluminium.
As Thorn Popular Range Rack Lighting Reflector
To specify state:
Single side angled reflector in white stove enamelled steel.
As Thorn Popular Range Asymmetric Reflector



Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
Popular Range T5 prismatic diffuser			
POPPACK DIFFUSER 1/2X14/24 PR	0.27	96550751	PP14/24PRDIF
POPPACK DIFFUSER 1/2X28/54 PR	0.53	96550752	PP28/54PRDIF
POPPACK DIFFUSER 1/2X35/49 PR	0.66	96550753	PP35/49PRDIF
Popular Range T5 narrow reflector			
POPPACK REFLECTOR 1/2X14/24 RNW	0.50	96550763	PP14/24NWREF
POPPACK REFLECTOR 1/2X28/54 RNW	0.99	96550764	PP28/54NWREF
POPPACK REFLECTOR 1/2X35/49 RNW	1.25	96550765	PP35/49NWREF
Popular Range Economy opal diffuser			
POPPACK DIFFUSER 1X36 OP	0.60	96012850	PP136OPDIF
POPPACK DIFFUSER 1X58 OP	1.20	96007456	PP158OPDIF
POPPACK DIFFUSER 1X70 OP	1.40	96217844	PP170OPDIF
POPPACK DIFFUSER 2X36 OP	0.90	96217840	PP236OPDIF
POPPACK DIFFUSER 2X58 OP	1.70	96217841	PP258OPDIF
POPPACK DIFFUSER 2X70 OP	1.90	96217842	PP270OPDIF
Popular Range Economy prismatic diffuser			
POPPACK DIFFUSER 1X36 PR	0.60	96014688	PP136PRDIF
POPPACK DIFFUSER 1X58 PR	1.20	96008902	PP158PRDIF
POPPACK DIFFUSER 1X70 PR	1.40	96217836	PP170PRDIF
POPPACK DIFFUSER 2X36 PR	0.90	96014716	PP236PRDIF
POPPACK DIFFUSER 2X58 PR	1.70	96014774	PP258PRDIF
POPPACK DIFFUSER 2X70 PR	1.90	96217834	PP270PRDIF
Popular Range Economy wide reflector			
POPPACK REFLECTOR 1/2X36 RWD	0.60	96014870	PP36WDREF
POPPACK REFLECTOR 1/2X58 RWD	0.80	96200583	PP58WDREF
POPPACK REFLECTOR 1/2X70 RWD	0.90	96217778	PP70WDREF
Popular Range Economy narrow reflector			
POPPACK REFLECTOR 1/2X36 RNW	0.60	96014640	PP36NWREF
POPPACK REFLECTOR 1/2X58 RNW	0.80	96014695	PP58NWREF
POPPACK REFLECTOR 1/2X70 RNW	0.90	96217849	PP70NWREF

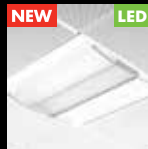
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INDOOR LIGHTING



Recessed Modular Luminaires



NEW LED Menlo³ LED
148



Quattro T5
170



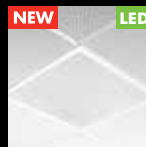
Menlo³ Recessed
150



IndiQuattro
172



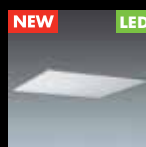
Menlo³ Semi-Recessed
152



NEW LED Specline LED
174



NEW LED Menlo³ Circular
154



NEW LED Omega LED
176



NEW LED Elevation LED
156



Omega 2 T5
178



Elevation
158



NEW Omega 2 T5 ECO
181



Planor Recessed
160



Omega 2 T8
182



NEW LED Pallion
162



NEW LED Quattro LED
166



Quattro C Line
168

Arhus Academy, Denmark

NEW

Menlo³ LED



www.thornlighting.co.uk/MNLL

Distinctive LED luminaires with outstanding aesthetics, photometric performance and up to 94lm/W efficacy



- Unique twin light chamber provides a smooth brightness transition and indirect/direct illumination
- Specifically designed to create a visually stimulating, extremely comfortable and uplifting environment using minimal energy
- Distinctive 70mm deep shallow body from deep drawn steel, to give superior strength and corner quality
- Quick and easy to install, supplied fully assembled in one box with external connector for fast electrical connection

Materials/Finish

Body: deep drawn steel, pre-painted white (RAL 9010)

Light chamber/wings: extruded high purity acrylic (PMMA) bead suspended diffuser, pearl finish
Diffuser: high purity acrylic (PMMA) diffuser, pearl finish

MPT diffuser: microprismatic and high purity acrylic (PMMA), pearl finish
Suspension arms: moulded silver polycarbonate

Installation/Mounting

Supplied fully assembled with protective film for quick, easy and clean installation. Suitable for lay-in installation into 15 or 24mm, exposed tee ceilings. Unique 'wedge' brackets (included) are fitted externally via adjacent tile opening to allow pull up installation into most exposed tee or concealed grid ceilings without opening the luminaire. Electrical connection via GST 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX emergency versions have an additional GST 18/3 box T connector (not mains rated) protruding 30mm from back of body. Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

Specification

To specify state:

Recessed mounted LED luminaire with shallow 70mm deep drawn body with distinctive diffusing pearl twin light chamber and MPT diffuser / opal diffuser for direct / indirect lighting performance. Suitable for lay-in into exposed tee grids or pull up into concealed grids with unique mini-wedge brackets and external electrical connection. DALI dimmable control gear with 3 hour manual or self / addressable test integral LED emergency versions.
As Thorn Menlo³ Recessed LED.

To specify state:

Semi-recessed mounted LED luminaire with shallow 70mm deep drawn body with distinctive diffusing pearl twin light chamber and MPT diffuser / opal diffuser for direct / indirect lighting performance. Suitable for lay-in into exposed tee grids or pull up into concealed grids with unique mini-wedge brackets and external electrical connection. DALI dimmable control gear with 3 hour manual or self / addressable test integral LED emergency versions.
As Thorn Menlo³ Semi-Recessed LED.

Menlo³

Recessed



www.thornlighting.co.uk/MNLR

Distinctively shallow recessed dual component luminaires with outstanding performance, aesthetics and choice



- Outstanding photometric performance with high LOR, high efficiency and glare control options to suit all screen types
- Unique twin light chamber smooths brightness transition and gives soft indirect illumination for increased ceiling brightness and excellent modelling
- Innovative deep drawn body design produces highest quality corner and flange detail
- Available with innovative mini-vane louvre, modern linear microprism or diffuser optics for differing preferences in efficiency, glare control and aesthetics

Materials/Finish

Body: deep drawn steel pre-painted white (RAL 9010)
End caps: die cast aluminium powder coated silver (RAL 9006)
Light Chamber/Wings: extruded high purity acrylic (PMMA) bead suspended diffuser pearl material
Louvre: aluminium Satinbrite finish
Diffuser: high purity acrylic (PMMA) bead suspended diffuser pearl material
MPT diffuser: Microprismatic and high purity acrylic (PMMA) diffuser pearl material

Installation/Mounting

Recessed / Semi-recessed:
Supplied fully assembled with protective film for quick, easy and clean installation. Suitable for lay-in installation into 15mm or 24mm exposed tee ceilings. Unique 'wedge' brackets (included) are fitted externally via adjacent tile opening to allow pull up installation into most exposed tee or concealed grid ceilings without opening the luminaire. Alternative versions also available with internally fitted wedge brackets for pull up installation into plasterboard ceilings. Electrical connection is quick and easy via externally mounted connector on back of body. Central optic is easily removed and replaced by hand for lamp access.
Electrical connection is via flush panel mounted GST 18/4 male connector (plug) for HF WL4 versions and 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX emergency versions have an additional 18/3 box T connector (not mains rated) protruding 30mm from back of body. Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

Specification

To Specify State:
Recessed mounted luminaire with shallow 70mm deep drawn body for 24W T16 (T5) linear or 55W TC-L compact fluorescent lamps with unique diffusing pearl twin light chamber and central mini-vane louvre/MPT diffuser/opal diffuser for direct/indirect lighting performance. Suitable for lay-in into exposed tee grids or for pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour self/addressable test integral LED emergency versions and option for integral sensor head.
As Thorn Menlo³ Recessed



Lamps

	T5 (FDH)	G5	24W
	TC-L (FSDH)	2G11	55W

Standards

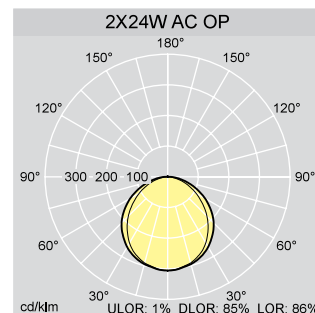
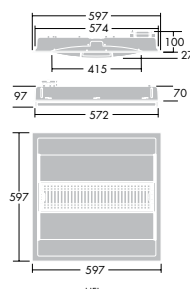
	EN 60598	IP20	T _a 25	T _a 5 +25	650°C

Ordering Guide Lamps included unless otherwise stated.
Versions with integral mini-sensor available on request

Description	Wt (kg)	SAP Code	Cat. No.
Menlo³ Recessed With louvre			
MENLO3R 2X24W HF WL4 AC LV 597 L840	5.00	96548129	MNR224ZLV
MENLO3R 1X55W HF WL4 AC LV 597 L840	5.00	96548126	MNR155ZLV
Menlo³ Recessed With louvre, dimmable			
MENLO3R 2X24W HFI WL6 AC LV 597 L840	6.40	96550098	MNR224DLV
MENLO3R 1X55W HFI WL6 AC LV 597 L840	5.00	96550040	MNR155DLV
Menlo³ Recessed With louvre, emergency			
MENLO3R 2X24W HF E3 WL4 AC LV 597 L840	5.20	96548147	MNR224ZELV
MENLO3R 1X55W HF E3 WL4 AC LV 597 L840	5.20	96548144	MNR155ZELV
Menlo³ Recessed With louvre, dimmable emergency			
MENLO3R 2X24W HFI E3 WL6 AC LV 597 L840	4.20	96550084	MNR224DELV
MENLO3R 1X55W HFI E3 WL6 AC LV 597 L840	5.19	96550026	MNR155DELV
MENLO3R 1X55W HFI E3TX WL6 AC LV 597 L84	5.30	96241808	MNR155DEXLV
Menlo³ Recessed With opal diffuser			
MENLO3R 2X24W HF WL4 AC OP 597 L840	5.10	96548131	MNR224ZOP
MENLO3R 1X55W HF WL4 AC OP 597 L840	5.10	96548128	MNR155ZOP
Menlo³ Recessed With opal diffuser, dimmable			
MENLO3R 2X24W HFI WL6 AC OP 597 L840	3.90	96550102	MNR224DOP
MENLO3R 1X55W HFI WL6 AC OP 597 L840	5.00	96550044	MNR155DOP
Menlo³ Recessed With opal diffuser, emergency			
MENLO3R 2X24W HF E3 WL4 AC OP 597 L840	5.30	96548149	MNR224ZEOP
MENLO3R 1X55W HF E3 WL4 AC OP 597 L840	5.30	96548146	MNR155ZEOP
Menlo³ Recessed With opal diffuser, dimmable emergency			
MENLO3R 2X24W HFI E3 WL6 AC OP 597 L840	5.15	96550085	MNR224DEOP
MENLO3R 1X55W HFI E3 WL6 AC OP 597 L840	5.45	96550028	MNR155DEOP
MENLO3R 1X55W HFI E3TX WL6 AC OP 597 L84	5.30	96241809	MNR155DEXOP
Menlo³ Recessed With prismatic diffuser			
MENLO3R 2X24W HF WL4 AC PR 597 L840	5.30	96548130	MNR224ZPR
MENLO3R 1X55W HF WL4 AC PR 597 L840	5.30	96548127	MNR155ZPR
Menlo³ Recessed With prismatic diffuser, dimmable			
MENLO3R 2X24W HFI WL6 AC PR 597 L840	4.50	96550106	MNR224DPR
MENLO3R 1X55W HFI WL6 AC PR 597 L840	5.30	96550047	MNR155DPR
Menlo³ Recessed With prismatic diffuser, emergency			
MENLO3R 2X24W HF E3 WL4 AC PR 597 L840	5.50	96548148	MNR224ZEPR
MENLO3R 1X55W HF E3 WL4 AC PR 597 L840	5.50	96548145	MNR155ZEPR
Menlo³ Recessed With prismatic diffuser, dimmable emergency			
MENLO3R 2X24W HFI E3 WL6 AC PR 597 L840	4.50	96550086	MNR224DEPR
MENLO3R 2X24W HFI E3TX WL6 AC PR 597 L84	5.50	96241811	MNR224DEXPR
MENLO3R 1X55W HFI E3 WL6 AC PR 597 L840	5.60	96550029	MNR155DEPR
MENLO3R 1X55W HFI E3TX WL6 AC PR 597 L84	5.50	96241810	MNR155DEXPR

Description	Wt (kg)	SAP Code	Cat. No.
Menlo³ Recessed For plasterboard ceilings			
MENLO3R 2X24W HF WL4 AC LV MRP 597 L840	5.00	96548201	MNR224ZLVPB
MENLO3R 2X24W HF WL4 AC OP MRP 597 L840	5.10	96548203	MNR224ZOPPB
MENLO3R 2X24W HF WL4 AC PR MRP 597 L840	5.30	96548202	MNR224ZPRPB
MENLO3R 1X55W HF WL4 AC LV MRP 597 L840	5.00	96548198	MNR155ZLVPB
MENLO3R 1X55W HF WL4 AC OP MRP 597 L840	5.10	96548200	MNR155ZOPPB
MENLO3R 1X55W HF WL4 AC PR MRP 597 L840	5.30	96548199	MNR155ZPRPB
Menlo³ Recessed Accessories			
CONNECT S3	0.02	96014769	3S
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB
GRIPPLE SAFETY WIRE	0.01	96239327	GSW

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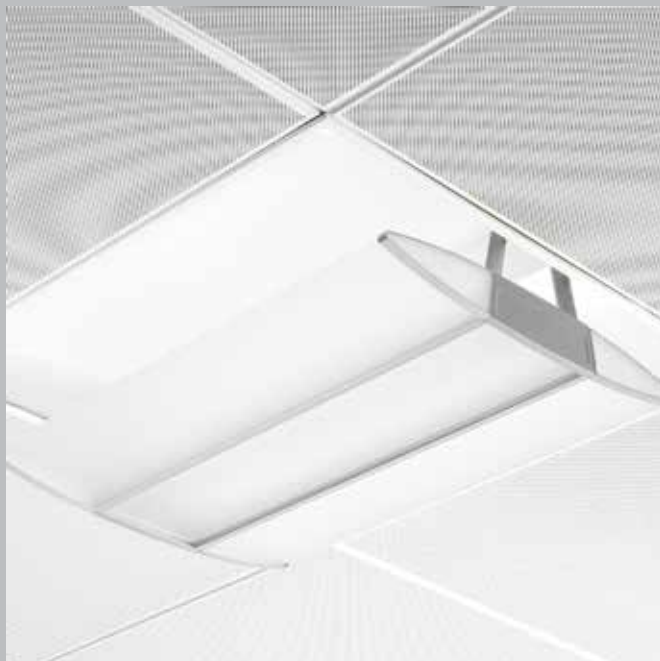
Menlo³

Semi-Recessed



www.thornlighting.co.uk/MNSR

Discreet semi-recessed luminaire providing efficient illumination of all surfaces for balanced lighting



- Outstanding photometric performance with high LOR, high efficiency and glare control options to suit all screen types
- Discreetly suspended optic appears to float in space, delivering 30% / 50% of task area illumination onto ceilings / walls with minimal shadowing for an uplifting environment
- Innovative deep drawn body design produces highest quality corner and flange detail
- Available with innovative mini-vane louvre, modern linear microprism or diffuser optics for differing preferences in efficiency, glare control and aesthetics

Materials/Finish

Body: Deep drawn steel pre-painted white: RAL 9010
 End caps: Die-cast aluminium, powder coated silver: RAL 9006
 Light Chamber/Wings: Extruded high-purity acrylic (PMMA) bead suspended diffuser pearl material.
 Louvre: Aluminium in satinbrite finish.
 Diffuser: high purity acrylic (PMMA) diffuser pearl material.
 MPT diffuser: Microprismatic and high purity acrylic (PMMA) bead suspended diffuser pearl material.
 Suspension arms: Injection – moulded silver polycarbonate

Installation/Mounting

Supplied fully assembled with protective film for quick, easy and clean installation. Suitable for lay-in installation into 15mm or 24mm exposed tee ceilings. Unique 'wedge' brackets (included) are fitted externally via adjacent tile opening to allow pull up installation into most exposed tee or concealed grid ceilings without opening the luminaire. Alternative versions also available with internally fitted wedge brackets for pull up installation into plasterboard ceilings. Electrical connection is quick and easy via externally mounted connector on back of body. Central optic is easily removed and replaced by hand for lamp access. Electrical connection is via flush panel mounted GST 18/4 male connector (plug) for HF WL4 versions and 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX emergency versions have an additional 18/3 box T connector (not mains rated) protruding 30mm from back of body. Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

Specification

To specify state:
 Recessed mounted luminaire with shallow 70mm deep drawn body for 24W T16 (T5) linear or 55W TC-L compact fluorescent lamps with 90mm suspended diffuser pearl optic and central mini-vane louvre/MPT diffuser/opal diffuser for direct/indirect lighting performance that delivers 50% of horizontal working plane illuminance on walls and 30% on ceilings. Suitable for lay-in into exposed tee grids or for pull up into concealed grids or plasterboard ceilings with unique "mini-wedge" brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour Self/Addressable Test integral LED emergency versions and option for integral sensor head.
 As Thorn Menlo³ Semi-Recessed.



Lamps

	T5 (FDH)	G5	24W
	TC-L (FSDH)	2G11	55W

Standards

	EN 60598	IP20	T _a 25	T _a 5 +25	650 °C

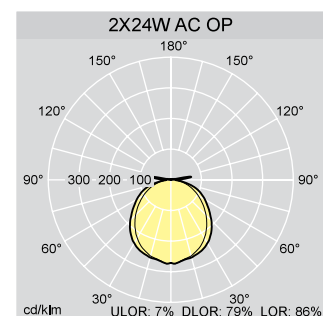
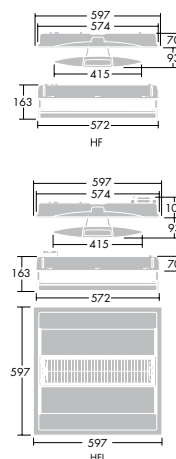
Ordering Guide

Lamps included unless otherwise stated. Versions with integral mini-sensor or air-handling functionality available on request

Description	Wt (kg)	SAP Code	Cat. No.
Menlo³ Semi-Recessed With louvre			
MENLO3SR 2X24W HF WL4 AC LV 597 L840	5.00	96548165	MNSR224ZLV
MENLO3SR 1X55W HF WL4 AC LV 597 L840	5.00	96548162	MNSR155ZLV
Menlo³ Semi-Recessed With louvre, dimmable			
MENLO3SR 2X24W HFI WL6 AC LV 597 L840	5.15	96550133	MNSR224DLV
MENLO3SR 1X55W HFI WL6 AC LV 597 L840	8.50	96550072	MNSR155DLV
Menlo³ Semi-Recessed With louvre, emergency			
MENLO3SR 2X24W HF E3 WL4 AC LV 597 L840	5.20	96548183	MNSR224ZELV
MENLO3SR 1X55W HF E3 WL4 AC LV 597 L840	5.20	96548180	MNSR155ZELV
Menlo³ Semi-Recessed With louvre, dimmable emergency			
MENLO3SR 2X24W HFI E3 WL6 AC LV 597 L840	5.20	96550123	MNSR224DELV
MENLO3SR 2X24W HFI E3TX WL6 AC LV 597 L8	5.20	96241815	MNSR224DEXLV
MENLO3SR 1X55W HFI E3 WL6 AC LV 597 L840	3.85	96550062	MNSR155DELV
MENLO3SR 1X55W HFI E3TX WL6 AC LV 597 L	5.20	96241812	MNSR155DEXLV
Menlo³ Semi-Recessed With opal diffuser			
MENLO3SR 2X24W HF WL4 AC OP 597 L840	5.10	96548167	MNSR224ZOP
MENLO3SR 1X55W HF WL4 AC OP 597 L840	5.10	96548164	MNSR155ZOP
Menlo³ Semi-Recessed With opal diffuser, dimmable			
MENLO3SR 2X24W HFI WL6 AC OP 597 L840	3.60	96550135	MNSR224DOP
MENLO3SR 1X55W HFI WL6 AC OP 597 L840	3.60	96550074	MNSR155DOP
Menlo³ Semi-Recessed With opal diffuser, emergency			
MENLO3SR 2X24W HF E3 WL4 AC OP 597 L840	5.30	96548185	MNSR224ZEOP
MENLO3SR 1X55W HF E3 WL4 AC OP 597 L840	5.30	96548182	MNSR155ZEOP
Menlo³ Semi-Recessed With opal diffuser, dimmable emergency			
MENLO3SR 2X24W HFI E3 WL6 AC OP 597 L840	6.30	96550124	MNSR224DEOP
MENLO3SR 2X24W HFI E3TX WL6 AC OP 597 L8	5.30	96241816	MNSR224DEXOP
MENLO3SR 1X55W HFI E3 WL6 AC OP 597 L840	3.60	96550063	MNSR155DEOP
MENLO3SR 1X55W HFI E3TX WL6 AC OP 597 840	5.30	96241813	MNSR155DEXOP
Menlo³ Semi-Recessed With prismatic diffuser			
MENLO3SR 2X24W HF WL4 AC PR 597 L840	5.30	96548166	MNSR224ZPR
MENLO3SR 1X55W HF WL4 AC PR 597 L840	5.30	96548163	MNSR155ZPR
Menlo³ Semi-Recessed With prismatic diffuser, dimmable			
MENLO3SR 2X24W HFI WL6 AC PR 597 L840	5.20	96550137	MNSR224DPR
MENLO3SR 1X55W HFI WL6 AC PR 597 L840	5.25	96550076	MNSR155DPR
Menlo³ Semi-Recessed With prismatic diffuser, emergency			
MENLO3SR 2X24W HF E3 WL4 AC PR 597 L840	5.50	96548184	MNSR224ZEPR
MENLO3SR 1X55W HF E3 WL4 AC PR 597 L840	5.50	96548181	MNSR155ZEPR

Description	Wt (kg)	SAP Code	Cat. No.
Menlo³ Semi-Recessed With prismatic diffuser, dimmable emergency			
MENLO3SR 2X24W HFI E3 WL6 AC PR 597 L840	5.20	96550125	MNSR224DEPR
MENLO3SR 2X24W HFI E3TX WL6 AC PR 597 L8	5.50	96241817	MNSR224DEXPR
MENLO3SR 1X55W HFI E3 WL6 AC PR 597 L840	5.20	96550064	MNSR155DEPR
MENLO3SR 1X55W HFI E3TX WL6 AC PR 597 840	5.50	96241814	MNSR155DEXPR
Menlo³ Semi-Recessed For plasterboard ceilings			
MENLO3SR 2X24W HF WL4 AC LV MRP 597 L840	5.00	96548207	MNSR224ZLVPB
MENLO3SR 2X24W HF WL4 AC OP MRP 597 L840	5.10	96548209	MNSR224ZOPPB
MENLO3SR 2X24W HF WL4 AC PR MRP 597 L840	5.30	96548208	MNSR224ZPRPB
MENLO3SR 1X55W HF WL4 AC LV MRP 597 L840	5.00	96548204	MNSR155ZLVPB
MENLO3SR 1X55W HF WL4 AC OP MRP 597 L840	5.10	96548206	MNSR155ZOPPB
MENLO3SR 1X55W HF WL4 AC PR MRP 597 L840	5.30	96548205	MNSR155ZPRPB
Menlo³ Semi-Recessed Accessories			
CONNECT S3	0.02	96014769	3S
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB
GRIPPLE SAFETY WIRE	0.01	96239327	GSW

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NEW

Menlo³ Circular



www.thornlighting.co.uk/MNLC

Unique recessed luminaires for T16 (T5) or LED light sources with a totally alternative aesthetic



- Outstanding photometric performance with high LOR and efficiency
- Spherical central diffuser and surrounding light chamber subtly introduces a circular geometry into the ceiling plane for visual interest
- High performance diffuser material cleverly conceals T16 lamps or LEDs for a uniform lit appearance
- LED version is a real alternative to traditional fluorescent equivalents - gives greater lumen output with maximum efficacy (78lm/W), yet delivers the complete lighting performance expected of the Menlo³ range

Materials/Finish

Body: white pre painted Steel (close to RAL 9010)

Light Chamber / circular diffuser: vacuum-formed opalised acrylic

Installation/Mounting

Supplied fully assembled with protective film for quick, easy and clean installation. Suitable for lay-in installation into 15mm or 24mm exposed tee ceilings. Unique 'wedge' brackets (included) are fitted externally via adjacent tile opening to allow pull up installation into most exposed tee or concealed grid ceilings without opening the luminaire. Alternative versions also available with internally fitted wedge brackets for pull up installation into plasterboard ceilings (LED version uses internal fit wedge brackets, to be ordered separately). Electrical connection is quick and easy via externally mounted connector on back of body. Optic is easily removed and replaced by hand for lamp access and retained by wishbone springs.

Specification

T16 versions:

To specify state:
Recessed mounted luminaire for 14W T16 linear fluorescent lamps with unique 'floating' circular diffuser and light chamber. Suitable for lay-in into exposed tee grids or for pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour self/addressable test integral LED emergency versions and option for integral sensor head.
As Thorn Menlo³ Circular.

LED version:

To specify state:
Recessed mounted luminaire for 4 x 11 W LED light source with unique 'floating' circular diffuser and light chamber. Suitable for lay-in into exposed tee grids or for pull-up into concealed grid ceilings with unique 'mini-wedge' brackets and with external electrical connection. Electronic, digital dimmable gear and options for min-sensor/LED emergency. For emergency versions, please specify E3 for manual testing or E3TX for SelfTest/Addressable test.
As Thorn Menlo³ Circular LED.

NEW

Elevation LED



www.thornlighting.co.uk/ELEL

The elegant direct / indirect recessed Elevation luminaire range now boasts LEDs for enhanced eco-performance with great lighting quality



- A real alternative over traditional fluorescent equivalents with no compromise: Greater lumen output with maximum efficacy (> 72 llm/W) and low luminance for a comfortable working environment
- Upward lighting component provides a more stimulating lit environment, minimising the 'cave-effect' often associated with modular recessed luminaires
- Available with integral mini-sensor and emergency functionality. Fewer emergency fittings are required compared to fluorescent versions thanks to the independent LED's superior coverage

Materials/Finish

Diffuser: perspex frosted diffuser and PMMA axial prismatic lens
Wings: reeded opal acrylic
Body & Reflectors: white painted steel (close to RAL9010)

Installation/Mounting

Suitable for lay-in (exposed tee 15 and 24mm) suspended ceilings
Suitable for pull up installation (concealed tee) to suspended ceilings using wedge brackets (supplied), fitted externally. Internal fit wedges for plasterboard to be ordered separately.
Electrical connection via panel mounted Wieland GST 18/6 connector.
Appropriate female sockets to be ordered separately (see accessories ordering guide).
Provision for gripper wire in the body. Wire to be ordered separately (see accessories ordering guide).

Specification

To specify state:
High performance semi-recessed LED luminaire with opal wings and central MPT optic with electronic digital dimmable gear and options for mini-sensor / LED emergency. For emergency versions, please specify E3 for manual testing or E3TX for SelfTest / Addressable test.
As Thorn Elevation LED



Lamps

LED 1-44W

Standards

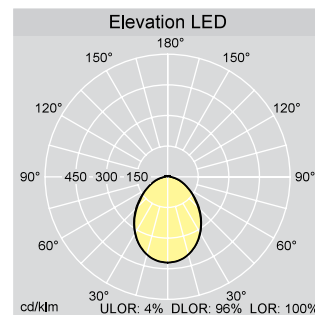
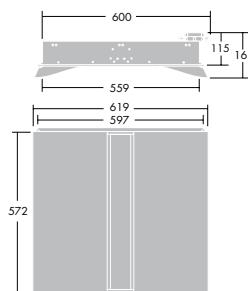
CE EN 60598 IP20 IK03 T_a 0 +25 650°C

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Elevation LED Dimmable			
ELEVAT LED 3700 HFI MPT AC WL6 597	5.50	96240375	EV3700DMP
ELEVAT LED 3700 HFLI MPT AC WL6 597	5.60	96240595	EV3700DSMP
Elevation LED Dimmable, emergency			
ELEVAT LED 3700 HFI E3 MPT AC WL6 597	5.90	96240376	EV3700DEMP
ELEVAT LED 3700 HFI E3TX MPT AC WL6 597	5.90	96240377	EV3700DEXMP
ELEVAT LED 3700 HFLI E3 MPT AC WL6 597	6.00	96240596	EV3700DSEMP
Elevation LED Accessories			
CONNECT EM S3 R	0.02	96503766	3SEM
CONNECT S6 B	1.00	96233052	6SB
GRIPPLE SAFETY WIRE	0.01	96239327	GSW
MINI WEDGE	1.00	96218676	OMMW

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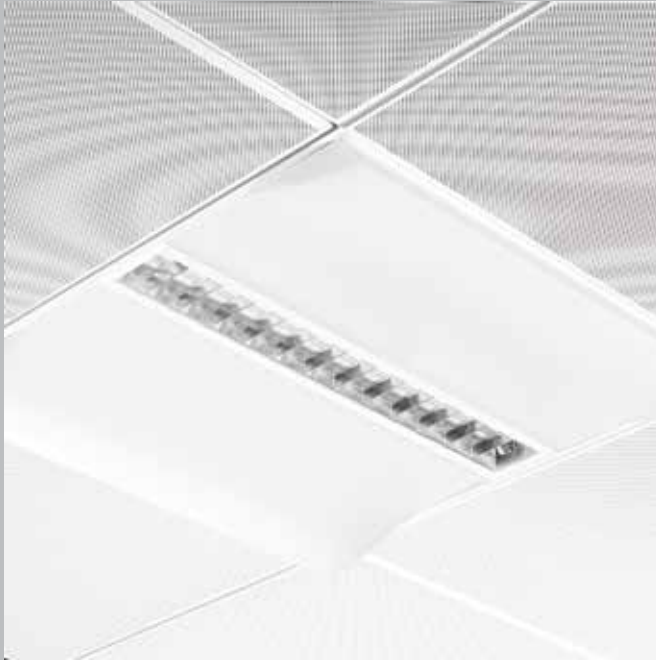


Elevation



www.thornlighting.co.uk/ELEV

Semi-recessed fluorescent luminaire with high performance central optic and elegant wings for more indirect lighting



- Contemporary, slim, unobtrusive design, with gradual transition of light from central optic to ceiling
- Excellent optical performance with LOR up to 82%
- Easy to install and connect
- Optional dimming, mini-sensor and emergency versions

Materials/Finish

Body and reflectors: sheet steel painted white (close to RAL9010)
Wings: reeded opal acrylic (AC)
Louvre: Satinbrite double parabolic aluminium
Optic: MPT (Micro Prism) solid optic

Installation/Mounting

Lay-in (into 15 and 24mm ceiling grid system) and lay-out fitting. Quick and easy to install via plug and play connection facility, simple mounting brackets and click and fix components. Lamps are easily accessible via removable central optic. Electrical connection is via flush panel mounted GST 18/4 male connector (plug) for HF WL4 versions and 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX emergency versions have an additional 18/3 box T connector (not mains rated) protruding 30mm from back of body.

Specification

To specify state:
High performance (82% LOR) semi-recessed fluorescent luminaire with opal wings and central satinbrite louvre or MPT optic for 24W T16 (T5) or 55W TC-L lamps with electronic fixed output/digital dimmable gear and options for mini-sensor/LED emergency.
As Thorn Elevation



Lamps

	TC-L (FSDH)	2G11	55W
	T5 (FDH)	G5	24W

Standards

650 °C				

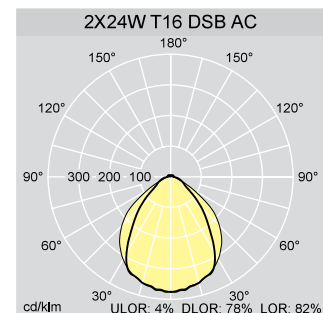
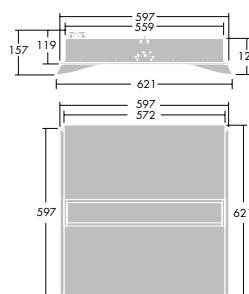
Ordering Guide

Supplied complete with lamp(s).

Description	Wt (kg)	SAP Code	Cat. No.
Elevation			
ELEVAT 2X24 T16 HF DSB AC WL L840	6.40	96239064	EV224ZSB
ELEVAT 2X24 T16 HF MPT AC WL L840	6.60	96239000	EV224ZMP
ELEVAT 1X55 TC-L HF DSB AC WL L840	6.30	96239063	EV155ZSB
ELEVAT 1X55 TC-L HF MPT AC WL L840	6.50	96238999	EV155ZMP
Elevation Emergency			
ELEVAT 2X24 T16 HF E3 DSB AC WL L840	6.80	96536057	EV224ZESB
ELEVAT 2X24 T16 HF E3 MPT AC WL L840	7.00	96536059	EV224ZEMP
ELEVAT 1X55 TC-L HF E3 DSB AC WL L840	6.70	96536069	EV155ZESB
ELEVAT 1X55 TC-L HF E3 MPT AC WL L840	6.90	96536071	EV155ZEMP
Elevation Dimmable			
ELEVAT 2X24 T16 HFI DSB AC WL L840	6.40	96549931	EV224DSB
ELEVAT 2X24 T16 HFI MPT AC WL L840	6.40	96549947	EV224DMP
ELEVAT 1X55 TC-L HFI DSB AC WL L840	6.40	96549899	EV155DSB
ELEVAT 1X55 TC-L HFI MPT AC WL L840	8.40	96549915	EV155DMP
Elevation Dimmable, emergency			
ELEVAT 2X24 T16 HFI E3 DSB AC WL L840	6.80	96549934	EV224DESB
ELEVAT 2X24 T16 HFI E3 MPT AC WL L840	6.80	96549936	EV224DEMP
ELEVAT 1X55 TC-L HFI E3 DSB AC WL L840	6.50	96549902	EV155DESB
ELEVAT 1X55 TC-L HFI E3 MPT AC WL L840	6.70	96549904	EV155DEMP
Elevation Mini sensor			
ELEVAT 2X24 T16 HFLI DSB AC WL L840	6.40	96549951	EV224DSSB
ELEVAT 2X24 T16 HFLI MPT AC WL L840	6.40	96549959	EV224DSMP
ELEVAT 1X55 TC-L HFLI DSB AC WL L840	6.30	96549919	EV155DSSB
ELEVAT 1X55 TC-L HFLI MPT AC WL L840	6.20	96549927	EV155DSMP
Elevation Mini sensor, emergency			
ELEVAT 2X24 T16 HFLI E3 DSB AC WL L840	6.80	96549954	EV224DSESB
ELEVAT 2X24 T16 HFLI E3 MPT AC WL L840	6.80	96549956	EV224DSEMP
ELEVAT 1X55 TC-L HFLI E3 DSB AC WL L840	6.50	96549922	EV155DSESB
ELEVAT 1X55 TC-L HFLI E3 MPT AC WL L840	6.50	96549924	EV155DSEMP

Description	Wt (kg)	SAP Code	Cat. No.
Mini Sensor Programmer			
SENSA SENP	0.05	96004189	S3DIRPT
Elevation Accessories			
CONNECT EM S3 R	0.02	96503766	3SEM
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB

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Planor Recessed



www.thornlighting.co.uk/PLNR

Striking and elegant T16 (T5) recessed fluorescent luminaires to compliment minimalist office design



Lamps

T5 (FDH) G5 14-24W

Standards



- Low height - only 50mm
- Prism control diffuser optics create high quality lighting performance in a clean appearance
- Coordinates with other luminaires in the Planor family for a consistent aesthetic

Materials/Finish

Body: sheet steel
Reflector: anodised aluminium
Refractors: prismatic acrylic, prismatic polycarbonate in emergency versions
Colours: powder coated in silver-grey (close to RAL 9006/9007), powder coated in white RAL9010, wet painted in silver (600mm versions)

Installation/Mounting

Plug and play solution. 5 x 2.5mm² re-wireable GST connector included, which plugs into the fixed socket located on the body. Lay-in versions (596mm) are designed for exposed tee ceilings. 600mm versions are designed for metal tile ceilings with 28mm rails and are fixed from the outside by sliding four wedges in position and fastening them with finger screws.

Specification

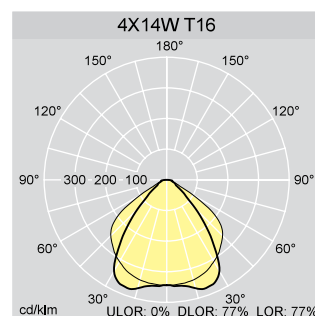
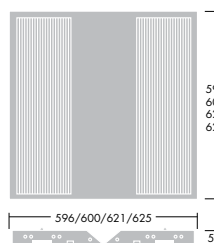
To specify state:
Recessed, ultraslim luminaire for T16 (T5) lamps with aluminium frame and prism-control lighting system.
As Thorn Planor Recessed

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Planor Recessed			
PLANOR R596 4X14W T16 HF GRY L840	8.00	96547715	PNR414ZG
PLANOR R596 4X14W T16 HF E3 L840	8.50	96547716	PNR414ZEG
PLANOR R596 4X24W T16 HF GRY L840	8.00	96547717	PNR424ZG
PLANOR R596 4X24W T16 HF E3 L840	8.50	96547719	PNR424ZEG

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NEW

Pallion



www.thornlighting.co.uk/PALL

A minimalist luminaire with maximum lighting impact



- Minimalist and modern product design
- Minimal energy consumption with maximum lighting impact
- Minimal effort required to design, install and maintain a lighting scheme

Materials/Finish

Body: deep drawn steel, pre-painted white (RAL 9010)
 Coffers: sheet steel, post-painted textured white (close to RAL 9010)
 Diffuser: opal and microprismatic extruded acrylic
 Louvre: aluminium in semi-specular finish

Installation/Mounting

Suitable for lay-in installation into 15mm or 24mm exposed tee ceilings, the luminaire simply lays onto the ceiling grid for quick installation. For installation from below into concealed fixed and plasterboard ceilings, use mini-wedge bracket kit (96218676, to be ordered separately). Attachment is easily fitted and removed by hand for lamp access. Electrical connection is quick and easy via external mounted connector on back of body.

UK addition: HF WL4 versions have flush panel mounted GST 18/4 male connector (plug) and dimmable WL6 versions have 18/6 box T connector which protrudes 30mm from back of body. Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

Specification

To specify state:

Recessed mounted luminaire with shallow 70mm deep drawn body for 14/24W T16 linear or 40/55W TC-L compact fluorescent lamps and 45.5/56.5W LED (prismatic diffuser only) with mini vane louvre/prismatic diffuser/slotted metal diffuser and shallow textured coffer for direct/indirect lighting performance. Suitable for lay-in into exposed tee grids or pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour integral LED emergency versions and option for integral sensor head. Air handling version also available. As Thorn Pallion Recessed.

To specify state:

Semi-recessed luminaire with shallow 70mm deep drawn body for 14/24w T16 linear or 40/55W TC-L compact fluorescent lamps with 100mm suspended optic with mini vane louvre/prismatic diffuser/slotted metal diffuser and shallow textured coffer for direct/indirect lighting performance that delivers 50% of horizontal working plane illuminance on walls and 30% on ceilings. Suitable for lay-in into exposed tee grids or pull up into concealed grids or plasterboard ceilings with unique 'mini-wedge' brackets and external electrical connection. Fixed output or digital dimmable control gear with 3 hour integral LED emergency versions and option for integral sensor head. Air handling version also available. As Thorn Pallion Semi-recessed.



Recessed, louvre



Recessed, slotted diffuser



Semi-recessed, prismatic diffuser



Recessed, prismatic diffuser



Semi-recessed, louvre

Lamps

	LED		1-52W
	T5 (FDH)	G5	14-24W
	TC-L (FSDH)	2G11	40-55W

Standards

		IP20	IK03	T _a 0 +25	T _a 25
650 °C					

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Pallion Recessed LED with prismatic diffuser			
PALLION R LED 3150 HFIX WL6 PR 597	4.80	96550679	PAR3150XPR
PALLION R LED 3800 HFIX WL6 PR 597	4.80	96550681	PAR3800XPR
Pallion Recessed LED with prismatic diffuser, dimmable, emergency			
PALLION R LED 3150 HFIX E3 WL6 PR 597	5.10	96550680	PAR3150XEPR
PALLION R LED 3800 HFIX E3 WL6 PR 597	5.10	96550682	PAR3800XEPR
Pallion Recessed with prismatic diffuser			
PALLION R 2X24W HF WL4 PR 597 L840	4.00	96548748	PAR224ZPR
PALLION R 4X14W HF WL4 PR 597 L840	4.60	96548749	PAR414ZPR
PALLION R 1X55W HF WL4 PR 597 L840	4.00	96548745	PAR155ZPR
PALLION R 2X40W HF WL4 PR 597 L840	4.60	96548746	PAR240ZPR
PALLION R 2X55W HF WL4 PR 597 L840	4.60	96548747	PAR255ZPR
Pallion Recessed with prismatic diffuser, emergency			
PALLION R 2X24W HF E3 WL4 PR 597 L840	4.30	96548758	PAR224ZEPR
PALLION R 4X14W HF E3 WL4 PR 597 L840	4.90	96548759	PAR414ZEPR
PALLION R 1X55W HF E3 WL4 PR 597 L840	4.30	96548755	PAR155ZEPR
PALLION R 2X40W HF E3 WL4 PR 597 L840	4.90	96548756	PAR240ZEPR
PALLION R 2X55W HF E3 WL4 PR 597 L840	4.90	96548757	PAR255ZEPR
Pallion Recessed with prismatic diffuser, dimmable			
PALLION R 2X24W HFI WL6 PR 597 L840	4.00	96548753	PAR224DPR
PALLION R 4X14W HFIX WL6 PR 597 L840	4.60	96548754	PAR414DPR
PALLION R 1X55W HFI WL6 PR 597 L840	4.00	96548750	PAR155DPR
PALLION R 2X40W HFI WL6 PR 597 L840	4.60	96548751	PAR240DPR
PALLION R 2X55W HFI WL6 PR 597 L840	4.60	96548752	PAR255DPR
Pallion Recessed with prismatic diffuser, dimmable, emergency			
PALLION R 2X24W HFI E3 WL6 PR 597 L840	4.30	96548763	PAR224DEPR
PALLION R 4X14W HFIX E3 WL6 PR 597 L840	4.90	96548764	PAR414DEPR
PALLION R 1X55W HFI E3 WL6 PR 597 L840	4.30	96548760	PAR155DEPR
PALLION R 2X40W HFI E3 WL6 PR 597 L840	4.90	96548761	PAR240DEPR
PALLION R 2X55W HFI E3 WL6 PR 597 L840	4.90	96548762	PAR255DEPR
Pallion Recessed with louvre			
PALLION R 2X24W HF WL4 LV 597 L840	4.00	96548728	PAR224ZLV
PALLION R 1X55W HF WL4 LV 597 L840	4.00	96548725	PAR155ZLV
PALLION R 4X14W HF WL4 LV 597 L840	4.60	96548729	PAR414ZLV
PALLION R 2X40W HF WL4 LV 597 L840	4.60	96548726	PAR240ZLV
PALLION R 2X55W HF WL4 LV 597 L840	4.60	96548727	PAR255ZLV

Description	Wt (kg)	SAP Code	Cat. No.
Pallion Recessed with louvre, emergency			
PALLION R 2X24W HF E3 WL4 LV 597 L840	4.30	96548738	PAR224ZELV
PALLION R 1X55W HF E3 WL4 LV 597 L840	4.30	96548735	PAR155ZELV
PALLION R 4X14W HF E3 WL4 LV 597 L840	4.90	96548739	PAR414ZELV
PALLION R 2X40W HF E3 WL4 LV 597 L840	4.90	96548736	PAR240ZELV
PALLION R 2X55W HF E3 WL4 LV 597 L840	4.90	96548737	PAR255ZELV
Pallion Recessed with louvre, dimmable			
PALLION R 2X24W HFI WL6 LV 597 L840	4.00	96548733	PAR224DLV
PALLION R 1X55W HFI WL6 LV 597 L840	4.00	96548730	PAR155DLV
PALLION R 4X14W HFIX WL6 LV 597 L840	4.60	96548734	PAR414DLV
PALLION R 2X40W HFI WL6 LV 597 L840	4.60	96548731	PAR240DLV
PALLION R 2X55W HFI WL6 LV 597 L840	4.60	96548732	PAR255DLV
Pallion Recessed with louvre, dimmable, emergency			
PALLION R 2X24W HFI E3 WL6 LV 597 L840	4.30	96548743	PAR224DELV
PALLION R 1X55W HFI E3 WL6 LV 597 L840	4.30	96548740	PAR155DELV
PALLION R 4X14W HFIX E3 WL6 LV 597 L840	4.90	96548744	PAR414DELV
PALLION R 2X40W HFI E3 WL6 LV 597 L840	4.90	96548741	PAR240DELV
PALLION R 2X55W HFI E3 WL6 LV 597 L840	4.90	96548742	PAR255DELV
Pallion Recessed with slotted diffuser			
PALLION R 2X24W HF WL4 SL 597 L840	4.00	96548766	PAR224ZSL
PALLION R 1X55W HF WL4 SL 597 L840	4.00	96548765	PAR155ZSL
Pallion Recessed with slotted diffuser, emergency			
PALLION R 2X24W HF E3 WL4 SL 597 L840	4.30	96548770	PAR224ZESL
PALLION R 1X55W HF E3 WL4 SL 597 L840	4.30	96548769	PAR155ZESL
Pallion Recessed with slotted diffuser, dimmable			
PALLION R 2X24W HFI WL6 SL 597 L840	4.00	96548768	PAR224DSL
PALLION R 1X55W HFI WL6 SL 597 L840	4.00	96548767	PAR155DSL
Pallion Recessed with slotted diffuser, dimmable, emergency			
PALLION R 2X24W HFI E3 WL6 SL 597 L840	4.30	96548772	PAR224DESL
PALLION R 1X55W HFI E3 WL6 SL 597 L840	4.30	96548771	PAR155DESL
Pallion Semi-recessed with prismatic diffuser			
PALLION SR 2X24W HF WL4 PR 597 L840	4.00	96548786	PASR224ZPR
PALLION SR 4X14W HF WL4 PR 597 L840	4.60	96548787	PASR414ZPR
PALLION SR 1X55W HF WL4 PR 597 L840	4.00	96548785	PASR155ZPR
Pallion Semi-recessed with prismatic diffuser, emergency			
PALLION SR 2X24W HF E3 WL4 PR 597 L840	4.30	96548792	PASR224ZEPR
PALLION SR 4X14W HF E3 WL4 PR 597 L840	4.90	96548793	PASR414ZEPR
PALLION SR 1X55W HF E3 WL4 PR 597 L840	4.30	96548791	PASR155ZEPR

NEW

Pallion



www.thornlighting.co.uk/PALL

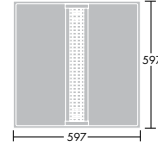
A minimalist luminaire with maximum lighting impact

Ordering Guide

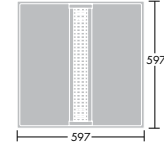
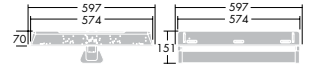
Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Pallion Semi-recessed with prismatic diffuser, dimmable			
PALLION SR 2X24W HFI WL6 PR 597 L840	4.00	96548789	PASR224DPR
PALLION SR 4X14W HFIX WL6 PR 597 L840	4.60	96548790	PASR414DPR
PALLION SR 1X55W HFI WL6 PR 597 L840	4.00	96548788	PASR155DPR
Pallion Semi-recessed with prismatic diffuser, dimmable, emergency			
PALLION SR 2X24W HFI E3 WL6 PR 597 L840	4.30	96548795	PASR224DEPR
PALLION SR 4X14W HFIX E3 WL6 PR 597 L840	4.90	96548796	PASR414DEPR
PALLION SR 1X55W HFI E3 WL6 PR 597 L840	4.30	96548794	PASR155DEPR
Pallion Semi-recessed with louvre			
PALLION SR 2X24W HF WL4 LV 597 L840	4.00	96548774	PASR224ZLV
PALLION SR 1X55W HF WL4 LV 597 L840	4.00	96548773	PASR155ZLV
PALLION SR 4X14W HF WL4 LV 597 L840	4.60	96548775	PASR414ZLV
Pallion Semi-recessed with louvre, emergency			
PALLION SR 2X24W HF E3 WL4 LV 597 L840	4.30	96548780	PASR224ZELV
PALLION SR 1X55W HF E3 WL4 LV 597 L840	4.30	96548779	PASR155ZELV
PALLION SR 4X14W HF E3 WL4 LV 597 L840	4.90	96548781	PASR414ZELV
Pallion Semi-recessed with louvre, dimmable			
PALLION SR 2X24W HFI WL6 LV 597 L840	4.00	96548777	PASR224DLV
PALLION SR 1X55W HFI WL6 LV 597 L840	4.00	96548776	PASR155DLV
PALLION SR 4X14W HFIX WL6 LV 597 L840	4.60	96548778	PASR414DLV
Pallion Semi-recessed with louvre, dimmable, emergency			
PALLION SR 2X24W HFI E3 WL6 LV 597 L840	4.30	96548783	PASR224DELV
PALLION SR 1X55W HFI E3 WL6 LV 597 L840	4.30	96548782	PASR155DELV
PALLION SR 4X14W HFIX E3 WL6 LV 597 L840	4.90	96548784	PASR414DELV
Pallion Accessories			
MINI WEDGE	1.00	96218676	OMMW
RECESSED 50MM THERMAL SPACER INSERT SING		59004828	
RECESSED 50MM THERMAL SPACER INSERT TWIN		59004829	
Pallion IP44 Frame			
FRAME IP44 600X600MM AC CL	1.50	96233930	QTT66AC
FRAME IP44 600X600MM PC CL PET	1.50	96233929	QTT66PC

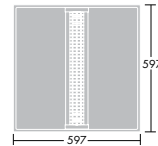
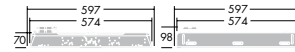
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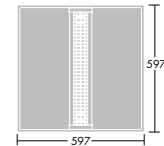
Pallion SR (597) WL6



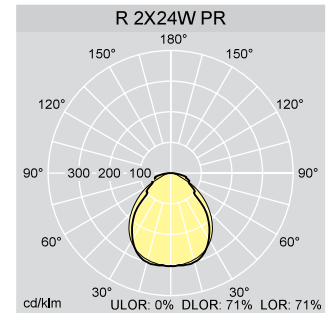
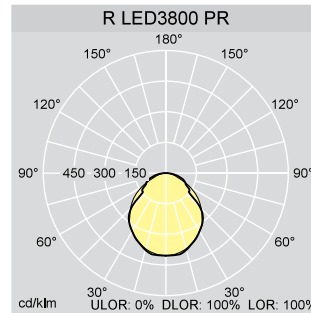
Pallion SR (597)

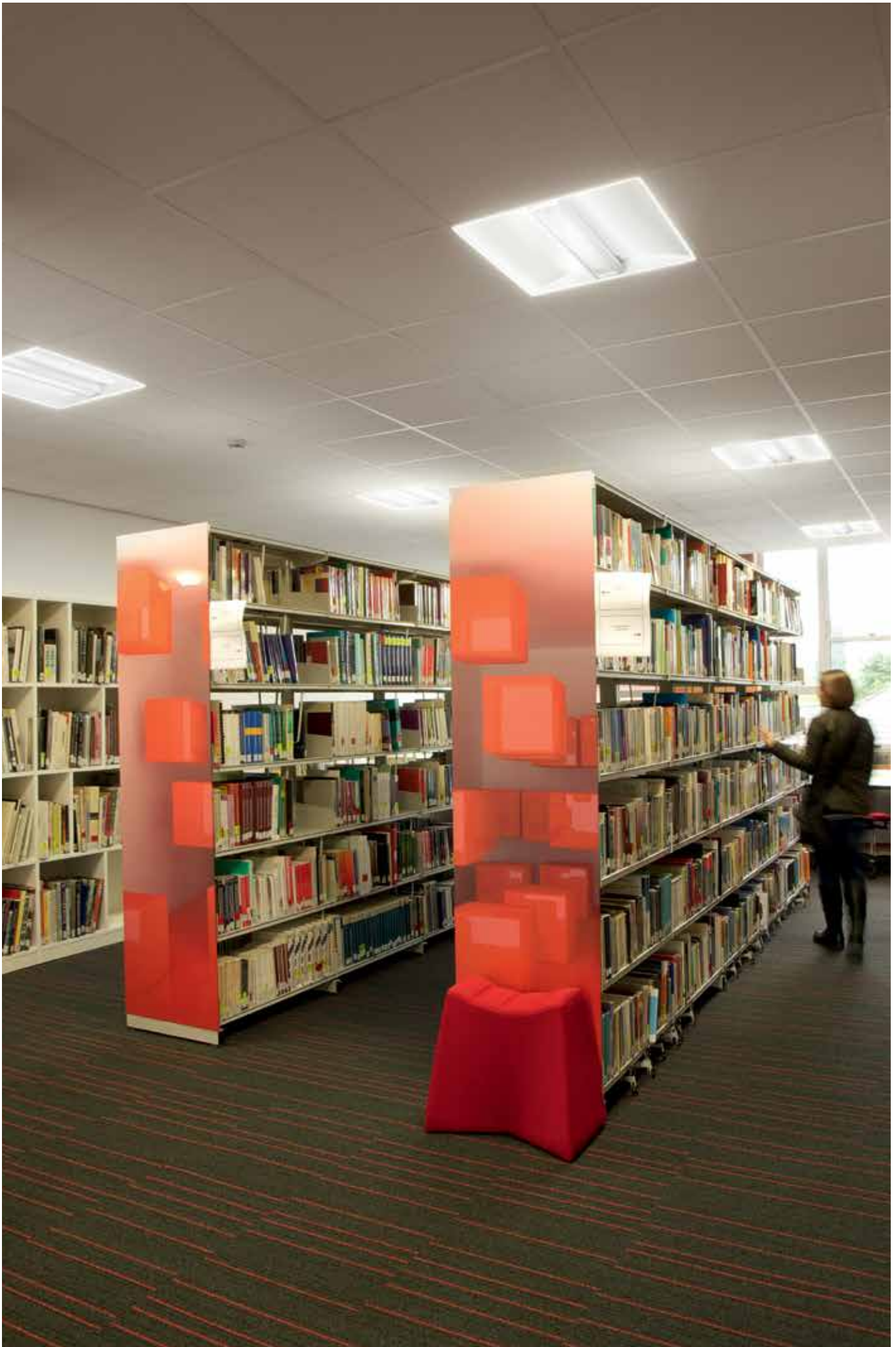


Pallion R (597) WL6



Pallion R (597)





NEW

Quattro LED



www.thornlighting.co.uk/QTRL

Second generation contemporary recessed LED luminaire with enhanced energy efficiency



Lamps

LED 2.4-42W

Standards



- Striking sloping edge contemporary design offering you 'something different' as an alternative in recessed LED
- DALI dimming as standard offers great energy saving and easy light control within the environment
- Quick and easy installation due to it's lighter weight, lay-in and plug & play connector
- Similar lighting performance as a traditional fluorescent but using significantly less energy (42W total power)

Materials/Finish

Body: white painted steel (close to RAL 9016)
Optic: opal PMMA acrylic

Installation/Mounting

Suitable for lay-in (exposed tee 15mm or 24mm) suspended ceilings. Electrical connection is quick and easy via externally mounted Wieland connectors located on the back of the body. WL6 versions via a flush panel mounted GST 18/6 connector (plug). All appropriate female connectors (sockets) must be ordered separately. E3TX versions require an additional S3 female connector to be ordered. Safety suspension wire supplied.

Specification

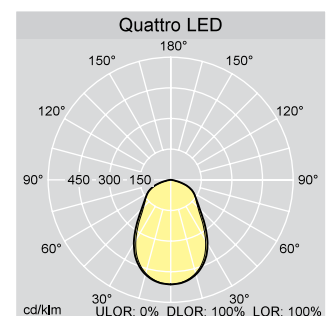
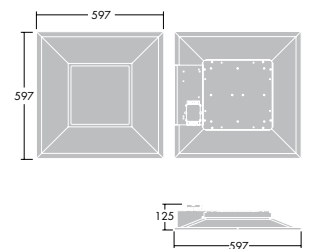
To specify state:
Recessed LED luminaire with unique sloping edge design, offering a crisp 4000K white light evenly lit diffuser, suitable for lay in exposed tee grids, plug & play via external Wieland connectors, Ra80, 3200 lumen output, DALI dimming and emergency E3/E3TX and 76 lm/W. As Thorn Quattro LED

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Quattro LED			
QUATTRO LED 3200 HFI-X WL6 OP L840	5.00	96241099	QT3200X
QUATTRO LED 3200 HFI-X WL6 E3 OP L840	5.10	96241101	QT3200XE
QUATTRO LED 3200 HFI-X WL6 E3TX OP L840	5.30	96241103	QT3200XEX

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Quattro

C Line



www.thornlighting.co.uk/QTRC

Fluorescent luminaires suitable for recessing into nearly all suspended ceiling systems with a comprehensive range of lighting attachments to satisfy commercial and retail applications



- Easy to install accurately in the ceiling grid with brackets to ensure correct alignment
- Suitable for most ceiling systems, including T grid, Z rail, Burgess, SAS Omega and exposed grid ceilings
- Natural air flow through luminaire keeps louvres clean
- High performance louvres for offices and louvres and diffusers for commercial and retail applications

Materials/Finish

Body: white pre-painted steel close to RAL 9010
Louvres : high purity aluminium
Diffusers : clear prismatic PET/G panel retained by a white aluminium frame.

Installation/Mounting

Installation can be parallel with or normal to the ceiling grid. The fitting, complete with suspension brackets, is inserted through the ceiling aperture, the brackets are released to engage the ceiling grid, adjusted to level the fitting within the ceiling and locked. Fittings also incorporate facility for rod suspension from a primary grid or the structural soffit. Louvre and diffuser attachments are retained and hinged via wishbone springs. Electrical connection is via flush panel mounted GST 18/4 male connector (plug) for fixed output WL4 versions and 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX versions have an additional 18/3 box tee connector (not mains rated). Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect with luminaires.

Specification

To specify state:
Recessed modular fluorescent luminaire for 18-36W T26 (T8) linear fluorescent or 34-55W TC-L compact fluorescent lamps with high frequency fixed output/digital dimmable/Sensa/SensaLink control circuit. For use in concealed fix/metal tray/Burgess/SAS Omega/T grid ceiling. With Satinbrite <math><500\text{cd}/\text{m}^2</math>/low brightness louvre or framed flat diffuser. For emergency versions please specify E3 for manual testing and E3TX for Selftest/Addressable test. As Thorn Quattro C Line



Lamps

	T8 (FD)	G13	18-36W
	TC-L (FSDH)	2G11	36-55W

Standards

850 °C					

Ordering Guide

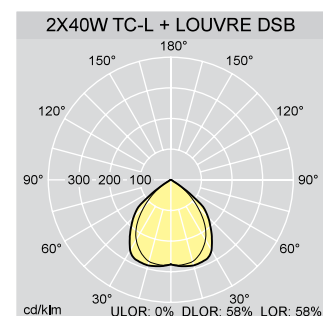
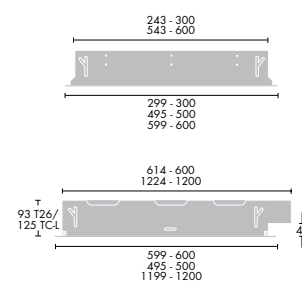
Supplied complete with lamp(s). For complete fitting order luminaire body and corresponding attachment.

Description	Wt (kg)	SAP Code	Cat. No.
Quattro C Line Bodies			
QUATTROC BODY 2X36W T26 HF WL4 L840	3.20	96239906	QTC236Z
QUATTROC BODY 2X36W TC-L HF WL4 L840	2.50	96535959	QTC236TCZ
QUATTROC BODY 2X40W TC-L HF WL4 L840	3.50	96239894	QTC240Z
QUATTROC BODY 2X55W TC-L HF WL4 L840	3.50	96535960	QTC255Z
QUATTROC BODY 3X18W T26 HF WL4 L840	4.00	96239900	QTC318Z
QUATTROC BODY 3X36W T26 HF WL4 L840	5.30	96239908	QTC336Z
QUATTROC BODY 4X18W T26 HF WL4 L840	4.00	96535961	QTC418Z
Quattro C Line Bodies, dimmable			
QUATTROC BODY 2X36W T26 HFD WL6 L840	4.20	96535962	QTC236DD
QUATTROC BODY 2X36W TC-L HFI WL6 L840	5.14	96549427	QTC236CDI
QUATTROC BODY 2X40W TC-L HFI WL6 L840	3.60	96549433	QTC240D
QUATTROC BODY 2X55W TC-L HFD WL6 L840	4.50	96239898	QTC255D
QUATTROC BODY 3X18W T26 HFI WL6 L840	2.90	96549441	QTC318X
QUATTROC BODY 3X18W T26 HFD WL6 L840	5.00	96239902	QTC318D
QUATTROC BODY 3X36W T26 HFD WL6 L840	6.30	96239910	QTC336D
QUATTROC BODY 4X18W T26 HFI WL6 L840	4.90	96549448	QTC418X
QUATTROC BODY 4X18W T26 HFD WL6 L840	5.00	96239904	QTC418D
Quattro C Line Bodies, emergency			
QUATTROC BODY 2X36W TC-L HF E3 WL4 L840	2.50	96535966	QTC236TCZE
QUATTROC BODY 2X36W T26 HF WL4 E3 L840	4.20	96239907	QTC236ZE
QUATTROC BODY 2X40W TC-L HF WL4 E3 L840	4.50	96239895	QTC240ZE
QUATTROC BODY 2X55W TC-L HF E3 WL4 L840	3.50	96535967	QTC255ZE
QUATTROC BODY 3X18W T26 HF E3 WL4 L840	5.00	96239901	QTC318ZE
QUATTROC BODY 3X36W T26 HF E3 WL4 L840	6.30	96239909	QTC336ZE
QUATTROC BODY 4X18W T26 HF E3 WL4 L840	3.90	96535968	QTC418ZE
Quattro C Line Bodies, dimmable, emergency			
QUATTROC BODY 2X36W TC-L HFI E3 WL6 L840	5.15	96549424	QTC236CDIE
QUATTROC BODY 2X40W TC-L HFI E3 WL6 L840	5.20	96549430	QTC240DE
QUATTROC BODY 2X55W TC-L HFD E3 WL6 L840	5.20	96239899	QTC255DE
QUATTROC BODY 3X18W T26 HFI E3 WL6 L840	9.30	96549437	QTC318XE
QUATTROC BODY 3X18W T26 HFD E3 WL6 L840	5.50	96239903	QTC318DE
QUATTROC BODY 3X36W T26 HFD E3 WL6 L840	8.50	96240085	QTC336DE
QUATTROC BODY 4X18W T26 HFI E3 WL6 L840	9.40	96549445	QTC418XE
QUATTROC BODY 4X18W T26 HFD E3 WL6 L840	4.50	96239905	QTC418DE

Description	Wt (kg)	SAP Code	Cat. No.
Quattro C Line Attachments			
QUATTROC DIFFUSER EFL 300X1200MM	1.90	96218292	QTC312DIF
QUATTROC DIFFUSER EFL 600X1200MM	3.30	96218294	QTC612DIF
QUATTROC DIFFUSER EFL 600X600MM	1.80	96218295	QTC66DIF
QUATTROC LOUVRE 2X18 T26 PXT	0.30	96218283	FQCL2306X MK15
QUATTROC LOUVRE 2X34/40/55 TC-L DSB	1.80	96235678	QTC234/40/55SB
QUATTROC LOUVRE 2X34/40/55 TCL HFS DSB	2.20	96235680	QTC234/40/55DSSB
QUATTROC LOUVRE 2X36 T26 PXT	1.60	96218285	QTC236LVX
QUATTROC LOUVRE 2X36W T26 DSB	1.60	96235599	QTC236SB
QUATTROC LOUVRE 2X36W TC-L DSB	1.20	96235658	QTC236TCSB
QUATTROC LOUVRE 3X18 T26 PXT	1.30	96218287	QTC318LVX
QUATTROC LOUVRE 3X18W T26 DSB	0.50	96235608	QTC318SB
QUATTROC LOUVRE 3X36 T26 DSB	1.60	96218289	QTC336SB
QUATTROC LOUVRE 3X36 T26 PXT	1.60	96218290	QTC336LVX
QUATTROC LOUVRE 4X18 T26 PXT	1.30	96218291	QTC418LVX
QUATTROC LOUVRE 4X18W T26 DSB	1.30	96235617	QTC418SB

Quattro C Line Connectors (needed with each luminaire)			
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB

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Quattro

T5



www.thornlighting.co.uk/QTR5

Ultra shallow recessed modular T16 (T5) luminaires for exposed grid and concealed fix ceilings with choice of optic



- Shallow (58mm) square or rectangular body with plain white side panels
- Louvre and diffuser optics including very low glare louvre options for intensive or specialist VDU use
- Asymmetric louvre option for wall washing applications
- Versions with air handling functionality (30 l/s)

Materials/Finish

Body: white painted steel (close to RAL 9010)
Side panels: white painted steel (perforated for air handling version)
Louvre: aluminium
Diffuser: PETG panel with white plastic frame

Installation/Mounting

Suitable for most 15mm or 24mm exposed tee ceilings, the luminaire simply lays onto the ceiling grid for quick installation. For installation from below into concealed fixed and plasterboard ceilings, use mini-wedge brackets (supplied). Electrical connection is via flush panel mounted GST 18/4 male connector (plug) for fixed output WL4 versions and 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX versions have an additional 18/3 box tee connector (not mains rated). Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect with luminaires.

Specification

To specify state:
Recessed modular luminaire for T16 linear fluorescent lamps for use in concealed fixed, plasterboard or 15/24mm exposed tee ceilings, with 58mm depth and dedicated T16 louvre or framed prismatic panel. For emergency versions please specify E3 for manual testing and E3TX for Selftest/Addressable test.
As Thorn Quattro T5.



Lamps

T5 (FDH) G5 14-54W

Standards

CE EN 60598 IP20 T_a25 850 °C

T_{pl(a)}

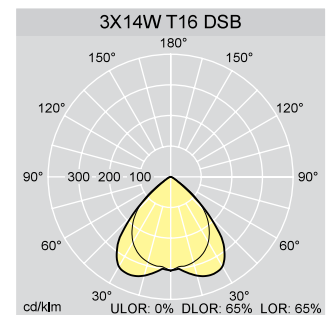
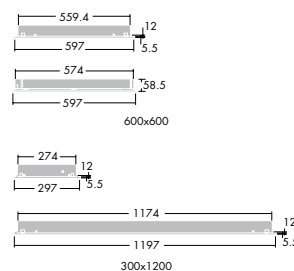
Ordering Guide

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Quattro T5 Satinbrite louvre			
QUATROT5 2X28W T16 HF WL4 DSB L840	8.50	96239911	QTT228ZSB
QUATROT5 3X14W T16 HF WL4 DSB L840	4.40	96535972	QTT314ZSB
QUATROT5 4X14W T16 HF WL4 DSB L840	4.16	96535975	QTT414ZSB
Quattro T5 Satinbrite louvre, dimmable			
QUATROT5 3X14W T16 HFIX WL6 DSB L840	4.60	96549493	QTT314XSB
QUATROT5 3X14W T16 HFD WL6 DSB L840	5.10	96239915	QTT314DSB
QUATROT5 4X14W T16 HFIX WL6 DSB L840	5.53	96549526	QTT414XSB
QUATROT5 4X14W T16 HFD WL6 DSB L840	5.40	96239918	QTT414DSB
Quattro T5 Satinbrite louvre, emergency			
QUATROT5 2X28W T16 HF E3 WL4 DSB L840	5.40	96239912	QTT228ZESB
QUATROT5 3X14W T16 HF E3 WL4 DSB L840	5.40	96535984	QTT314ZESB
QUATROT5 4X14W T16 HF E3 WL4 DSB L840	5.50	96239917	QTT414ZESB
Quattro T5 Satinbrite louvre, emergency, dimmable			
QUATROT5 2X28W T16 HF E3 WL6 DSB L840	8.50	96549463	QTT228DESB
QUATROT5 3X14W T16 HFIX E3 WL6 DSB L840	5.25	96549496	QTT314XESB
QUATROT5 3X14W T16 HFD E3 WL6 DSB L840	5.40	96239916	QTT314DESB
QUATROT5 4X14W T16 HFIX E3 WL6 DSB L840	5.53	96549529	QTT414XESB
QUATROT5 4X14W T16 HFD E3 WL6 DSB L840	5.50	96239919	QTT414DESB
Quattro T5 Diffuser			
QUATROT5 3X14W T16 HF WL4 FEFL L840	4.90	96239920	QTT314ZPC
QUATROT5 4X14W T16 HF WL4 FEFL L840	4.90	96535976	QTT414ZPC
Quattro T5 Diffuser, dimmable			
QUATROT5 3X14W T16 HFIX WL6 FEFL L840	5.20	96549494	QTT314XPC
QUATROT5 3X14W T16 HFD WL6 FEFL L840	4.90	96239922	QTT314DPC
QUATROT5 4X14W T16 HFIX WL6 FEFL L840	4.50	96549527	QTT414XPC
QUATROT5 4X14W T16 HFD WL6 FEFL L840	4.90	96239924	QTT414DPC
Emergency With Diffuser			
QUATROT5 3X14W T16 HF E3 WL4 FEFL L840	5.90	96239921	QTT314ZEPC
QUATROT5 4X14W T16 HF E3 WL4 FEFL L840	5.90	96535988	QTT414ZEPC
Quattro T5 Diffuser, dimmable, emergency			
QUATROT5 3X14W T16 HFIX E3 WL6 FEFL L840	5.93	96549497	QTT314XEPC
QUATROT5 3X14W T16 HFD E3 WL6 FEFL L840	5.90	96239923	QTT314DEPC
QUATROT5 4X14W T16 HFIX E3 WL6 FEFL L840	5.20	96549530	QTT414XEPC
QUATROT5 4X14W T16 HFD E3 WL6 FEFL L840	5.90	96239925	QTT414DEPC

Description	Wt (kg)	SAP Code	Cat. No.
Air Handling Luminaires			
QUATROT5 3X14W T16 HFIX WL6 DSB AH L840	5.20	96549495	QTT314XSBAH
QUATROT5 3X14W T16 HFD WL6 DSB AH L840	4.40	96239935	QTT314DSBAH
QUATROT5 4X14W T16 HFIX WL6 DSB AH L840	5.20	96549528	QTT414XSBAH
QUATROT5 4X14W T16 HFD WL6 DSB AH L840	4.50	96239939	QTT414DSBAH
Emergency Air Handling Luminaires			
QUATROT5 3X14 T16 HFIX E3 WL6 DSB AH L84	5.20	96549498	QTT314XESBAH
QUATROT5 3X14W T16 HFD E3 WL6 DSB AH L84	5.40	96239936	QTT314DESBAH
QUATROT5 4X14 T16HFIX E3 WL6 DSB AH L840	5.25	96549531	QTT414XESBAH
QUATROT5 4X14W T16HFD E3 WL6 DSB AH L840	5.50	96239940	QTT414DESBAH
Asymmetric			
QUATROT5 1X28W T16 HF RAS L840	3.50	96239941	QTT128ZAS
QUATROT5 1X28W T16 HFI RAS L840	3.40	96549454	QTT128DAS
QUATROT5 1X54W T16 HF RAS L840	3.50	96239943	QTT154ZAS
QUATROT5 1X54W T16 HFI RAS L840	3.40	96549456	QTT154DAS
IP44 Frame			
FRAME IP44 300X1200MM AC CL	1.70	96233932	QTT312AC
FRAME IP44 300X1200MM PC CL PET	1.70	96233931	QTT312PC
FRAME IP44 600X600MM AC CL	1.50	96233930	QTT66AC
FRAME IP44 600X600MM PC CL PET	1.50	96233929	QTT66PC
Important - Female connectors (sockets) needed with each luminaire			
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB

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IndiQuattro



www.thornlighting.co.uk/INDQ

A range of slim recessed fluorescent direct/indirect luminaires providing efficient and well balanced task and ambient lighting



- Easier to install and maintain, even in shallow ceiling voids, due to new robust but slim 70 mm body with easily removed and retained optics
- Fast access to terminal block via flap in rear of body
- High light output and efficacy >55 llm/W, as well as luminance limit options below 1500 cd/m² or 3000 cd/m²
- The same great looking IndiQuattro louvre and diffuser optics and a shallow coffer for good architectural integration and ceiling brightness impression

Materials/Finish

Body: white pre-painted steel (close to RAL 9010)

Coffer: sheet steel, post painted textured white (close to RAL 9010)

Diffuser: micro-perforated white painted steel or reeded opal acrylic
Louvre: aluminium in Satinbrite finish with micro-perforated white-painted steel sides

Installation/Mounting

Suitable for lay-in only into 15mm or 24mm exposed tee grids, luminaire is offered into the ceiling and simply lays onto the ceiling grid, with easy electrical connection via external access flap on rear of body. Optics are easily removed and self-retained on one side for ease of lamp access.

Specification

To specify state:

Recessed modular luminaire with slim 70 mm deep body and textured coffers for direct/indirect lighting performance, using T16 linear fluorescent or TC-L compact fluorescent lamps with HF/HFI or emergency control gear, for lay-in installation in 15/24 mm exposed tee ceilings with choice of reeded opal or micro-perforated diffuser or Satinbrite louvre attachment. As Thorn IndiQuattro.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
IndiQuattro With louvre			
IQ 1X55W TC-L HF LV L840	3.70	96239769	IQ155ZLV
IQ 2X24W T16 HF LV L840	3.70	96239767	IQ224ZLV
IQ 2X40W TC-L HF LV L840	3.90	96239766	IQ240ZLV
IQ 2X55W TC-L HF LV L840	3.90	96547374	IQ255ZLV
IQ 4X14W T16 HF LV L840	3.90	96547375	IQ414ZLV
IndiQuattro With louvre, dimmable			
IQ 1X55W TC-L HFI LV L840	4.79	96549971	IQ155DLV
IQ 2X24W T16 HFI LV L840	4.75	96549980	IQ224DLV
IQ 2X40W TC-L HFI LV L840	4.60	96549989	IQ240DLV
IQ 2X55W TC-L HFI LV L840	4.30	96550004	IQ255DLV
IQ 4X14W T16 HFD LV L840	3.90	96547398	IQ414DLV
IQ 4X14W T16 HFIX LV L840	4.70	96549998	IQ414XLV
IndiQuattro With louvre, emergency			
IQ 1X55W TC-L HF E3 LV L840	4.70	96547399	IQ155ZELV
IQ 2X24W T16 HF E3 LV L840	4.50	96547411	IQ224ZELV
IQ 2X40W TC-L HF E3 LV L840	4.80	96547400	IQ240ZELV
IQ 2X55W TC-L HF E3 LV L840	4.90	96547410	IQ255ZELV
IQ 4X14W T16 HF E3 LV L840	4.50	96547412	IQ414ZELV
IndiQuattro With louvre, dimmable emergency			
IQ 1X55W TC-L HFI E3 LV L840	5.19	96549967	IQ155DELV
IQ 2X24W T16 HFI E3 LV L840	5.40	96549976	IQ224DELV
IQ 2X40W TC-L HFI E3 LV L840	3.90	96549985	IQ240DELV
IQ 2X55W TC-L HFI E3 LV L840	5.20	96550005	IQ255DELV
IQ 4X14W T16 HFD E3 LV L840	4.70	96548421	IQ414DELV
IQ 4X14W T16 HFIX E3 LV L840	5.15	96550001	IQ414XELV
IndiQuattro With micro perforated diffuser			
IQ 1X55W TC-L HF MP L840	3.80	96239768	IQ155ZMP
IQ 2X24W T16 HF MP L840	3.70	96548424	IQ224ZMP
IQ 2X40W TC-L HF MP L840	3.90	96548422	IQ240ZMP
IQ 2X55W TC-L HF MP L840	3.90	96548423	IQ255ZMP
IQ 4X14W T16 HF MP L840	3.90	96548425	IQ414ZMP
IndiQuattro With micro perforated diffuser, dimmable			
IQ 1X55W TC-L HFI MP L840	5.15	96549973	IQ155DMP
IQ 2X24W T16 HFI MP L840	4.50	96549982	IQ224DMP
IQ 2X40W TC-L HFI MP L840	3.70	96549991	IQ240DMP
IQ 2X55W TC-L HFI MP L840	4.80	96550006	IQ255DMP
IQ 4X14W T16 HFD MP L840	4.00	96548430	IQ414DMP
IQ 4X14W T16 HFIX MP L840	4.60	96550000	IQ414XMP



Micro-perforated diffuser optic



Single louvre optic



Hinged optic



Opal diffuser optic



Twin louvre optic



Access flap

Lamps

- T5 (FDH) G5 14-24W
- TC-L (FSDH) 2G11 40-55W

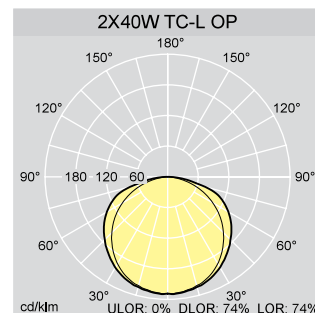
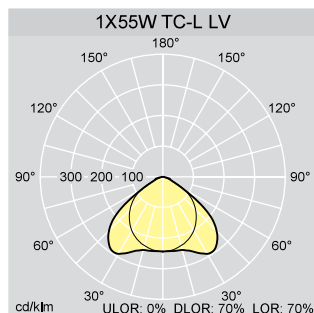
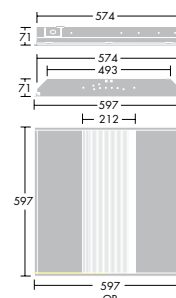
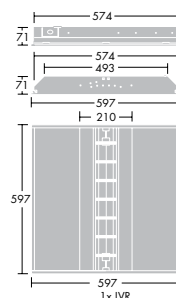
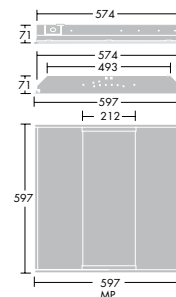
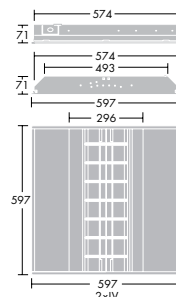
Standards

EN 60598 IP20 IK03 Ta25

650 °C 850 °C

Description	Wt (kg)	SAP Code	Cat. No.
IndiQuattro With micro perforated diffuser, emergency			
IQ 1X55W TC-L HF E3 MP L840	4.70	96548431	IQ155ZEMP
IQ 2X24W T16 HF E3 MP L840	4.50	96548434	IQ224ZEMP
IQ 2X40W TC-L HF E3 MP L840	4.90	96548432	IQ240ZEMP
IQ 2X55W TC-L HF E3 MP L840	4.90	96548433	IQ255ZEMP
IQ 4X14W T16 HF E3 MP L840	4.50	96548435	IQ414ZEMP
IndiQuattro With micro perforated diffuser, dimmable emergency			
IQ 1X55W TC-L HFI E3 MP L840	5.10	96549968	IQ155DEMP
IQ 2X24W T16 HFI E3 MP L840	5.20	96549977	IQ224DEMP
IQ 2X40W TC-L HFI E3 MP L840	5.19	96549986	IQ240DEMP
IQ 2X55W TC-L HFI E3 MP L840	4.50	96550007	IQ255DEMP
IQ 4X14W T16 HFD E3 MP L840	4.70	96548440	IQ414DEMP
IQ 4X14W T16 HFI E3 MP L840	4.70	96550003	IQ414XEMP
IndiQuattro With opal diffuser			
IQ 1X55W TC-L HF OP L840	3.70	96548441	IQ155ZOP
IQ 2X24W T16 HF OP L840	3.70	96548444	IQ224ZOP
IQ 2X40W TC-L HF OP L840	3.90	96548442	IQ240ZOP
IQ 2X55W TC-L HF OP L840	3.90	96548443	IQ255ZOP
IQ 4X14W T16 HF OP L840	3.80	96548445	IQ414ZOP
IndiQuattro With opal diffuser, dimmable			
IQ 1X55W TC-L HFI OP L840	5.20	96549975	IQ155DOP
IQ 2X24W T16 HFI OP L840	4.74	96549984	IQ224DOP
IQ 2X40W TC-L HFI OP L840	4.60	96549993	IQ240DOP
IQ 2X55W TC-L HFI OP L840	4.30	96550008	IQ255DOP
IQ 4X14W T16 HFD OP L840	3.90	96548450	IQ414DOP
IQ 4X14W T16 HFI OP L840	3.90	96549999	IQ414XOP
IndiQuattro With opal diffuser, emergency			
IQ 1X55W TC-L HF E3 OP L840	4.70	96548451	IQ155ZEOP
IQ 2X24W T16 HF E3 OP L840	4.50	96548454	IQ224ZEOP
IQ 2X40W TC-L HF E3 OP L840	4.80	96548452	IQ240ZEOP
IQ 2X55W TC-L HF E3 OP L840	4.90	96548453	IQ255ZEOP
IQ 4X14W T16 HF E3 OP L840	4.40	96548455	IQ414ZEOP
IndiQuattro With opal diffuser, dimmable emergency			
IQ 1X55W TC-L HFI E3 OP L840	5.20	96549969	IQ155DEOP
IQ 2X24W T16 HFI E3 OP L840	5.20	96549978	IQ224DEOP
IQ 2X40W TC-L HFI E3 OP L840	5.20	96549987	IQ240DEOP
IQ 2X55W TC-L HFI E3 OP L840	5.20	96550009	IQ255DEOP
IQ 4X14W T16 HFD E3 OP L840	4.60	96548460	IQ414DEOP
IQ 4X14W T16 HFI E3 OP L840	4.60	96550002	IQ414XEOP

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NEW

Specline LED



www.thornlighting.co.uk/SPLD

A recessed LED modular with a choice of optics for optimum lighting of offices and retail spaces



Lamps

LED 1-44W

Standards



- The combination of high efficacy LED module and high performance optics delivers up to 3700 luminaire lumens while achieving 79 lm/W with a connected load per fitting of 47W
- Choice of two optics (OP = retail, MPT = office) for different application requirements
- Lay in/pull up installation complies with most ceiling types
- Plug & Play connection as standard with Wieland connectors

Materials/Finish

Body: steel sheet, white
Diffuser: opal acrylic
Optic: micro prism acrylic (PMMA)

Installation/Mounting

Suitable for most 15 or 24mm exposed ceilings, the luminaire simply lays onto the ceiling grid for quick installation. Pull up installation with external wedge KIT possible.

Specification

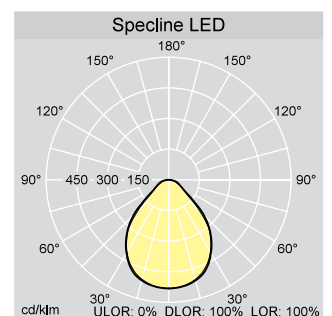
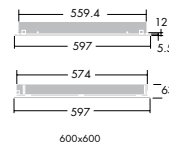
To specify state:
Recessed modular LED luminaire for lay in/pull up installation with MPT optic or opal diffuser delivering 3500 / 3700 lm.
As Thorn Specline LED.

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Specline LED			
SPECLINELED 3700 HF OP WL4 L840 597	5.00	96241476	SP3700ZOP
Specline LED Emergency			
SPECLINELED 3700 HF E3 OP WL4 L840 597	5.30	96241477	SP3700ZEOP
Specline LED Dimmable			
SPECLINELED 3500 HFI MPT WL6 L840 597	5.00	96241070	SP3500DMP
SPECLINELED 3700 HFI OP WL6 L840 597	5.00	96241071	SP3700DOP
Specline LED Dimmable, emergency			
SPECLINELED 3500 HFI E3 MPT WL6 L840 597	5.30	96241086	SP3500DEMP
SPECLINELED 3700 HFI E3 OP WL6 L840 597	5.30	96241087	SP3700DEOP
Specline LED Accessories			
CONNECT S4	0.03	96200559	4S
CONNECT S6 B	1.00	96233052	6SB
EXTERNAL WEDGE KIT (4)	0.15	59003418	EXWDGK4

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NEW

Omega LED



www.thornlighting.co.uk/OMGL

50% less energy than a 4x18W T26 (T8) fluorescent with adjustable mounting options for through-life flexibility



- With the use of simple mounting kits, the recessed version offers increased flexibility, for use where either surface or suspended mounting is required
- Good glare control (UGR<19/22) allows easy retrofit for traditional luminaires. DALI dimming (as standard) further increases energy savings
- IP44 extends application scope to include restrooms and hospitals
- Available now as 600x600mm, 300x300mm, 300x1200, 600x1200mm coming soon.

Materials/Finish

Body: mild steel sheet, white (RAL9016)
Diffuser: UV-stabilized, opal acrylic

Installation/Mounting

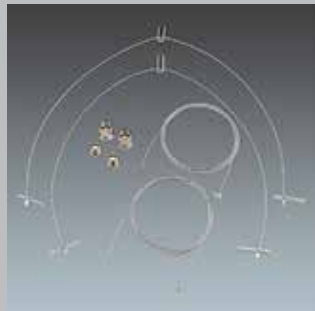
Recessed: lay in for most suspended T15/24 ceilings. 300x300 suitable for pull up installations (concealed & plaster board ceilings).
Surface: collar type - fixed to the ceiling with 4 screws via keyhole slots, product to be layed in.
Suspended: suspended via adjustable wire suspension (1500mm), 4 fixing points to the ceiling, 300x300 is not suitable for suspension mounting.

Specification

To specify state:
A versatile square/rectangular luminaire for recessed, surface and suspended mounting with LED light source 3000/4000K colour temperature options, CRI>80 and a lifetime of 50,000 hours @ L70 Ta 25C. As Thorn Omega LED.



With surface mounting kit



Suspension kit



With suspension kit



Lamps

LED 5-36W

Standards



Ordering Guide

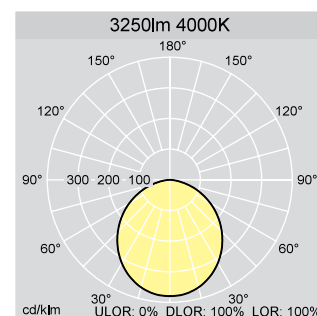
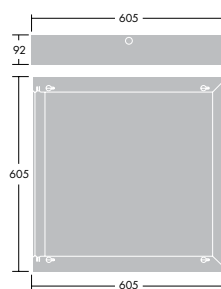
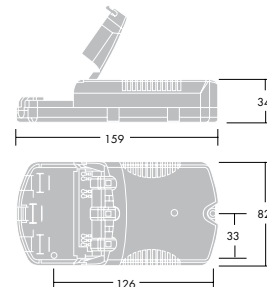
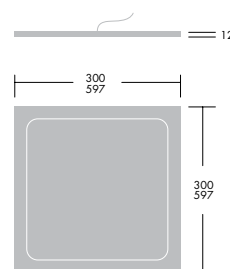
Supplied complete with LEDs. Mounting accessories to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Omega LED 600x600			
OMEGA LED 3250 HF L830 597	5.00	96241575	OM3250Z3K
OMEGA LED 3250 HF L840 597	5.00	96241576	OM3250Z
OMEGA LED 3250 HF E3 L830 597	6.10	96241583	OM3250ZE3K
OMEGA LED 3250 HF E3 L840 597	6.10	96241584	OM3250ZE
OMEGA LED 3250 HFIX L830 597	5.00	96241579	OM3250X3K
OMEGA LED 3250 HFIX L840 597	5.00	96241580	OM3250X
OMEGA LED 3250 HFIX E3 L830 597	6.10	96241585	OM3250XE3K
OMEGA LED 3250 HFIX E3 L840 597	6.10	96241586	OM3250XE

Omega LED Accessories

GRIPPLE SAFETY WIRE	0.01	96239327	GSW
OMEGA LED SURFACE MTG KIT 597	2.50	96241603	OMSM3250KIT
OMEGA LED SUSPENSION KIT	0.80	96241604	OMSUSKIT

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Omega 2

T5



www.thornlighting.co.uk/OMG5

Recessed modular luminaires for T16 (T5) linear fluorescent lamps.



- Specifically designed for T16 (T5) lamps with dedicated optics
- High performance with LOR >75% and good glare control
- Two body sizes to suit application: square or linear
- Ready to install versions available

Materials/Finish

Body: white painted steel (close to RAL 9010) with highly reflective finish.

Louvre: open top parabolic aluminium, mirrorbrite or satinbrite.
Side panels: white painted steel
Diffuser: acrylic or PETG prismatic panel.

Installation/Mounting

Suitable for most 15mm or 24mm exposed tee ceilings, the luminaire simply lays onto the ceiling grid for quick installation. For installation from below into concealed fixed and plasterboard ceilings, use mini-wedge brackets (to be ordered separately).

Specification

To specify state:

Recessed modular fluorescent luminaire for 14-28W T16 linear fluorescent lamps with dedicated louvre (in Mirrorbrite or Satinbrite finish) or prismatic diffuser.
As Thorn Omega 2 T5.

**Lamps**

T5 (FDH) G5 14-28W

Standards

CE EN 60598 IP20 T_a25 960 °C

Ordering Guide

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T5 Mirrorbrite louvre			
OMEGA2 4X14 T16 HF DMB L840	3.80	96238864	OM414ZMB
OMEGA2 4X24 T16 HF DMB L840	4.80	96547331	OM424ZMB
OMEGA2 4X28 T16 HF DMB L840	7.50	96241135	OM428ZMB
Omega 2 T5 Mirrorbrite louvre, dimmable			
OMEGA2 4X14 T16 HFD DMB L840	3.50	96547304	OM414DMB
OMEGA2 4X14 T16 HFIX DMB L840	3.40	96549328	OM414XMB
OMEGA2 4X24 T16 HFI DMB L840	5.19	96549400	OM424DMB
Omega 2 T5 Mirrorbrite louvre, emergency			
OMEGA2 4X14 T16 HF E3 DMB L840	4.60	96547317	OM414ZEMB
OMEGA2 4X14 T16 HF E3 DMB L840	5.20	96547343	OM424ZEMB
OMEGA2 4X28 T16 HF E3 DMB L840	9.50	96241136	OM428ZEMB
Omega 2 T5 Mirrorbrite louvre, dimmable, emergency			
OMEGA2 4X14 T16 HFD E3 DMB L840	5.20	96547318	OM414DEMB
OMEGA2 4X14 T16 HFIX E3 DMB L840	5.10	96549331	OM414XEMB
OMEGA2 4X24 T16 HFI E3 DMB L840	5.40	96549404	OM424DEMB
Omega 2 T5 Satinbrite louvre			
OMEGA2 4X14 T16 HF DSB L840	4.10	96504787	OM414ZSB
OMEGA2 4X24 T16 HF DSB L840	4.10	96547329	OM424ZSB
Omega 2 T5 Satinbrite louvre, dimmable			
OMEGA2 4X14 T16 HFD DSB L840	4.20	96547303	OM414DSB
OMEGA2 4X14 T16 HFIX DSB L840	3.50	96549327	OM414XSB
OMEGA2 4X24 T16 HFI DSB L840	4.20	96549402	OM424DSB
Omega 2 T5 Satinbrite louvre, emergency			
OMEGA2 4X14 T16 HF E3 DSB L840	4.80	96547315	OM414ZESB
OMEGA2 4X24 T16 HF E3 DSB L840	4.80	96547345	OM424ZESB
Omega 2 T5 Satinbrite louvre, dimmable, emergency			
OMEGA2 4X14 T16 HFD E3 DSB L840	4.80	96547316	OM414DES
OMEGA2 4X14 T16 HFIX E3 DSB L840	4.50	96549330	OM414XESB
OMEGA2 4X24 T16 HFI E3 DSB L840	4.20	96549406	OM424DES
Omega 2 T5 Prismatic diffuser			
OMEGA2 4X14 T16 HF EFL PR AC L840	4.10	96547321	OM414ZPRAC
OMEGA2 4X14 T16 HF EFL PR PET L840	4.10	96547323	OM414ZPRPC
OMEGA2 4X24 T16 HF EFL PR AC L840	4.10	96547333	OM424ZPRAC
OMEGA2 4X24 T16 HF EFL PR PET L840	4.10	96547335	OM424ZPRPC

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T5 Prismatic diffuser, dimmable			
OMEGA2 4X14 T16 HFD EFL PR AC L840	4.10	96547322	OM414DPRAC
OMEGA2 4X14 T16 HFD EFL PR PET L840	4.10	96547324	OM414DPRPC
OMEGA2 4X14 T16 HFIX EFL PR AC L840	5.19	96549333	OM414XPRAC
OMEGA2 4X14 T16 HFIX EFL PR PET L840	4.40	96549334	OM414XPRPC
OMEGA2 4X24 T16 HFI EFL PR AC L840	3.90	96549410	OM424DPRAC
OMEGA2 4X24 T16 HFI EFL PR PET L840	3.90	96549412	OM424DPRPC
Omega 2 T5 Prismatic diffuser, emergency			
OMEGA2 4X14 T16 HF E3 EFL PR PET L840	5.10	96547337	OM414ZEPRPC
OMEGA2 4X24 T16 HF E3 EFL PR PET L840	5.40	96547347	OM424ZEPRPC
Omega 2 T5 Prismatic diffuser, dimmable, emergency			
OMEGA2 4X14 T16 HFD E3 EFL PR PET L840	5.10	96547338	OM414DEPRPC
OMEGA2 4X14 T16 HFIX E3 EFL PR PET L840	5.20	96549335	OM414XEPRPC
OMEGA2 4X24 T16 HFI E3 EFL PR PET L840	5.10	96549408	OM424DEPRPC
Omega 2 T5 Ready to install Mirrorbrite louvre			
OMEGA2 FAST 4X14 T16 HF IS DMB L840	4.20	96504837	OMF414ZMB
OMEGA2 FAST 4X24 T16 HF IS DMB L840	4.20	96534943	OMF424ZMB
Omega 2 T5 Ready to install Mirrorbrite louvre, dimmable			
OMEGA2 FAST 4X14 T16 HFD IS DMB L840	4.20	96504838	OMF414DMB
OMEGA2 FAST 4X14 T16 HFIX IS DMB L840	4.10	96549306	OMF414XMB
OMEGA2 FAST 4X24 T16 HFI IS DMB L840	4.10	96549415	OMF424DMB
Omega 2 T5 Ready to install Mirrorbrite louvre, emergency			
OMEGA2 FAST 4X14 T16 HF E3 IS DMB L840	5.40	96504859	OMF414ZEMB
OMEGA2 FAST 4X24 T16 HF E3 IS DMB L840	5.40	96534959	OMF424ZEMB
Omega 2 T5 Ready to install Mirrorbrite louvre, dimmable, emergency			
OMEGA2 FAST 4X14 T16 HFD E3 IS DMB L840	5.40	96504860	OMF414DEMB
OMEGA2 FAST 4X14 T16 HFIX E3 IS DMB L840	4.10	96549314	OMF414XEMB
OMEGA2 FAST 4X24 T16 HFI E3 IS DMB L840	4.10	96549413	OMF424DEMB
Omega 2 T5 Ready to install Satinbrite louvre			
OMEGA2 FAST 4X14 T16 HF IS DSB L840	4.20	96504833	OMF414ZSB
OMEGA2 FAST 4X24 T16 HF IS DSB L840	4.00	96534945	OMF424ZSB
Omega 2 T5 Ready to install Satinbrite louvre, dimmable			
OMEGA2 FAST 4X14 T16 HFD IS DSB L840	4.20	96504834	OMF414DSB
OMEGA2 FAST 4X14 T16 HFIX IS DSB L840	4.15	96549305	OMF414XSB
OMEGA2 FAST 4X24 T16 HFI IS DSB L840	4.10	96549416	OMF424DSB

Omega 2 T5



www.thornlighting.co.uk/OMG5

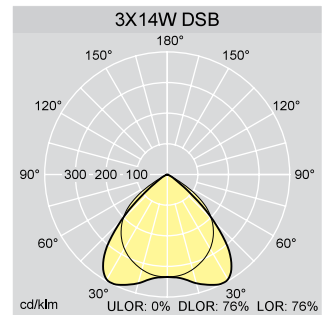
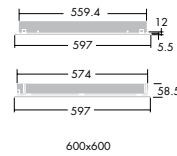
Recessed modular luminaires for T16 (T5) linear fluorescent lamps.

Ordering Guide

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T5 Ready to install Satinbrite louvre, emergency			
OMEGA2 FAST 4X14 T16 HF E3 IS DSB L840	5.40	96504857	OMF414ZESB
OMEGA2 FAST 4X24 T16 HF E3 IS DSB L840	5.40	96534957	OMF424ZESB
Omega 2 T5 Ready to install Satinbrite louvre, dimmable, emergency			
OMEGA2 FAST 4X14 T16 HFD E3 IS DSB L840	5.40	96504858	OMF414DESb
OMEGA2 FAST 4X14 T16 HFIX E3 IS DSB L840	4.10	96549313	OMF414XESB
OMEGA2 FAST 4X24 T16 HFI E3 IS DSB L840	4.10	96549414	OMF424DESb
Omega 2 T5 Accessories			
MINI WEDGE	1.00	96218676	OMMW

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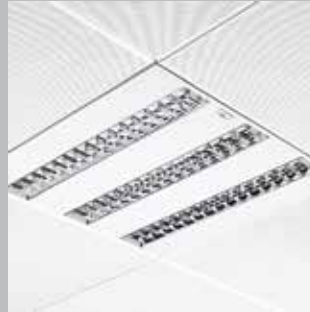
NEW

Omega 2 T5 ECO



www.thornlighting.co.uk/OMGE

Quick to install recessed modular luminaire with sensor options for greater energy savings



Lamps

T5 (FDH) G5 14W

Standards



INDOOR LIGHTING

- Up to 70% energy savings possible with DALI and sensor version
- Pre-fitted lamps and quick access terminal block reduces the installation time
- 75% LOR (UTE B / UGR<19 at 3000 cd) allows lower number of fittings vs 4x18W T26 (T8) and reduced maintenance cost; in line with EN12464-1
- Supplied with protective film which can be easily removed after the refurbishment is finished

Materials/Finish

Body: steel sheet, white (RAL9016)
Louvre: highly reflective mirrorbrite aluminium

Installation/Mounting

Ceiling recessed: lay in only for most suspended 600x600 T15/24 ceilings.

FAST: lamps pre-fitted, gripple wire attached, quick access hatch and protective film

Specification

To specify state:
A square shaped luminaire with mirrorbrite louve (75% LOR) for recessed lay in installation with fixed output/DALI/sensor option. Luminaire in line with EN12464-1, UGR<19 @ 3000 cd / UTE B. As Thorn Omega 2 T5 ECO.

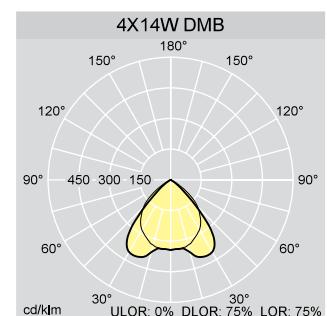
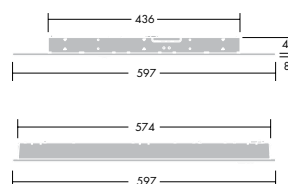
Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T5 ECO			
OMEGA2 ECO 3X14 HF IS DMB L840	3.00	96241697	OME314ZMB
OMEGA2 ECO 4X14 HF IS DMB L840	3.10	96241698	OME414ZMB
Omega 2 T5 ECO Dimmable			
OMEGA2 ECO 3X14 HFIX IS DMB L840	3.00	96241699	OME314XMB
OMEGA2 ECO 3X14 HFIS IS DMB L840	3.00	96241701	OME314XSMB
OMEGA2 ECO 4X14 HFIX IS DMB L840	3.10	96241700	OME414XMB
OMEGA2 ECO 4X14 HFIS IS DMB L840	3.10	96241702	OME414XSMB
Omega 2 T5 ECO Emergency			
OMEGA2 ECO 3X14 HF E3 IS DMB L840	3.10	96241703	OME314ZEMB
OMEGA2 ECO 4X14 HF E3 IS DMB L840	3.20	96241704	OME414ZEMB
Omega 2 T5 ECO Dimmable, emergency			
OMEGA2 ECO 3X14 HFIX E3 IS DMB L840	3.10	96241705	OME314XEMB
OMEGA2 ECO 4X14 HFIX E3 IS DMB L840	3.20	96241706	OME414XEMB
Omega 2 T5 ECO Accessory			
SENSA SENRC	0.11	96004175	S31RHH

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RECESSED MODULAR LUMINAIRES



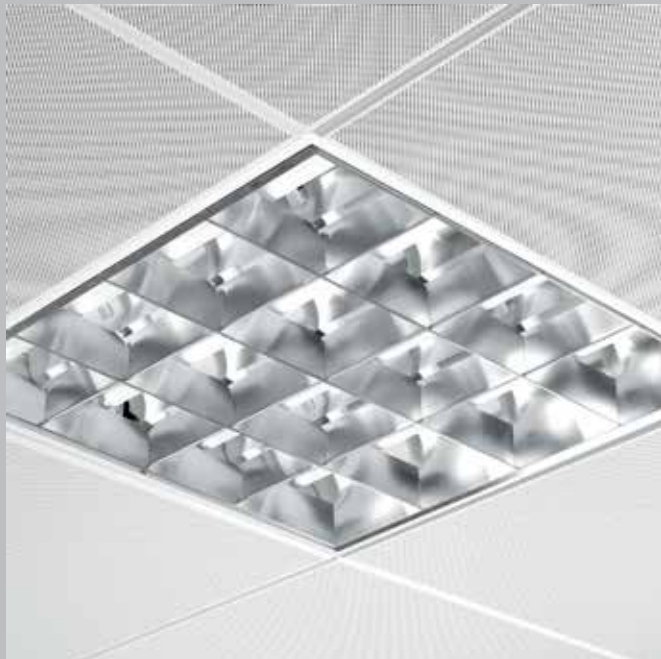
Omega 2

T8



www.thornlighting.co.uk/OMG8

Recessed modular luminaires for T26 (T8) linear fluorescent lamps.



- Choice of louvres and diffusers to suit education, office and retail applications
- Good light output and uniformity for flexible lighting schemes
- Simple to use louvre retention method
- Ready to install versions available

Materials/Finish

Body: white painted steel (close to RAL 9010).

Louvre: mirrorbrite, satinbrite or white painted aluminium.

Diffuser: acrylic or PETG prismatic panel.

Installation/Mounting

Designed to be quick and easy to install either parallel or at right angles to the ceiling grid. Can be mounted from below or laid in, dependent on the ceiling type. Mini-wedge brackets required when mounting from below (sold as an accessory). Suitable for plasterboard, 12-65mm concealed grid and 15 or 24mm tee grid ceiling systems, diffuser versions suitable for lay-in only into 15 or 24mm tee grid ceiling. Louvre retention for ease of lamp replacement.

Specification

To specify state:

Recessed modular fluorescent luminaire for 18-36W T26 linear fluorescent lamps with dedicated louvre (in Mirrorbrite or Satinbrite finish) or prismatic diffuser.

As Thorn Omega 2 T8.

Ordering Guide

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T8 Mirrorbrite louvre			
OMEGA2 4X18W T26 HF DMB L840	3.60	96547240	OM418ZMB
OMEGA2 4X18W T26 HFD DMB L840	3.80	96547241	OM418DMB
OMEGA2 4X18W T26 HFIX DMB L840	3.80	96549341	OM418XMB
OMEGA2 4X18W T26 HF E3 DMB L840	4.80	96547277	OM418ZEMB
OMEGA2 4X18W T26 HFD E3 DMB L840	5.50	96547278	OM418DEMB
OMEGA2 4X18W T26 HFIX E3 DMB L840	5.40	96549351	OM418XEMB
OMEGA2 4X36W T26 HF DMB L840	7.50	96547242	OM436ZMB
OMEGA2 4X36W T26 HFD DMB L840	7.40	96547243	OM436DMB
OMEGA2 4X36W T26 HF E3 DMB L840	6.80	96547279	OM436ZEMB
OMEGA2 4X36W T26 HFD E3 DMB L840	8.10	96547280	OM436DEMB
Omega 2 T8 Satinbrite louvre			
OMEGA2 4X18W T26 HF DSB L840	4.35	96547248	OM418ZSB
OMEGA2 4X18W T26 HFD DSB L840	4.45	96547249	OM418DSB
OMEGA2 4X18W T26 HFIX DSB L840	4.45	96549347	OM418XSB
OMEGA2 4X18W T26 HF E3 DSB L840	4.90	96547284	OM418ZESB
OMEGA2 4X18W T26 HFD E3 DSB L840	5.50	96547285	OM418DES
OMEGA2 4X18W T26 HFIX E3 DSB L840	5.40	96549356	OM418XESB
OMEGA2 4X36W T26 HF DSB L840	7.20	96547250	OM436ZSB
OMEGA2 4X36W T26 HFD DSB L840	7.40	96547251	OM436DSB
OMEGA2 4X36W T26 HF E3 DSB L840	7.80	96547286	OM436ZESB
OMEGA2 4X36W T26 HFD E3 DSB L840	8.10	96547287	OM436DES
Omega 2 T8 Flat blade satinbrite louvre			
OMEGA2 4X18W T26 HF PSB L840	4.40	96547259	OM418ZSBFL
OMEGA2 4X18W T26 HFD PSB L840	3.80	96547260	OM418DSBFL
OMEGA2 4X18W T26 HFIX PSB L840	3.80	96549370	OM418XSBFL
OMEGA2 4X18W T26 HF E3 PSB L840	4.90	96547292	OM418ZESBFL
OMEGA2 4X18W T26 HFD E3 PSB L840	5.50	96547293	OM418DES
OMEGA2 4X18W T26 HFIX E3 PSB L840	5.50	96549360	OM418XESBFL
OMEGA2 4X36W T26 HF PSB L840	7.20	96547261	OM436ZSBFL
OMEGA2 4X36W T26 HFD PSB L840	7.40	96547262	OM436DSBFL
OMEGA2 4X36W T26 HF E3 PSB L840	7.80	96547294	OM436ZESBFL
OMEGA2 4X36W T26 HFD E3 PSB L840	8.10	96547295	OM436DES



Lamps

T8 (FD) G13 18-36W

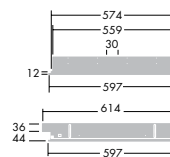
Standards

CE EN 60598 IP20 T_a25 960°C

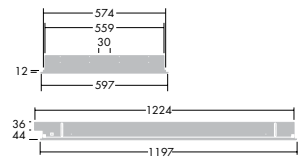
Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T8 Prismatic diffuser			
OMEGA2 4X18W T26 HF EFL PR AC L840	4.20	96547263	OM418ZPRAC
OMEGA2 4X18W T26 HF EFL PR PETG L840	4.30	96547267	OM418ZPRPC
OMEGA2 4X18W T26 HFD EFL PR AC L840	4.40	96547264	OM418DPRAC
OMEGA2 4X18W T26 HFD EFL PR PETG L840	4.40	96547268	OM418DPRPC
OMEGA2 4X18W T26 HFIX EFL PR AC L840	4.40	96549365	OM418XPRAC
OMEGA2 4X18W T26 HFIX EFL PR PETG L840	4.40	96549367	OM418XPRPC
OMEGA2 4X18W T26 HF E3 EFL PR PETG L840	4.80	96547296	OM418ZPRPC
OMEGA2 4X18W T26 HFD E3 EFL PR PETG L840	5.50	96547297	OM418DEPRPC
OMEGA2 4X18W T26 HFIX E3 EFL PR PETG L84	5.50	96549358	OM418XEPRPC
OMEGA2 4X36W T26 HF EFL PR AC L840	7.20	96547265	OM436ZPRAC
OMEGA2 4X36W T26 HF EFL PR PETG L840	7.20	96547269	OM436ZPRPC
OMEGA2 4X36W T26 HFD EFL PR AC L840	7.30	96547266	OM436DPRAC
OMEGA2 4X36W T26 HFD EFL PR PETG L840	7.30	96547270	OM436DPRPC
OMEGA2 4X36W T26 HF E3 EFL PR PETG L840	7.80	96547298	OM436ZPRPC
OMEGA2 4X36W T26 HFD E3 EFL PR PETG L840	8.10	96547299	OM436DEPRPC
Omega 2 T8 Mirrorbrite louvre			
OMEGA2 FAST 4X18 T26 HF IS DMB L840	4.40	96504575	OMF418ZMB
OMEGA2 FAST 4X18 T26 HFD IS DMB L840	4.50	96504576	OMF418DMB
OMEGA2 FAST 4X18 T26 HFIX IS DMB L840	4.85	96549379	OMF418XMB
OMEGA2 FAST 4X18 T26 HF E3 IS DMB L840	5.00	96504617	OMF418ZEMB
OMEGA2 FAST 4X18 T26 HFD E3 IS DMB L840	5.60	96504618	OMF418DEMB
OMEGA2 FAST 4X18 T26 HFIX E3 IS DMB L840	5.90	96549374	OMF418XEMB
OMEGA2 FAST 4X36W T26 HF IS DMB	6.60	96238865	OMF436ZMB
OMEGA2 FAST 4X36W T26 HFD IS DMB	6.80	96238866	OMF436DMB
OMEGA2 FAST 4X36W T26 HF E3 IS DMB	7.20	96238869	OMF436ZEMB
OMEGA2 FAST 4X36W T26 HFD E3 IS DMB	7.50	96238870	OMF436DEMB
Omega 2 T8 Satinbrite louvre			
OMEGA2 FAST 4X18 T26 HF IS DSB L840	4.40	96504589	OMF418ZSB
OMEGA2 FAST 4X18 T26 HFD IS DSB L840	4.50	96504590	OMF418DSB
OMEGA2 FAST 4X18 T26 HFIX IS DSB L840	4.30	96549382	OMF418XSB
OMEGA2 FAST 4X18 T26 HF E3 IS DSB L840	5.00	96504623	OMF418ZESB
OMEGA2 FAST 4X18 T26 HFD E3 IS DSB L840	5.60	96504624	OMF418DESBS
OMEGA2 FAST 4X18 T26 HFIX E3 IS DSB L840	5.90	96549375	OMF418XESB
OMEGA2 FAST 4X36W T26 HF IS DSB L840	6.60	96504593	OMF436ZSB
OMEGA2 FAST 4X36W T26 HFD IS DSB L840	6.80	96504594	OMF436DSB
OMEGA2 FAST 4X36W T26 HF E3 IS DSB L840	7.20	96504625	OMF436ZESB
OMEGA2 FAST 4X36W T26 HFD E3 IS DSB L84	7.50	96504626	OMF436DESBS

Description	Wt (kg)	SAP Code	Cat. No.
Omega 2 T8 Flat blade satinbrite louvre			
OMEGA2 FAST 4X18 T26 HF IS PSB L840	4.40	96504603	OMF418ZSBFL
OMEGA2 FAST 4X18 T26 HFD IS PSB L840	4.50	96504604	OMF418DSBFL
OMEGA2 FAST 4X18 T26 HFIX IS PSB L840	4.70	96549388	OMF418XSBFL
OMEGA2 FAST 4X18 T26 HF E3 IS PSB L840	5.00	96504627	OMF418ZESBFL
OMEGA2 FAST 4X18 T26 HFD E3 IS PSB L840	5.60	96504628	OMF418DESBSFL
OMEGA2 FAST 4X18 T26 HFIX E3 IS PSB L840	5.90	96549377	OMF418XESBSFL
OMEGA2 FAST 4X36W T26 HF IS PSB L840	4.40	96504607	OMF436ZSBFL
OMEGA2 FAST 4X36W T26 HFD IS PSB L840	4.50	96504608	OMF436DSBFL
OMEGA2 FAST 4X36W T26 HF E3 IS PSB L840	5.00	96504629	OMF436ZESBSFL
OMEGA2 FAST 4X36W T26 HFD E3 IS PSB L84	4.50	96504630	OMF436DESBSFL
Omega 2 T8 Accessories			
MINI WEDGE	1.00	96218676	OMMW

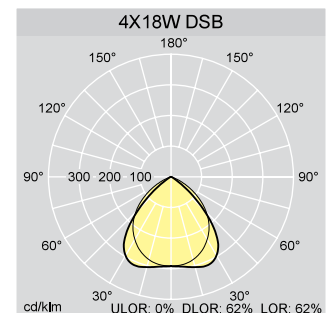
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600x600



600x1200



INDOOR LIGHTING



Wall and Ceiling Decorative Luminaires



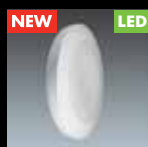
Newton Abbot Hospital, UK



Amazon
186



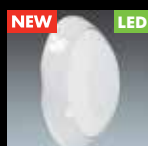
Line XS Wall
203



NEW LED Thames
188



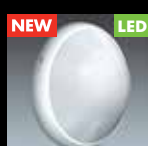
Line XS Wall Uplight
204



NEW LED Danube
190



NEW LED D-CO LED
Wall Recessed
205



NEW LED Loire
192



Cimi
206



Lyric
194



NEW LED Equaline Wall
208



NEW LED Novaline
196



NEW LED Equaline
Freestanding LED
209



NEW LED Club
198



NEW LED Planor Wall
200



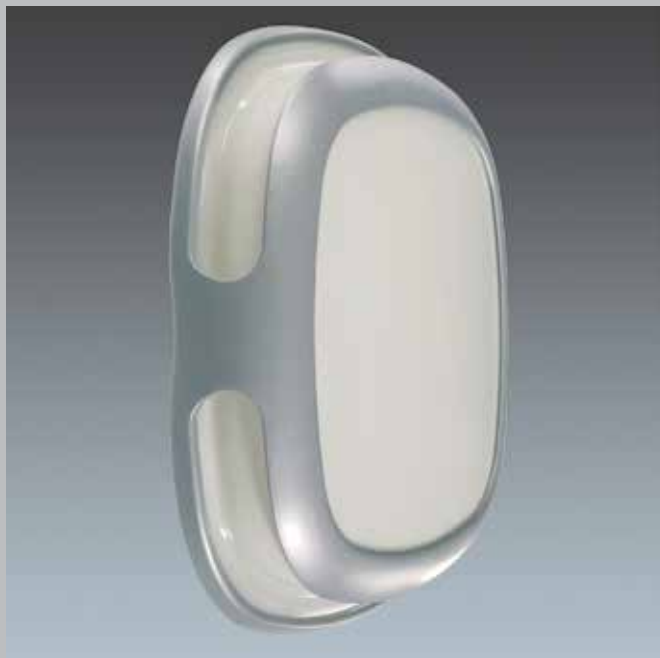
Garbo Wall
201



Garbo Wall Uplight
202



Striking luminaire for wall or ceiling mounting with encircled diffuser for directional halo effect



- Sealed to IP65 with die-cast aluminium body for strength and rigidity
- Available in two sizes, with a circular or square design
- Metallic bezel available in white, silver or anthracite
- Supplied with Quick Fix Bracket for safe and rapid electrical installation

Materials/Finish

Body: die-cast aluminium
 Bezel: die-cast aluminium, silver, anthracite, and white finish
 Diffuser: opal polycarbonate.

Installation/Mounting

Suitable for surface mounting on wall or ceiling for both interior and exterior use. Quick Fix Bracket is screw fixed onto mounting surface by 4 oblong holes (4.5mm x 10mm). Mains connection via 6x2x2.5mm² terminal block. 'Light Box' mechanically and electrically auto-connected to the Quick Fix Bracket. For loop wiring there are two Ø20mm cable entry holes on the Quick Fix Bracket.

Specification

To specify state:

Striking circular or square luminaire for 18/26W TC-DEL, 16/28/38W TC-DDEL compact fluorescent, 40/55W T16-R circular fluorescent lamps with die-cast aluminium 'floating halo' and double ring mounting and twin bridge with opal polycarbonate diffuser mounted to a die-cast aluminium body, with lamp and electronic, electronic dimmable, integral emergency gear connected to Quick Fix Bracket.
 As Thorn Amazon.

Ordering Guide

Supplied complete with Quick Fix Bracket and lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Amazon Round, small			
AM 1X16W TC-DDEL HF RD S ANT	1.50	96226989	AMR116ZA
AM 1X16W TC-DDEL HF RD S SIL	1.50	96226988	AMR116ZS
AM 1X16W TC-DDEL HF RD S WHI	1.50	96226987	AMR116ZW
Amazon Round, large			
AM 1X28W TC-DDEL HF RD L ANT	2.70	96226995	AMR128ZA
AM 1X28W TC-DDEL HF RD L SIL	2.70	96226994	AMR128ZS
AM 1X28W TC-DDEL HF RD L WHI	2.70	96226993	AMR128ZW
AM 1X38W TC-DDEL HF RD L ANT	2.80	96227007	AMR138ZA
AM 1X38W TC-DDEL HF RD L SIL	2.80	96227006	AMR138ZS
AM 1X38W TC-DDEL HF RD L WHI	2.80	96227005	AMR138ZW
AM 1X40W T16-R HF RD L ANT	2.40	96226985	AMR140ZA
AM 1X40W T16-R HF RD L SIL	2.40	96226983	AMR140ZS
AM 1X40W T16-R HF RD L WHI	2.40	96226981	AMR140ZW
AM 1X55W T16-R HF RD L ANT	2.40	96227021	AMR155ZA
AM 1X55W T16-R HF RD L SIL	2.40	96227019	AMR155ZS
AM 1X55W T16-R HF RD L WHI	2.40	96227017	AMR155ZW
AM 2X18W TC-DEL HF RD L ANT	2.90	96226955	AMR218ZA
AM 2X18W TC-DEL HF RD L SIL	2.90	96226953	AMR218ZS
AM 2X18W TC-DEL HF RD L WHI	2.90	96226951	AMR218ZW
AM 2X26W TC-DEL HF RD L ANT	2.90	96226973	AMR226ZA
AM 2X26W TC-DEL HF RD L SIL	2.90	96226971	AMR226ZS
AM 2X26W TC-DEL HF RD L WHI	2.90	96226969	AMR226ZW
Amazon Round, large, dimmable			
AM 1X40W T16-R HFI RD L ANT	2.40	96549062	AMR140DA
AM 1X40W T16-R HFI RD L SIL	2.40	96549061	AMR140DS
AM 1X40W T16-R HFI RD L WHI	2.40	96549060	AMR140DW
AM 1X55W T16-R HFI RD L ANT	2.40	96549065	AMR155DA
AM 1X55W T16-R HFI RD L SIL	2.40	96549064	AMR155DS
AM 1X55W T16-R HFI RD L WHI	2.40	96549063	AMR155DW
AM 2X18W TC-DEL HFI RD L ANT	2.90	96549040	AMR218DA
AM 2X18W TC-DEL HFI RD L SIL	2.90	96549039	AMR218DS
AM 2X18W TC-DEL HFI RD L WHI	2.90	96549038	AMR218DW
AM 2X26W TC-DEL HFI RD L ANT	2.90	96549050	AMR226DA
AM 2X26W TC-DEL HFI RD L SIL	2.90	96549049	AMR226DS
AM 2X26W TC-DEL HFI RD L WHI	2.90	96549048	AMR226DW
Amazon Round, large, emergency			
AM 1X28W TC-DDEL HF E3 RD L ANT	3.40	96227001	AMR128ZEA
AM 1X28W TC-DDEL HF E3 RD L SIL	3.40	96227000	AMR128ZES
AM 1X28W TC-DDEL HF E3 RD L WHI	3.40	96226999	AMR128ZEW
AM 1X38W TC-DDEL HF E3 RD L ANT	3.60	96227013	AMR138ZEA
AM 1X38W TC-DDEL HF E3 RD L SIL	3.60	96227012	AMR138ZES
AM 1X38W TC-DDEL HF E3 RD L WHI	3.60	96227011	AMR138ZEW



Directional halo effect



Round, white



Round, anthracite



Quick fix bracket with spacers



Lamps

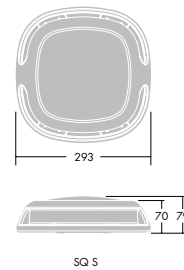
	TC-DDEL (FSS)	GR10q	16-38W
	TC-DEL (FSQ)	G24q-3	18-26W
	T5-R (FSCH)	2GX13	40-55W

Standards

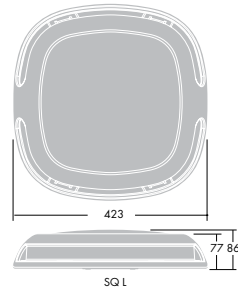
	EN 60598	IP65	IK09	T _a 25	960 °C

Description	Wt (kg)	SAP Code	Cat. No.
Amazon Round, large, emergency			
AM 2X18W TC-DEL HF E3 RD L ANT	3.50	96226965	AMR218ZEA
AM 2X18W TC-DEL HF E3 RD L SIL	3.50	96226964	AMR218ZES
AM 2X18W TC-DEL HF E3 RD L WHI	3.50	96226963	AMR218ZEW
Amazon Square, small			
AM 1X16W TC-DDEL HF SQ S ANT	1.60	96226992	AMS116ZA
AM 1X16W TC-DDEL HF SQ S SIL	1.60	96226991	AMS116ZS
AM 1X16W TC-DDEL HF SQ S WHI	1.60	96226990	AMS116ZW
Amazon Square, large			
AM 1X28W TC-DDEL HF SQ L ANT	2.80	96226998	AMS128ZA
AM 1X28W TC-DDEL HF SQ L SIL	2.80	96226997	AMS128ZS
AM 1X28W TC-DDEL HF SQ L WHI	2.80	96226996	AMS128ZW
AM 1X38W TC-DDEL HF SQ L ANT	3.00	96227010	AMS138ZA
AM 1X38W TC-DDEL HF SQ L SIL	3.00	96227009	AMS138ZS
AM 1X38W TC-DDEL HF SQ L WHI	3.00	96227008	AMS138ZW
AM 2X18W TC-DEL HF SQ L ANT	3.00	96226961	AMS218ZA
AM 2X18W TC-DEL HF SQ L SIL	3.00	96226959	AMS218ZS
AM 2X18W TC-DEL HF SQ L WHI	3.00	96226957	AMS218ZW
AM 2X26W TC-DEL HF SQ L ANT	3.10	96226979	AMS226ZA
AM 2X26W TC-DEL HF SQ L SIL	3.10	96226977	AMS226ZS
AM 2X26W TC-DEL HF SQ L WHI	3.10	96226975	AMS226ZW
Amazon Square, large, dimmable			
AM 2X18W TC-DEL HFI SQ L ANT	3.00	96549045	AMS218DA
AM 2X18W TC-DEL HFI SQ L SIL	3.00	96549044	AMS218DS
AM 2X18W TC-DEL HFI SQ L WHI	3.00	96549036	AMS218DW
AM 2X26W TC-DEL HFI SQ L ANT	3.05	96549055	AMS226DA
AM 2X26W TC-DEL HFI SQ L SIL	3.05	96549054	AMS226DS
AM 2X26W TC-DEL HFI SQ L WHI	3.05	96549058	AMS226DW
Amazon Square, large, emergency			
AM 1X28W TC-DDEL HF E3 SQ L ANT	3.60	96227004	AMS128ZEA
AM 1X28W TC-DDEL HF E3 SQ L SIL	3.60	96227003	AMS128ZES
AM 1X28W TC-DDEL HF E3 SQ L WHI	3.60	96227002	AMS128ZEW
AM 1X38W TC-DDEL HF E3 SQ L ANT	3.70	96227016	AMS138ZEA
AM 1X38W TC-DDEL HF E3 SQ L SIL	3.70	96227015	AMS138ZES
AM 1X38W TC-DDEL HF E3 SQ L WHI	3.70	96227014	AMS138ZEW
AM 2X18W TC-DEL HF E3 SQ L ANT	3.50	96226968	AMS218ZEA
AM 2X18W TC-DEL HF E3 SQ L SIL	3.50	96226967	AMS218ZES
AM 2X18W TC-DEL HF E3 SQ L WHI	3.50	96226966	AMS218ZEW
Amazon Accessories			
BULKHEAD ACCESS IP COVER BOX	2.10	96230683	BHIPCov
BULKHEAD ACCESS KIT FIX IP65	0.20	96227023	BHKITIP65

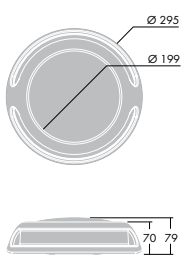
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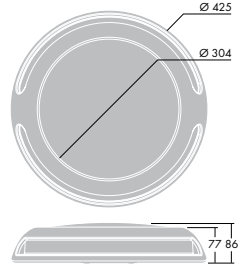
SQ S



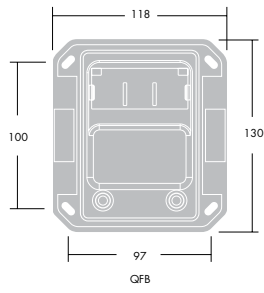
SQ L



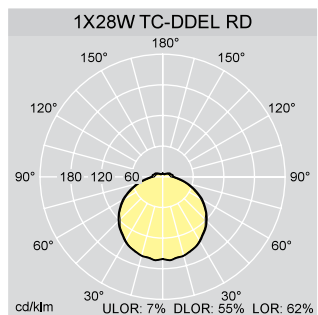
RD S



RD L



QFB



NEW

Thames



www.thornlighting.co.uk/THMS

Elegant luminaire for wall or ceiling mounting with tapered bezel for floating halo effect



- Sealed to IP44 with aluminium base for strength and rigidity
- Metallic bezel available in white, silver or satin chrome
- Supplied with Quick Fix Bracket for safe and rapid electrical installation

Materials/Finish

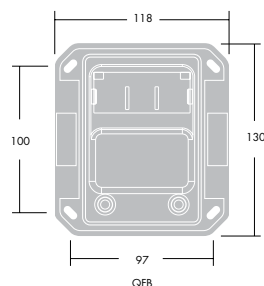
Body: die-cast aluminium
 Bezel: steel, silver, satin chrome and white finish
 Diffuser: opal polycarbonate

Installation/Mounting

Suitable for surface mounting on wall or ceiling for both interior and exterior use. Quick Fix Bracket is screw fixed onto mounting surface by 4 oblong holes (4.5mm x 10mm). Mains connection via 6x2x2.5mm² terminal block. 'Light Box' mechanically and electrically auto-connected to the Quick Fix Bracket. For loop wiring there are two Ø20mm cable entry holes on the Quick Fix Bracket.

Specification

To Specify state:
 Unique and distinctive circular or square luminaire for 1000lm LED, 18/26W TC-DEL, 16/28/38W TC-DDEL compact fluorescent, 40/55W T16-R (T5-C) circular fluorescent with an acute angular steel bezel 'floating halo'. Concave opal polycarbonate diffuser mounted on a die-cast aluminium body, with lamp and High Frequency/ High Frequency Dimmable, integral emergency gear, connected to Quick Fix Bracket. As Thorn Thames.



Ordering Guide

Supplied complete with Quick Fix Bracket and lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Thames LED			
TH 1000 LED HF OP RD SIL L840	2.11	96241417	THR1000ZS
TH 1000 LED HF OP RD WHI L840	2.11	96241364	THR1000ZS
TH 1000 LED HF E3 OP RD SIL L840	2.36	96241418	THR1000ZES
TH 1000 LED HF E3 OP RD WHI L840	2.36	96241365	THR1000ZEW
Thames Round small			
TH 1X16W TC-DDEL HF RD S CHR	1.70	96226881	THR116ZCH
TH 1X16W TC-DDEL HF RD S SIL	1.70	96226880	THR116ZS
TH 1X16W TC-DDEL HF RD S WHI	1.70	96226879	THR116ZW
Thames Square small			
TH 1X16W TC-DDEL HF SQ S CHR	1.75	96226887	THS116ZCH
TH 1X16W TC-DDEL HF SQ S SIL	1.75	96226886	THS116ZS
TH 1X16W TC-DDEL HF SQ S WHI	1.75	96226885	THS116ZW
Thames Round large			
TH 1X28W TC-DDEL HF RD L CHR	2.90	96226893	THR128ZCH
TH 1X28W TC-DDEL HF RD L SIL	2.90	96226892	THR128ZS
TH 1X28W TC-DDEL HF RD L WHI	2.90	96226891	THR128ZW
TH 1X38W TC-DDEL HF RD L CHR	3.05	96226905	THR138ZCH
TH 1X38W TC-DDEL HF RD L SIL	3.05	96226904	THR138ZS
TH 1X38W TC-DDEL HF RD L WHI	3.05	96226903	THR138ZW
TH 1X40W T16-R HF RD L CHR	2.70	96226877	THR140ZCH
TH 1X40W T16-R HF RD L SIL	2.70	96226875	THR140ZS
TH 1X40W T16-R HF RD L WHI	2.70	96226873	THR140ZW
TH 2X18W TC-DEL HF RD L CHR	3.15	96226847	THR218ZCH
TH 2X18W TC-DEL HF RD L SIL	3.15	96226845	THR218ZS
TH 2X18W TC-DEL HF RD L WHI	3.15	96226843	THR218ZW
TH 2X26W TC-DEL HF RD L CHR	3.20	96226865	THR226ZCH
TH 2X26W TC-DEL HF RD L SIL	3.20	96226863	THR226ZS
TH 2X26W TC-DEL HF RD L WHI	3.20	96226861	THR226ZW
Thames Round, large, dimmable			
TH 1X40W T16-R HFI RD L CHR	3.90	96549114	THR140DCH
TH 1X40W T16-R HFI RD L SIL	3.90	96549113	THR140DS
TH 1X40W T16-R HFI RD L WHI	3.90	96549112	THR140DW
TH 2X18W TC-DEL HFI RD L CHR	3.90	96549092	THR218DCH
TH 2X18W TC-DEL HFI RD L SIL	3.90	96549091	THR218DS
TH 2X18W TC-DEL HFI RD L WHI	3.90	96549090	THR218DW
TH 2X26W TC-DEL HFI RD L CHR	3.90	96549102	THR226DCH
TH 2X26W TC-DEL HFI RD L SIL	3.90	96549101	THR226DS
TH 2X26W TC-DEL HFI RD L WHI	3.90	96549100	THR226DW

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NEW

Danube



www.thornlighting.co.uk/DNBE

Stylish luminaire for wall or ceiling mounting with low profile flared bezel and diffuser



- Sealed to IP65.
- Available in two sizes, with a circular or square design
- Supplied with Quick Fix Bracket for safe and rapid electrical installation

Materials/Finish

Body: die-cast aluminium (large versions); injection moulded polycarbonate (small versions).
Diffuser: opal polycarbonate or clear prismatic polycarbonate
Bezel: polycarbonate, white

Installation/Mounting

Suitable for surface mounting on wall or ceiling for both interior and exterior use. Quick Fix Bracket is screw fixed onto mounting surface by 4 oblong holes (4.5mm x 10mm). Mains connection via 6x2x2.5mm² terminal block. 'Light Box' mechanically and electrically auto-connected to the Quick Fix Bracket. For loop wiring there are two Ø20mm cable entry holes on the Quick Fix Bracket.

Specification

To specify state:
Bold and versatile circular or square luminaire for 1200lm LED, 26W TC-DEL, 16/28/38W TC-DDEL compact fluorescent lamps with polycarbonate body, 'flat' opal and prismatic diffuser with attachments in colour mounted on to an injection moulded polycarbonate body with lamp, electronic and integral emergency gear connected to Quick Fix Bracket.
As Thorn Danube.



Round prismatic, white



Quick fix bracket with spacers

Lamps

	LED		12W
	TC-DDEL (FSS)	GR10q	16-38W
	TC-DEL (FSQ)	G24q-3	26W

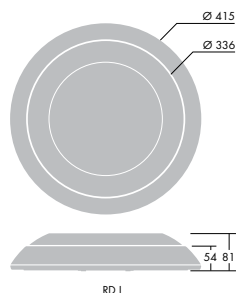
Standards

	EN 60598	IP65	IK07	T _a 25	960°C

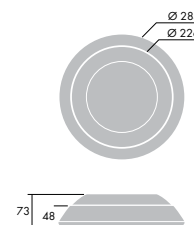
Ordering Guide Supplied complete with Quick Fix Bracket and lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Danube LED			
DA 1200 LED HF OP RD WHI L840	1.57	96241362	DA1200ZOP
DA 1200 LED HF E3 OP RD WHI L840	1.82	96241363	DA1200ZEOP
Danube Round, small, opal diffuser			
DA 1X16W TC-DDEL HF OP RD S WHI	0.95	96219040	DA116ZOP
Danube Round, small, prismatic diffuser			
DA 1X16W TC-DDEL HF PR RD S WHI	0.95	96219064	DA116ZPR
Danube Round, large, opal diffuser			
DA 1X28W TC-DDEL HF OP RD L AL WHI	3.70	96503573	DA128ZOP
DA 1X38W TC-DDEL HF OP RD L AL WHI	3.70	96503589	DA138ZOP
DA 2X26W TC-DEL HF OP RD L AL WHI	2.29	96503549	DA226ZOP
Danube Round, large, opal diffuser, dimmable			
DA 2X26W TC-DEL HFI OP RD L AL WHI	2.50	96549080	DA226DOP
Danube Round, large, opal diffuser - emergency version			
DA 1X28W TC-DDEL HF E3 OP RD L AL WHI	3.70	96503581	DA128ZEOP
DA 1X38W TC-DDEL HF E3 OP RD L AL WHI	3.20	96503597	DA138ZEOP
Danube Round, large, prismatic diffuser			
DA 1X28W TC-DDEL HF PR RD L AL WHI	2.60	96503579	DA128ZPR
DA 1X38W TC-DDEL HF PR RD L AL WHI	2.50	96503595	DA138ZPR
DA 2X26W TC-DEL HF PR RD L AL WHI	2.29	96503555	DA226ZPR
Danube Round, large, prismatic diffuser, dimmable			
DA 2X26W TC-DEL HFI PR RD L AL WHI	2.44	96549082	DA226DPR
Danube Round, large, prismatic diffuser - emergency version			
DA 1X28W TC-DDEL HF E3 PR RD L AL WHI	3.00	96503587	DA128ZEPR
DA 1X38W TC-DDEL HF E3 PR RD L AL WHI	3.00	96503603	DA138ZEPR

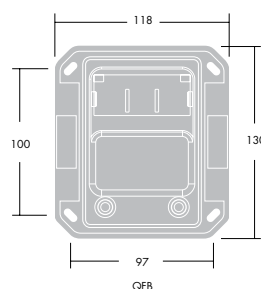
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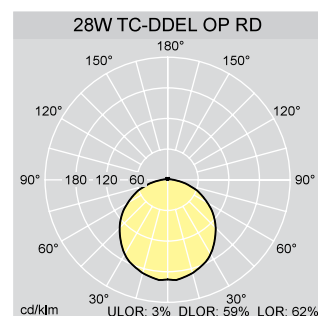
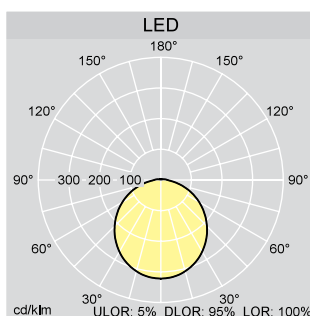
RD L



RD S



QFB



NEW

Loire



www.thornlighting.co.uk/LOIR

Decorative luminaire for wall or ceiling mounting with dome shaped diffuser in glass or polycarbonate



- Sealed to IP65
- Choice of two sizes in a circular design
- Supplied with Quick Fix Bracket for safe and rapid electrical installation

Materials/Finish

Body: die-cast aluminium (large versions) injection moulded polycarbonate (small versions)
Bezel: polycarbonate white finish
Diffuser: opal polycarbonate

Installation/Mounting

Suitable for surface mounting on wall or ceiling for both interior and exterior use. Quick Fix Bracket is screw fixed onto mounting surface by 4 oblong holes (4.5mm x 10mm). Mains connection via 6x2x2.5mm² terminal block. 'Light Box' mechanically and electrically auto-connected to the Quick Fix Bracket. For loop wiring there are two Ø20mm cable entry holes on the Quick Fix Bracket.

Specification

To specify state:
Fresh and contemporary circular luminaire with 1200lm LED or 16/28/38W TC-DDEL compact fluorescent lamps with polycarbonate body and opal diffuser in polycarbonate with electronic gear connected to Quick Fix Bracket.
As Thorn Loire.



Lamps

-  LED 12W
-  TC-DDEL (FSS) GR10q 16-38W

Standards

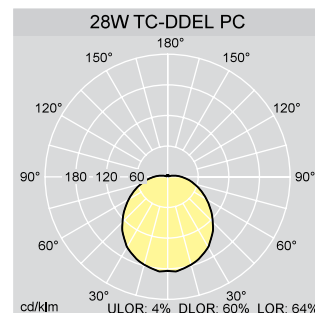
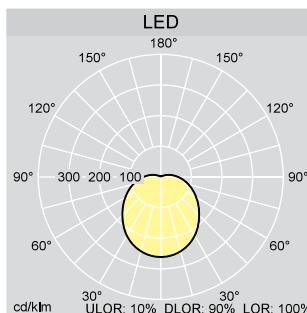
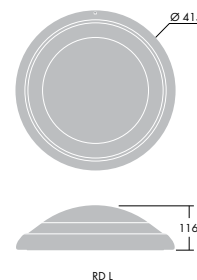
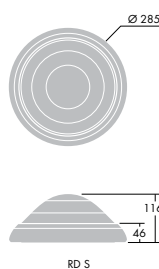
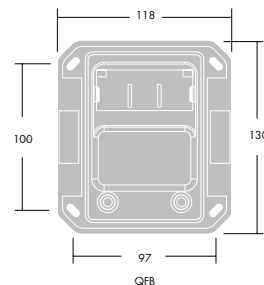
-  EN 60598
-  IP20
-  IP65
-  IK07
-  T₂₅
-  960°C
- 
- 

Ordering Guide

Supplied complete with Quick Fix Bracket and lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Loire LED			
LO 1200 LED HF OP RD WHI L840	1.57	96241358	LO 1200Z
LO 1200 LED HF E3 OP RD WHI L840	1.82	96241359	LO 1200ZE
Loire Luminaires			
LO 1X16W TC-DDEL HF PC S WHI IP65	0.95	96219168	LO 116Z
LO 1X28W TC-DDEL HF PC L AL WHI IP65	2.05	96234220	LO 128Z
LO 1X38W TC-DDEL HF PC L AL WHI IP65	1.80	96234226	LO 138Z
Loire Emergency luminaires			
LO 1X28W TC-DDEL HF E3 PC L AL WHI IP65	2.95	96234224	LO 128ZE
LO 1X38W TC-DDEL HF E3 PC L AL WHI IP65	2.95	96234228	LO 138ZE

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Lyric



www.thornlighting.co.uk/LYRC

Stylish luminaire for wall or ceiling mounting, featuring a 'starburst' base and wide choice of diffusers and bezels



- Unique aluminium 'starburst' base creates bursts of light on the mounting surface
- Numerous interchangeable diffuser and bezel attachments for choice of colour and shape
- Aesthetic appeal both lit and unlit
- Simple twist and lock mechanism from diffuser to base for easy installation and maintenance

Materials/Finish

Body: die-cast aluminium painted white.
Inserts: opal/blue polycarbonate.
Diffuser: textured opal polycarbonate.
Bezel: spun aluminium painted white or silver metallic; chrome version 15% pureclad polished aluminium.

Installation/Mounting

Surface mounting on wall or ceiling for interior use.
Simple installation with central BESA fixing and double cable entry holes to rear.

Specification

To specify state:
Circular wall/ceiling luminaire with die-cast aluminium 'starburst' base and wide bezel in white/silver metallic/chrome with flat, domed or conical opal polycarbonate diffuser, 28W/38W TC-DDEL/2 x 18W TC-L lamps and High Frequency/integral E3 maintained emergency control gear. As Thorn Lyric.

NEW

Novaline



www.thornlighting.co.uk/NOVN

A slim circular luminaire for wall or ceiling mounting, which blends with most architectural styles



- Sleek design with a diffuser that can be removed without tools
- Available in three sizes with white or satin chrome finish
- High power factor 28W and 38W versions
- Sealed to IP40 with aluminium body

Materials/Finish

Body: spun aluminium - white or satin chrome finish.
Diffuser: opal polycarbonate.

Installation/Mounting

Wall or ceiling mounting for interior use. Simple installation with central BESA fixings and rear cable entry. 3-way mains terminal block (4-way for emergency version).

Specification

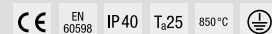
To specify state:
Slim circular wall or ceiling luminaire in white/satin chrome finish with LED 1000lm/2000lm TC-DDEL 16W/28W/38W/55W TC-DEL 3x26W T16-C 40W lamps/HPF or High Frequency control gear and integral E3 maintained emergency gear. As Thorn Novaline.



Lamps

	LED	15-25W
	TC-DDEL (FSS)	GR10q 16-55W
	T5 (FDH)	G5 39W
	TC-DEL (FSQ)	G24q-3 26W
	T5-R (FSCH)	2GX13 40W

Standards



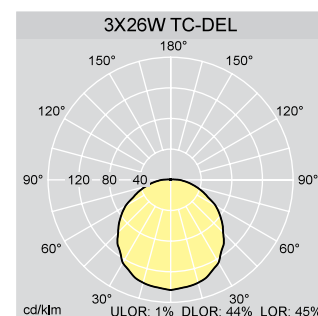
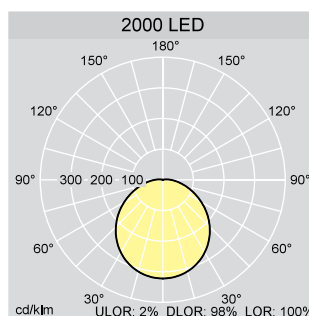
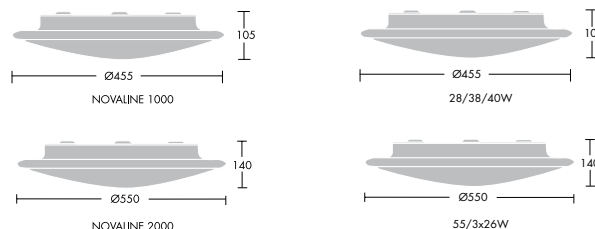
Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Novaline LED			
NOVALINE 1000 LED HF OP RD CHR L840	2.00	96241325	NV1000ZCH
NOVALINE 1000 LED HF OP RD WHI L840	2.00	96240705	NV1000ZW
NOVALINE 1000 LED HF MWS OP RD CHR L840	2.10	96241326	NV1000ZSCH
NOVALINE 1000 LED HF MWS OP RD WHI L840	2.10	96240706	NV1000ZSW
NOVALINE 1000 LED HF E3 OP RD CHR L840	2.30	96241327	NV1000ZSECH
NOVALINE 1000 LED HF E3 OP RD WHI L	2.30	96240707	NV1000ZEW
NOVALINE 1000 LED HF MWS E3 OP RD CHR L8	2.40	96241328	NV1000ZSECH
NOVALINE 1000 LED HF MWS E3 OP RD WHI L8	2.40	96240708	NV1000ZSEW
NOVALINE 2000 LED HF OP RD CHR L840	3.00	96241321	NV2000ZCH
NOVALINE 2000 LED HF OP RD WHI L840	3.00	96241217	NV2000ZW
NOVALINE 2000 LED HF MWS OP RD CHR L840	3.10	96241322	NV2000ZSCH
NOVALINE 2000 LED HF MWS OP RD WHI L840	3.10	96241218	NV2000ZSW
NOVALINE 2000 LED HF E3 OP RD CHR L840	3.30	96241323	NV2000ZSECH
NOVALINE 2000 LED HF E3 OP RD WHI L840	3.30	96241219	NV2000ZSEW
NOVALINE 2000 LED HF E3 MWS OP RD CHR L8	3.40	96241324	NV2000ZSECH
NOVALINE 2000 LED HF E3 MWS OP RD WHI L8	3.40	96241220	NV2000ZSEW
Novaline White body, high frequency			
NOVALINE 1X16W TC-DDEL HF WHI L840	1.20	96536003	NV116ZW
NOVALINE 1X28W TC-DDEL HF WHI L840	2.10	96230553	NV128ZW
NOVALINE 1X38W TC-DDEL HF WHI L840	3.30	96233719	NV138ZW
NOVALINE 1X40W T16-R HF WHI L840	3.30	96234782	NV140ZW
NOVALINE 1X55W TC-DDEL HF WHI L840	3.80	96234781	NV155ZW
NOVALINE 3X26W TC-DEL HF WHI L840	3.80	96233725	NV326ZW
Novaline White body, high frequency, emergency			
NOVALINE 1X28W TC-DDEL HF E3 WHI L840	2.20	96230554	NV128ZEW
NOVALINE 1X38W TC-DDEL HF E3 WHI L840	3.30	96233720	NV138ZEW
NOVALINE 1X40W T16-R HF E3 WHI L840	3.30	96536005	NV140ZEW
NOVALINE 1X55W TC-DDEL HF E3 WHI L840	3.76	96234783	NV155ZEW
NOVALINE 3X26W TC-DEL HF E3 WHI L840	3.76	96233726	NV326ZEW
Novaline Chrome body, high frequency			
NOVALINE 1X28W TC-DDEL HF CHR L840	2.09	96233714	NV128ZCH
NOVALINE 1X38W TC-DDEL HF CHR L840	3.30	96233717	NV138ZCH
NOVALINE 1X40W T5C HF CHR L840	3.32	96234786	NV140ZCH
NOVALINE 1X55W TC-DDEL HF CHR L840	3.76	96233723	NV155ZCH
NOVALINE 3X26W TC-DEL HF CHR L840	3.76	96233727	NV326ZCH

Description	Wt (kg)	SAP Code	Cat. No.
Novaline Chrome body, high frequency, emergency			
NOVALINE 1X28W TC-DDEL HF E3 CHR L840	2.09	96233715	NV128ZCH
NOVALINE 1X38W TC-DDEL HF E3 CHR L840	3.30	96233718	NV138ZCH
NOVALINE 1X40W T5C HF E3 CHR L840	3.30	96536006	NV140ZCH
NOVALINE 1X55W TC-DDEL HF E3 CHR L840	3.76	96233724	NV155ZCH
NOVALINE 3X26W TC-DEL HF E3 CHR L840	3.76	96233728	NV326ZCH
Novaline Accessory			
NVLORK SEMI-RECESSING KIT	1.16	96014873	NVSRKIT

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NEW

Club



www.thornlighting.co.uk/CLUB

Stylish, tough wall or ceiling mounted luminaire with the emphasis on its slim section



- Sealed to IP54
- Available in two sizes, with a choice of bezel colours, complemented by an opal diffuser
- Integral 28W 3hr maintained emergency option
- LED version with sensor and emergency lighting options

Materials/Finish

Body and trim: injection moulded polycarbonate.
Diffuser: opal polycarbonate.
Body and trim colours: white body with white, black, brass or polished chrome trim.

Installation/Mounting

Suitable for surface mounting. Rear BESA mounting provision with cable entry into 3 way terminal block suitable to accept 2x2.5mm².

Specification

To specify state:
Standard/Emergency circular surface luminaire with polycarbonate body and trim in white/black/brass/polished chrome. Polycarbonate opal diffuser and integral control gear for LED, 16/28/38W TC-DD, 28/38W TC-DDEL compact fluorescent lamps. As Thorn Club.



Lamps

	LED	15W
	TC-DDEL (FSS)	GR10q 28-38W
	TC-DD (FSS)	GR8 16-28W

Standards

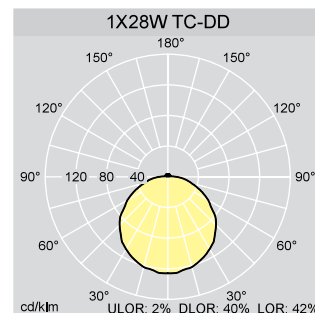
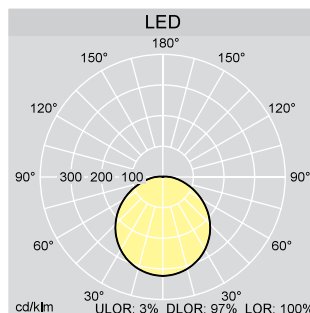
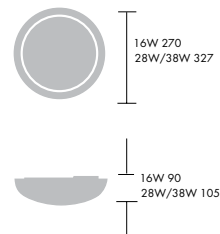
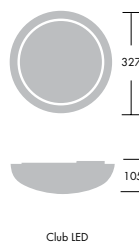
850 °C				

Ordering Guide

Supplied complete with lamp/LED.

Description	Wt (kg)	SAP Code	Cat. No.
Club LED			
CLUB 950 LED OP RD CHR L840	1.60	96241116	CL950ZCH
CLUB 950 LED OP RD WHI L840	1.60	96240359	CL950ZW
CLUB 950 LED MWS OP RD CHR L840	1.60	96241117	CL950ZSCH
CLUB 950 LED MWS OPRD WHI L840	1.60	96240360	CL950ZSW
CLUB 950 LED E3 OP RD CHR L840	1.90	96241118	CL950ZECH
CLUB 950 LED E3 OP RD WHI L840	1.90	96240361	CL950ZEWH
CLUB 950 LED MWS E3 OP RD CHR L840	1.90	96241119	CL950ZSECH
CLUB 950 LED MWS E3 OP RD WHI L840	1.90	96240362	CL950ZSEWH
Club Luminaires			
CLUB 1X16W TC-DD CP S BLK L835	1.30	96536134	CL116SB
CLUB 1X16W TC-DD CP S BR L830	1.20	96230456	CL116SBR
CLUB 1X16W TC-DD CP S CHR L830	1.30	96200454	CL116SCH
CLUB 1X16W TC-DD CP S WHI L835	1.31	96536135	CL116SW
CLUB 1X28W TC-DD HF L CH L840	1.75	96536132	CL128ZCH
CLUB 1X28W TC-DD HF L WHI L840	1.50	96230466	CL128ZW
CLUB 1X28W TC-DDEL CP L BLK L840 MK12	2.17	96536133	CL128SB
CLUB 1X28W TC-DDEL CP L BR L840 MK12	1.70	96233785	CL128SBR
CLUB 1X28W TC-DDEL CP L CHR L840 MK12	1.70	96233786	CL128SCH
CLUB 1X28W TC-DDEL CP L WHI L840 MK12	1.70	96233788	CL128SW
CLUB 1X38W TC-DD HF L WHI L840	1.50	96230468	CL138ZW
CLUB 1X38W TC-DD CP L BLK L840	2.46	96228534	CL138SB
CLUB 1X38W TC-DD CP L WHI L840	2.00	96230467	CL138SW
Club Emergency Luminaires			
CLUB 1X28W TC-DD CP E3 L WHI L840	2.70	96230461	CL128SEWH

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NEW

Planor Wall



www.thornlighting.co.uk/PLNW

Sleek wall mounted luminaire with PrismTech optic for diffuse up/downlight complements the Planor range



Lamps

	LED	32W
	T5 (FDH)	G5 24W

Standards



- Side reflectors and downlight window give asymmetric forward pointing uplight
- Wall bracket mounting horizontal adjustment and lock with one screw
- Easy installation and maintenance (no tools needed)

Materials/Finish

Frame: Aluminium powder coated silver (RAL 9006/9007).
 Wall console: Aluminium anodised in natural colour.
 Wall brackets: Extruded aluminium.
 Refractor and controllers: Clear prismatic metalised polycarbonate.
 Top cover: Clear polycarbonate.

Installation/Mounting

3 way terminal block for 3 x 2.5mm² cable (HF version) and 5 way terminal block for 5 x 2.5mm² (HFI version). Wall bracket mounting. Horizontal adjustment and lock with one screw. Accessories: Decorative backplate option for mounting above concealed connection box recessed in wall.

Specification

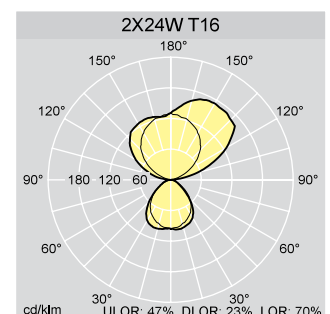
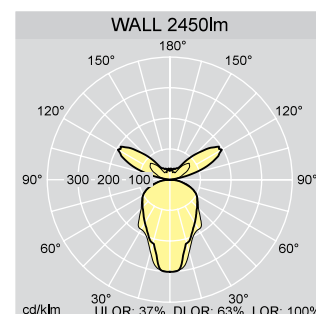
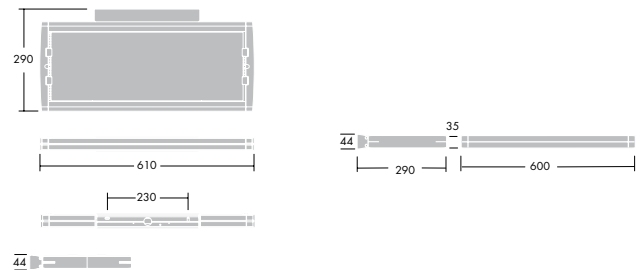
To specify state:
 Wall mounted ultra slim luminaire for LED or T16 (T5) lamp with aluminium frame and prism-control lighting system. As Thorn Planor Wall.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Planor Wall			
PLANOR WALL 2X24W T16 HF L840	3.50	96547713	PNW224Z
PLANOR WALL 2X24W T16 HFI SIL L840	3.50	96550465	PNW224D
Planor LED Wall			
PLANOR WALL LED 2450 HF L840	3.20	96220866	PNW2450Z
Planor Wall Accessories			
PLANOR W MOUNTING PLATE SIL	0.15	96100564	PNWMP5

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Garbo Wall



www.thornlighting.co.uk/GARW

A discreet profile blends in with the environment to create a calm, mellow light



Lamps

TC-L (FSD) 2G11 18-24W

Standards



- Classic retro look
- Classic half-tube diffuser in satin polycarbonate
- Optional decorative back plate in grey or white
- Easy installation

Materials/Finish

Diffuser: satin polycarbonate.
Housing: sheet steel
Fixings: brushed stainless steel.

Installation/Mounting

Suitable for wall mounting using two fixings. Vertical distance between mounting fixings is 250mm. Piano key 3 x 1.5mm². Looping possible.

Specification

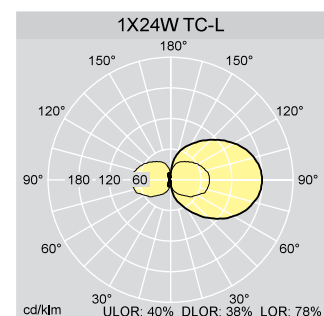
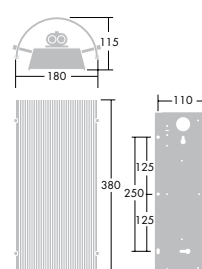
To specify state:
Mellow light wall luminaire for 18-24W TC-L compact fluorescent lamps, with soft tubular shape and brushed stainless steel fixings.
As Thorn Garbo Wall.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Garbo Wall			
GARBO WALL 18W TC-L HF L840	1.60	96547690	GBW118Z
GARBO WALL 18W TC-L HFI L840	1.70	96550441	GBW118D
GARBO WALL 24W TC-L HFI L840	1.70	96550442	GBW124D
Attachments			
GARBO WALL BACK PLATE SIL	0.60	96202820	GBWBPS
GARBO WALL BACK PLATE WHI	0.60	96202816	GBWBPW

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Garbo Wall Uplight



www.thornlighting.co.uk/GARU

Stylish metal halide wall uplight with semi-cylindrical satin diffuser, which complements the rest of the Garbo range



Lamps

(MT) PGX 70-150W

Standards

IP20 850°C

- Classic retro look
- Soft light
- Supplied complete with lamp
- Easy installation

Materials/Finish

Diffuser: satin PC.
Housing: sheet steel in matt silver
Fixings: brushed stainless steel.

Installation/Mounting

Suitable for wall mounting using two fixings (not included). Horizontal distance between mounting fixings is 117mm. The wall uplight luminaire is delivered with lamps. Piano key 3 x 1.5mm². Looping possible.

Specification

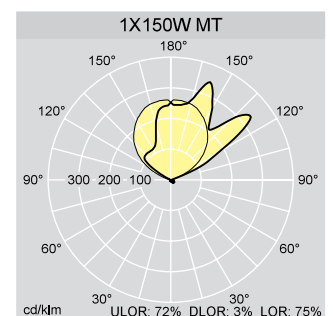
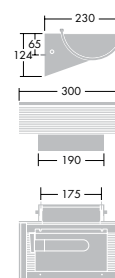
To specify state:
Attractive wall uplight for 70-150W mastercolour lamps, with soft tubular shape and brushed stainless steel fixings. As Thorn Garbo Wall Uplight.

Ordering Guide

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Garbo Wall Uplight			
GARBO WALL UP 70W MT L830	3.90	96202818	GBWUP170
GARBO WALL UP 150W MT L830	3.90	96202817	GBWUP1150

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Line XS Wall



www.thornlighting.co.uk/LIXW

A series of ultra slim, oval shaped T16 (T5) luminaires for wall mounting, complements the range of Line XS products



Lamps

T5 (FDH) G5 14-24W

Standards



- Perforated side with a choice of blue or opal colour insert
- Excellent performance with high LOR
- Ultra slim body, only 68mm deep
- Provides accent lighting to coordinate with the Line XS suspended family

Materials/Finish

Body and end caps: Steel, powder coated white or textured grey.
Diffuser: Acrylic.

Installation/Mounting

Electrical connection: 3 x 2.5mm² piano key terminal block.

Specification

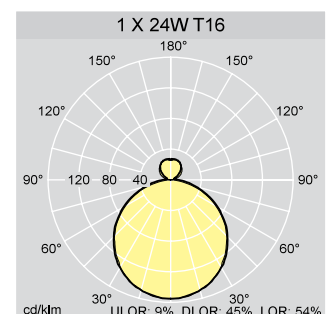
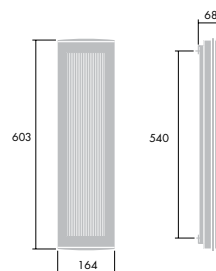
To specify state:
Ultra slim, oval shaped, wall mounted T16 luminaire, in white or textured grey, with HF control gear and blue/opal edging.
As Thorn Line XS Wall.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Line XS Wall, grey			
LINE XS WALL 1X14W GRY PF/BLU L840	1.50	96547770	LIW114ZOPGBL
LINE XS WALL 1X14W GRY PF/OP L840	1.50	96547771	LIW114ZOPGOP
LINE XS WALL 1X24W GRY PF/BLU L840	1.50	96547774	LIW124ZOPGBL
LINE XS WALL 1X24W GRY PF/OP L840	1.50	96547775	LIW124ZOPGOP
Line XS Wall, white			
LINE XS WALL 1X14W WHI PF/BLU L840	1.50	96547772	LIW114ZOPWBL
LINE XS WALL 1X14W WHI PF/OP L840	1.50	96547773	LIW114ZOPWOP
LINE XS WALL 1X24W WHI PF/BLU L840	1.50	96547776	LIW124ZOPWBL
LINE XS WALL 1X24W WHI PF/OP L840	1.50	96547777	LIW124ZOPWOP

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INDOOR LIGHTING

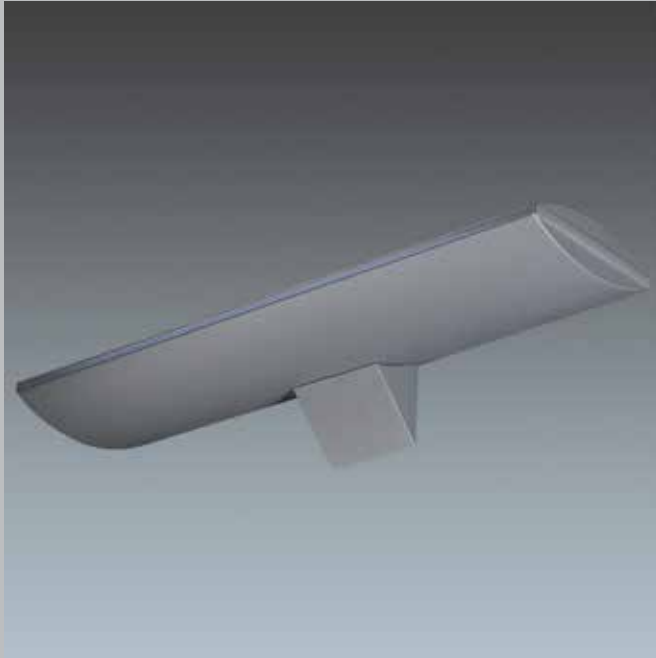
WALL AND CEILING DECORATIVE LUMINAIRES

Line XS Wall Uplight



www.thornlighting.co.uk/LIXU

A series of ultra slim, oval shaped uplights for wall mounting, complements the range of Line XS products



Lamps

TC-L (FSD) 2G11 36W

Standards



- Perforated side with a choice of blue or opal colour insert
- Excellent performance with high LOR
- Asymmetric light distribution results in low luminance on the wall with maximum light in the room

Materials/Finish

Body: powder coated steel, textured grey or matt white finish
Bracket: steel
End caps: powder coated steel, textured grey or matt white finish

Installation/Mounting

Suitable for mounting directly on to wall, two keyholes c/c 80mm, cable entry in the centre. Electrical connection via 3x2x2.5mm² piano key terminal block.

Specification

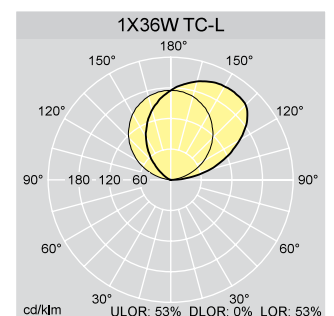
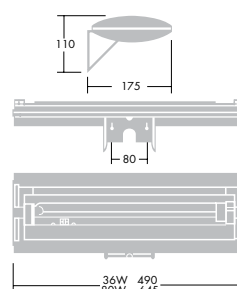
To specify state:
Slim wall uplight luminaire with perforated sides for 36/80W TC-L compact fluorescent lamp.
As Thorn Line XS Wall Uplight.

Ordering Guide

Supplied complete with lamp

Description	Wt (kg)	SAP Code	Cat. No.
Line XS Wall Uplight			
LINE XS WALL UPLGT 1X36 HF PF GR/OP L840	1.90	96547778	LIWU136ZOPGOP
LINE XS WALL UPLIGHT 1X36W PF GR/BL L840	1.90	96547780	LIWU136ZOPGBL
Line XS Wall Uplight, white			
LINE XS WALL UPLGT 1X36 HF PF WH/OP L840	1.90	96547779	LIWU136ZOPWOP
LINE XS WALL UPLIGHT 1X36W PF WH/BL L840	1.90	96547781	LIWU136ZOPWBL

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D-CO LED

Wall recessed



www.thornlighting.co.uk/DCOW

A range of high quality recessed LED wall washer products for Low level mounting.



Lamps

LED 1.6W

Standards



- Hidden light source gives glare-free light
- Asymmetric reflector casts an even wash of light onto the floor
- Comes pre-wired with cable tail for use with remote 24V DC converter
- Available in warm white (3000K) or cold white (6500K) options

Materials/Finish

Housing: aluminium, painted titan-grey
Cables: halogen free

Installation/Mounting

Fixed into wall with a flexible spring
Electrical connection by plug and socket for easy and quick installation

Specification

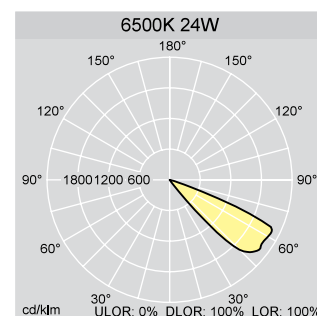
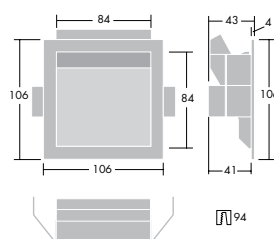
To specify state:
Square wall recessed guidance luminaire with 1.6W LED light source.
As Thorn D-CO LED

Ordering Guide

Supplied complete with LED light source

Description	Wt (kg)	SAP Code	Cat. No.
Wall recessed			
D-CO LED WALL ASYM 1,6W 3K 24V	0.10	96107419	DCW1224VAS3K
D-CO LED WALL ASYM 1,6W 6.5K 24V	0.10	96107420	DCW1224VAS6.5K
Accessories			
D-CO LED WALL CONCRETE MTG BOX	0.60	96107421	DCWCONMTG
D-CO LED WALL CONCRETE MTG BOX DEEP	0.80	96107422	DCWBD
LED CONV 0025 K210 24V ONE4ALL	0.16	86455937	DCDRW25DIM
LED CONV 10W 230V DC24V THO	0.05	96108127	DCDR1024V
LED CONV 25W DC24V	0.15	96107645	DCDRW25

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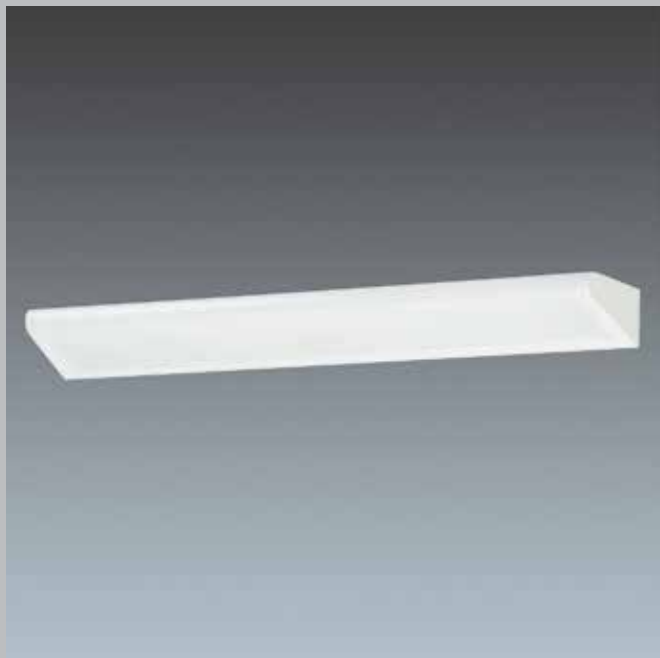


Cimi



www.thornlighting.co.uk/CIMI

Slim and aesthetically pleasing bathroom luminaire developed to comply with today's contemporary demands on design and technology



- Uniform, glare free illumination of the face, without disturbing reflections, when mounted above a mirror
- Installation is simplified with two screws and a choice of cable entry

Materials/Finish

Body: extruded aluminium, white finish.

Diffuser: opal polycarbonate.

Endcaps: die-cast aluminium, white finish.

Installation/Mounting

Suitable for surface mounting. Two $\varnothing 19$ mm cable entries, offset in the back of the housing, $\varnothing 12$ mm knock out holes in endcaps as well as top edges of luminaire for surface installation. Piano key terminal block for $4 \times 2 \times 2.5$ mm².

Specification

To specify state:

Slim bathroom luminaire for 14-35W T16 (T5) linear fluorescent lamps with glare free light distribution.

As Thorn Cimi.



Lamps

T5 (FDH) G5 14-35W

Standards

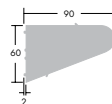
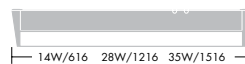


Ordering Guide

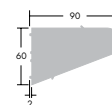
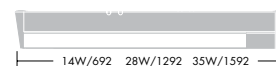
Supplied complete with lamp

Description	Wt (kg)	SAP Code	Cat. No.
HF versions			
CIMI 1X14W HF WHI L840	1.30	96547485	CM114Z
CIMI 1X28W HF WHI L840	1.90	96547482	CM128Z
CIMI 1X35W HF WHI L840	2.20	96547479	CM135Z
HF PIR versions			
CIMI 1X14W HF SLDP WHI L840	1.30	96547486	CM114ZS
CIMI 1X28W HF SLDP WHI L840	1.90	96547483	CM128ZS
CIMI 1X35W HF SLDP WHI L840	2.20	96547480	CM135ZS

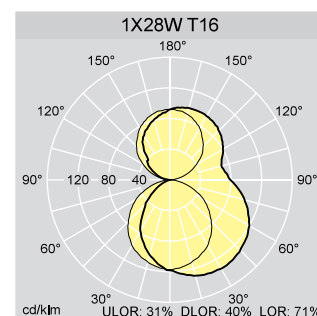
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HF



HF PIR



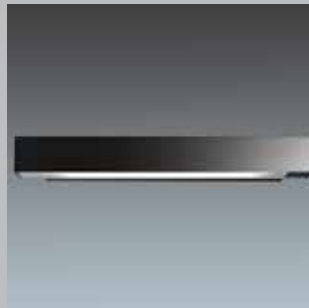
NEW

Equaline Wall



www.thornlighting.co.uk/EQUW

Simple and pure design, now in wall design



Lamps

T5 (FDH)	G5	24W
LED		16.4W

Standards



- Fitted with an opal diffuser optic for a pleasing direct/indirect lighting effect
- Available with dimming to reduce energy consumption
- Part of a complete family with surface and suspended linear, wall and freestanding versions available for a modern, coordinated aesthetic

Materials/Finish

Body: extruded anodised aluminium.
End caps: die-cast aluminium, powder coated silver-grey (close to RAL 7046)
Wall brackets: bent sheet metal, powder coated grey.
Diffuser: opal acrylic

Installation/Mounting

Bracket is fixed to the wall with 2 screws and luminaire is then screwed to the bracket. Lamp not included.

Specification

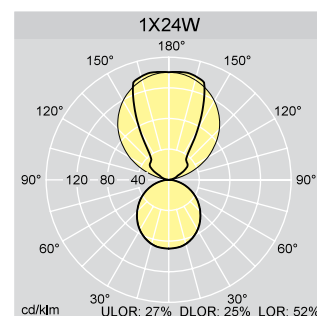
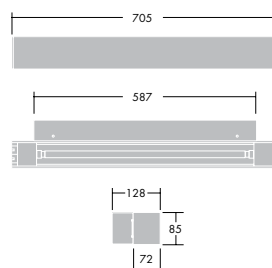
To specify state:
Slim aluminium profile wall mounted T16/LED luminaire with opal diffuser optic. As Thorn Equaline Wall.

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Wall			
EQUALINE-W 1X24W HF OP	3.00	96241422	EQW124ZOP
EQUALINE-W 1X24W HFI OP	3.00	96241471	EQW124DOP
Equaline LED Wall			
EQUALINE-W LED 1600 HFI OP	3.30	96241574	EQW1600DOP

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NEW

Equaline

Freestanding



www.thornlighting.co.uk/EQUF

Simple and pure design, now in freestanding design



Lamps

LED 69.2W

Standards



- Provides light personalisation and flexibility, with an indirect component for ambient light
- MicroPrism diffuser optics
- Available with dimming to reduce energy consumption
- Part of a complete family with surface and suspended linear, wall and freestanding versions available for a modern, coordinated aesthetic

Materials/Finish

Head: extruded anodised aluminium
 End caps and base: die-cast aluminium, powder coated silver-grey (close to RAL 7046)
 Diffuser: MPT acrylic

Installation/Mounting

Supplied in three parts for self-assembly: base, stand and head.

Specification

To specify state:
 Slim aluminium profile free floor-standing LED luminaire with MicroPrism diffuser optics in dimmable or Senza versions.
 As Thorn Equaline LED Freestanding.

Ordering Guide

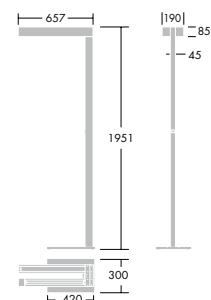
Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Equaline Freestanding			
EQUALINE-FS LED 5000 HFS MPT SR2	12.40	96241573	EQFS5000DSMP
EQUALINE-FS LED 5000 SWD MPT SR2	12.60	96241572	EQFS5000SWMP

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INDOOR LIGHTING

WALL-AND CEILING DECORATIVE LUMINAIRES



INDOOR LIGHTING



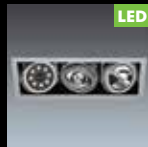
Spotlights and Track



NEW LED
Prospector LED
212



LED
D-CO LED Spotlights
214



LED
Tidon
216



Graffiti S
218



Graffiti M
220



Graffiti L
222



SuperTrack 2
224

Plassen Molde (Leisure Centre), Norway

NEW

Prospector LED



www.thornlighting.co.uk/PRSP

The New Prospector LED family of LED spotlights has clean, contemporary lines with the same look and feel across all products in the range



- Simple installation via 3 or 5 circuit adaptor
- Available in 24° and 40° beam angles and a wide range of lumen packages
- Excellent CRI - available up to Ra90
- Dimming variants offer additional energy efficiencies

Materials/Finish

Body: Aluminium. Gearbox: sheet steel. Heatsink: aluminium. Reflector: anodized aluminium. White RAL 9010.

Installation/Mounting

For installation on suspended or ceiling surface mounted lighting track system. Prospector M LED available in direct surface mounted versions. Compatible with Thorn Supertrack and new Thorn Trunking range.

Specification

To specify state:
Prospector M:- High quality LED spotlight suitable for 3 or 5 circuit track/direct mount with optional dimmable versions. Die cast aluminium body with integral design heatsink. White colour, round and cuboid design options. All design options available with both CCT 3000 or 4000, HF and HFI dimmable versions with CRI performance options of Ra83 and Ra90. Beam angle 24° or 40°. As Thorn Prospector M LED

Prospector S:- High quality LED spotlight suitable for 3 circuit track mount. Die cast aluminium body with exposed heatsink design. White colour, round and cuboid design options. All design options available with both CCT 3000 or 4000 with CRI performance options of Ra83 and Ra90. Beam angle 24° or 40°. As Thorn Prospector S LED

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Prospector S LED - Round track mount versions			
PRSPCTR S LED 2500 24° MT3 RD L830	1.30	96551700	PSSTR2500FL3K
PRSPCTR S LED 2500 40° MT3 RD L830	1.30	96551701	PSSTR2500M3K
PRSPCTR S LED 2700 24° MT3 RD L840	1.30	96551702	PSSTR2700FL4K
PRSPCTR S LED 2700 40° MT3 RD L840	1.30	96551703	PSSTR2700M4K
Prospector S LED - Cube track mount versions			
PRSPCTR S LED 2500 24° MT3 SQ L830	2.30	96551704	PSSTS2500FL3K
PRSPCTR S LED 2500 40° MT3 SQ L830	2.30	96551705	PSSTS2500M3K
PRSPCTR S LED 2700 24° MT3 SQ L840	2.30	96551706	PSSTS2700FL4K
PRSPCTR S LED 2700 40° MT3 SQ L840	2.30	96551707	PSSTS2700M4K
Prospector S LED - Colour filters			
PRSPCTR S LED RD FILTER RED		96551732	PSSRFIL
PRSPCTR S LED GN FILTER GREEN		96551733	PSSGFIL
PRSPCTR S LED BU FILTER BLUE		96551734	PSSBFIL



Prospector S - Round track mounted



Prospector M and S - Cube track mounted



Prospector M - Round track mounted



Prospector M - Round surface mounted



Lamps

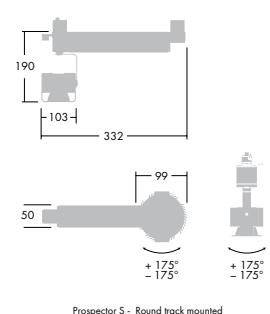
LED 31-53W

Standards

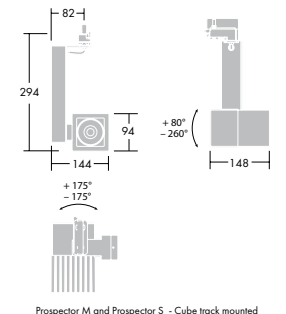
CE EN 60598 EN 60598-2-22 EN 55015 IP20 IK02
T_a35

Description	Wt (kg)	SAP Code	Cat. No.
Prospector M LED - Round track mount versions			
PRSPCTR M LED 4000 24° MT3 RD L830	2.30	96551708	PSMTR4000FL3K
PRSPCTR M LED 4000 40° MT3 RD L830	2.30	96551709	PSMTR4000M3K
PRSPCTR M LED 4300 24° MT3 RD L840	2.30	96551710	PSMTR4300FL4K
PRSPCTR M LED 4300 40° MT3 RD L840	2.30	96551711	PSMTR4300M4K
PRSPCTR M LED 3800 HFI 24° MT5 RD L830	2.30	96551720	PSMTR3800DFL3K
PRSPCTR M LED 3800 HFI 40° MT5 RD L830	2.30	96551721	PSMTR3800DM3K
PRSPCTR M LED 4100 HFI 24° MT5 RD L840	2.30	96551722	PSMTR4100DFL4K
PRSPCTR M LED 4100 HFI 40° MT5 RD L840	2.30	96551723	PSMTR4100DM4K
Prospector M LED - Cube track mount versions			
PRSPCTR M LED 4000 24° MT3 SQ L830	2.30	96551712	PSMTR4000FL3K
PRSPCTR M LED 4000 40° MT3 SQ L830	2.30	96551713	PSMTR4000M3K
PRSPCTR M LED 4300 24° MT3 SQ L840	2.30	96551714	PSMTR4300FL4K
PRSPCTR M LED 4300 40° MT3 SQ L840	2.30	96551715	PSMTR4300M4K
PRSPCTR M LED 3300 HFI 24° MT5 SQ L830	2.30	96551724	PSMTR3300DFL3K
PRSPCTR M LED 3300 HFI 40° MT5 SQ L830	2.30	96551725	PSMTR3300DM3K
PRSPCTR M LED 3500 HFI 24° MT5 SQ L840	2.30	96551726	PSMTR3500DFL4K
PRSPCTR M LED 3500 HFI 40° MT5 SQ L840	2.30	96551727	PSMTR3500DM4K
Prospector M LED - Round surface mount versions			
PRSPCTR M LED 4000 24° MSF RD L830	1.90	96551716	PSMSR4000FL3K
PRSPCTR M LED 4000 40° MSF RD L830	1.90	96551717	PSMSR4000M3K
PRSPCTR M LED 4300 24° MSF RD L840	1.90	96551718	PSMSR4300FL4K
PRSPCTR M LED 4300 40° MSF RD L840	1.90	96551719	PSMSR4300M4K
PRSPCTR M LED 3300 HFI 24° MSF RD L830	1.90	96551728	PSMSR3300DFL3K
PRSPCTR M LED 3300 HFI 40° MSF RD L830	1.90	96551729	PSMSR3300DM3K
PRSPCTR M LED 3500 HFI 24° MSF RD L840	1.90	96551730	PSMSR3500DFL4K
PRSPCTR M LED 3500 HFI 40° MSF RD L840	1.90	96551731	PSMSR3500DM4K
Prospector M LED - Colour filters			
PRSPCTR M LED RD FILTER RED		96551735	PSMRFIL
PRSPCTR M LED GN FILTER GREEN		96551736	PSMGFIL
PRSPCTR M LED BU FILTER BLUE		96551737	PSMBFIL

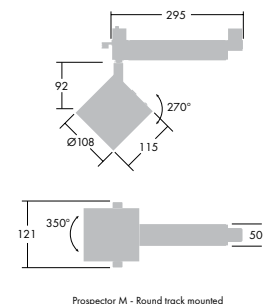
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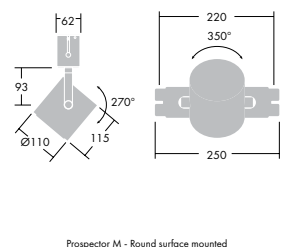
Prospector S - Round track mounted



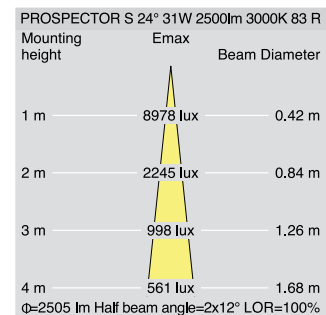
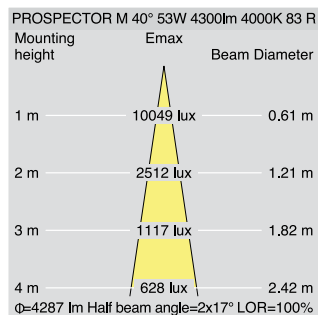
Prospector M and Prospector S - Cube track mounted



Prospector M - Round track mounted



Prospector M - Round surface mounted



D-CO LED Spotlights



www.thornlighting.co.uk/DCSP

Family of distinctive spot lights for accent lighting or hotel and residential applications.



- Miniature spotlight with short arm (rotates 355° and can be tilted through 80°)
- Spotlight kits available consisting of 4 spots, individually pre-wired with connector cables and single converter (pre-wired with cable into central connector block)
- Flexible arm version available with integral or remote gear for more inconspicuous integration
- Both versions are available in two different colour temperatures (3000/4000k) with a 20° beam diameter

Materials/Finish

Housing: die cast aluminium, painted titan-grey close to RAL 9007
Cables: halogen free

Installation/Mounting

Fixed to surface using mounting bar and Philips head screw
Electrical connection by plug and socket for easy and quick installation

Specification

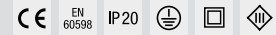
To specify state:
Surface mounted miniature spotlights with (adjustable and flexible arm), 3W LED light source.
As Thorn D-CO LED Spotlights



Lamps

LED 3W

Standards

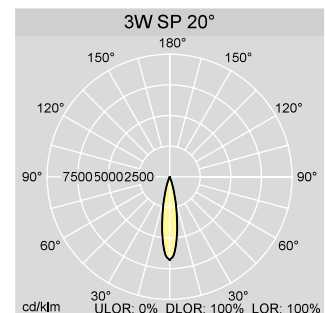
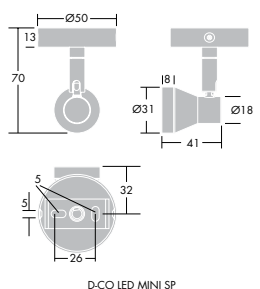
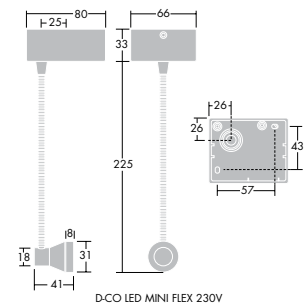
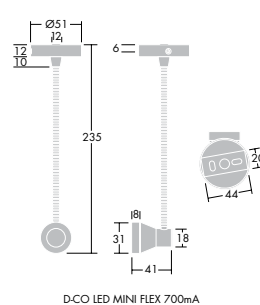


Ordering Guide

Supplied complete with LED light source

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Spotlights			
D-CO LED MINI FLEX 1X3W 3K 20° 230V GRY	0.18	96107867	DCMF95VSPG3K
D-CO LED MINI FLEX 1X3W 4K 20° 230V GRY	0.18	96107868	DCMF95VSPG4K
D-CO LED MINI SP 4/1X3W 3K20° 230V KIT	0.26	96107967	DCMS380VSPG3KKIT
D-CO LED MINI SP 4/1X3W 4K20° 230V KIT	0.26	96107968	DCMS380VSPG4KKIT
D-CO LED Spotlights without driver			
D-CO LED MINI FLEX 1X3W 3K 20° 700MA GRY	0.12	96107865	DCMF95ASPG3K
D-CO LED MINI FLEX 1X3W 4K 20° 700MA GRY	0.12	96107866	DCMF95ASPG4K
D-CO LED MINI SP 1X3W 3K 20° 700MA GRY	0.09	96107965	DCMS95ASPG3K
D-CO LED MINI SP 1X3W 4K 20° 700MA GRY	0.09	96107966	DCMS95ASPG4K
D-CO LED Drivers			
LED CONV 12W 700MA 100-240V 6PLUG	0.15	96108002	DCDR127
LED CONV 15/25W UNI 110-240V DIM	0.11	96107649	DCDR15DIM
LED CONV 18W 700MA 100-240V 6PLUG	0.22	96108003	DCDR187
LED CONV 3W 700MA 100-240V 3PLUG	0.26	96108001	DCDR37
LED CONV 50W UNI 110-240V DIM THO	0.15	96108126	DCDR50DIM
LED CONV 50W UNI DALI	0.15	96108026	DCDR50DALI
D-CO LED Accessories			
LED EXTENSION 1M SOCKET/CLIP 700MA	0.02	96108025	DCEXT1M7
LED MULTIPLUG BRIDGE 700MA 25-PCS	0.001	96108129	DCMPB7
MULTIPLUG 3WAY SERIES 700MA LED	0.02	96107980	DCSKT37
MULTIPLUG 6WAY SERIES 700MA LED	0.03	96108000	DCSKT67

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A range of recessed LED/HID gimbal spotlights with single, twin or triple lighting heads offering different beam angles



- Single, twin or triple angular modules available taking a variety of sources: LEDs (an efficient alternative to halogen - a 19.2W LED replaces 75-100W), metal halide (HIT/HIR) and low voltage halogen (QR111) with electronic transformers
- Each light head is 30° adjustable to the vertical in all directions
- Interchangeable reflectors (tool-free) for HIT lamps
- Easy tool free mounting into ceiling via rubber sleeve spring clips

Materials/Finish

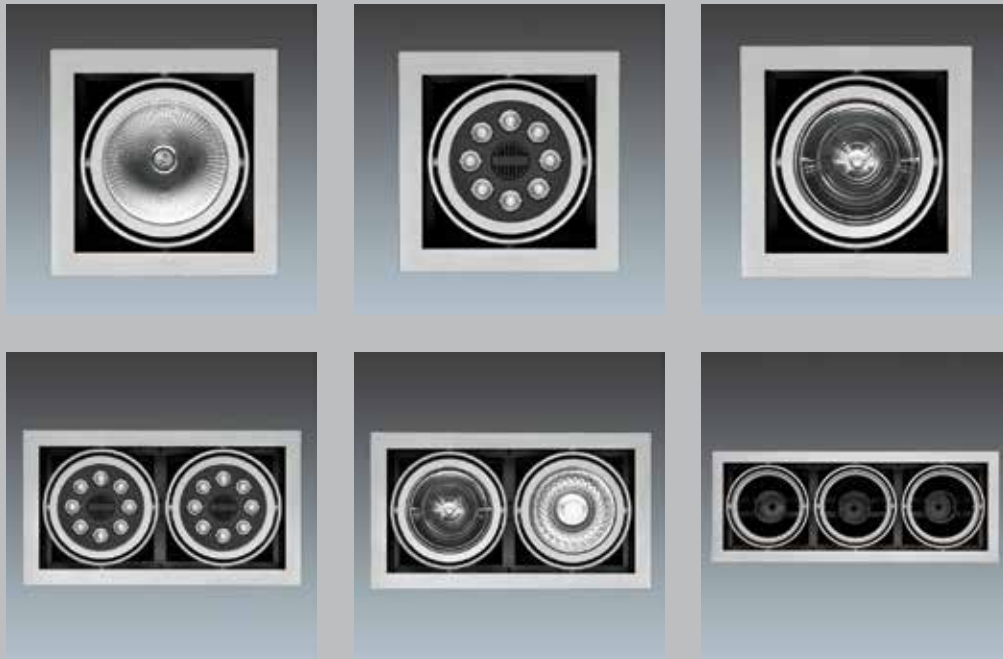
Profiles: welded aluminium, coated silver/grey (RAL 9007)
Reflectors: spun and specular anodised of high purity aluminium

Installation/Mounting

Suitable for wall or ceiling recessed mounting. Easy to install featuring rubber sleeved spring clips and encoded plug connectors for electrical connection to gears.

Specification

To specify state:
Recessed gimbal head luminaire; single, double or triple gimbal heads per luminaire; seamless welded aluminium frame housing with shallow appearance, gimbal heads with bayonet lock for tool-free equipment exchange; recessed housing black finish; features tool-free mounting via rubber-sleeved spring clips; for selected equipment with HIT-TC-CE 20W-70W, HIR-CE111 20W-70W, LED 20W or QR111 up to 100W; HIT-TC-CE reflectors can be tool-free interchanged; HIT and HIR versions include installed male plug connector, LED and QR versions come with installed male plug connector and ready-to-wire female plug. Lamps, gears, drivers and transformers to be ordered separately.
As Thorn Tidon.



Lamps

	LED	20W
	HIT-TC-CE (MT)	G8.5 70W
	QR 111 (HMG)	G53 100W
	HIT (MT)	G12 35-70W

Standards



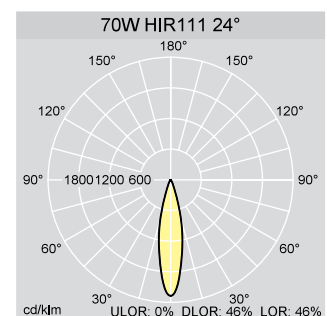
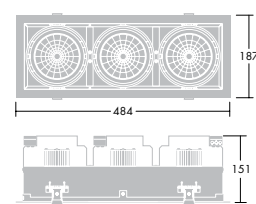
Ordering Guide

Lamps to be ordered separately. For complete luminaire order body, gear and accessory (if required).

Description	Wt (kg)	SAP Code	Cat. No.
Tidon HIT versions			
TIDON-S1 1X70W HIT G8,5 FL GRY	1.24	96107396	TD170FL
TIDON-S1 1X70W HIT G8,5 SP GRY	1.24	96107395	TD170SP
TIDON-S2 2X70W HIT G8,5 FL GRY	2.20	96107398	TD270FL
TIDON-S2 2X70W HIT G8,5 SP GRY	2.20	96107397	TD270SP
TIDON-S3 3X70W HIT G8,5 FL GRY	3.12	96107400	TD370FL
TIDON-S3 3X70W HIT G8,5 SP GRY	3.12	96107399	TD370SP
Tidon Accessories for HIT versions			
TIDON FILTER IR/UVVA	0.07	96107643	TDIRFIL
TIDON REFL SIL FL	0.11	96107860	TDFLREF
TIDON REFL SIL SP	0.11	96107859	TDSPREF
Tidon Gears for HIT and HIR111 versions			
PCI 2/35 B521 220-240V 50/60HZ 0535 TRI	0.45	86458338	
PCI 2/70 B521 220-240V ---/ST 0535 TRI	0.54	86458339	
PCI 0070 B521 220-240V 50/60HZ 0535 TRI	0.30	86458185	PCI0070B521
REMOTE GEAR BOX 1X20W HIT G8,5 HF	0.11	96107640	TDGB20W
Tidon QR111 versions			
TIDON-S1 1X100W QR111 GRY	1.13	96107401	TD1100QR
TIDON-S2 2X100W QR111 GRY	1.98	96107402	TD2100QR
TIDON-S3 3X100W QR111 GRY	2.79	96107403	TD3100QR
Tidon Transformers for QR111 versions			
TE-0105 C201 230-240/11,5V 105VA 50/60	0.16	89899857	
TE-DC 2 0300 D101 ONE4ALL300VA GREY	0.80	86458469	
TE-DC 2 0300 F101 300VA GREY	0.80	86458503	
Tidon LED versions			
TIDON-S1 1X20W LED FL L830 GRY	1.50	96107408	TD870FL3K
TIDON-S1 1X20W LED FL L840 GRY	1.50	96107410	TD870FL4K
TIDON-S1 1X20W LED SP L830 GRY	1.50	96107407	TD870SP3K
TIDON-S1 1X20W LED SP L840 GRY	1.50	96107409	TD870SP4K
TIDON-S2 2X20W LED FL L830 GRY	2.80	96107412	TD1740FL3K
TIDON-S2 2X20W LED FL L840 GRY	2.80	96107414	TD1740FL4K
TIDON-S2 2X20W LED SP L830 GRY	2.80	96107411	TD1740SP3K
TIDON-S2 2X20W LED SP L840 GRY	2.80	96107413	TD1740SP4K
TIDON-S3 3X20W LED FL L830 GRY	4.00	96107416	TD2610FL3K
TIDON-S3 3X20W LED FL L840 GRY	4.00	96107418	TD2610FL4K
TIDON-S3 3X20W LED SP L830 GRY	4.00	96107415	TD2610SP3K
TIDON-S3 3X20W LED SP L840 GRY	4.00	96107417	TD2610SP4K

Description	Wt (kg)	SAP Code	Cat. No.
Tidon LED driver			
LED CONV 15/25W UNI 110-240V DIM	0.11	96107649	DCDR15DIM
LED CONV 50W UNI 110-240V DIM THO	0.15	96108126	DCDR50DIM
LED CONV 50W UNI DALI	0.15	96108026	DCDR50DALI
Tidon Accessories for all versions			
TIDON-S1 WEIGHT DISTRIBUTION PANEL	0.40	96107652	TDS1WDP
TIDON-S2/S3 WEIGHT DISTRIBUTION PANEL	0.80	96107653	TDS2/S3WDP

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Graffiti S



www.thornlighting.co.uk/GRAS

Compact spotlights for PAR and QR tungsten halogen (50W/75W) lamps, which are available in a wide choice of beam angles



- The pure and simple shape and the unobtrusive design features complement all environments and integrate well with a variety of architectural styles
- Mains and low voltage versions available. Low voltage versions have an integral electronic transformer in adaptor or surface plate
- DSI or momentary action switch controllable Phase dimmers (40-500VA and 40-1000VA) are sold separately and can be used for all versions of Graffiti S as central control of the whole track.

Materials/Finish

Body: die-cast aluminium wet painted white (close to RAL 9016) or silver/grey (RAL 9007)
Reflector: spun high grade anodised aluminium silver finish. Reflectors have facets that mix the light rays to ensure a uniform light beam
Stem: steel with high friction joint, silver/white finish.

Installation/Mounting

Suitable for 3 circuit multiadaptor or surface mounting. 2 x 1.5mm² screw terminal without looping possibilities. 10mm cable entry in the back and sides as break out for surface mounted versions. Rotation 0° - 360°, tilt 0° - 90°.
Track mounting: mechanical and electrical track connection is made using the track adaptor, which locates quickly and positively to the track via two stable clamping points with a simple clockwise turn of the fixing lever. Select the desired circuit (1, 2 or 3) using the selector on the top of the trackbox before installing onto the track.

Specification

To specify state:
Small spotlight for 50-75W PAR30, 50W PAR 16, 50W QR-CBC, halogen lamps.
As Thorn Graffiti S.



QR-CBC white



QR-CBC silver/grey



PAR 30 silver/grey



PAR 30 white



PAR 16 white

Lamps

	PAR 16 (HR)	GZ10	50W
	PAR 30 (HR)	E27	75W
	QR-CBC 51 (HRG)	GU5.3	50W

Standards

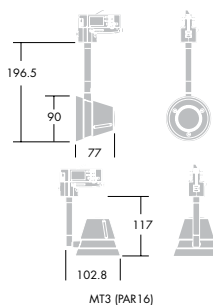


Ordering Guide

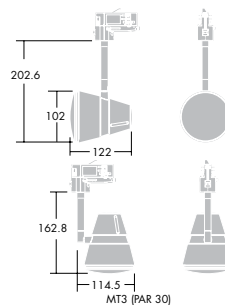
Lamps to be ordered separately. All versions have a fixed lamp position.

Description	Wt (kg)	SAP Code	Cat. No.
Graffiti S Surface			
GRAFFITI S 1X50W PAR16 GZ10 MSF GRY	0.50	96106679	GFSSF150GZG
GRAFFITI S 1X50W PAR16 GZ10 MSF WHI	0.50	96106671	GFSSF150GZW
GRAFFITI S 1X75W PAR30 MSF GRY	0.50	96106678	GFSSF175G
GRAFFITI S 1X75W PAR30 MSF WHI	0.50	96106670	GFSSF175W
Graffiti S 3 Circuit Track			
GRAFFITI S 1X50W PAR16 GZ10 MT3 GRY	0.46	96106684	GFST3150GZG
GRAFFITI S 1X50W PAR16 GZ10 MT3 WHI	0.46	96106676	GFST3150GZW
GRAFFITI S 1X50W QR-CBC MT3 GRY	0.25	96106685	GFST3150GUG
GRAFFITI S 1X50W QR-CBC MT3 WHI	0.25	96106677	GFST3150GUW
GRAFFITI S 1X75W PAR30 MT3 GRY	0.46	96106683	GFST3175G
GRAFFITI S 1X75W PAR30 MT3 WHI	0.46	96106675	GFST3175W
Graffiti S Accessories			
PDAX 500VA	0.20	22154307	PDAX500VA

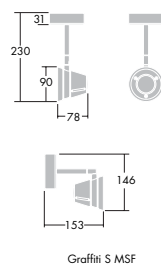
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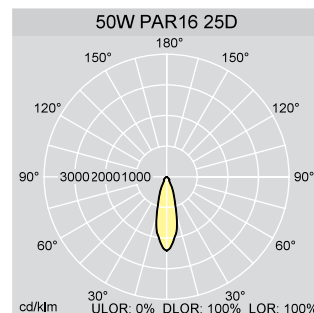
MT3 (PAR16)



MT3 (PAR30)



Graffiti S MSF



Graffiti M



www.thornlighting.co.uk/GRAM

Medium spotlight with narrow or wide reflector options and stepless adjustable beam angles.



- High grade spun, anodized aluminium reflectors house innovative stepless adjustable beam angles 10°-35° (narrow) and 25° - 55° (wide). QT12 HIT TC versions only.
- Mains and low voltage versions available. Low voltage versions have an integral electronic transformer in adaptor or surface plate
- Ideal solution for uniform and high performance spotlighting in retail, leisure and museums
- Easy to install user-focused attachments with simple bayonet function

Materials/Finish

Body: die-cast aluminium wet painted white (close to RAL 9016) or silver/grey (RAL 9007)

Reflector: spun high grade anodised aluminium silver finish as standard. Reflectors have facets that mix the light rays to ensure a uniform light beam.

Stem: steel with high friction joint, silver/white finish. Protective front glass.

Installation/Mounting

Suitable for 3 circuit multiadaptor or surface mounting. 2 x 3 x 2.5mm² piano key terminal block and 10mm cable entry in the back and sides as break out, looping possible for surface mounted versions.

Rotation 0° - 360°

Tilt 0° - 90°

Attachments easily mounted by tool-free bayonet function.

Track mounting: mechanical and electrical track connection is made using the track multiadaptor, which locates quickly and positively to the track via two stable clamping points with a simple clockwise turn of the fixing lever. Select the desired circuit (1, 2 or 3) using the selector on the top of the trackbox before installing onto the track.

Specification

To specify state:

Medium spotlight for 90W QT12, 100W QR111 halogen lamps, 20-70W HIT-TC, 35-70W HIPAR111 metal halide lamps.

As Thorn Graffiti M.

Ordering Guide

Lamps to be ordered separately.

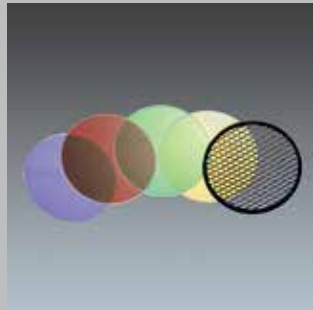
Description	Wt (kg)	SAP Code	Cat. No.
Graffiti M Surface Fixed Beam			
GRAFFITI M 1X35W HIPAR111 GX8,5 MSF GRY	1.43	96106706	GFMSF135G
GRAFFITI M 1X35W HIPAR111 GX8,5 MSF WHI	1.43	96106695	GFMSF135W
GRAFFITI M 1X70W HIPAR111 GX8,5 MSF GRY	1.43	96106707	GFMSF170G
GRAFFITI M 1X70W HIPAR111 GX8,5 MSF WHI	1.43	96106696	GFMSF170W
GRAFFITI M 1X100W QR111 MSF GRY	1.40	96106705	GFMSF1100G
GRAFFITI M 1X100W QR111 MSF WHI	1.40	96106694	GFMSF1100W
Graffiti M Surface Narrow Beam			
GRAFFITI M 1X20W HIT G8,5 MSF SP GRY	1.42	96106699	GFMSF120SPG
GRAFFITI M 1X20W HIT G8,5 MSF SP WHI	1.42	96106688	GFMSF120SPW
GRAFFITI M 1X35W HIT G8,5 MSF SP GRY	1.42	96106701	GFMSF135SPG
GRAFFITI M 1X35W HIT G8,5 MSF SP WHI	1.42	96106690	GFMSF135SPW
GRAFFITI M 1X70W HIT G8,5 MSF SP GRY	1.43	96106703	GFMSF170SPG
GRAFFITI M 1X70W HIT G8,5 MSF SP WHI	1.43	96106692	GFMSF170SPW
GRAFFITI M 1X90W QT12 MSF SP GRY	1.40	96106697	GFMSF190SPG
GRAFFITI M 1X90W QT12 MSF SP WHI	1.40	96106686	GFMSF190SPW
Graffiti M Surface Wide Beam			
GRAFFITI M 1X20W HIT G8,5 MSF FL GRY	1.42	96106700	GFMSF120FLG
GRAFFITI M 1X20W HIT G8,5 MSF FL WHI	1.42	96106689	GFMSF120FLW
GRAFFITI M 1X35W HIT G8,5 MSF FL GRY	1.42	96106702	GFMSF135FLG
GRAFFITI M 1X35W HIT G8,5 MSF FL WHI	1.42	96106691	GFMSF135FLW
GRAFFITI M 1X70W HIT G8,5 MSF FL GRY	1.43	96106704	GFMSF170FLG
GRAFFITI M 1X70W HIT G8,5 MSF FL WHI	1.43	96106693	GFMSF170FLW
GRAFFITI M 1X90W QT12 MSF FL GRY	1.40	96106698	GFMSF190FLG
GRAFFITI M 1X90W QT12 MSF FL WHI	1.40	96106687	GFMSF190FLW
Graffiti M 3 Circuit Track Fixed			
GRAFFITI M 1X35W HIPAR111 GX8,5 MT3 GRY	1.31	96106728	GFMT3135G
GRAFFITI M 1X35W HIPAR111 GX8,5 MT3 WHI	1.31	96106717	GFMT3135W
GRAFFITI M 1X70W HIPAR111 GX8,5 MT3 GRY	1.31	96106729	GFMT3170G
GRAFFITI M 1X70W HIPAR111 GX8,5 MT3 WHI	1.31	96106718	GFMT3170W
GRAFFITI M 1X100W QR111 MT3 GRY	1.28	96106727	GFMT31100G
GRAFFITI M 1X100W QR111 MT3 WHI	1.28	96106716	GFMT31100W



Barn doors



Louvre attachment



Filters and louvre

Lamps

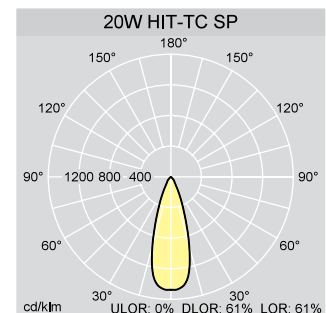
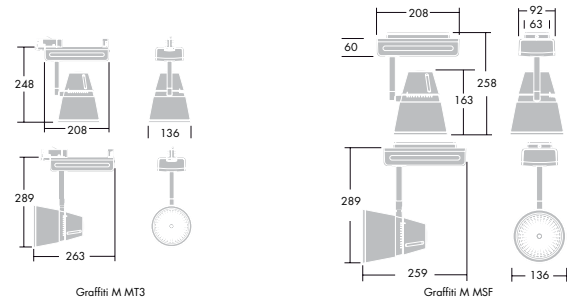
	HIPAR 111 (MR)	GX8.5	35-70W
	HIT-TC-CE (MT)	G8.5	20-70W
	QR 111 (HMG)	G53	100W
	QT-LP 12 (HSG)	GY6.35	90W

Standards



Description	Wt (kg)	SAP Code	Cat. No.
Graffiti M 3 Circuit Track Narrow			
GRAFFITI M 1X20W HIT G8,5 MT3 SP GRY	1.30	96106721	GFMT3120SPG
GRAFFITI M 1X20W HIT G8,5 MT3 SP WHI	1.30	96106710	GFMT3120SPW
GRAFFITI M 1X35W HIT G8,5 MT3 SP GRY	1.30	96106723	GFMT3135SPG
GRAFFITI M 1X35W HIT G8,5 MT3 SP WHI	1.30	96106712	GFMT3135SPW
GRAFFITI M 1X70W HIT G8,5 MT3 SP GRY	1.31	96106725	GFMT3170SPG
GRAFFITI M 1X70W HIT G8,5 MT3 SP WHI	1.31	96106714	GFMT3170SPW
GRAFFITI M 1X90W QT12 MT3 SP GRY	1.28	96106719	GFMT3190SPG
GRAFFITI M 1X90W QT12 MT3 SP WHI	1.28	96106708	GFMT3190SPW
Graffiti M 3 Circuit Track Wide			
GRAFFITI M 1X20W HIT G8,5 MT3 FL GRY	1.30	96106722	GFMT3120FLG
GRAFFITI M 1X20W HIT G8,5 MT3 FL WHI	1.30	96106711	GFMT3120FLW
GRAFFITI M 1X35W HIT G8,5 MT3 FL GRY	1.30	96106724	GFMT3135FLG
GRAFFITI M 1X35W HIT G8,5 MT3 FL WHI	1.30	96106713	GFMT3135FLW
GRAFFITI M 1X70W HIT G8,5 MT3 FL GRY	1.31	96106726	GFMT3170FLG
GRAFFITI M 1X70W HIT G8,5 MT3 FL WHI	1.31	96106715	GFMT3170FLW
GRAFFITI M 1X90W QT12 MT3 FL GRY	1.28	96106720	GFMT3190FLG
GRAFFITI M 1X90W QT12 MT3 FL WHI	1.28	96106709	GFMT3190FLW
Graffiti M Attachments			
GRAFFITI M BARN DOOR BLK	0.23	96106749	GFMBD
GRAFFITI M FILTER BLU	0.08	96106743	GFMBFIL
GRAFFITI M FILTER FOOD	0.08	96106747	GFMFDFIL
GRAFFITI M FILTER GRN	0.08	96106744	GFMGFIL
GRAFFITI M FILTER IR/UVVA	0.08	96106746	GFMRIFIL
GRAFFITI M FILTER RED	0.08	96106742	GFMRFIL
GRAFFITI M FILTER YEL	0.08	96106745	GFMYFIL
GRAFFITI M LV GR BLK	0.01	96106748	GFMLV
Graffiti M Accessories			
PDAS 1000VA	0.40	22154306	PDAS1000VA
PDAX 500VA	0.20	22154307	PDAX500VA

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Graffiti L



www.thornlighting.co.uk/GRAL

High power spotlight with narrow or wide reflector options and stepless adjustable beam angles



- The pure and simple shape and the unobtrusive design features complement all environments and integrate well with a variety of architectural styles
- High grade spun, anodized aluminium reflectors house innovative stepless adjustable beam angles 10°-35° (narrow) and 25° - 55° (wide). QT12 HIT TC versions only.
- Easy to install user-focused attachments with simple bayonet function

Materials/Finish

Body: die-cast aluminium wet painted white (close to RAL 9016) or silver/grey (RAL 9007)

Reflector: spun high grade anodised aluminium silver finish as standard, gold available as accessory.

Reflectors have facets that mix the light rays to ensure a uniform light beam

Stem: steel with high friction joint, silver/white finish. Protective front glass for HIT versions.

Installation/Mounting

Track mounting: mechanical and electrical track connection is made using the track adaptor, which locates quickly and positively to the track via two stable clamping points with a simple clockwise turn of the fixing lever. Select the desired circuit (1, 2 or 3) using the selector on the top of the trackbox before installing onto the track. Rotation 0° - 360°, tilt 0° - 90°. Attachments easily mounted by tool-free bayonet function.

Specification

To specify state:

High power spotlight with adjustable light distribution for 50-100W HST white SON and 150W HIT-CE metal halid lamps.

As Thorn Graffiti L.

SuperTrack 2

www.thornlighting.co.uk/TRKS

A versatile 3-circuit lighting track system, with a full range of power feeds, connectors, couplers and suspensions



- 16A track units in high quality extruded aluminium with three separately switchable circuits. Choice of mounting: surface or suspended, plus flanged option for suspended ceilings
- Compatible with universal adaptors provided on all Thorn mains voltage spot lights, including the Prospector and Graffiti families.
- Visible polarity ridges aid electrical connection and mechanical alignment
- Extensive selection of power feed connector options allows alternative to live-end feed
- Versatile suspension system features height adjustment and rapid fixing to suspension clamps

Materials/Finish

Track: Extruded aluminium section with natural, white or black finish, housing copper conductors
Connectors: black or white polycarbonate

Installation/Mounting

Pendant Tube Suspension kit
Provides rigid support up to 1m from ceiling and can be cut to length on site. Cable (up to $5 \times 1.5\text{mm}^2$) connects directly to the feed through the tube. After the central nut is removed, the tube locates into the suspension clamp via a twist and lock mechanism.
Supplied with ceiling rose.

Threaded Rod Suspension kit
With ceiling rose. Mechanical kit providing rigid suspension up to 1m from the ceiling. Screws directly into the suspension clamp
Can be cut to length on site.

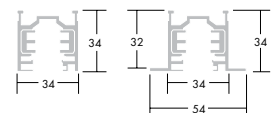
Wire Suspension kit
Mechanical kit. Includes a height adjustable lock.
The versatile suspension dome allows you to suspend track from a sloping surface or from a point not directly above the point of suspension.
Track Surface Mounting kits
Used for surface mounting on uneven ceilings. Screws and wall plugs included.

T-bar clips

For use on 20mm T sections and above. There is also a push out component on the track to allow the screw to be fastened into the unit.

Recessed clips

Used to attach recessed track to the internal grid of a suspended ceiling (used in connection with MRE track unit and MRE connector covers to support the ceiling tiles).



Surface and Suspended

Recessed

SuperTrack 2

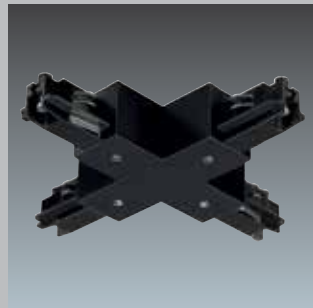
Feeds, Connectors and couplers



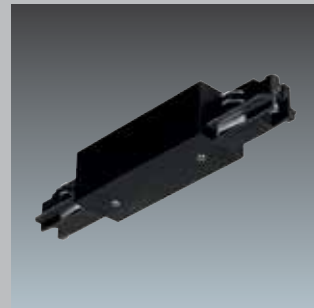
Initial Feed L



Straight Connector



X Connector



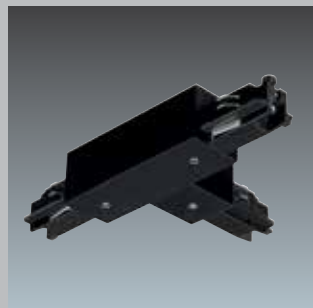
Central Feed



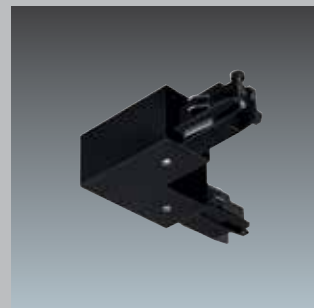
Coupler



Flexible Connector



T Connector



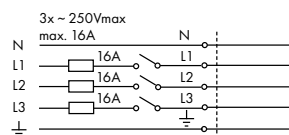
L Connector

Feeds and connectors are effectively the terminal block that provides power to the track. There are six 'feedable' connectors: initial and central feed, plus the 'T', 'L', 'X' and flex connectors. You cannot 'feed' into the straight connector and coupler.

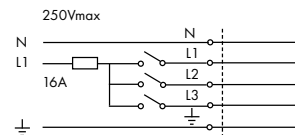
The internal wiring design allows for easy 'feed in', because the connecting wires are soldered to the side of the screw grub.

As mentioned the straight connector and coupler are not 'feedable'. Although similar in design they perform different functions. The straight connector has electrical contacts whereas the coupler doesn't, it merely mechanically connects two tracks together. Both items connect track units without a gap.

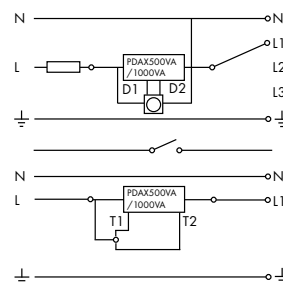
If a coupler is used then the following section of track must have its own live feed for electrical connection purposes. For example where the maximum electrical load is exceeded or where luminaries are required to be switched/dimmed with a different circuit.



3 phase



1 phase



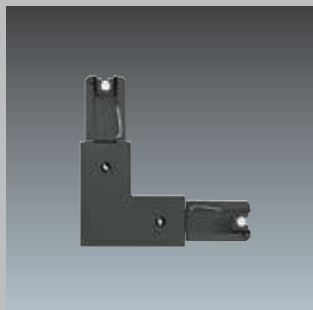
Dimming

SuperTrack 2

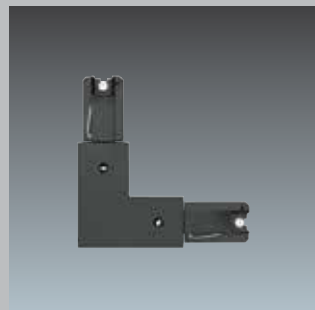
Polarity ridges



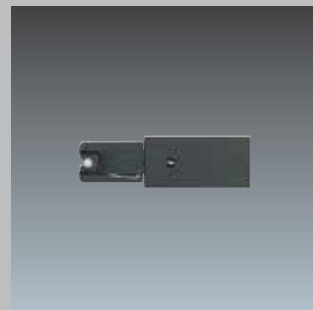
Central Feed



Connector L Inside



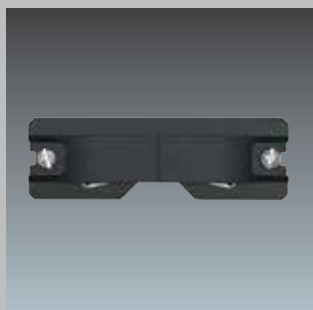
Connector L Outside



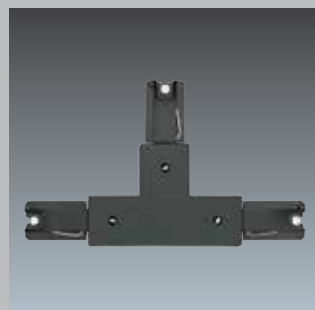
Initial Feed L



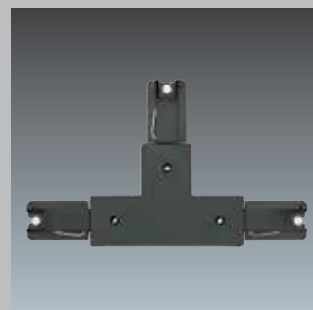
Coupler



Straight Connector



T Connector Outside



T Connector Inside

The track units are designed with a polarity ridge running the length of one side of the unit. Care must be taken when specifying to maintain polarisation.

Therefore, there are different versions of certain connectors:

The Initial Feed has two versions: left and right polarity. This is the component that starts the run.

One track length can be attached. Remember, if you start the run with a left initial feed, you must finish with the feed on the right and vice versa.

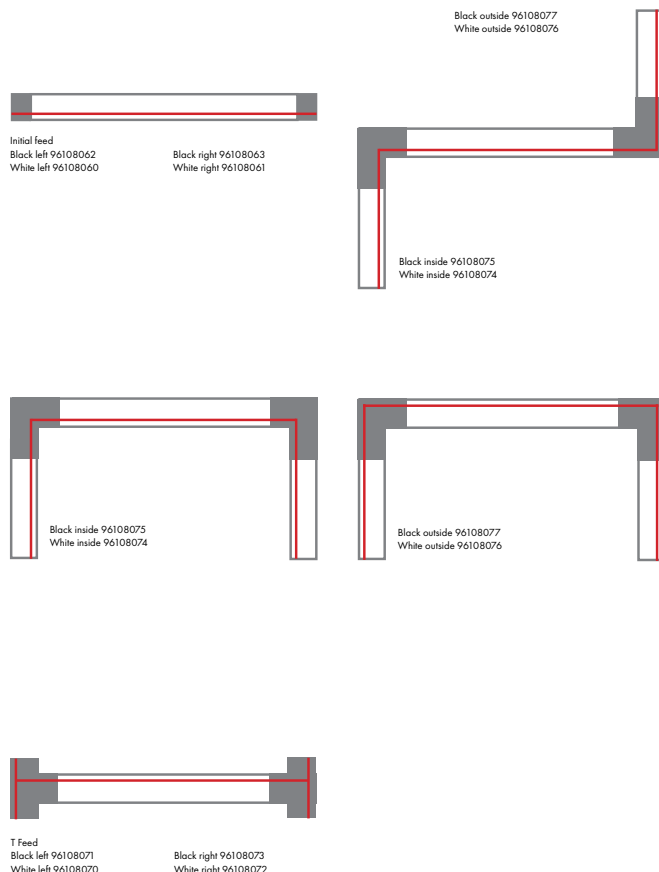
Central Feed, Flex Connector, Straight Connector and Coupler: There is only one version of these items as, connecting two track lengths, they can be flipped to serve the direction of polarity.

The L-Connector has two versions: Outside and inside enabling continuous polarity around the outside or inside of a 90° corner. Remember when creating an 'S' bend (turning right then left) an outside and an inside are required. For a closed rectangle, or to turn left and left again, you must use two outside or two inside L connectors.

The T-Connector has two versions: Outside right and outside left. The polarity on the longer section, which connects two tracks together in a straight line, is always on the outside, but the 'adjacent' section can be on the left or the right. Please refer to the start of the guide to ascertain the difference between left and right.

The X-Connector can be rotated to match the four connecting track lengths, as long as the two opposite lengths run in the same direction, in-terms of polarity.

The earth on the connectors matches the copper section of the track unit, allowing the connectors and track to fit together. Polarity is the main issue when working with track and this description should be used together with the example layouts to ensure that the required combination is compatible.

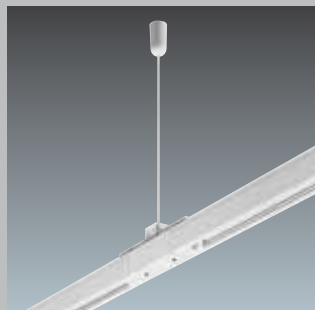


SuperTrack 2

Mounting and suspension options



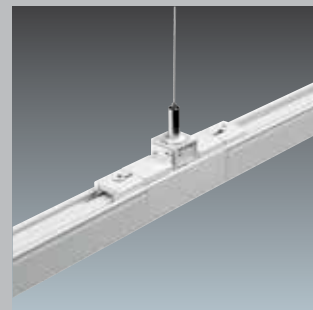
MSF Clips



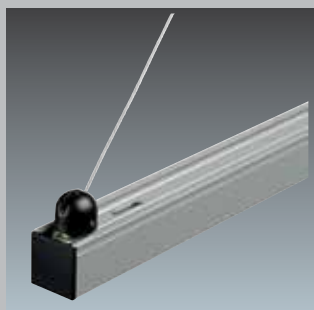
Threaded Rod MRS Kit



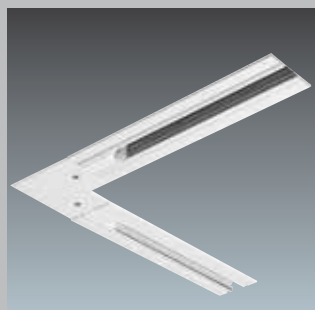
Tube MRS Kit



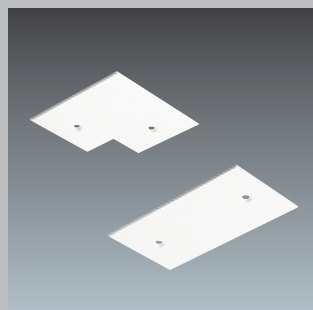
Steel Cord Kit



Versatile Dome

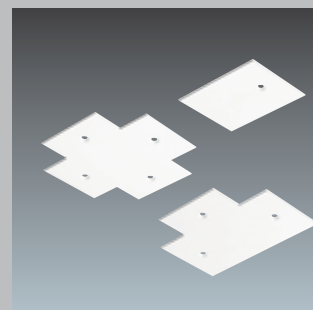


Recessing L Connector Cover



L Cover

Cover



X Cover

Small Cover

T Cover

Surface mounting

There are three methods of surface mounting:

Screw fixing directly to the ceiling (if level). The maximum spacing of the single mounting points is 1 m with a max load of 12 kg. If the spacing is 0.5 m then the max. load is 30 kg. You can use the direct screw method on the MRE track to support ceiling tiles.

Mounting clips for when the ceiling is uneven. The surface mounting kit is available with 2 or 3 sets of fixings. Each fixing comprises: 1 screw, 1 wall plug and 1 surface mount clip. The maximum spacing for this option is 1 m with a max load of 2 kg. If the spacing is 0.5 metres the max. load is 3 kg. You can use the method to support ceiling tiles.

T-bar clip mounting. The T-bar clip attaches to the track through the pop out section on the roof (rear?) of the track unit. The T bar clip can be adjusted to fit on any T-section above 20 mm. The spacing is 1 m with the max. load of 2 kg. If its below 0.5 m, then the max load is 3 kg.

Recessed mounting

Using MRE clips. The basics of a recessed system is that the track acts as a 'T' section. There are three things required to suspend a ceiling tile with track. Firstly, an MRE unit which has a flanged edge to support the tile. Secondly, MRE clips link the track unit to the grid. Finally, if you incorporate feeds and connectors then MRE covers are required. These metal covers replace the plastic covers on the feeds, offering a flanged edge which, like the track, supports the ceiling tile and maintains a continuous appearance.

Suspensions

Pendant Tube Kit

The main purpose of the tube suspension kit is to run cable discreetly and unobtrusively from the ceiling to the feed. The kit comes with a ceiling rose to complete the look.

The tube screws directly into all suspension clamps provided once you remove the central nut, so the cable can go through the tube and suspension clamp straight into the feed or feedable connector. The pendant tube kit is 1 m long, but can be cut to length on site, max spacing is 1 m with a max. load of 5 kg. If the spacing is 0.5 then the max. load is 6 kg.

Threaded Suspension Rod Kit

The threaded rod kit is a mechanical kit providing rigid support up to 1 m. It comes with a ceiling rose and the metal pole inside is covered with a sleeve to avoid any unwanted attention to the system. The threaded rod screws straight into the suspension clamp, the central nut has a hole designed to allow the threaded rod to screw in. The maximum spacing recommended is 1 m with the max load of 3 kg. If its 0.5 m the max load is 4 kg. The same applies to the steel cord kit.

Steel cord

The steel cord kit has three elements, each performing a different role.

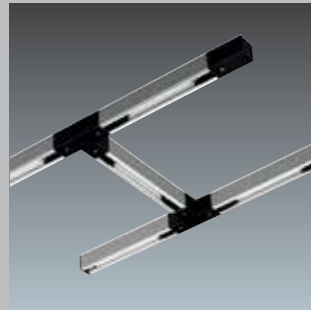
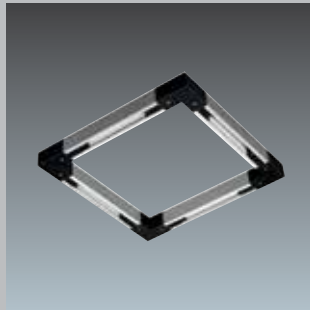
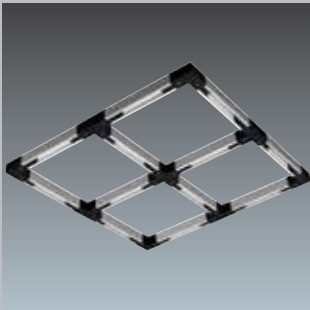
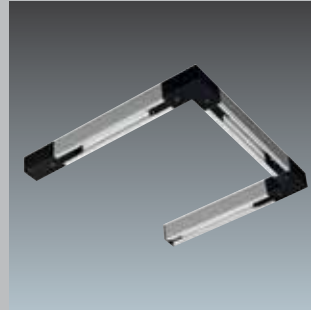
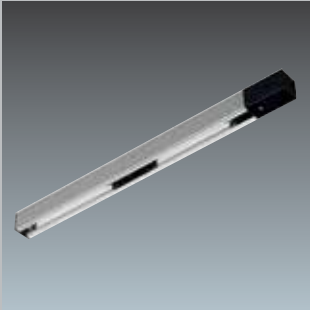
Firstly, the Steel cord comes in 2m or 5m versions. Included is a versatile suspension dome that provides the flexibility to suspend the system from sloping ceilings of almost any angle, furthermore you can suspend from a point not directly above the point of attachment on the track, but the system must be balanced. The suspension dome attaches to either the track or ceiling. Finally, a height adjustable lock allows easy threading of the cable through the lock and levelling. The lock can screw directly into the suspension clamps provided. If you wish to attach the versatile suspension dome to the track you must use the pop out section on the roof of the track and screw it on from there.

Suspension clamps (to be ordered separately)

Suspension clamp are available in forms either suitable for attaching to track units or to feed connectors. There is a central nut that the steel cord kit and threaded rod kit screws into, or it can be removed to allow access for the pendant tube kit

SuperTrack 2

Track configurations



Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
Supertrack 2 Standard track			
SUPERTRACK2 1M T3C MSF BK	1.05	96108042	SUS1MB
SUPERTRACK2 1M T3C MSF GY	1.05	96108043	SUS1MG
SUPERTRACK2 1M T3C MSF WH	1.05	96108044	SUS1MW
SUPERTRACK2 2M T3C MSF BK	2.10	96108045	SUS2MB
SUPERTRACK2 2M T3C MSF GY	2.10	96108046	SUS2MG
SUPERTRACK2 2M T3C MSF WH	2.10	96108047	SUS2MW
SUPERTRACK2 3M T3C MSF BK	3.15	96108048	SUS3MB
SUPERTRACK2 3M T3C MSF GY	3.15	96108049	SUS3MG
SUPERTRACK2 3M T3C MSF WH	3.15	96108050	SUS3MW
SUPERTRACK2 4M T3C MSF BK	4.20	96108051	SUS4MB
SUPERTRACK2 4M T3C MSF GY	4.20	96108052	SUS4MG
SUPERTRACK2 4M T3C MSF WH	4.20	96108053	SUS4MW
Supertrack 2 End caps for standard track			
SUPERTRACK2 END CAP 3C BK	0.01	96108058	SUBEC
SUPERTRACK2 END CAP 3C WH	0.01	96108059	SUWEC
Supertrack 2 Recessed track			
SUPERTRACK2 1M T3C MRE WH	1.10	96108054	SUR1MW
SUPERTRACK2 2M T3C MRE WH	2.20	96108055	SUR2MW
SUPERTRACK2 3M T3C MRE WH	3.30	96108056	SUR3MW
SUPERTRACK2 4M T3C MRE WH	4.40	96108057	SUR4MW
Supertrack 2 Covers for recessed track			
SUPERTRACK2 CENTRAL FEED COVER MRE BK	0.04	96108113	SUCFBCOV
SUPERTRACK2 CENTRAL FEED COVER MRE WH	0.04	96108112	SUCFWCOV
SUPERTRACK2 INITIAL FEED COVER MRE BK	0.03	96108111	SUIFBCOV
SUPERTRACK2 INITIAL FEED COVER MRE WH	0.03	96108110	SUIFWCOV
SUPERTRACK2 L-CONNECTOR COVER MRE BK	0.08	96108117	SULCBCOV
SUPERTRACK2 L-CONNECTOR COVER MRE WH	0.08	96108116	SULCWCOV
SUPERTRACK2 T-CONNECTOR COVER MRE BK	0.06	96108115	SUTCBCOV
SUPERTRACK2 T-CONNECTOR COVER MRE WH	0.06	96108114	SUTCWCOV
SUPERTRACK2 X-CONNECTOR COVER MRE BK	0.07	96108119	SUXCBCOV
SUPERTRACK2 X-CONNECTOR COVER MRE WH	0.07	96108118	SUXCWCOV
Supertrack 2 Feeds and connectors			
SUPERTRACK2 CENTRAL FEED 3C BK	0.14	96108065	SUCFB
SUPERTRACK2 CENTRAL FEED 3C WH	0.14	96108064	SUCFW
SUPERTRACK2 CONNECTOR 3C BK	0.40	96108069	SUCNB
SUPERTRACK2 CONNECTOR 3C WH	0.40	96108068	SUCNW
SUPERTRACK2 COUPLER 3C BK	0.30	96108067	SUCPB
SUPERTRACK2 COUPLER 3C WH	0.30	96108066	SUCPW
SUPERTRACK2 FLEX CONNECTOR 3C BK	0.25	96108081	SUCFB
SUPERTRACK2 FLEX CONNECTOR 3C WH	0.25	96108080	SUCFW
SUPERTRACK2 INITIAL FEED 3C P L BK	0.07	96108062	SUIFBL
SUPERTRACK2 INITIAL FEED 3C P L WH	0.07	96108060	SUIFWL
SUPERTRACK2 INITIAL FEED 3C P R BK	0.07	96108063	SUIFBR
SUPERTRACK2 INITIAL FEED 3C P R WH	0.07	96108061	SUIFWR

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.

Description	Wt (kg)	SAP Code	Cat. No.
Supertrack 2 Feeds and connectors			
SUPERTRACK2 L-CONNECTOR 3C P I BK	0.14	96108075	SULCBI
SUPERTRACK2 L-CONNECTOR 3C P I WH	0.14	96108074	SULCWI
SUPERTRACK2 L-CONNECTOR 3C P O BK	0.14	96108077	SULCBO
SUPERTRACK2 L-CONNECTOR 3C P O WH	0.14	96108076	SULCWO
SUPERTRACK2 T-CONNECTOR 3C P O-L BK	0.10	96108071	SUTCBL
SUPERTRACK2 T-CONNECTOR 3C P O-L WH	0.10	96108070	SUTCWL
SUPERTRACK2 T-CONNECTOR 3C P O-R BK	0.10	96108073	SUTCBR
SUPERTRACK2 T-CONNECTOR 3C P O-R WH	0.10	96108072	SUTCWR
SUPERTRACK2 X-CONNECTOR 3C BK	0.27	96108079	SUXCB
SUPERTRACK2 X-CONNECTOR 3C WH	0.27	96108078	SUXCW
Supertrack 2 Suspension kits			
SUPERTRACK2 STEEL CORD MSW1 KIT 2M BK	0.09	96108087	SUSW2MB
SUPERTRACK2 STEEL CORD MSW1 KIT 2M WH	0.09	96108086	SUSW2MW
SUPERTRACK2 STEEL CORD MSW1 KIT 5M BK	0.12	96108089	SUSW5MB
SUPERTRACK2 STEEL CORD MSW1 KIT 5M WH	0.12	96108088	SUSW5MW
SUPERTRACK2 SUSP CLAMP CENTRAL FEED BK	0.19	96108095	SUSCCFB
SUPERTRACK2 SUSP CLAMP CENTRAL FEED WH	0.19	96108094	SUSCCFW
SUPERTRACK2 SUSP CLAMP INITIAL FEED BK	0.13	96108093	SUSCIFB
SUPERTRACK2 SUSP CLAMP INITIAL FEED WH	0.13	96108092	SUSCIFW
SUPERTRACK2 SUSP CLAMP L-CONNECTOR BK	0.19	96108097	SUSCLCB
SUPERTRACK2 SUSP CLAMP L-CONNECTOR WH	0.19	96108096	SUSCLCW
SUPERTRACK2 SUSP CLAMP T-CONNECTOR BK	0.25	96108099	SUSCTCB
SUPERTRACK2 SUSP CLAMP T-CONNECTOR WH	0.25	96108098	SUSCTCW
SUPERTRACK2 SUSP CLAMP X-CONNECTOR BK	0.30	96108101	SUSXCXB
SUPERTRACK2 SUSP CLAMP X-CONNECTOR WH	0.30	96108100	SUSXCXW
SUPERTRACK2 SUSPENSION CLAMP BK	0.04	96108091	SUSCB
SUPERTRACK2 SUSPENSION CLAMP WH	0.04	96108090	SUSCW
SUPERTRACK2 THREADED ROD MRS KIT 1M BK	0.14	96108085	SUTRK1MB
SUPERTRACK2 THREADED ROD MRS KIT 1M WH	0.14	96108084	SUTRK1MW
SUPERTRACK2 TUBE MRS KIT 1M BK	0.96	96108083	SUTK1MB
SUPERTRACK2 TUBE MRS KIT 1M WH	0.96	96108082	SUTK1MW
Supertrack 2 Accessories			
SUPERTRACK2 BALANCE BOLT CORD SUSP BK	0.02	96108102	SUBBSCB
SUPERTRACK2 CABLE CLIPPER TOOL	0.20	96108125	SUCCT
SUPERTRACK2 DISPLAY HOOK WH	0.01	96108120	SUDHW
SUPERTRACK2 ENCLOSURE D50 CEILING WH	0.11	96108103	SUDS50W
SUPERTRACK2 FIXING CLAMP (2X) KIT MSF	0.04	96108108	SUFCSX2
SUPERTRACK2 FIXING CLAMP (3X) KIT MSF	0.06	96108109	SUFCSX3
SUPERTRACK2 FIXING CLAMP MRE for concealed T ceiling grid	0.06	96108106	SUFCE
SUPERTRACK2 MOUNT KIT MRE POINT OUTL BK	0.11	96108124	SUMKRB
SUPERTRACK2 MOUNT KIT MRE POINT OUTL WH	0.11	96108123	SUMKRW
SUPERTRACK2 POINT OUTLET 3C MSF BK	0.10	96108122	SUPOSB
SUPERTRACK2 POINT OUTLET 3C MSF WH	0.10	96108121	SUPOSW
SUPERTRACK2 T-BAR FIXING CLAMP MSF for exposed T ceiling grid	0.02	96108107	SUTFCS
SUPERTRACK2 VERSATILE SUSPENSION DOME BK	0.04	96108105	SUVSDB
SUPERTRACK2 VERSATILE SUSPENSION DOME WH	0.04	96108104	SUVSDW



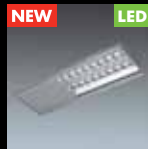
INDOOR LIGHTING



Industrial Luminaires



Westex Carpets, UK



NEW LED HiPak Pro LED
232



Duoproof
256



Hi-Rack
234



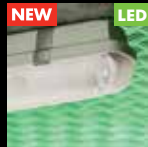
Concavia S
258



Titus Industry
236



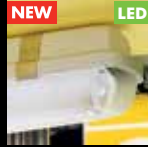
Concavia L
260



NEW LED ImpactForce II
238



Petrelux 7 Series
264



NEW LED CorrosionForce II
241



Petrelux 9 Series
266



ColdForce II
244



Petrelux ExEn
268



HeatForce
246



NEW LED AquaForce II LED
248



AquaForce II
250



Invincible II
254

NEW

HiPak Pro LED



www.thornlighting.co.uk/HIPP

Robust, low maintenance, energy saving industrial LED High Bay



- Ideal alternative to 250/400W solutions - up to 45% more energy efficient
- Dedicated individual LED optics for precise light control for racking and open areas
- Integral PIR sensor and DALI dimmable to maximise energy savings
- Dedicated body profile and on board thermal management system ensures LED performance and lifetime
- Multiple options available including IP66, High Temperature, Ra70 and Ra80 versions.

Materials/Finish

Housing: anodised aluminium extrusion with steel powder coated end caps (close to RAL 9006). Reflector: high grade MIRO 5 aluminium with plastic front cover.

Installation/Mounting

All mounting kits to be ordered separately and clip tool free onto the back of the body. For chain suspension use kit 96241507, trunking mounting via 20mm holes use kit 96241497, catenary suspension use kit 96241515. To mechanically join two luminaires together both a mounting kit (options from above) and accessory 96241508 need to be ordered. A 2.5mm² piano key terminal block is accessed via a sliding gear tray cover offering two 20mm cable entries. Integral sensor versions offer movement detection as well as daylight control and can be mounted up to 16m heights. Hand held programmer (96102983) can be used from the floor to customise sensor settings. Emergency versions suitable for maximum ambient temperature up to 30°C.

Specification

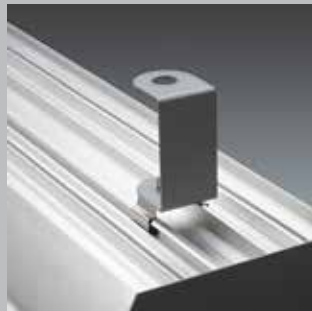
To specify state:
A LED high bay luminaire made from extruded anodised aluminium, choice of open area or rack optic, electronic gear - dimming, sensor or emergency options, LEDs supplied offering lumen outputs of 9000/9300/9700/10000/12500/13000/13500/14000, Ra70 or Ra80, 4000K, 50,000 hours, up to 93 lm/W, sliding gear tray cover for quick terminal block access.
As Thorn HiPak Pro LED.



Optional sensor control



Joining bracket (to be ordered separately)



Trunking mounting kit (KIT FIX BRA)



Precision individual LED optics



Chain mounting kit (KIT FIX/CH)



Lamps

LED 4-150W

Standards

EN 60598 IP43 IK08 T_a 30 T_a35
 IP66 T_a50

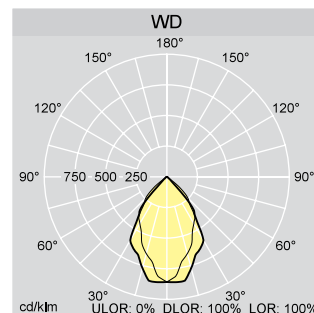
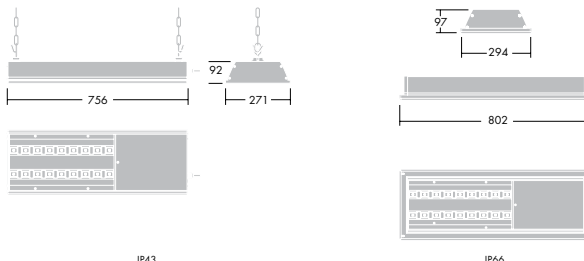
Ordering Guide

Supplied complete with LEDs. Mounting kits to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
HiPak Pro LED with rack optic			
HIPAK LED IP43 14000 HFI-X RK L740	8.8	96241485	HP14000XRK
HIPAK LED IP43 14000 HFI-X E3 RK L740	9.2	96241486	HP14000XERK
HIPAK LED IP43 13000 HFI-X RK L840	8.8	96551777	HP13000XRK
HIPAK LED IP43 13000 HFI-X E3 RK L840	9.2	96551778	HP13000XERK
HiPak Pro LED with rack optic and sensor			
HIPAK LED IP20 14000 HFIS-X RK L740	9.3	96241487	HP14000XSrk
HIPAK LED IP20 14000 HFIS-X E3 RK L740	9.7	96241488	HP14000XSERK
HIPAK LED IP20 13000 HFIS-X RK L840	9.3	96551779	HP13000XSrk
HIPAK LED IP20 13000 HFIS-X E3 RK L840	9.7	96551780	HP13000XSERK
HiPak Pro LED with wide optic			
HIPAK LED IP43 14000 HFI-X WD L740	8.8	96241489	HP14000XWD
HIPAK LED IP43 14000 HFI-X E3 WD L740	9.2	96241490	HP14000XEWD
HIPAK LED IP43 13000 HFI-X WD L840	8.8	96551781	HP13000XWD
HIPAK LED IP43 13000 HFI-X E3 WD L840	9.2	96551782	HP13000XEWD
HiPak Pro LED with wide optic and sensor			
HIPAK LED IP20 14000 HFIS-X WD L740	9.3	96241491	HP14000XSWD
HIPAK LED IP20 14000 HFIS-X E3 WD L740	9.7	96241492	HP14000XSSEWD
HIPAK LED IP20 13000 HFIS-X WD L840	9.3	96551783	HP13000XSWD
HIPAK LED IP20 13000 HFIS-X E3 WD L840	9.7	96551784	HP13000XSSEWD
HiPak Pro LED IP66 with rack optic			
HIPAK LED IP66 13500 HF ML RK L740	13.9	96241929	HP13500ZRKIP66
HIPAK LED IP66 13500 HF ML E3 RK L740	14.3	96241930	HP13500ZERKIP66
HIPAK LED IP66 13500 HFI-X ML RK L740	13.9	96241493	HP13500XRKIP66
HIPAK LED IP66 13500 HFI-X ML E3 RK L740	14.3	96241494	HP13500XERKIP66
HIPAK LED IP66 12500 HF ML RK L840	13.9	96551789	HP12500ZRKIP66
HIPAK LED IP66 12500 HF ML E3 RK L840	14.3	96551790	HP12500ZERKIP66
HIPAK LED IP66 12500 HFI-X ML RK L840	13.9	96551785	HP12500XRKIP66
HIPAK LED IP66 12500 HFI-X ML E3 RK L840	14.3	96551786	HP12500XERKIP66
HiPak Pro LED IP66 with wide optic			
HIPAK LED IP66 13500 HF ML WD L740	13.9	96241931	HP13500ZWDIP66
HIPAK LED IP66 13500 HF ML E3 WD L740	14.3	96241932	HP13500ZEWDIP66
HIPAK LED IP66 13500 HFI-X ML WD L740	13.9	96241495	HP13500XWDIP66
HIPAK LED IP66 13500 HFI-X ML E3 WD L740	14.3	96241496	HP13500XEWDIP66
HIPAK LED IP66 12500 HF ML WD L840	13.9	96551791	HP12500ZWDIP66
HIPAK LED IP66 12500 HF ML E3 WD L840	14.3	96551792	HP12500ZEWDIP66
HIPAK LED IP66 12500 HFI-X ML WD L840	13.9	96551787	HP12500XWDIP66
HIPAK LED IP66 12500 HFI-X ML E3 WD L840	14.3	96551788	HP12500XEWDIP66

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.

Description	Wt (kg)	SAP Code	Cat. No.
HiPak Pro LED High Temperature versions			
HIPAK LED IP43 HT 10000 HFI-X RK L740	13.9	96551062	HP10000XRKHT
HIPAK LED IP43 HT 10000 HFI-X WD L740	13.9	96551063	HP10000XWDHT
HIPAK LED IP43 HT 9300 HFI-X RK L840	13.9	96551775	HP9300XRKHT
HIPAK LED IP43 HT 9300 HFI-X WD L840	13.9	96551776	HP9300XWDHT
HIPAK LED IP66 9700 HFI-X HT ML RK L740	13.9	96241933	HP9700XRKIP66HT
HIPAK LED IP66 9700 HFI-X HT ML WD L740	13.9	96241934	HP9700XWDIP66HT
HIPAK LED IP66 HT 9000 HFI-X ML RK L840	13.9	96551773	HP9000XRKIP66HT
HIPAK LED IP66 HT 9000 HFI-X ML WD L840	13.9	96551774	HP9000XWDIP66HT
HiPak Pro LED Accessories			
HIPAK LED BRA	0.40	96241497	HPBRA
HIPAK PRO KIT FIX BRA JOINT	0.90	96241508	HPBRJT
HIPAK PRO KIT FIX MCA	0.20	96241515	HPMCA
HIPAK PRO KIT FIX/CH	0.20	96241507	HPCH



Hi-Rack



www.thornlighting.co.uk/HIRK

A range of fluorescent luminaires with 'area' or 'rack' reflectors for interior spaces with high ceilings



- Optional integral sensor maximises energy savings compared to traditional HID hi-bays
- Quick and simple installation - external direct wiring access removes the need to dismantle the luminaire
- High output emergency solutions enable higher mounting heights, with better spacings, to be achieved
- Plastic cover versions available

Materials/Finish

Housing: white steel with polycarbonate end caps
 Reflector: high grade aluminium, wide optic - Satinbrite, rack optic - Mirrorbrite
 Attachment cover: UV stable polycarbonate

Installation/Mounting

Mounting kits to be ordered separately. Please note, a 100mm gap must be left between the top of the luminaire and any surface. For wire suspension, accessory kit 96535236 slides directly on to the back of the body and can be easily adjusted. Accessory kit 96535235 allows trunking mounting via 20mm holes or rod mounting via 10mm holes. For canalis trunking system mounting accessory 96239583 can be used via M6 screw fixings.

A 2.5mm² piano key terminal block is accessed externally via a hinged lid (Isodom).

Integral sensor versions come factory pre-set as follows (off time delay - 10 minutes, after off time delay lights stay on at 10% for 3 hours then turn off, daylight linking deactivated) can be mounted up to 16m. Coverage is on a 1:1 ratio ie at 16m height, the detectors footprint is a 16m diameter circle. Hand held programmer (96102983 SENSALINK SENLP) can be used from the floor to customise sensor settings.

Specification

To specify state:
 A high bay luminaire supplied with fluorescent T16/T5 (49/80 or 120W) linear lamps, curved body with plastic end caps, wide or rack reflector optics. Isodom connector. Pre-installed factory set sensor, electronic gear, high output emergency.
 As Thorn Hi-Rack

Ordering Guide

Supplied complete with lamps. For complete fitting order luminaire, mounting kit and optional attachment.

Description	SAP Code	Cat. No.
Hi-Rack Wide optic		
HI-RACK 4X49W HF WD L840	96535219	HR449ZWD
HI-RACK 4X49W HF WD L840 PC COVER	96239959	HR449ZWDPC
HI-RACK 4X80W HF WD L840	96535227	HR480ZWD
HI-RACK 4X80W HF WD L840 PC COVER	96239967	HR480ZWDPC
HI-RACK 4X120W HF WD L840	96239338	HR4120ZWD
Hi-Rack Wide optic, dimmable		
HI-RACK 4X49W HFI WD L840	96549193	HR449DWD
HI-RACK 4X49W HFI WD L840 PC COVER	96549194	HR449DWDPC
HI-RACK 4X80W HFI WD L840	96549215	HR480DWD
HI-RACK 4X80W HFI WD L840 PC COVER	96549216	HR480DWDPC
Hi-Rack Wide optic, dimmable with sensor		
HI-RACK 4X49W HFSI WD L840	96549205	HR449DSWD
HI-RACK 4X49W HFSI WD L840 PC COVER	96549206	HR449DSWDPC
HI-RACK 4X80W HFSI WD L840	96549225	HR480DSWD
HI-RACK 4X80W HFSI WD L840 PC COVER	96549226	HR480DSWDPC
Hi-Rack Wide optic, emergency		
HI-RACK 4X49W HF E3 WD L840	96535220	HR449ZEWD
HI-RACK 4X49W HF E3 WD L840 PC COVER	96239960	HR449ZEWDPC
HI-RACK 4X49W HF E3HO WD L840	96535240	HR449ZEHW
HI-RACK 4X49W HF E3HO WD L840 PC COVER	96239973	HR449ZEHWPC
HI-RACK 4X80W HF E3 WD L840	96535228	HR480ZEWD
HI-RACK 4X80W HF E3 WD L840 PC COVER	96239968	HR480ZEWDPC
HI-RACK 4X80W HF E3HO WD L840	96535241	HR480ZEHW
Hi-Rack Wide optic, dimmable, emergency		
HI-RACK 4X49W HFI E3 WD L840	96549185	HR449DEWD
HI-RACK 4X49W HFI E3 WD L840 PC COVER	96549186	HR449DEWDPC
HI-RACK 4X49W HFI E3HO WD L840	96549189	HR449DEHW
HI-RACK 4X49W HFI E3HO WD L840 PC COVER	96549190	HR449DEHWPC
HI-RACK 4X80W HFI E3 WD L840	96549209	HR480DEWD
HI-RACK 4X80W HFI E3 WD L840 PC COVER	96549210	HR480DEWDPC
HI-RACK 4X80W HFI E3HO WD L840	96549212	HR480DEHW

**Lamps**

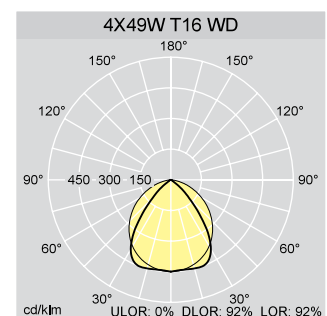
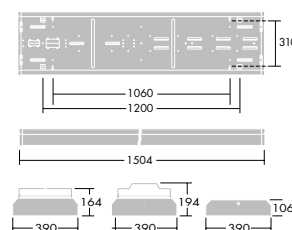
T5 (FDH) G5 49-120W

Standards

Description	SAP Code	Cat. No.
Hi-Rack Wide optic, dimmable with sensor, emergency		
HI-RACK 4X49W HFSI E3 WD L840	96549197	HR449DSEWD
HI-RACK 4X49W HFSI E3 WD L840 PC COVER	96549198	HR449DSEWDPC
HI-RACK 4X49W HFSI E3HO WD L840	96549201	HR449DSEHWD
HI-RACK 4X49W HFSI E3HO WD L840 PC COVER	96549202	HR449DSEHWDPC
HI-RACK 4X80W HFSI E3 WD L840	96549219	HR480DSEWD
HI-RACK 4X80W HFSI E3 WD L840 PC COVER	96549220	HR480DSEWDPC
HI-RACK 4X80W HFSI E3HO WD L840	96549222	HR480DSEHWD
Hi-Rack Rack optic		
HI-RACK 4X49W HF RK L840	96535203	HR449ZRK
HI-RACK 4X49W HF RK L840 PC COVER	96239945	HR449ZRKPC
HI-RACK 4X80W HF RK L840	96535211	HR480ZRK
HI-RACK 4X80W HF RK L840 PC COVER	96239953	HR480ZRKPC
HI-RACK 4X120W HF RK L840	96239335	HR4120ZRK
Hi-Rack Rack optic, dimmable		
HI-RACK 4X49W HFI RK L840	96549191	HR449DRK
HI-RACK 4X49W HFI RK L840 PC COVER	96549192	HR449DRKPC
HI-RACK 4X80W HFI RK L840	96549213	HR480DRK
HI-RACK 4X80W HFI RK L840 PC COVER	96549214	HR480DRKPC
Hi-Rack Rack optic, dimmable with sensor		
HI-RACK 4X49W HFSI RK L840	96549203	HR449DSRK
HI-RACK 4X49W HFSI RK L840 PC COVER	96549204	HR449DSRKPC
HI-RACK 4X80W HFSI RK L840	96549223	HR480DSRK
HI-RACK 4X80W HFSI RK L840 PC COVER	96549224	HR480DSRKPC
Hi-Rack Rack optic, emergency		
HI-RACK 4X49W HF E3 RK L840	96535204	HR449ZERK
HI-RACK 4X49W HF E3 RK L840 PC COVER	96239946	HR449ZERKPC
HI-RACK 4X49W HF E3HO RK L840	96535238	HR449ZEHRK
HI-RACK 4X49W HF E3HO RK L840 PC COVER	96239972	HR449ZEHRKPC
HI-RACK 4X80W HF E3 RK L840	96535212	HR480ZERK
HI-RACK 4X80W HF E3 RK L840 PC COVER	96239954	HR480ZERKPC
HI-RACK 4X80W HF E3HO RK L840	96535239	HR480ZEHRK
Hi-Rack Rack optic, dimmable, emergency		
HI-RACK 4X49W HFI E3 RK L840	96549183	HR449DERK
HI-RACK 4X49W HFI E3 RK L840 PC COVER	96549184	HR449DERKPC
HI-RACK 4X49W HFI E3HO RK L840	96549187	HR449DEHRK
HI-RACK 4X49W HFI E3HO RK L840 PC COVER	96549188	HR449DEHRKPC
HI-RACK 4X80W HFI E3 RK L840	96549207	HR480DERK
HI-RACK 4X80W HFI E3 RK L840 PC COVER	96549208	HR480DERKPC
HI-RACK 4X80W HFI E3HO RK L840	96549211	HR480DEHRK

Description	SAP Code	Cat. No.
Hi-Rack Rack optic, dimmable with sensor, emergency		
HI-RACK 4X49W HFSI E3 RK L840	96549195	HR449DSERK
HI-RACK 4X49W HFSI E3 RK L840 PC COVER	96549196	HR449DSERKPC
HI-RACK 4X49W HFSI E3HO RK L840	96549199	HR449DSEHRK
HI-RACK 4X49W HFSI E3HO RK L840 PC COVER	96549200	HR449DSEHRKPC
HI-RACK 4X80W HFSI E3 RK L840	96549217	HR480DSERK
HI-RACK 4X80W HFSI E3 RK L840 PC COVER	96549218	HR480DSERKPC
HI-RACK 4X80W HFSI E3HO RK L840	96549221	HR480DSEHRK
Hi-Rack Accessories		
HI-RACK KIT FIX BRA	96535235	HRBRFK
HI-RACK KIT FIX BRA 2	96239583	HRBRFK2
HI-RACK KIT MSW	96535236	HRMSWK

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A dedicated T16 (T5) luminaire designed to meet the higher demands of industrial applications



- Robust steel body ensures mechanical strength for challenging environments
- Mounting brackets allow stepless tilting up to 50°
- Heavy duty industrial ballast versions for reliable longer life operation
- Four long toggles ensure consistent IP65 gasket seal

Materials/Finish

Body: matt grey powder painted galvanised steel (close to RAL 7004)
 Reflector: high quality aluminium, Miro treated
 Protective glass: 4mm toughened glass with EPDM gasket
 Halogen free internal wiring

Installation/Mounting

Surface mounted or mounted on catenary wire. Mounting brackets included which allow tilting up to 50 degrees without rotational torque. The centre of gravity is positioned directly below the fastening point. For catenary suspension fastening separate accessories should be ordered.

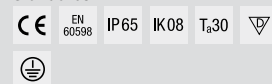
Electrical connection: Through wiring version with 5x 2x2.5mm² terminal blocks at each end. IP67 grommets supplied, accepting 10 to 14mm cable.

Specification

To specify state: Dedicated IP65 industrial luminaire for T16 (T5) linear fluorescent lamps, for surface or suspended mounting with brackets which allow tilting up to 50 degrees without rotational torque. As Thorn Titus Industry.

**Lamps**

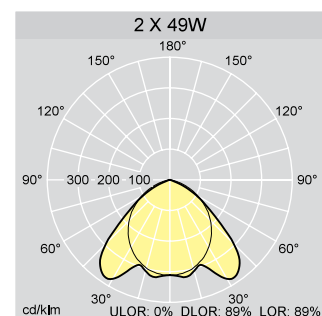
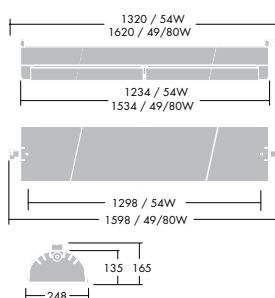
	T5-I (FDH)	G5	80W
	T5 (FDH)	G5	49-80W

Standards**Ordering Guide**

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Titus Industry High frequency			
TITUS INDUSTRY 1X49W TW L840	11.60	96547416	TTI149Z
TITUS INDUSTRY 1X49W TW AS L840	11.60	96547417	TTI149ZAS
TITUS INDUSTRY 1X54W TW L840	10.40	96547418	TTI154Z
TITUS INDUSTRY 1X54W TW AS L840	10.40	96547419	TTI154ZAS
TITUS INDUSTRY 2X49W TW L840	11.90	96547420	TTI249Z
TITUS INDUSTRY 2X49W TW AS L840	11.90	96547421	TTI249ZAS
TITUS INDUSTRY 3X49W TW L840	12.20	96547424	TTI349Z
TITUS INDUSTRY 4X49W TW L840	12.30	96547431	TTI449Z
TITUS INDUSTRY 2X54W TW L840	10.70	96547422	TTI254Z
TITUS INDUSTRY 2X54W TW AS L840	10.70	96547423	TTI254ZAS
TITUS INDUSTRY 3X54W TW L840	10.80	96547425	TTI354Z
TITUS INDUSTRY 4X54W TW L840	10.90	96547434	TTI454Z
TITUS INDUSTRY 3X80W TW L840	12.20	96547428	TTI380Z
Titus Industry Industrial high frequency			
TITUS INDUSTRY 4X49W IHF TW L840	13.50	96547430	TTI449ZI
TITUS INDUSTRY 4X54W IHF TW L840	10.90	96547433	TTI454ZI
TITUS INDUSTRY 3X80W IHF TW L840	12.40	96547427	TTI380ZI
TITUS INDUSTRY 4X80W IHF TW L840	13.50	96547435	TTI480ZI
Titus Industry High frequency, dimmable			
TITUS INDUSTRY 4X49W HFI TW L840		96550499	TTI449D
TITUS INDUSTRY 4X54W HFI TW L840		96550500	TTI454D
TITUS INDUSTRY 3X80W HFI TW L840		96550498	TTI380D
Titus Industry High frequency, emergency			
TITUS INDUSTRY 2X49W E3 L840	12.50	96547436	TTI249ZE
Titus Industry Attachments			
TITUS LOUVRE 28W/54W DSB	0.001	96010224	TTI28/54LVD
TITUS LOUVRE 28W/54W PSB	0.85	96010222	TTI28/54LVP
TITUS LOUVRE 35W/49W PSB	0.95	96010223	TTI35/49LVP
TITUS LOUVRE B 35W/49W DSB	0.001	96010225	TTI35/49LVD
Titus Industry Mechanical Attachment & Accessory			
WIRE SUSPENSION CLIP KIT TYPE 2	0.07	96010220	TTIWSK

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NEW

ImpactForce II



www.thornlighting.co.uk/IMPF

A high performance impact resistant, IP65 proof fluorescent range



- Unique shape and flush toggle design promotes easy cleaning
- For quick and easy maintenance, gear tray simply hangs from internal clips
- Vandal resistant
- Certified for use in food processing plants from a hygiene point of view (HACCP/IFS/BRC Standard)

Materials/Finish

Canopy: glass-fibre reinforced polyester
 Diffuser: polycarbonate with linear prisms
 Gasket: expanded polyurethane
 Toggles: stainless steel
 Gear tray: steel, white enamelled finish

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Supplied with IP65 grommet. Stainless steel quick-fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance, and steel gear tray is retained by spring latches. BESA box and conduit mounting, chain suspension and catenary suspension kits, plus through wire kits are all available as accessories. LED version: through wiring end to end is not possible but looping in and out at one end is acceptable. LSOH cabling as standard. Suitable for all indoor plus external 'under cover only' applications

Specification

To specify state:
 High performance, IP65, dust and moisture proof impact resistant luminaire with GRP canopy, polycarbonate diffuser and stainless steel toggles, 18-70W T26 (T8) / 28-80W T16 (T5) linear fluorescent lamps, LEDs, high frequency, digital dimming and emergency options. As Thorn ImpactForce II.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
ImpactForce II LED			
IMPACTF2 LED 4260 HFI L840	3.17	96241738	IF4260D
ImpactForce II T16			
IMPACTF2 1X28W T16 HF L840	1.88	96234391	IF128Z
IMPACTF2 1X35W T16 HF L840	2.40	92900034	IF135Z
IMPACTF2 1X49W T16 HF L840	2.26	96234415	IF149Z
IMPACTF2 1X54W T16 HF L840	1.88	96234427	IF154Z
IMPACTF2 1X80W T16 HF L840	2.26	96234431	IF180Z
IMPACTF2 2X28W T16 HF L840	2.62	96234435	IF228Z
IMPACTF2 2X35W T16 HF L840	3.17	96234447	IF235Z
IMPACTF2 2X49W T16 HF L840	3.17	96234459	IF249Z
ImpactForce II T16 presence detector			
IMPACTF2 1X35W T16 MWS L840	2.30	96240171	IF135ZS
IMPACTF2 1X49W T16 MWS L840	2.30	96240179	IF149ZS
IMPACTF2 2X35W T16 MWS L840	3.20	96240175	IF235ZS
IMPACTF2 2X49W T16 MWS L840	3.20	96240183	IF249ZS
ImpactForce II T16 emergency			
IMPACTF2 1X28W T16 HF E3 L840	2.63	96234395	IF128ZE
IMPACTF2 1X35W T16 HF E3 L840	3.01	96234407	IF135ZE
IMPACTF2 1X49W T16 HF E3 L840	3.01	96234419	IF149ZE
IMPACTF2 2X28W T16 HF E3 L840	3.37	96234439	IF228ZE
IMPACTF2 2X35W T16 HF E3 L840	3.92	96234451	IF235ZE
IMPACTF2 2X49W T16 HF E3 L840	3.92	96234463	IF249ZE
ImpactForce II T16 presence detector, emergency			
IMPACTF2 1X35W T16 MWS E3 L840	3.10	96240173	IF135ZSE
IMPACTF2 1X49W T16 MWS E3 L840	3.10	96240181	IF149ZSE
IMPACTF2 2X35W T16 MWS E3 L840	4.00	96240177	IF235ZSE
IMPACTF2 2X49W T16 MWS E3 L840	4.00	96240185	IF249ZSE
ImpactForce II T16 through-wire			
IMPACTF2 1X28W T16 HF TW L840	2.00	92900033	IF128ZTW
IMPACTF2 1X35W T16 HF TW L840	2.30	92900035	IF135ZTW
IMPACTF2 1X49W T16 HF TW L840	2.30	92900036	IF149ZTW
IMPACTF2 1X80W T16 HF TW L840	2.30	92900037	IF180ZTW
IMPACTF2 2X28W T16 HF TW L840	3.25	92900038	IF228ZTW
IMPACTF2 2X35W T16 HF TW L840	3.90	92900039	IF235ZTW
IMPACTF2 2X49W T16 HF TW L840	2.80	92900040	IF249ZTW

**Lamps**

	LED		47W
	T5 (FDH)	G5	28-80W
	T8 (FD)	G13	18-70W

Standards

T _a 25	850 °C			

Description	Wt (kg)	SAP Code	Cat. No.
ImpactForce II T16 dimmable			
IMPACTF2 1X28W T16 HFI L840	1.88	96240393	IF128D
IMPACTF2 1X35W T16 HFI L840	2.26	96240403	IF135D
IMPACTF2 1X49W T16 HFI L840	2.26	96240413	IF149D
IMPACTF2 1X54W T16 HFI L840	1.88	96240421	IF154D
IMPACTF2 1X80W T16 HFI L840	2.26	96240424	IF180D
IMPACTF2 2X28W T16 HFI L840	2.62	96240436	IF228D
IMPACTF2 2X35W T16 HFI L840	3.17	96240448	IF235D
IMPACTF2 2X49W T16 HFI L840	3.17	96240459	IF249D
ImpactForce II T16 dimmable, presence detector			
IMPACTF2 1X35W T16 HFI MWS-CF L840	3.90	96240172	IF135DC
IMPACTF2 1X49W T16 HFI MWS-CF L840	3.70	96240180	IF149DC
IMPACTF2 2X35W T16 HFI MWS-CF L840	4.81	96240176	IF235DC
IMPACTF2 2X49W T16 HFI MWS-CF L840	4.12	96240184	IF249DC
ImpactForce II T16 dimmable, emergency			
IMPACTF2 1X28W T16 HFI E3 L840	2.63	96240390	IF128DE
IMPACTF2 1X35W T16 HFI E3 L840	3.01	96240400	IF135DE
IMPACTF2 1X49W T16 HFI E3 L840	3.01	96240410	IF149DE
IMPACTF2 2X28W T16 HFI E3 L840	3.37	96240434	IF228DE
IMPACTF2 2X35W T16 HFI E3 L840	3.92	96240445	IF235DE
IMPACTF2 2X49W T16 HFI E3 L840	3.92	96240456	IF249DE
ImpactForce II T16 dimmable, presence detector, emergency			
IMPACTF2 1X35W T16 MWS-CF E3 L840		96240174	IF135DCE
IMPACTF2 1X49W T16 MWS-CF E3 L840	3.92	96240182	IF149DCE
IMPACTF2 2X35W T16 HFI MWS-CF E3 L840	5.03	96240178	IF235DCE
IMPACTF2 2X49W T16 HFI MWS-CF E3 L840	3.70	96240186	IF249DCE
ImpactForce II T16 dimmable, through-wire			
IMPACTF2 1X28W T16 HFI TW L840	1.88	96240396	IF128DTW
IMPACTF2 1X35W T16 HFI TW L840	2.26	96240406	IF135DTW
IMPACTF2 1X49W T16 HFI TW L840	2.26	96240416	IF149DTW
IMPACTF2 1X80W T16 HFI TW L840	2.26	96240427	IF180DTW
IMPACTF2 2X28W T16 HFI TW L840	2.62	96240439	IF228DTW
IMPACTF2 2X35W T16 HFI TW L840	3.17	96240450	IF235DTW
IMPACTF2 2X49W T16 HFI TW L840	3.17	96240462	IF249DTW

Description	Wt (kg)	SAP Code	Cat. No.
ImpactForce II T26			
IMPACTF2 1X18W T26 HF L840	0.90	92900019	IF118Z
IMPACTF2 1X36W T26 HF L840	2.65	96234305	IF136Z
IMPACTF2 1X58W T26 HF L840	3.33	96234335	IF158Z
IMPACTF2 1X70W T26 HF L840	4.16	96234349	IF170Z
IMPACTF2 2X18W T26 HF L840	1.60	92900029	IF218Z
IMPACTF2 2X36W T26 HF L840	3.49	96234357	IF236Z
IMPACTF2 2X58W T26 HF L840	3.63	96234371	IF258Z
IMPACTF2 2X70W T26 HF L840	4.19	96234385	IF270Z
ImpactForce II T26 emergency			
IMPACTF2 1X36W T26 HF E3 L840	3.40	96234325	IF136ZE
IMPACTF2 1X58W T26 HF E3 L840	4.08	96234339	IF158ZE
IMPACTF2 1X70W T26 HF E3 L840	4.91	96234351	IF170ZE
IMPACTF2 2X36W T26 HF E3 L840	4.24	96234361	IF236ZE
IMPACTF2 2X58W T26 HF E3 L840	4.38	96234375	IF258ZE
IMPACTF2 2X70W T26 HF E3 L840	4.94	96234387	IF270ZE
ImpactForce II T26 through-wire			
IMPACTF2 1X36W T26 HF TW L840	2.65	92900026	IF136ZTW
IMPACTF2 1X58W T26HF TW L840	3.33	92900027	IF158ZTW
IMPACTF2 1X70W T26 HF TW L840	3.38	92900028	IF170ZTW
IMPACTF2 2X36W T26 HF TW L840	3.49	92900030	IF236ZTW
IMPACTF2 2X58W T26 HF TW L840	3.63	92900031	IF258ZTW
IMPACTF2 2X70W T26 HF TW L840	4.50	92900032	IF270ZTW
ImpactForce II T26 dimmable			
IMPACTF2 1X18W T26 HFI L840	0.90	96240385	IF118D
IMPACTF2 1X36W T26 HFD L840	2.65	96234307	IF136D
IMPACTF2 1X58W T26 HFD L840	3.33	96234337	IF158D
IMPACTF2 2X18W T26 HFI L840	1.60	96240430	IF218D
IMPACTF2 2X36W T26 HFD L840	3.49	96234359	IF236D
IMPACTF2 2X58W T26 HFD L840	3.63	96234373	IF258D
ImpactForce II T26 dimmable, emergency			
IMPACTF2 1X36W T26 HFD E3 L840	3.40	96234327	IF136DE
IMPACTF2 1X58W T26 HFD E3 L840	4.08	96234341	IF158DE
IMPACTF2 2X36W T26 HFD E3 L840	4.24	96234363	IF236DE
IMPACTF2 2X58W T26 HFD E3 L840	4.38	96234377	IF258DE

NEW

ImpactForce II



www.thornlighting.co.uk/IMPF

A high performance impact resistant, IP65 proof fluorescent range

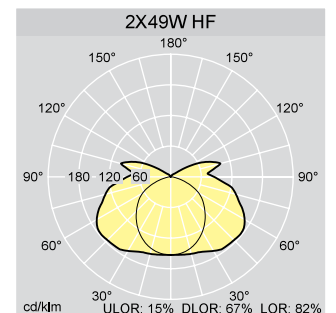
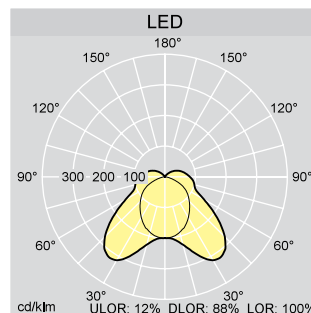
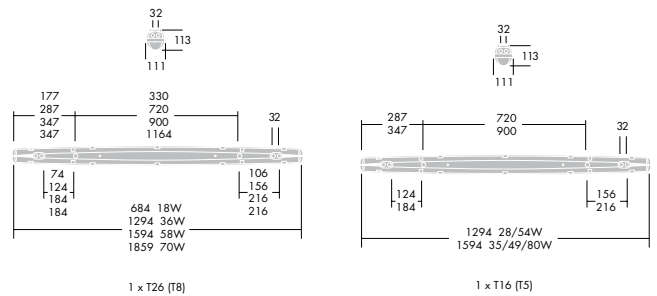
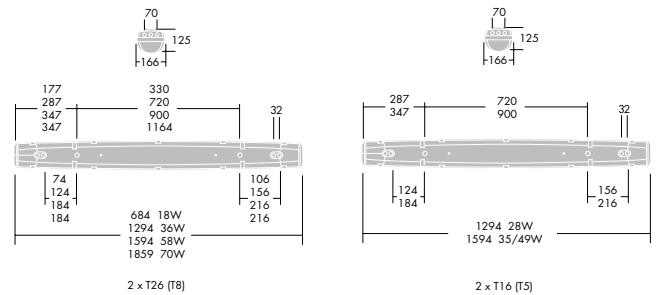
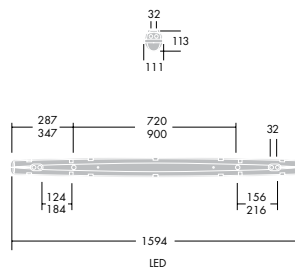
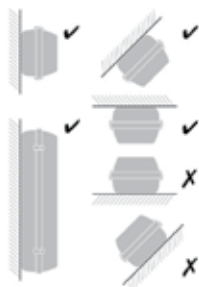


Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
ImpactForce II T26 dimmable, through-wire			
IMPACTF2 1X36W T26 HFD TW L840	2.65	92900076	IF136DTW
IMPACTF2 1X58W T26 HFD TW L840	3.33	92900077	IF158DTW
IMPACTF2 2X36W T26 HFD TW L840	3.49	92900079	IF236DTW
IMPACTF2 2X58W T26 HFD TW L840	3.63	92900080	IF258DTW
ImpactForce II Accessories			
FORCE2 28/36 PC CLIP KIT	0.04	96503160	AQPTG1
FORCE2 28/36 RS CLIP KIT	0.05	96503157	AQSSTG1
FORCE2 28/36 TW KIT HGF	2.00	96503163	AQTW1
FORCE2 35/49/58 PC CLIP KIT	0.05	96503161	AQPTG2
FORCE2 35/49/58 RS CLIP KIT	0.06	96503158	AQSSTG2
FORCE2 35/49/58 TW KIT HGF	2.00	96503164	AQTW2
FORCE2 70 PC CLIP KIT	0.06	96503162	AQPTG3
FORCE2 70 RS CLIP KIT	0.07	96503159	AQSSTG3
FORCE2 70 TW KIT HGF	2.00	96503165	AQTW3
FORCE2 BESA KIT	0.53	96503168	AQBESA
FORCE2 FIX KIT	0.02	96503166	AQQFB
FORCE2 FIX/CH KIT	0.02	96503167	AQCHS
FORCE2 MCA KIT	0.10	96233817	AQCAT
FORCE2 MRS KIT	0.06	96503169	AQCOND
FORCE2 R 1X28/36/54	0.52	96235134	AQLUR128/136
FORCE2 R 1X35/49/58/80	0.15	96235135	AQLUR135/158
FORCE2 R 2X28/36	0.25	96235136	AQLUR228/236
FORCE2 R 2X35/49/58	0.65	96235137	AQLUR235/258

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NEW

CorrosionForce II



www.thornlighting.co.uk/CORR

A corrosion resistant IP65 proof fluorescent range for use in all atmospheres laden with salts acids and mineral oils



Lamps

LED		47W
T5 (FDH)	G5	28-80W
T8 (FD)	G13	18-70W

Standards

CE	EN 60598	IP65	IK02	IK03
850 °C				

- Good resistance to chemicals and corrosion (polycarbonate free)
- Unique shape and flush toggle design promotes easy cleaning
- For quick and easy maintenance, gear tray simply hangs from internal clips
- Certified for use in food processing plants from a hygiene point of view (HACCP/IFS/BRC Standard)

Materials/Finish

Canopy: glass-fibre reinforced polyester
Diffuser: PMMA with linear prisms
Gasket: expanded polyurethane
Toggles: stainless steel
Gear tray: steel, white enamelled finish

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Supplied with IP65 grommet. Stainless steel quick-fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance, and steel gear tray is retained by finger operated spring latches. BESA box and conduit mounting, chain suspension and catenary suspension kits, plus through wire kits are all available. LED version: through wiring end to end is not possible but looping in and out at one end is acceptable. LSOH cabling as standard. Suitable for all indoor plus 'under cover only' applications.

Specification

To specify state:
High performance, IP65, dust and moisture proof corrosion resistant luminaire with GRP canopy, PMMA diffuser and stainless steel toggles, 18-70W T26 (T8) / 28-80W T16 (T5) linear fluorescent lamps, LEDs, high frequency, digital dimming and emergency options.
As Thorn CorrosionForce II.

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
CorrosionForce II LED			
CORRF2 LED 4260 HFI L840	1.96	96241739	CF4260D
CorrosionForce II T16			
CORRF2 1X28W T16 HF L840	1.88	96234543	CF128Z
CORRF2 1X35W T16 HF L840	2.26	96234555	CF135Z
CORRF2 1X49W T16 HF L840	2.26	96234567	CF149Z
CORRF2 1X54W T16 HF L840	1.88	96234579	CF154Z
CORRF2 1X80W T16 HF L840	2.26	96234583	CF180Z
CORRF2 2X28W T16 HF L840	1.88	96234587	CF228Z
CORRF2 2X35W T16 HF L840	2.26	96234599	CF235Z
CORRF2 2X49W T16 HF L840	2.26	96234611	CF249Z
CorrosionForce II T16 emergency			
CORRF2 1X28W T16 HF E3 L840	2.65	96234547	CF128ZE
CORRF2 1X35W T16 HF E3 L840	3.01	96234559	CF135ZE
CORRF2 1X49W T16 HF E3 L840	3.01	96234571	CF149ZE
CORRF2 2X28W T16 HF E3 L840	2.65	96234591	CF228ZE
CORRF2 2X35W T16 HF E3 L840	3.01	96234603	CF235ZE
CORRF2 2X49W T16 HF E3 L840	3.01	96234615	CF249ZE
CorrosionForce II T16 through-wire			
CORRF2 1X28W T16 HF TW L840	1.90	92900059	CF128ZTW
CORRF2 1X35W T16 HF TW L840	2.30	92900060	CF135ZTW
CORRF2 1X49W T16 HF TW L840	2.30	92900061	CF149ZTW
CORRF2 1X80W T16 HF TW L840	2.30	92900062	CF180ZTW
CORRF2 2X28W T16 HF TW L840	2.70	92900063	CF228ZTW
CORRF2 2X35W T16 HF TW L840	3.20	92900064	CF235ZTW
CORRF2 2X49W T16 HF TW L840	3.20	92900065	CF249ZTW
CorrosionForce II T16 dimmable			
CORRF2 1X28W T16 HFI L840	1.90	96240463	CF128D
CORRF2 1X35W T16 HFI L840	2.30	96240470	CF135D
CORRF2 1X49W T16 HFI L840	2.30	96240477	CF149D
CORRF2 1X54W T16 HFI L840	1.90	96240487	CF154D
CORRF2 1X80W T16 HFI L840	2.30	96240492	CF180D
CORRF2 2X28W T16 HFI L840	2.60	96240510	CF228D
CORRF2 2X35W T16 HFI L840	3.20	96240515	CF235D
CORRF2 2X49W T16 HFI L840	3.20	96240503	CF249D

INDOOR LIGHTING

INDUSTRIAL LUMINAIRES

NEW

CorrosionForce II



www.thornlighting.co.uk/CORR

A corrosion resistant IP65 proof fluorescent range for use in all atmospheres laden with salts acids and mineral oils



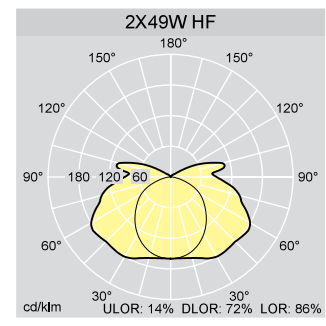
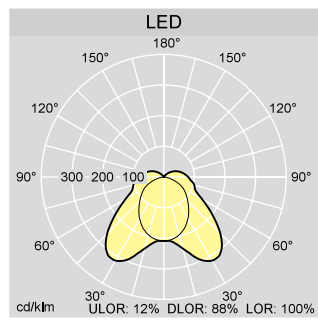
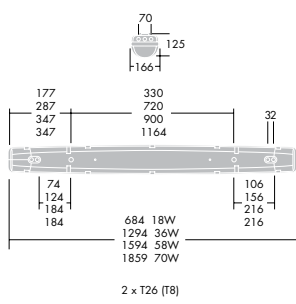
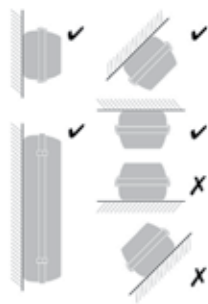
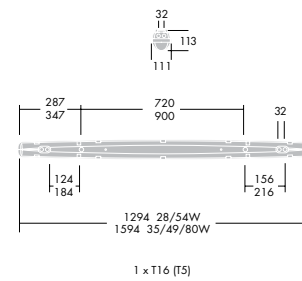
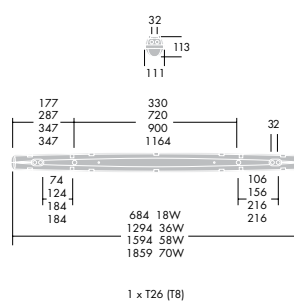
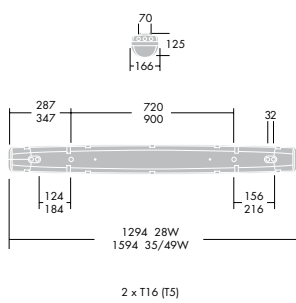
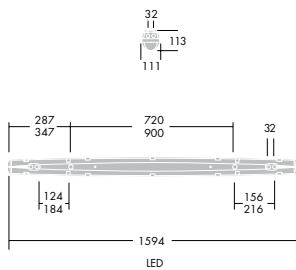
Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
CorrosionForce II T16 dimmable, emergency			
CORRF2 1X28W T16 HFI E3 L840	2.65	96240458	CF128DE
CORRF2 1X35W T16 HFI E3 L840	3.01	96240468	CF135DE
CORRF2 1X49W T16 HFI E3 L840	3.01	96240474	CF149DE
CORRF2 2X28W T16 HFI E3 L840	3.35	96240506	CF228DE
CORRF2 2X35W T16 HFI E3 L840	3.90	96240518	CF235DE
CORRF2 2X49W T16 HFI E3 L840	3.90	96240507	CF249DE
CorrosionForce II T16 dimmable, through-wire			
CORRF2 1X28W T16 HFI TW L840	2.00	96240466	CF128DTW
CORRF2 1X35W T16 HFI TW L840	2.40	96240472	CF135DTW
CORRF2 1X49W T16 HFI TW L840	2.40	96240482	CF149DTW
CORRF2 1X80W T16 HFI TW L840	2.40	96240497	CF180DTW
CORRF2 2X28W T16 HFI TW L840	2.70	96240514	CF228DTW
CORRF2 2X35W T16 HFI TW L840	3.30	96240511	CF235DTW
CORRF2 2X49W T16 HFI TW L840	3.30	96240500	CF249DTW
CorrosionForce II T26			
CORRF2 1X18W T26 HF L840	0.90	92900051	CF118Z
CORRF2 1X36W T26 HF L840	1.90	96234473	CF136Z
CORRF2 1X58W T26 HF L840	2.58	96234487	CF158Z
CORRF2 1X70W T26 HF L840	3.41	96234501	CF170Z
CORRF2 2X18W T26 HF L840	1.60	92900055	CF218Z
CORRF2 2X36W T26 HF L840	1.90	96234509	CF236Z
CORRF2 2X58W T26 HF L840	2.58	96234523	CF258Z
CORRF2 2X70W T26 HF L840	3.41	96234537	CF270Z
CorrosionForce II T26 emergency			
CORRF2 1X36W T26 HF E3 L840	2.65	96234477	CF136ZE
CORRF2 1X58W T26 HF E3 L840	3.33	96234491	CF158ZE
CORRF2 1X70W T26 HF E3 L840	4.17	96234503	CF170ZE
CORRF2 2X36W T26 HF E3 L840	2.65	96234513	CF236ZE
CORRF2 2X58W T26 HF E3 L840	3.33	96234527	CF258ZE
CORRF2 2X70W T26 HF E3 L840	4.17	96234539	CF270ZE
CorrosionForce II T26 through-wire			
CORRF2 1X36W T26 HF TW L840	1.90	92900052	CF136ZTW
CORRF2 1X58W T26 HF TW L840	2.60	92900053	CF158ZTW
CORRF2 1X70W T26 HF TW L840	3.40	92900054	CF170ZTW
CORRF2 2X36W T26 HF TW L840	3.50	92900056	CF236ZTW
CORRF2 2X58W T26 HF TW L840	3.90	92900057	CF258ZTW
CORRF2 2X70W T26 HF TW L840	4.20	92900058	CF270ZTW

Description	Wt (kg)	SAP Code	Cat. No.
CorrosionForce II T26 dimmable			
CORRF2 1X18W T26 HFI L840	1.30	96240453	CF118D
CORRF2 1X36W T26 HFD L840	1.90	96234475	CF136D
CORRF2 1X58W T26HFD L840	2.58	96234489	CF158D
CORRF2 2X18W T26 HFI L840	1.90	96240501	CF218D
CORRF2 2X36W T26 HFD L840	1.90	96234511	CF236D
CORRF2 2X58W T26 HFD L840	2.58	96234525	CF258D
CorrosionForce II T26 dimmable, emergency			
CORRF2 1X36W T26 HFD E3 L840	2.65	96234479	CF136DE
CORRF2 1X58W T26 HFD E3 L840	3.33	96234493	CF158DE
CORRF2 2X36W T26 HFD E3 L840	2.65	96234515	CF236DE
CORRF2 2X58W T26 HFD E3 L840	3.33	96234529	CF258DE
CorrosionForce II T26 dimmable, through-wire			
CORRF2 1X36W T26 HFD TW L840	1.90	92900089	CF136DTW
CORRF2 1X58W T26 HFD TW L840	2.60	92900090	CF158DTW
CORRF2 2X36W T26 HFD TW L840	3.50	92900092	CF236DTW
CORRF2 2X58W T26 HFD TW L840	4.50	92900015	CF258DTW
CorrosionForce II Accessories			
FORCE2 28/36 PC CLIP KIT	0.04	96503160	AQPTG1
FORCE2 28/36 RS CLIP KIT	0.05	96503157	AQSSTG1
FORCE2 28/36 TW KIT HGF	2.00	96503163	AQTW1
FORCE2 35/49/58 PC CLIP KIT	0.05	96503161	AQPTG2
FORCE2 35/49/58 RS CLIP KIT	0.06	96503158	AQSSTG2
FORCE2 35/49/58 TW KIT HGF	2.00	96503164	AQTW2
FORCE2 70 PC CLIP KIT	0.06	96503162	AQPTG3
FORCE2 70 RS CLIP KIT	0.07	96503159	AQSSTG3
FORCE2 70 TW KIT HGF	2.00	96503165	AQTW3
FORCE2 BESA KIT	0.53	96503168	AQBESA
FORCE2 FIX KIT	0.02	96503166	AQQFB
FORCE2 FIX/CH KIT	0.02	96503167	AQCHS
FORCE2 MCA KIT	0.10	96233817	AQCAT
FORCE2 MRS KIT	0.06	96503169	AQCOND
FORCE2 R 1X28/36/54	0.52	96235134	AQLUR128/136
FORCE2 R 1X35/49/58/80	0.15	96235135	AQLUR135/158
FORCE2 R 2X28/36	0.25	96235136	AQLUR228/236
FORCE2 R 2X35/49/58	0.65	96235137	AQLUR235/258

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ColdForce II



www.thornlighting.co.uk/COLD

A high protection IP65 Proof fluorescent range for use in low temperature environments



- Robust industrial ballast ensures operation in low temperature environments down to -30°C
- Standard lamps combined with over - tubes ensures good stable light output
- Glass-fibre reinforced polyester (GRP) canopy
- High impact polycarbonate diffuser (IK07)
- Certified for use in food processing plants from a hygiene point of view (HACCP/IFS/BRC Standard)

Materials/Finish

Canopy: glass-fibre reinforced polyester
Diffuser: polycarbonate with linear prisms
Gasket: expanded polyurethane
Toggles: stainless steel
Gear tray: steel, white enamelled finish

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Supplied with IP65 grommet. Stainless steel quick-fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance, and steel gear tray is retained by finger operated spring latches. BESA box and conduit mounting, chain suspension and catenary suspension kits, plus through wire kits are all available (see accessories listing). LSOH cabling as standard. Suitable for all indoor plus external 'under cover only' applications

Specification

To specify state:
High performance, IP65, dust and moisture proof impact resistant luminaire with GRP canopy, polycarbonate diffuser and stainless steel toggles, 36-58W T26 (T8) linear fluorescent lamps, industrial ballast for reliable operation down to -30°C, thermal over tubes fitted to standard tubes for low maintenance. As Thorn ColdForce II.



Lamps

T8 (FD) G13 36-58W

Standards

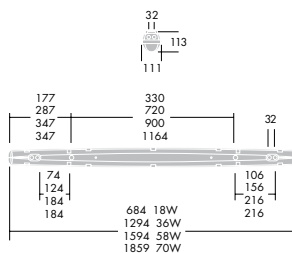


Ordering Guide

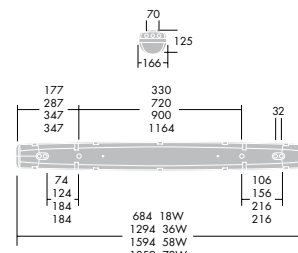
Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
ColdForce II			
COLDF2 1X36W T26 IHF L840	1.88	92900022	CD136Z
COLDF2 1X58W T26 IHF L840	2.45	92900023	CD158Z
COLDF2 2X36W T26 IHF L840	2.83	92900024	CD236Z
COLDF2 2X58W T26 IHF L840	3.17	92900025	CD258Z
ColdForce II Accessories			
FORCE2 28/36 PC CLIP KIT	0.04	96503160	AQPTG1
FORCE2 28/36 RS CLIP KIT	0.05	96503157	AQSSTG1
FORCE2 28/36 TW KIT HGF	2.00	96503163	AQTW1
FORCE2 35/49/58 PC CLIP KIT	0.05	96503161	AQPTG2
FORCE2 35/49/58 RS CLIP KIT	0.06	96503158	AQSSTG2
FORCE2 35/49/58 TW KIT HGF	2.00	96503164	AQTW2
FORCE2 70 PC CLIP KIT	0.06	96503162	AQPTG3
FORCE2 70 RS CLIP KIT	0.07	96503159	AQSSTG3
FORCE2 70 TW KIT HGF	2.00	96503165	AQTW3
FORCE2 BESA KIT	0.53	96503168	AQBESA
FORCE2 FIX KIT	0.02	96503166	AQQFB
FORCE2 FIX/CH KIT	0.02	96503167	AQCHS
FORCE2 MCA KIT	0.10	96233817	AQCAT
FORCE2 MRS KIT	0.06	96503169	AQCOND

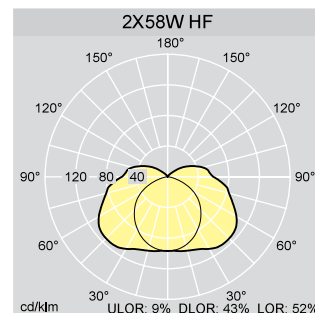
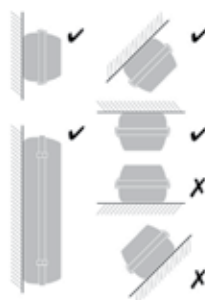
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1 x T26 (T8)



2 x T26 (T8)



HeatForce



www.thornlighting.co.uk/HEAT

High performance IP65 proof luminaire that performs in high ambient temperature locations



- Robust industrial ballast ensures reliable operation up to 65°C (36W) or 55°C (58W)
- Deep channel single pour gasket ensures IP65 seal
- For quick and easy maintenance, gear tray simply hangs from internal clips
- Certified for use in food processing plants from a hygiene point of view (HACCP/IFS/BRC Standard)

Materials/Finish

Canopy: glass-fibre reinforced polyester
Diffuser: polycarbonate with linear prisms
Gasket: expanded polyurethane
Toggles: stainless steel
Gear tray: steel, white enamelled finish

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Supplied with IP65 grommet. Stainless steel quick-fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance, and steel gear tray is retained by spring latches. BESA box and conduit mounting, chain suspension and catenary suspension kits, plus through wire kits are all available. LSOH cables as standard. If through wire kits are used the maximum ambient temperature is reduced (58W=47°C / 36W=57°C). Suitable for all indoor plus external 'under cover only' applications.

Specification

To specify state:
High performance, IP65, dust and moisture proof impact resistant luminaire with GRP canopy, polycarbonate diffuser and stainless steel toggles. 36-58W T26 (T8) linear fluorescent lamps, industrial ballast for reliable operation up to 65°C and up to 50,000 hour life at maximum temperature.
As Thorn HeatForce.

NEW

AquaForce II LED



www.thornlighting.co.uk/AQUL

A range of IP65 rated LED luminaires for high quality low energy lighting in wet, dusty environments



- Installation features include quick fix with Connect options, through wiring and BESA box compatibility (600mm spacing)
- Highly efficient LEDs (102 lIm/W) reduce energy consumption and costs, and provide further savings arising from longer maintenance lifecycles (50,000 hours @L70, Ta 25°C)
- Choice of emergency lighting and DALI dimming control
- The traditional design gives an aesthetically pleasing appearance - ideal for point for point replacement on refurbishment projects

Materials/Finish


Canopy: polycarbonate
Diffuser: polycarbonate with linear prisms
Gasket: expanded polyurethane
Toggles: stainless steel
Gear tray: steel, white enamelled finish

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Supplied with IP65 grommet. Stainless steel quick fix brackets supplied with each luminaire. Stainless steel toggles are captive in the canopy to prevent loss during maintenance. Steel gear tray is retained and suspended by spring latches. Conduit mounting, chain suspension and catenary suspension kits are all available as accessories. Suitable for all indoor applications plus external under cover only applications.

Specification

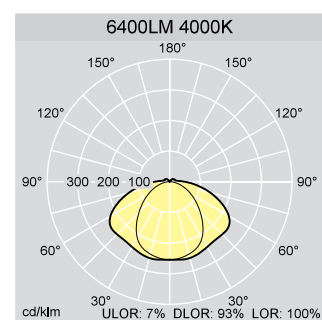
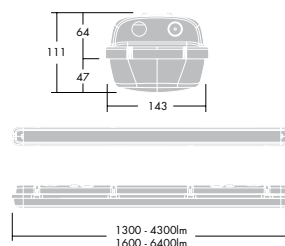
To specify state:
High performance LED IP65, dust and moisture resistant luminaire with polycarbonate canopy, polycarbonate diffusers and steel toggles, 4300/6400 lumens options, Ra80, 4000K, long service life of 50,000 hours with 70% light output.
As Thorn Aquaforce II LED

**Lamps**
 LED 1.2-62W
Standards
    
Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
AquaForce II LED			
AQUAF2 LED 4300 HF L840	2.40	96241869	AQ4300Z
AQUAF2 LED 4300 HF QF CONNECT L840	2.60	96241870	AQ4300ZQF
AQUAF2 LED 6400 HF L840	2.80	96241871	AQ6400Z
AQUAF2 LED 6400 HF QF CONNECT L840	3.00	96241872	AQ6400ZQF
AquaForce II LED Dimmable			
AQUAF2 LED 4300 HFI L840	2.50	96241940	AQ4300D
AQUAF2 LED 6400 HFI L840	2.90	96241943	AQ6400D
AquaForce II LED Emergency			
AQUAF2 LED 4300 HF E3 L840	2.70	96241939	AQ4300ZE
AQUAF2 LED 6400 HF E3 L840	3.10	96241942	AQ6400ZE
AquaForce II LED Through wire			
AQUAF2 LED 4300 HF TW L840	2.80	96241941	AQ4300ZTW
AQUAF2 LED 6400 HF TW L840	3.30	96241944	AQ6400ZTW
AquaForce II Accessories			
FORCE2 FIX/CH KIT	0.02	96503167	AQCHS
FORCE2 MCA KIT	0.10	96233817	AQCAT
FORCE2 MRS KIT	0.06	96503169	AQCOND

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AquaForce II



www.thornlighting.co.uk/AQU2

A highly durable, IP65 rated, luminaire for use in wet and dusty areas, where reliability is important



- Deep gasket channel for an assured IP65 seal
- Suspendable gear tray for easy maintenance
- Connect, ready to install versions

Materials/Finish

Canopy and diffuser: injection moulded fire retardant polycarbonate.
Gear tray: sheet steel, white enamel finish
Toggles: polycarbonate (stainless steel available)

Installation/Mounting

Cable entry positions at the back and each end of the fitting. Stainless steel quick-fix brackets supplied with each luminaire. Toggle clips easy to fit and close by hand. Connect versions available with fast electrical connection facility. Conduit box mounting, chain suspension, conduit suspension and catenary suspension kits, plus through wire kits are all available (see accessories listing). Suitable for all indoor plus external 'under cover only' applications.

Specification

To specify state:
Deep channel, polycarbonate IP65 luminaire with stainless steel gear tray and stainless steel fixing clips.
As Thorn AquaForce II

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
AquaForce II T16			
AQUAF2 1X28W T16 HF L840	2.10	96236923	AQ128Z
AQUAF2 1X35W T16 HF L840	2.40	96236924	AQ135Z
AQUAF2 1X49W T16 HF L840	2.50	96236925	AQ149Z
AQUAF2 1X80W T16 HF L840	2.50	96236926	AQ180Z
AQUAF2 2X28W T16 HF L840	2.50	96236927	AQ228Z
AQUAF2 2X35W T16 HF L840	2.50	96236928	AQ235Z
AQUAF2 2X49W T16 HF L840	2.50	96236929	AQ249Z
AquaForce II T16 emergency			
AQUAF2 1X28W T16 HF E3 L840	2.90	96236930	AQ128ZE
AQUAF2 1X35W T16 HF E3 L840	2.90	96236931	AQ135ZE
AQUAF2 1X49W T16 HF E3 L840	3.50	96236932	AQ149ZE
AQUAF2 2X28W T16 HF E3 L840	3.50	96236933	AQ228ZE
AQUAF2 2X35W T16 HF E3 L840	4.70	96236934	AQ235ZE
AQUAF2 2X49W T16 HF E3 L840	3.50	96236935	AQ249ZE
AquaForce II T26			
AQUAF2 1X36W T26 HF L840	1.80	96503023	AQ136Z
AQUAF2 1X58W T26 HF L840	1.80	96503046	AQ158Z
AQUAF2 1X70W T26 HF L840	3.70	96503069	AQ170Z
AQUAF2 2X36W T26 HF L840	2.60	96503092	AQ236Z
AQUAF2 2X58W T26 HF L840	3.10	96503115	AQ258Z
AQUAF2 2X70W T26 HF L840	3.00	96503138	AQ270Z
AquaForce II T26 emergency			
AQUAF2 1X36W T26 HF E3 L840	2.60	96503031	AQ136ZE
AQUAF2 1X58W T26 HF E3 L840	3.10	96503054	AQ158ZE
AQUAF2 1X70W T26 HF E3 L840	4.00	96503077	AQ170ZE
AQUAF2 2X36W T26 HF E3 L840	3.40	96503100	AQ236ZE
AQUAF2 2X58W T26 HF E3 L840	4.10	96503123	AQ258ZE
AQUAF2 2X70W T26 HF E3 L840	4.00	96503146	AQ270ZE
AquaForce II T26 Connect			
AQUAF2 1X36W T26 HF CON L840	1.90	96503041	AQ136ZC
AQUAF2 1X58W T26 HF CON L840	2.50	96503064	AQ158ZC
AQUAF2 1X70W T26 HF CON L840	3.00	96503087	AQ170ZC
AQUAF2 2X36W T26 HF CON L840	1.90	96503110	AQ236ZC
AQUAF2 2X58W T26 HF CON L840	2.50	96503133	AQ258ZC
AQUAF2 2X70W T26 HF CON L840	3.00	96503156	AQ270ZC



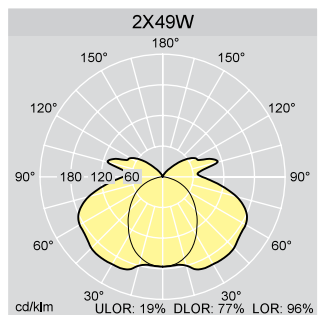
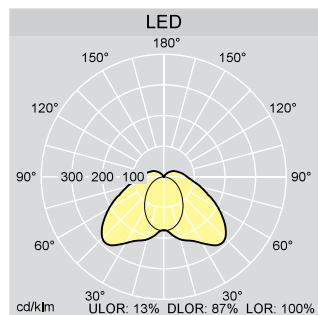
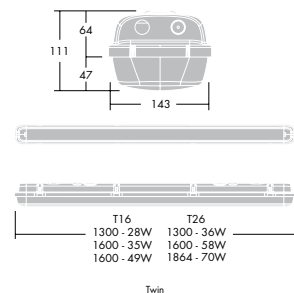
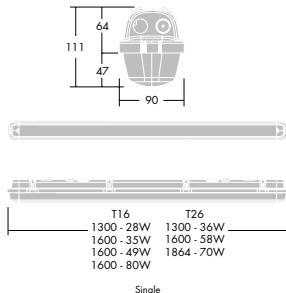
Lamps

	T5 (FDH)	G5	28-80W
	T8 (FD)	G13	36-70W

Standards

Description	Wt (kg)	SAP Code	Cat. No.
AquaForce II Accessories			
FORCE2 28/36 PC CLIP KIT	0.04	96503160	AQPTG1
FORCE2 28/36 RS CLIP KIT	0.05	96503157	AQSSTG1
FORCE2 28/36 TW KIT HGF	2.00	96503163	AQTW1
FORCE2 35/49/58 PC CLIP KIT	0.05	96503161	AQPTG2
FORCE2 35/49/58 RS CLIP KIT	0.06	96503158	AQSSTG2
FORCE2 35/49/58 TW KIT HGF	2.00	96503164	AQTW2
FORCE2 70 PC CLIP KIT	0.06	96503162	AQPTG3
FORCE2 70 RS CLIP KIT	0.07	96503159	AQSSTG3
FORCE2 70 TW KIT HGF	2.00	96503165	AQTW3
FORCE2 BESA KIT	0.53	96503168	AQBESA
FORCE2 FIX KIT	0.02	96503166	AQQFB
FORCE2 FIX/CH KIT	0.02	96503167	AQCHS
FORCE2 MCA KIT	0.10	96233817	AQCAT
FORCE2 MRS KIT	0.06	96503169	AQCOND
FORCE2 R 1X28/36/54	0.52	96235134	AQLUR128/136
FORCE2 R 1X35/49/58/80	0.15	96235135	AQLUR135/158
FORCE2 R 2X28/36	0.25	96235136	AQLUR228/236
FORCE2 R 2X35/49/58	0.65	96235137	AQLUR235/258

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Waterproof Luminaires

Materials and ambient temperature table



Materials	ColdForce		HeatForce		CorrosionForce		ImpactForce		AquaForce II	
	Diffuser PC	Canopy GRP	Diffuser PC	Canopy GRP	Diffuser PMMA	Canopy GRP	Diffuser PC	Canopy GRP	Diffuser PC	Canopy PC
UV Resistance	Fair	Good	Fair	Good	Good	Good	Fair	Good	Fair	Fair
Impact Resistance	6Nm	0.35Nm	6Nm	0.35Nm	0.2Nm	0.35Nm	6Nm	0.35Nm	6Nm	6Nm
Resistance to ageing	Good	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent	Good	Good
Silicone free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Halogen free:										
Luminaire	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal wiring	Yes	n/a	Yes	n/a	Yes	n/a	Yes	n/a	Yes	n/a
Food grade certification (15° angle)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Glow wire test	850°C	850°C	850°C	850°C	650°C	850°C	850°C	850°C	850°C	850°C
Heat resistance of luminaire plastics	125°C	160°C	125°C	160°C	95°C	160°C	125°C	160°C	125°C	125°C
UV Transmittance	89%	n/a	89%	n/a	91%	n/a	89%	n/a	89%	n/a

Ambient temperature		ColdForce		HeatForce		CorrosionForce		ImpactForce		AquaForce II	
		Min ta°C	Max ta°C	Min ta°C	Max ta°C	Min ta°C	Max ta°C	Min ta°C	Max ta°C	Min ta°C	Max ta°C
T8	1x18W					-25°C	42°C	-25°C	42°C	-25°C	42°C
	1x36W	-30°C	44°C	-30°C	65°C	-25°C	42°C	-25°C	42°C	-25°C	42°C
	1x58W	-30°C	32°C	-30°C	55°C	-25°C	30°C	-25°C	30°C	-25°C	30°C
	1x70W					-25°C	38°C	-25°C	38°C	-25°C	38°C
	2x18W					-25°C	39°C	-25°C	39°C	-25°C	39°C
	2x36W	-30°C	31°C			-25°C	29°C	-25°C	29°C	-25°C	29°C
	2x58W	-30°C	28°C			-25°C	26°C	-25°C	26°C	-25°C	26°C
T5	2x70W					-25°C	29°C	-25°C	29°C	-25°C	29°C
	1x28W					-25°C	38°C	-25°C	38°C	-25°C	38°C
	1x35W					-25°C	33°C	-25°C	33°C	-25°C	33°C
	1x49W					-25°C	26°C	-25°C	26°C	-25°C	26°C
	1x54W					-25°C	25°C	-25°C	25°C	-25°C	25°C
	1x80W					-25°C	25°C	-25°C	25°C	-25°C	25°C
	2x28W					-25°C	40°C	-25°C	40°C	-25°C	40°C
	2x35W					-25°C	40°C	-25°C	40°C	-25°C	40°C
	2x49W					-25°C	30°C	-25°C	30°C	-25°C	30°C

Chemical Resistance Table

Chemical Type	Chemicals Specific	AquaForce	ImpactForce	CorrosionForce	ColdForce	HeatForce
		PC body	GRP body	GRP body	GRP body	GRP body
		PC diffuser	PC diffuser	PMMA diffuser	PC diffuser	PC diffuser
		PC toggle	Stainless toggle	Stainless toggle	Stainless toggle	Stainless toggle
Acids	acetic <30%	✓	✓	-	✓	✓
	nitric <10%	✓	✓	✓	✓	✓
	sulphuric <20%	✓	✓	✓	✓	✓
	hydrochloric <10%	✓	✓	✓	✓	✓
	chromic <20%	✓	✓	✓	✓	✓
	phosphoric <40%	✓	✓	✓	✓	✓
Salts	marine salts	✓	✓	✓	✓	✓
	copper sulphate	✓	✓	✓	✓	✓
	sodium chloride	✓	✓	✓	✓	✓
Organics (aliphatics)	ethanol <30%	✓	✓	✓	✓	✓
	propanol <30%	✓	✓	✓	✓	✓
	methane	✓	✓	✓	✓	✓
	propane	✓	✓	✓	✓	✓
	formaldehyde/formalin	✓	✓	✓	✓	✓
	formic acid <5%	✓	✓	✓	✓	✓
	stearic acid soap	✓	✓	✓	✓	✓
	urea	✓	✓	✓	✓	✓
	ethylene glycol (antifreeze)	✓	✓	✓	✓	✓
	glucose sugar	✓	✓	✓	✓	✓
Organics (aromatics)	glycerol/glycerine	✓	✓	✓	✓	✓
Foodstuffs, cooking products, drinks, beverages	milk	✓	✓	✓	✓	✓
	fruit juices	✓	✓	✓	✓	✓
	vegetable oils (cold)	✓	✓	✓	✓	✓
	vegetable oils (hot)	-	-	✓	-	-
	meats, beef, lamb, pork, game, poultry	✓	✓	✓	✓	✓
	fish	✓	✓	✓	✓	✓
	pork fat	-	-	✓	-	-
	cooking fats (cold)	✓	✓	✓	✓	✓
	cooking fats (hot)	-	-	✓	-	-
	alcoholic beverages beer	✓	✓	✓	✓	✓
	carbonated beverages, lemonade	✓	✓	✓	✓	✓
	wines & spirits	✓	✓	✓	✓	✓
	water <60°C	✓	✓	✓	✓	✓
	vinegar	✓	✓	✓	✓	✓
	Gases	ozone	✓	✓	✓	✓
sulphur dioxide industrial pollutant		✓	✓	✓	✓	✓
Building materials, paints	emulsion paints water based	✓	✓	✓	✓	✓
	oil based paint	-	-	✓	-	-
	white spirit/turps substitute	✓	✓	✓	✓	✓
	cement	✓	✓	✓	✓	✓
Oils, fats fuels	mineral oils	✓	✓	✓	✓	✓
	animal fats (cold) but not pork	-	-	✓	-	-
	silicone oil	✓	✓	✓	✓	✓
	diesel	✓	✓	✓	✓	✓
	kerosene/paraffin oil	-	-	✓	-	-
	petroleum spirit/petroleum ether	✓	✓	✓	✓	✓
Disinfectants, cleaning agents	hydrogen peroxide <40%	✓	✓	✓	✓	✓
	sodium hypochlorite <10%	✓	✓	✓	✓	✓
	soaps	✓	✓	✓	✓	✓
	wetting agents/biocides (dilute)	✓	✓	✓	✓	✓

When selecting the right fitting for an application, you will need to consider how chemical substances may affect the luminaire.

This may be a corrosive element in the atmosphere or special cleaning agents used in the location. No materials can withstand the effects of every chemical and it would be difficult to display the entire list.

However, the table is a selection of the most common chemicals that are used in applications where these fittings are likely to be specified.

The information contained in the table is valid under the following conditions:

- The chemical substance listed in the table is an element and not part of a chemical compound
- The ambient temperature is 22°C

This information is provided to give guidance about luminaire selection assuming prolonged exposure to potentially aggressive chemicals or atmospheres. Occasional exposure to low concentrations of potential aggressors is unlikely to be harmful to any of these luminaires. The risk of damage to the luminaires is dependent on the concentration of the aggressor, the duration and frequency of exposure and environmental conditions. If there is any doubt about the suitability of a luminaire for a particular application please enquire with details of the chemicals which will be present and the conditions of use.

Invincible II



www.thornlighting.co.uk/INVC

A range of recessed fluorescent luminaires sealed to IP65/54 (below/above) for maximum protection



- Quick and easy to clean low profile frame design with 4mm toughened safety glass
- Foam gaskets on both housing and frame ensure IP rating is maintained
- Self regulating breather ensures IP65 protection and promotes self cleaning
- Suitable for use in cleanroom classifications to EN ISO 14644-1 (Classes 1 to 9)

Materials/Finish

Housing: white powder coated sheet steel with polycarbonate corner pieces, polyurethane foam gasket around the housing edge.
Optics: double parabolic satinbrite Bivergenz® louvre optic with glare limitation for DSE $L < 1000 \text{cd/m}^2$ at 65°, K12 clear prismatic PMMA diffuser.
Frame: white painted low profile anodised aluminium frame with 4mm toughened safety glass cover and polyurethane foam gasket.

Installation/Mounting

Designed for installation into most ceiling system types including exposed and concealed tees (luminaires are not compatible when ceiling tiles join the tee on a side 'off centre' position), The tee must have a maximum width of 24mm and a height range of 20-60mm.

In solid ceilings suitable apertures are recommended. Luminaires are not suitable for in use spring tee ceiling grids such as SAS120 / Armstrong Orcal 1800. When installed into SAS 150 / Armstrong Orcal 3000 spring tee ceiling grids the luminaire diffuser frame will not fit flush to the ceiling tile. Luminaire lamps must run parallel to the spring tees. Please consult the ceiling manufacturers technical specification for compatibility. Invincible II has 4x20mm suspension holes in the housing. Suction cups must be ordered separately and you must decide the appropriate quantity required.

Specification

To specify state:
Recessed luminaire IP65/54 sealed with clear prismatic or louvre optics. Smooth white low profile anodised aluminium extruded frame with a 4mm toughened safety glass cover. 14/24/28/54W T16 linear fluorescent lamps or 40/55W TC-L compact fluorescent lamps with high frequency control gear. Self regulating breather. Polyurethane foam gaskets on both housing and frame, EN ISO Cleanliness Class 1-9.
As Thorn Invincible II

Ordering Guide

Supplied complete with lamps, Suction cups to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Invincible II 300x1200mm high frequency			
INVINC2 2X28W T16 HF DSB IP65 L840	9.95	96547888	IV228ZSB
INVINC2 2X28W T16 HF PR IP65 L840	9.95	96547889	IV228ZPR
INVINC2 2X54W T16 HF DSB IP65 L840	9.95	96547892	IV254ZSB
INVINC2 2X54W T16 HF PR IP65 L840	9.95	96547893	IV254ZPR
Invincible II 300x1200mm digital dimmable			
INVINC2 2X28W T16 HFI DSB IP65 L840	9.95	96550502	IV228DSB
INVINC2 2X28W T16 HFI PR IP65 L840	9.95	96550504	IV228DPR
INVINC2 2X54W T16 HFI DSB IP65 L840	9.95	96550506	IV254DSB
INVINC2 2X54W T16 HFI PR IP65 L840	9.95	96550509	IV254DPR
Invincible II 300x1200mm, emergency			
INVINC2 2X28W T16 HF E3 DSB IP65 L840	10.95	96547922	IV228ZESB
INVINC2 2X28W T16 HF E3 PR IP65 L840	10.95	96547923	IV228ZEPR
INVINC2 2X54W T16 HF E3 DSB IP65 L840		96239862	IV254ZESB
INVINC2 2X54W T16 HF E3 PR IP65 L840	10.95	96547925	IV254ZEPR
Invincible II 300x1200mm, dimmable, emergency			
INVINC2 2X 28W T16 HFI E3 PR IP65 L840	10.95	96550501	IV228DEPR
INVINC2 2X28W T16 HFI E3 DSB IP65 L840	10.95	96550503	IV228DESB
INVINC2 2X 54W T16 HFI E3 PR IP65 L840	10.95	96550505	IV254DEPR
INVINC2 2X54W T16 HFI E3 DSB IP65 L840	10.95	96550507	IV254DESB
INVINC2 2X54W T16 HFI E3TX PR IP65 L840	10.95	96550508	IV254DEXPR
Invincible II 600x600mm high frequency			
INVINC2 4X14W T16 HF DSB IP65 L840	13.40	96547896	IV414ZSB
INVINC2 4X14W T16 HF PR IP65 L840	13.40	96547897	IV414ZPR
INVINC2 4X24W T16 HF DSB IP65 L840	13.40	96547900	IV424ZSB
INVINC2 4X24W T16 HF PR IP65 L840	13.40	96547901	IV424ZPR
INVINC2 3X40W TC-L HF DSB IP65 L840	10.42	96547912	IV340ZSB
INVINC2 3X40W TC-L HF PR IP65 L840	10.42	96547913	IV340ZPR
INVINC2 3X55W TC-L HF DSB IP65 L840	10.42	96547916	IV355ZSB
INVINC2 3X55W TC-L HF PR IP65 L840	10.42	96547917	IV355ZPR
Invincible II 600x600mm digital dimmable			
INVINC2 4X14W T16 HFI DSB IP65 L840	14.40	96550514	IV414DSB
INVINC2 4X24W T16 HFI DSB IP65 L840	13.40	96550516	IV424DSB
INVINC2 4X24W T16 HFI PR IP65 L840	13.40	96550517	IV424DPR
INVINC2 3X40W TC-L HFI DSB IP65 L840	11.42	96550510	IV340DSB
INVINC2 3X40W TC-L HFI PR IP65 L840	11.42	96550511	IV340DPR



Lamps

	T5 (FDH)	G5	14-54W
	TC-L (FSDH)	2G11	40-55W

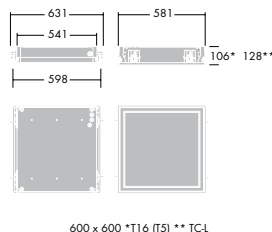
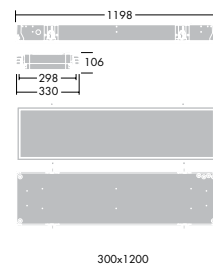
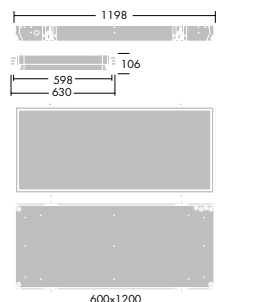
Standards



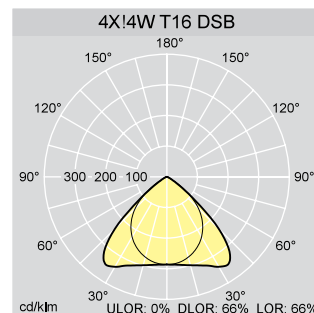
Description	Wt (kg)	SAP Code	Cat. No.
Invincible II 600x600mm, emergency			
INVINC2 4X14W T16 HF E3 DSB IP65 L840	13.40	96547929	IV414ZESB
INVINC2 4X14W T16 HF E3 PR IP65 L840	14.40	96547930	IV414ZEPR
Invincible II 600x600mm, dimmable, emergency			
INVINC2 4X14W T16 HFI E3 DSB IP65 L840	14.40	96550515	IV414DESB
INVINC2 4X24W T16 HFI E3 DSB IP65 L840	14.40	96550518	IV424DESB
INVINC2 4X24W T16 HFI E3 PR IP65 L840	14.40	96550519	IV424DEPR
Invincible II 600x1200mm high frequency			
INVINC2 4X28W T16 HF DSB IP65 L840	18.50	96547904	IV428ZSB
INVINC2 4X28W T16 HF PR IP65 L840	18.50	96547905	IV428ZPR
INVINC2 4X54W T16 HF DSB IP65 L840	18.50	96547908	IV454ZSB
INVINC2 4X54W T16 HF PR IP65 L840	18.50	96547909	IV454ZPR
Invincible II 600x1200mm digital dimmable			
INVINC2 4X28W T16 HFI DSB IP65 L840	18.50	96550520	IV428DSB
INVINC2 4X28W T16 HFI PR IP65 L840	18.50	96550522	IV428DPR
INVINC2 4X54W T16 HFI DSB IP65 L840	18.50	96550524	IV454DSB
INVINC2 4X54W T16 HFI PR IP65 L840	18.50	96550528	IV454DPR
Invincible II 600x1200mm, emergency			
INVINC2 4X28W T16 HF E3 DSB IP65 L840	19.50	96547933	IV428ZESB
INVINC2 4X28W T16 HF E3 PR IP65 L840	19.50	96547934	IV428ZEPR
INVINC2 4X54W T16 HF E3 DSB IP65 L840	19.50	96547936	IV454ZESB
INVINC2 4X54W T16 HF E3 PR IP65 L840	19.50	96547937	IV454ZEPR
Invincible II 600x1200mm, dimmable, emergency			
INVINC2 4X 28W T16 HFI E3 PR IP65 L840	19.50	96550523	IV428DEPR
INVINC2 4X28W T16 HFI E3 DSB IP65 L840	19.50	96550521	IV428DESB
INVINC2 4X 54W T16 HFI E3 PR IP65 L840	19.50	96550529	IV454DEPR
INVINC2 4X54W T16 HFI E3 DSB IP65 L840	19.50	96550525	IV454DESB
INVINC2 4X54W T16 HFI E3TX DSB IP65 L840	19.50	96550526	IV454DEXSB
INVINC2 4X54W T16 HFI E3TX PR IP65 L840	19.50	96550527	IV454DEXPR

Invincible II Accessories			
SUCTION CUP	0.10	20935455	IVSC

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



600 x 600 *T16 (T5) ** TCL





- Welded frame corners provide a smooth and easy to clean surface
- Diffuser frame secured by 1/4 turn fasteners for quick installation
- Retention chords hold diffuser for easy maintenance
- Suitable for use in cleanroom classifications to EN ISO 14644-1 (Classes 5 to 9)

Materials/Finish

Body: zinc coated sheet steel, white stove enamelled finish

Frame: extruded aluminium with welded corners, EPDM gasket, with white stove enamelled finish (RAL 9016)

Diffuser: clear, prism, TP(a)

Installation/Mounting

Designed for installation into various ceiling types. Suitable for exposed tee ceiling grids using 15mm or 24mm tee widths and a maximum tee height of up to 50mm. In solid/plaster board ceilings suitable apertures are recommended to support the weight of the luminaire. Luminaires are not suitable for use in concealed ceilings or certain spring tee ceiling grids such as SAS 120 / Armstrong Orcal 1800. When installed into an SAS 150 / Orcal 3000 spring tee ceiling grid the luminaire diffuser frame will not fit flush to the ceiling tile. Luminaire lamps must run parallel to the spring tees. Please consult the ceiling manufacturers technical specification for compatibility. Duoproof has 4x 8mm holes for suspension rods in the housing. Grommets supplied. 20mm cable entry holes are provided. Diffuser is held in by 1/4 turn fasteners and retention cord.

Specification

To specify state:
Recessed IP65 sealed luminaire for fluorescent T26 (T8) 18/36/58W, 14/24/28/35/49/54W T16 (T5) and 36W TC-L compact fluorescent lamps. Frame design with welded corners, EN ISO 14644-1 Cleanliness Class 5-9, diffuser. As Thorn Duoproof.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Duoproof T16			
DUOPRF 2X28W T16 HF IP65 L840	8.50	96535734	DP228Z
DUOPRF 2X35W T16 HF IP65 L840	10.40	96535736	DP235Z
DUOPRF 2X49W T16 HF IP65 L840	10.40	96535738	DP249Z
DUOPRF 2X54W T16 HF IP65 L840	8.50	96535740	DP254Z
DUOPRF 4X14W T16 HF IP65 L840	8.70	96535742	DP414Z
DUOPRF 4X24W T16 HF IP65 L840	8.70	96535744	DP424Z
DUOPRF 4X28W T16 HF IP65 L840	10.50	96535746	DP428Z
DUOPRF 4X54W T16 HF IP65 L840	10.50	96535748	DP454Z
Duoproof T16 dimmable			
DUOPRF 2X28W T16 HFI IP65 L840	6.13	96549155	DP228D
DUOPRF 2X35W T16 HFI IP65 L840	9.80	96549159	DP235D
DUOPRF 2X49W T16 HFD IP65 L840	10.40	96535739	DP249D
DUOPRF 2X54W T16 HFI IP65 L840	7.20	96549163	DP254D
DUOPRF 4X14W T16 HFIX IP65 L840	3.20	96549167	DP414X
DUOPRF 4X14W T16 HFD IP65 L840	8.70	96535743	DP414D
DUOPRF 4X24W T16 HFI IP65 L840	5.90	96549174	DP424D
DUOPRF 4X28W T16 HFI IP65 L840	4.00	96549178	DP428D
DUOPRF 4X54W T16 HFI IP65 L840	11.70	96549181	DP454D
Duoproof T16 emergency			
DUOPRF 2X28W T16 HF E3 IP65 L840	10.50	96535750	DP228ZE
DUOPRF 2X49W T16 HF E3 IP65 L840	12.40	96535754	DP249ZE
DUOPRF 2X54W T16 HF E3 IP65 L840	10.50	96535756	DP254ZE
DUOPRF 4X14W T16 HF E3 IP65 L840	10.70	96535758	DP414ZE
DUOPRF 4X24W T16 HF E3 IP65 L840	10.70	96535760	DP424ZE
DUOPRF 4X28W T16 HF E3 IP65 L840	12.50	96535762	DP428ZE
DUOPRF 4X54W T16 HF E3 IP65 L840	12.50	96535764	DP454ZE
Duoproof T16 dimmable, emergency			
DUOPRF 2X35W T16 HFI E3 IP65 L840	10.00	96549157	DP235DE
DUOPRF 2X54W T16 HFI E3 IP65 L840	8.90	96549161	DP254DE
DUOPRF 4X14W T16 HFIX E3 IP65 L840	13.70	96549168	DP414XE
DUOPRF 4X14W T16 HFD E3 IP65 L840	10.70	96535770	DP414DE
DUOPRF 4X24W T16 HFI E3 IP65 L840	5.10	96549172	DP424DE
DUOPRF 4X28W T16 HFI E3 IP65 L840	13.50	96549176	DP428DE
DUOPRF 4X54W T16 HFI E3 IP65 L840	11.70	96549179	DP454DE



Lamps

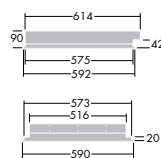
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	T8 (FD)	G13	18-58W
	TC-L (FSD)	2G11	36W

Standards

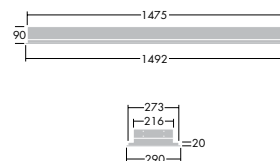
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	T _p (a)				

Description	Wt (kg)	SAP Code	Cat. No.
Duoproof T26 luminaires			
DUOPRF 2X36W T26 HF IP65 L840	8.50	96535720	DP236Z
DUOPRF 2X36W TC-L HF IP65 L840	8.60	96535727	DP236TCZ
DUOPRF 2X58W T26 HF IP65 L840	10.40	96535721	DP258Z
DUOPRF 3X18W T26 HF IP65 L840	8.60	96535723	DP318Z
DUOPRF 3X36W T26 HF IP65 L840	10.30	96535724	DP336Z
DUOPRF 4X18W T26 HF IP65 L840	8.70	96535725	DP418Z
DUOPRF 4X36W T26 HF IP65 L840	10.50	96535726	DP436Z
Duoproof T26 emergency luminaires			
DUOPRF 2X36W T26 HF E3 IP65 L840	10.50	96535728	DP236ZE
DUOPRF 2X36W TC-L HF E3 IP65 L840	10.60	96535733	DP236TCZE
DUOPRF 3X18W T26 HF E3 IP65 L840	10.60	96535729	DP318ZE
DUOPRF 3X36W T26 HF E3 IP65 L840	12.30	96535730	DP336ZE
DUOPRF 4X18W T26 HF E3 IP65 L840	10.70	96535731	DP418ZE
DUOPRF 4X36W T26 HF E3 IP65 L840	12.50	96535732	DP436ZE

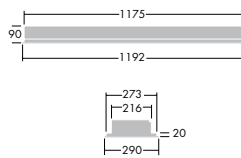
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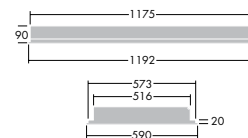
600x600 T26 (T8)



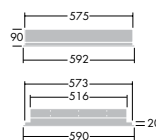
300x1200 T16 (T5)



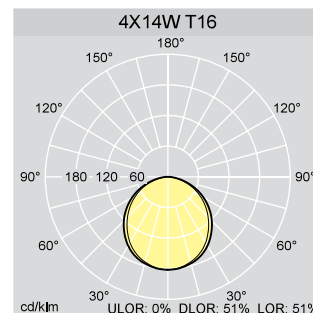
300x1200 T16 (T5)



600x1200 T16 (T5)



600x600 T16 (T5) / TC-L



Concavia S



www.thornlighting.co.uk/CCVS

Compact high bay luminaire with a choice of reflectors combining aesthetic quality with high performance



- Option of aluminium, plastic and glass reflectors offering direct/indirect distribution, each with a distinctive appearance
- Pre-installed with 1.5m mains cable for easy electrical connection and installation
- A range of suspension options to suit various applications

Materials/Finish

Gearbox: extruded and die cast aluminium, silver anodised painted finish

Reflectors: high-purity sandblasted aluminium, prismatic polycarbonate, acrylic or glass

Reflector covers: prismatic or toughened glass

Suspension brackets: stainless steel

Installation/Mounting

Suitable for single point suspension on wire or chain. All luminaires are supplied with a pre-installed 1.5m (3 x 1 mm²) grey cable for easy tool-free installation. Cover needed for all unprotected HIE/HIT lamps or IP65.

Specification

To specify state:

High bay reflector luminaire for 42-57W TC-TEL compact fluorescent, 60-250W QT halogen, 70-150W HIE metal halide, 70W HIPAR metal halide, 70-150W HIT metal halide lamps with tool-free installation, pre-installed 1.5m LSOH mains cable (HF 3 core, HFE3 4 core, HFI 5 core). IP23 aluminium housing in silver, anodised finish, sandblasted aluminium, prismatic polycarbonate, acrylic or glass reflector, stainless steel suspension brackets, tested at an ambient temperature of 35°C. As Thorn Concavia S

**Lamps**

	HIE (ME)	E27	70-150W
	TC-TEL (FSM)	GX24q-5	42-57W
	HIT (MT)	G12	70-150W

Standards

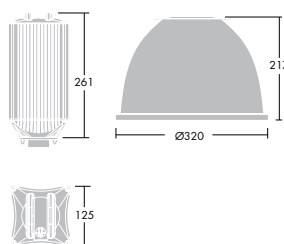
	EN 60598		IP23	IK08	T _a 35
	650 °C	850 °C			

Ordering Guide

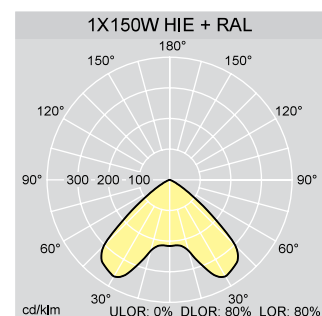
Supplied complete with lamp(s). For complete fitting please order suspension kit, housing, reflector and attachments individually.

Description	Wt (kg)	SAP Code	Cat. No.
Concavia S Housing			
CONCAVIA S 1X42W TC-TEL HF L840	1.90	96218687	CCS42Z
CONCAVIA S 1X42W TC-TEL HFI L840	4.50	96550531	CCS42D
CONCAVIA S 1X57W TC-TEL HF L840	1.90	96218689	CCS57Z
CONCAVIA S 1X57W TC-TEL HFI L840	3.10	96550530	CCS57D
CONCAVIA S 1X70W HIT HF LI	2.20	96218697	CCS70MTZ
CONCAVIA S 1X70W HIE/HIPAR LI HIE	3.80	96218693	CCS70ME
CONCAVIA S 1X70W HIT LI	3.50	96218696	CCS70MT
CONCAVIA S 1X150W HIT HF LI	2.70	96218699	CCS150MTZ
CONCAVIA S 1X150W HIE LI	4.50	96218695	CCS150ME
CONCAVIA S 1X150W HIT LI	4.40	96218698	CCS150MT
Concavia S Attachments			
CONCAVIA S AC RPR DI	1.00	96218702	CCSACPRDI
CONCAVIA S KIT COVER GL	0.80	96218707	CCSGLCOV
CONCAVIA S KIT COVER PR	0.35	96218708	CCSPRCOV
CONCAVIA S KIT CRL	0.25	96218710	CCSCRL
CONCAVIA S KIT DECO	0.70	96218706	CCSDECO
CONCAVIA S KIT RAL DI	0.15	96229608	CCSALDI
CONCAVIA S KIT WG	0.10	96218709	CCSWG
CONCAVIA S PC RPR DI	1.00	96228969	CCSPCPRDI
CONCAVIA S RAL	0.50	96218701	CCSAL
CONCAVIA S RGL DI	4.50	96218704	CCSGLDI
Concavia S Accessories			
CONCAVIA KIT FIX MCA	0.13	96218768	CCMCAKIT
CONCAVIA KIT FIX/CH	1.00	96218763	CCCHKIT
CONCAVIA KIT FIX/SUP	0.10	96218771	CCSUPKIT
CONCAVIA KIT MSW1 2M	0.10	96218764	CCSW12KIT
CONCAVIA KIT MSW1 4M	0.13	96218765	CCSW14KIT

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Concavia S RAL



Concavia L



www.thornlighting.co.uk/CCVL

A high bay luminaire with performance, high-tech appearance and flexibility for industrial and large commercial spaces



- A wide range of reflectors provide direct/indirect distribution and a choice of aesthetic appearances
- High safety level achieved through timed ignitors and thermally protected gear

Materials/Finish

Gearbox: extruded and die cast aluminium, silver anodised finish
Reflectors: high-purity sandblasted aluminium, prismatic polycarbonate or acrylic
Reflector covers: prismatic or toughened glass
Suspension brackets: stainless steel

Installation/Mounting

Suitable for single point suspension on wire, chain or catenary unit. All luminaires are supplied with a pre-installed 1.5m (3 x 1 mm²) grey cable for easy installation. A 3m mains cable extension kit is available as an accessory. Cover needed for all unprotected HIE lamps (not 450W) or IP65 versions. Must only be used with coated elliptical lamps.

Specification

To specify state:
High bay reflector luminaire for HIE/HSE 250/400W (with timed ignitors and thermally protected gear) lamps, with tool-free installation, pre-installed 1.5m (3 x 1 mm²) grey mains cable, aluminium silver anodised housing finish, sandblasted aluminium, prismatic polycarbonate or acrylic reflector, stainless steel suspension brackets, tested at an ambient temperature of 35°C.
As Thorn Concavia L

**Lamps**

	HIE (ME)	E40	250-450W
	HIE (HSE gear) (ME)	E40	400W
	HSE (SE)	E40	250-400W

Standards

T _a 25	T _a 35		650°C	850°C

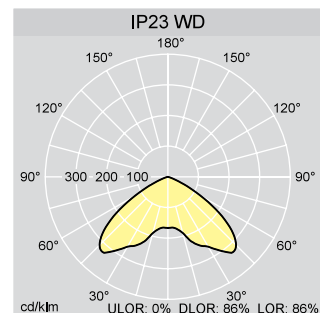
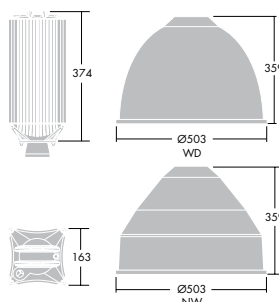
Ordering Guide

Supplied complete with lamp(s). For complete fitting please order suspension kit, housing, reflector and attachments separately.

Description	Wt (kg)	SAP Code	Cat. No.
Concavia L IP23 Housing			
CONCAVIA L 1X250W HIE/HSE IP23 LI HIE	7.60	96218717	CCL250MEIP23
CONCAVIA L 1X250W HIE/HSE IP23 LI HSE	7.60	96218716	CCL250SEIP23
CONCAVIA L 1X400W HIE/HSE IP23 LI HIE	9.00	96218721	CCL400MEIP23
CONCAVIA L 1X400W HIE/HSE IP23 LI HSE	9.00	96218720	CCL400SEIP23
CONCAVIA L 1X450W HIE IP23 LI	9.00	96233964	CCL450MEIP23
Concavia L IP23 Housing with Auxiliary Lamp			
CONCAVIA L 1X250W HSE AUX IP23 LI HIE	7.90	96218719	CCL250MEAXIP23
CONCAVIA L 1X250W HSE AUX IP23 LI HSE	7.90	96218718	CCL250SEAXIP23
CONCAVIA L 1X400W HSE AUX IP23 LI HIE	9.30	96218723	CCL400MEAXIP23
CONCAVIA L 1X400W HSE AUX IP23 LI HSE	9.30	96218722	CCL400SEAXIP23
CONCAVIA L 1X450W HIE AUX IP23 LI	9.30	96233966	CCL450MEAXIP23
Concavia L IP65 Housing			
CONCAVIA L 1X250W HIE/HSE IP65 LI HIE	7.60	96218736	CCL250MEIP65
CONCAVIA L 1X250W HIE/HSE IP65 LI HSE	7.60	96218735	CCL250SEIP65
CONCAVIA L 1X400W HIE/HSE IP65 LI HIE	9.00	96218740	CCL400MEIP65
CONCAVIA L 1X400W HIE/HSE IP65 LI HSE	9.00	96218739	CCL400SEIP65
CONCAVIA L 1X450W HIE IP65 LI	9.00	96233965	CCL450MEIP65
Concavia L IP65 Housing with Auxiliary Lamp			
CONCAVIA L 1X250W HSE AUX IP65 LI HIE	7.90	96218738	CCL250MEAXIP65
CONCAVIA L 1X250W HSE AUX IP65 LI HSE	7.90	96218737	CCL250SEAXIP65
CONCAVIA L 1X400W HIE/HSE AUX IP65 LI HI	9.30	96218742	CCL400MEAXIP65
CONCAVIA L 1X400W HSE AUX IP65 LI HSE	9.30	96218741	CCL400SEAXIP65
CONCAVIA L 1X450W HIE AUX IP65 LI	9.30	96233967	CCL450MEAXIP65

Description	Wt (kg)	SAP Code	Cat. No.
Concavia L Attachments			
CONCAVIA L AC RPR DI	3.00	96218751	CCLACPRDI
CONCAVIA L KIT COVER GL IP65	2.50	96218754	CCLGLCOVIP65
CONCAVIA L KIT COVER PR	1.00	96218755	CCLPRCOV
CONCAVIA L KIT CRL	0.35	96218757	CCLCRL
CONCAVIA L KIT WG	0.15	96218756	CCLWG
CONCAVIA L PC RPR DI	3.00	96228968	CCLPCPRDI
CONCAVIA L RAL NW	1.00	96218750	CCLALNW
CONCAVIA L RAL WD	1.00	96218749	CCLALWD
Concavia L Accessories			
CONCAVIA KIT FIX MCA	0.13	96218768	CCMCAKIT
CONCAVIA KIT FIX/CH	1.00	96218763	CCCHKIT
CONCAVIA KIT FIX/SUP	0.10	96218771	CCSUPKIT
CONCAVIA KIT MSW1 2M	0.10	96218764	CCSW12KIT
CONCAVIA KIT MSW1 4M	0.13	96218765	CCSW14KIT

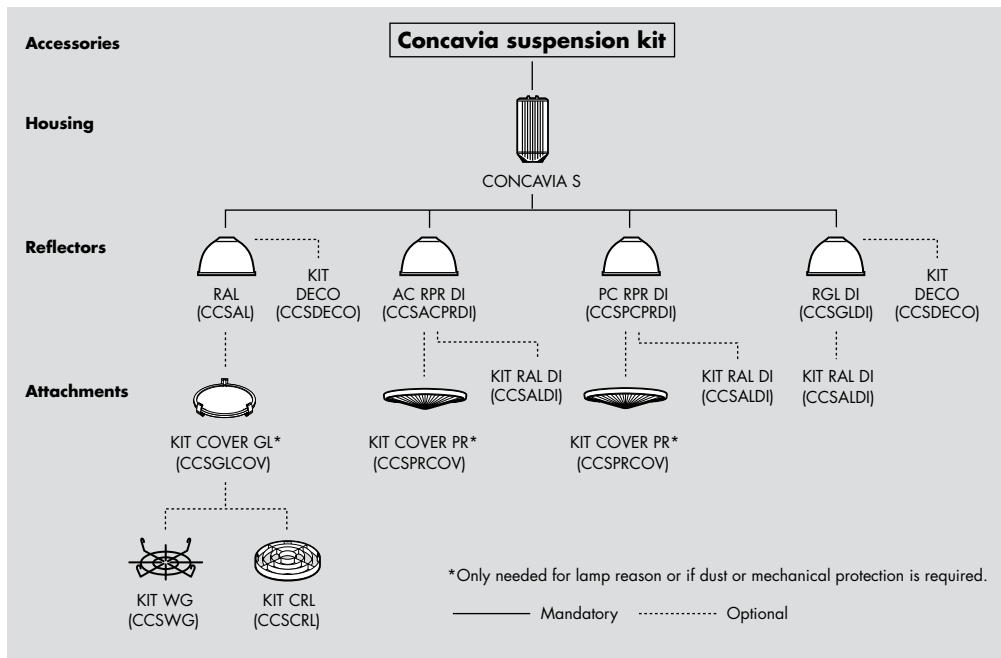
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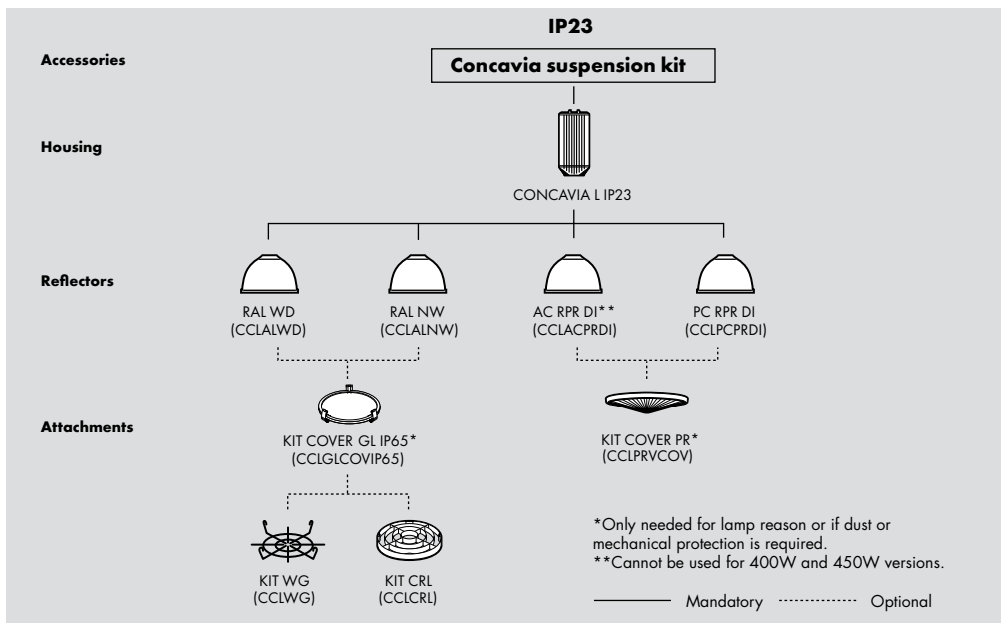
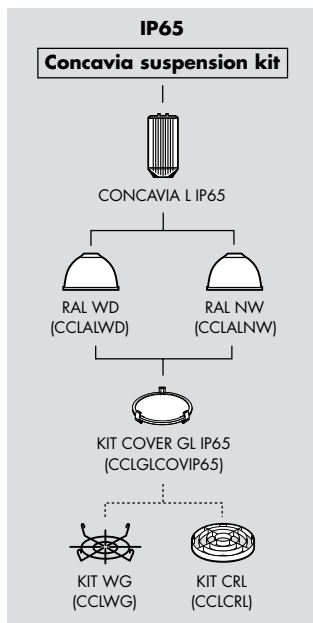
Concavia

Ordering trees and ambient temperature table

Concavia S



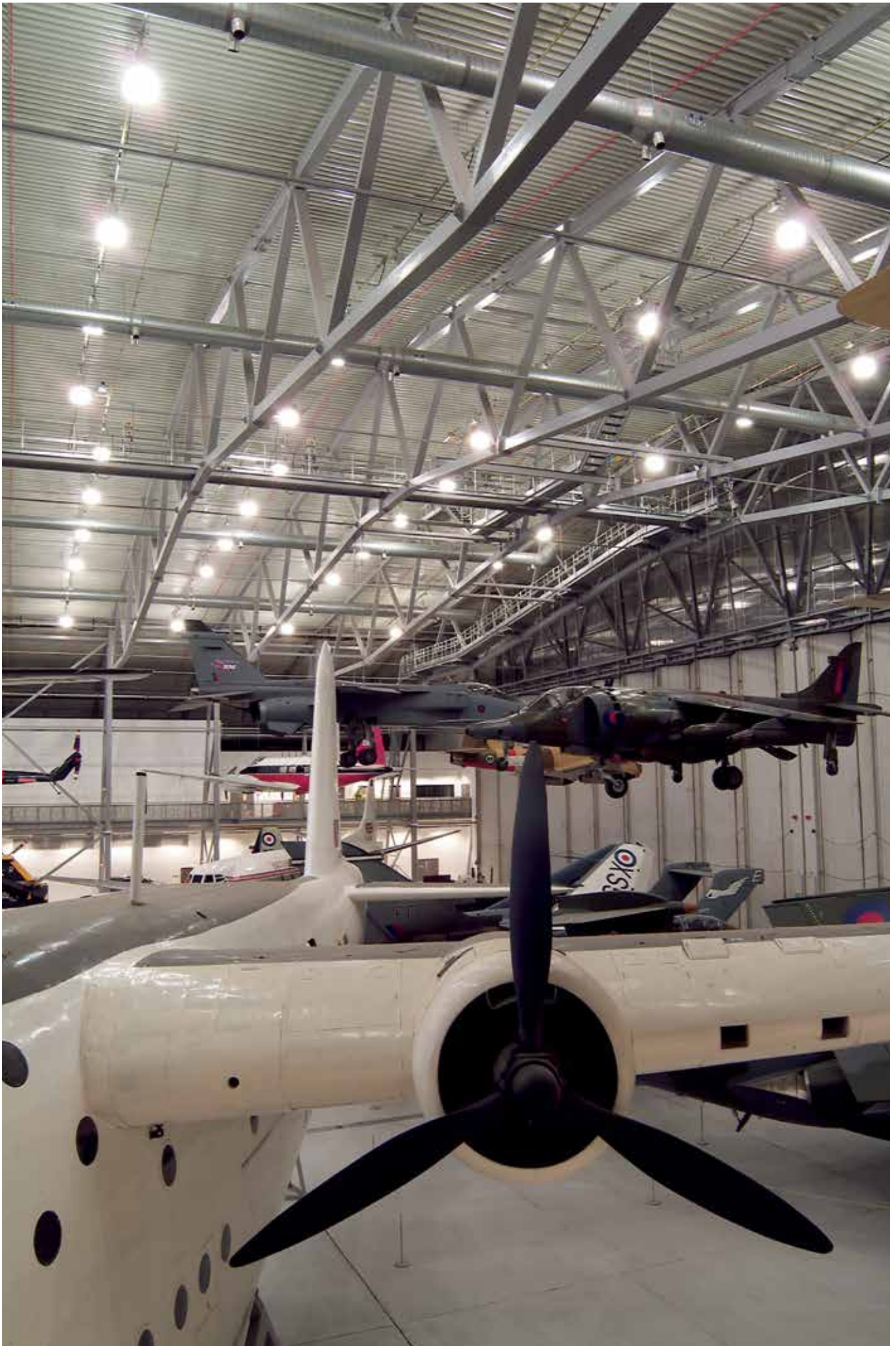
Concavia L



Ambient temperatures

Although the Concavia range has been tested at an ambient temperature of 35°C, there are some exceptions. The 450W metal halide lamp is protected and can be used in open enclosures but when enclosed with the glass cover to achieve IP65 it can only be operated up to 30°C. For versions that can be used in higher ambient temperatures:

New Description	* Max. Ambient Temperature °C
IP23	
CONCAVIA L 1X400W HIE IP23 LI	45
CONCAVIA L 1X400W HIE/HSE IP23 LI HSE***	50
CONCAVIA L 1X400W HIE/HSE IP23 LI HIE	45
CONCAVIA L 1X450W HIE IP23 LI***	35
CONCAVIA L 1X250W HIE IP23 LI	45
CONCAVIA L 1X250W HIE/HSE IP23 LI HSE***	50
CONCAVIA L 1X250W HIE/HIE IP23 LI HIE	45
*** No glass cover required (450W is a protected lamp and can be used on open enclosures)	
IP65	
CONCAVIA L 1X400W HIE IP65 LI	45
CONCAVIA L 1X400W HIE/HSE IP65 LI HSE	45
CONCAVIA L 1X400W HIE/HSE IP65 LI HIE	45
CONCAVIA L 1X450W HIE IP65 LI	30
CONCAVIA L 1X250W HIE IP65 LI	45
CONCAVIA L 1X250W HIE/HSE IP65 LI HSE	45
CONCAVIA L 1X250W HIE/HSE IP65 LI HIE	45





Petrelux

9 Series



www.thornlighting.co.uk/PTL9

ATEX Category 2 certificated
increased safety EEx ed linear
fluorescent luminaire



- Lightweight construction for easy handling
- Fast fix installation using T bolts and adjustable channel system
- Integral isolating switch cut-out for safety
- Single point diffuser opening action for quick maintenance

Materials/Finish

Body: anodised aluminium, polycarbonate, finished in Petrelux Green

Diffuser: UV stabilised polycarbonate


Installation/Mounting

Unique quick fixing M8 'T bolts' on adjustable centres with optional mounting accessory kits for chain or pole mounting. Cable entry via 4 x 20mm holes, two located at each end with 3 plugs. Terminal block suitable for max 4mm² cable, suitable for looping. Diffuser opens from a single point and hangs on plastic straps.

Specification

To specify state:

EEx ed, ATEX Cat 2 certified Zone 1 polycarbonate/aluminium bodied luminaire for 18/36/58W T26 (T8) linear fluorescent lamps, polycarbonate cover and rapid-fix flexible installation channel, integral isolating switch, single point diffuser opening point, IP65.
As Thorn Petrelux 9

**Lamps**
 T8 (FD) G13 18-58W
Standards

EN 60598

IP65

IK08

T_a25/35

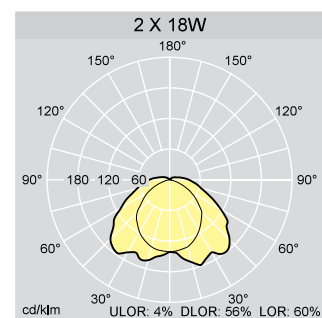
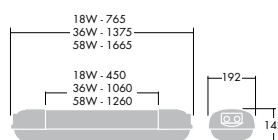
850°C

**Ordering Guide**

Lamps to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Petrelux 9 Series Luminaires			
PETRELUX P9 2X18W T26 HF	5.70	96012770	PX9218Z
PETRELUX P9 2X36W T26 HF	9.20	96012627	PX9236Z
PETRELUX P9 2X58W T26 HF	10.50	96007379	PX9258Z
Petrelux 9 Series Emergency Luminaires			
PETRELUX P9 2X18W T26 HF E3	6.90	96014885	PX9218ZE
PETRELUX P9 2X36W T26 HF E3	10.40	96014651	PX9236ZE
PETRELUX P9 2X58W T26 HF E3	12.00	96012860	PX9258ZE
Petrelux 9 Series Attach. & Access			
PETRELUX P9 KIT FIX POLE CLAMP	0.24	96102893	PX9PC
PETRELUX P9 KIT FIX BRA	0.20	96007381	PX9BRA
PETRELUX P9 KIT FIX MRS	0.05	96102925	PX9MRS

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Petrelux

ExEn



www.thornlighting.co.uk/PTLX

ATEX Category 3 Certificated type
EE xn linear fluorescent luminaire for
use in hazardous locations



- Clip in gear tray for quick maintenance
- Stainless steel toggles ensure a reliable diffuser seal

Materials/Finish

Canopy: glass reinforced polyester - grey finish
Diffuser: injection moulded clear prismatic, UV stabilised polycarbonate
Gear Tray: steel - white enamel finish.
Toggles: stainless steel.

Installation/Mounting

2 x 20mm holes for cable entry - sealing plug supplied for one hole - located at end of fitting.
Fittings can be screw fixed direct to mounting surface, using suitable sealing and pressure washers, or snap fitted into stainless steel fixing clips (available as an accessory).

Specification

To specify state:
ATEX Certificated luminaire (Zone 2, Category 3 hazardous areas) suitable for 18/36/58W T26 (T8) linear fluorescent lamps. Glass reinforced polyester canopy with UV stabilised polycarbonate prismatic diffuser and stainless steel toggles.
As Thorn Petrelux ExEn.

INDOOR LIGHTING



Sports Luminaires



Titus Sport
272

See also - Sports Floodlighting



NEW

Allis
346



NEW

Champion
348



Contrast C Sports
350



Mundial C
352



Troika
354

Aspire Defence, UK

INDOOR LIGHTING

SPORTS LUMINAIRES



A dedicated sports hall T16 (T5) luminaire with robust mechanical construction and excellent lighting performance



- Unique curved housing prevents projectiles from remaining on top of the luminaire
- Separate circuits on 3 and 4 lamp versions (1+2 or 2+2)
- Mounting bracket allows stepless tilting up to 50° without rotational torque, even when suspended
- Easy installation and maintenance with patented built-in junction box

Materials/Finish

Body: white powder painted galvanised steel
 Wire guard: galvanised steel
 Reflector: high quality Miro aluminium.
 Halogen free internal wiring

Installation/Mounting

Surface mounted or mounted on catenary wire. Surface mounting brackets included which allow tilting up to 50 degrees even when wire suspended. The centre of gravity is positioned directly below the fastening point. For catenary suspension MCA suspension kit should be ordered. The wire guard and optional louvre are hinged for ease of maintenance. Wire guard is held securely in place with protective clips.

Electrical connection: Through-wiring version has 5x2.5mm² terminal blocks at each end. Central wiring box version with patented built-in junction box (cutting installation time in half) has side access hatch to allow electrical termination without opening the fitting. Two 3x2.5mm² terminal blocks allow wiring through end-caps or through the top of the fitting. Grommets supplied, accepting 10 to 14mm cable. 3 and 4 lamp versions are wired with two separate circuits.

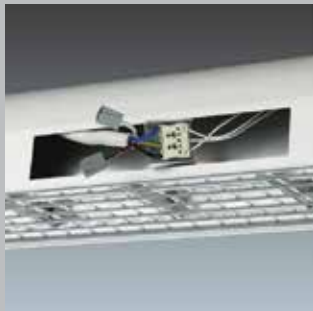
Specification

To specify state:
 Sports hall luminaire for 49/54/80W T16 (T5) lamps, for surface or suspended mounting with brackets included which allow tilting up to 50 degrees without rotational torque. To comply with DIN 18032.3. As Thorn Titus Sport.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Titus Sport High frequency			
TITUS SPORT 2X49W L840	7.80	96547437	TTS249Z
TITUS SPORT 3X49W L840	8.10	96547441	TTS349Z
TITUS SPORT 4X49W L840	8.20	96547450	TTS449Z
TITUS SPORT 2X54W L840	6.80	96547439	TTS254Z
TITUS SPORT 3X54W L840	7.10	96547445	TTS354Z
TITUS SPORT 4X54W L840	7.20	96547454	TTS454Z
TITUS SPORT 2X80W L840	7.80	96548518	TTS280Z
TITUS SPORT 3X80W L840	8.10	96548528	TTS380Z
TITUS SPORT 4X80W L840	9.10	96547458	TTS480Z
Titus Sport High frequency, emergency			
TITUS SPORT 2X49W E3 L840	9.50	96548509	TTS249ZE
TITUS SPORT 3X49W E3 L840	10.00	96239886	TTS349ZE
TITUS SPORT 4X49W E3 L840	8.80	96548533	TTS449ZE
TITUS SPORT 3X54W E3 L840	8.55	96548524	TTS354ZE
TITUS SPORT 4X54W E3 L840	8.80	96547465	TTS454ZE
TITUS SPORT 2X80W E3 L840	10.00	96548519	TTS280ZE
TITUS SPORT 3X80W E3 L840	9.80	96548529	TTS380ZE
TITUS SPORT 4X80W E3 L840	10.00	96548542	TTS480ZE
Titus Sport High frequency, through wired			
TITUS SPORT 2X49W TW L840	7.90	96547438	TTS249ZTW
TITUS SPORT 3X49W TW L840	8.20	96547444	TTS349ZTW
TITUS SPORT 4X49W TW L840	8.30	96547453	TTS449ZTW
TITUS SPORT 2X54W TW L840	6.90	96547440	TTS254ZTW
TITUS SPORT 3X54W TW L840	7.20	96547446	TTS354ZTW
TITUS SPORT 4X54W TW L840	7.30	96547457	TTS454ZTW
TITUS SPORT 3X80W TW L840	8.20	96547449	TTS380ZTW
TITUS SPORT 4X80W TW L840	9.20	96547461	TTS480ZTW
Titus Sport Through wired, emergency			
TITUS SPORT 3X54W E3 TW L840	8.55	96548527	TTS354ZETW
TITUS SPORT 4X54W TW E3 L840	8.90	96548541	TTS454ZETW



Lamps

T5 (FDH) G5 49-80W

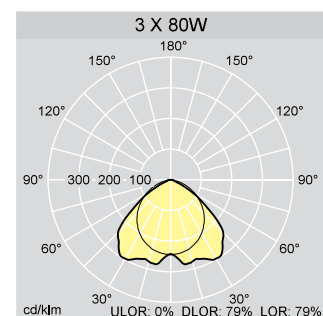
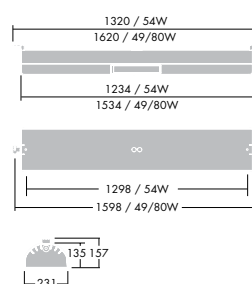
Standards

CE EN 60598 IP23 IK09 T_a30 T_a45



Description	Wt (kg)	SAP Code	Cat. No.
Titus Sport High frequency, dimmable			
TITUS SPORT 2X49W HFI L840	9.00	96550469	TTS249D
TITUS SPORT 3X49W HFI L840	8.20	96550477	TTS349D
TITUS SPORT 4X49W HFI L840	9.20	96550484	TTS449D
TITUS SPORT 2X54W HFI L840	7.42	96550473	TTS254D
TITUS SPORT 3X54W HFI L840		96550479	TTS354D
TITUS SPORT 4X54W HFI L840	7.10	96550488	TTS454D
TITUS SPORT 2X80W HFI L840	9.00	96550495	TTS280D
TITUS SPORT 3X80W HFI L840	8.20	96550481	TTS380D
TITUS SPORT 4X80W HFI L840	9.00	96550491	TTS480D
Titus Sport Dimmable, emergency			
TITUS SPORT 2X49W HFI E3 L840	9.70	96550470	TTS249DE
TITUS SPORT 3X49W HFI E3 L840	10.50	96550476	TTS349DE
TITUS SPORT 4X49W HFI E3 L840	10.00	96550494	TTS449DE
TITUS SPORT 3X54W HFI E3 L840	8.55	96550480	TTS354DE
TITUS SPORT 4X54W HFI E3 L840	8.90	96550486	TTS454DE
TITUS SPORT 3X80W HFI E3 L840	9.80	96550493	TTS380DE
TITUS SPORT 4X80W HFI E3 L840	10.00	96550490	TTS480DE
Titus Sport High frequency, dimmable, through wired			
TITUS SPORT 3X49W HFI TW L840	8.20	96550478	TTS349DTW
TITUS SPORT 4X49W HFI TW L840	9.40	96550485	TTS449DTW
TITUS SPORT 2X54W HFI TW L840	7.60	96550472	TTS254DTW
TITUS SPORT 4X54W HFI TW L840	8.00	96550489	TTS454DTW
TITUS SPORT 2X80W HFI TW L840	9.50	96550475	TTS280DTW
TITUS SPORT 3X80W HFI TW L840	8.40	96550482	TTS380DTW
TITUS SPORT 4X80W HFI TW L840	9.40	96550492	TTS480DTW
Titus Sport Dimmable, through wired, emergency			
TITUS SPORT 2X80W HFI TW E3 L840	10.50	96550474	TTS280DETW
Titus Sport Attachments			
TITUS LOUVRE 28W/54W DSB	0.001	96010224	TTI28/54LVD
TITUS LOUVRE 28W/54W PSB	0.85	96010222	TTI28/54LVP
TITUS LOUVRE 35W/49W PSB	0.95	96010223	TTI35/49LVP
TITUS LOUVRE B 35W/49W DSB	0.001	96010225	TTI35/49LVD
TITUS LOUVRE L 35W/49W LL	1.20	96190692	TT35/49LV
Titus Sport Accessories			
TITUS GRILLE 28W/54W	0.001	96010228	TT28/54GR
TITUS GRILLE 35W/49W	0.001	96010229	TT35/49GR
WIRE SUSPENSION CLIP KIT TYPE 2	0.07	96010220	TTIWSK

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OUTDOOR LIGHTING



Recessed Architectural Floodlighting



LED D-CO LED
Recessed
276



LED E/Fact
278



NEW **LED** Linn
284



LED Mica
286

English Institute of Sport, Sheffield, UK

D-CO LED

Recessed



www.thornlighting.co.uk/DCOR

A range of LED based, recessed 'walk-over' luminaires for guidance and accent applications



- High quality finish
- Complies with the contact temperature standard (EN60598-2-13)
- Plastic end caps supplied for installation in concrete
- Pre-wired with 5m cable

Materials/Finish

Recessed units

Body: aluminium (except medium, PC/ABS blend), CNC Electroplating

Recessed housing: aluminium (except Maxi – ABS) with plastic end cap
Glass: toughened frosted or clear
Frames/Windows: stainless steel 316L

Gasket: anti-ageing silicone

Connection boxes

Body: PC/ABS blend

Installation/Mounting

Recessed units

In ground: To ensure efficient drainage, gravel must be used to a depth of 300mm beneath the housing. The plastic end cap prevents ingress of concrete during installation. All the fittings are supplied with 5m cable. Single Mini units are supplied pre-wired with cable with remote gear, recessed box, plastic end cap, connectors and 3 way connection box. Mini kit luminaires are individually pre-wired with cable and supplied with an 8 way connection box – including a specific connector for through wiring. If a single LED fails, the other system LEDs continues to operate. Connector has LED failure alerting display.

Static load: 500kg

Connection boxes

Two versions: One has 3 glanded cable entries 2 x PG13 (in) and 1 x PG9 (out), the other 8 glanded cable entries 2 x PG13 (in) and 6 x PG9 (out).

Specification

To specify state:

Round, walk-over recessed luminaires in 3 sizes, pre-wired with 5m cable, with recessed box and stainless steel frames. 3 LED colours: cool white 4000K, warm white 3000K and blue. Sealed to IP68 for the Mini size and IP67 for the Medium and Maxi sizes. For ground installation with transparent glass enclosure for illumination or frosted/dome windows for guidance. As Thorn D-CO LED outdoor recessed.



Lamps

LED 1.2-7.2W

Standards

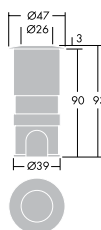
CE EN 60598 IP67 IP68 IK09 IK10

Ordering Guide

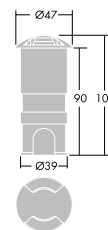
Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Recessed Mini			
D-CO R LED MINI 1X1,2W WHI 3K CL	0.50	96257228	DCS3K12C
D-CO R LED MINI 1X1,2W WHI 3K EW2	0.50	96257234	DCS3K12W2
D-CO R LED MINI 1X1,2W WHI 3K FR	0.50	96257231	DCS3K12F
D-CO R LED MINI 1X1,2W WHI 4K CL	0.50	96257227	DCS4K12C
D-CO LED Recessed Mini Kits			
D-CO R LED MINI 6/1X1,2W WHI 3K CL KIT	1.30	96257249	DCS3K12KITC
D-CO R LED MINI 6/1X1,2W WHI 3K EW2 KIT	1.30	96257255	DCS3K12KITW2
D-CO R LED MINI 6/1X1,2W WHI 3K FR KIT	1.30	96257252	DCS3K12KITF
D-CO R LED MINI 6/1X1,2W WHI 4K CL KIT	1.30	96257248	DCS4K12KITC
D-CO LED Recessed Medium			
D-CO R LED MEDIUM 1X1,2W BLU FR	0.70	96257238	DCORMBF
D-CO R LED MEDIUM 1X1,2W WHI 3K FR	0.70	96257237	DCORM3KF
D-CO R LED MEDIUM 1X1,2W WHI 4K FR	0.70	96257236	DCORM4KF
D-CO LED Recessed Maxi			
D-CO R LED MAXI 6X1,2W WHI 3K CL	3.00	96257240	DCL3K12C
D-CO R LED MAXI 6X1,2W WHI 4K CL	3.00	96257239	DCL4K12C
D-CO LED Connection boxes			
CON CABLE BOX 2 ENTRIES 1 EXIT IP67	0.30	96257258	DCCB21
CON CABLE BOX 2 ENTRIES 6 EXIT IP67	0.40	96257259	DCCB26

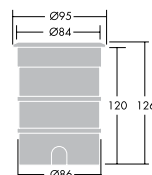
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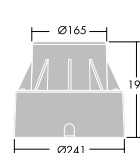
Mini CL/FR



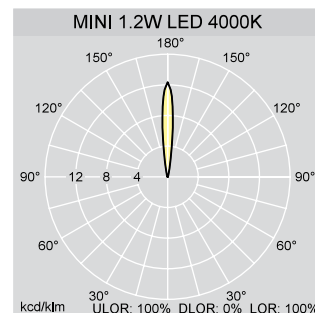
Mini EW2



Medium

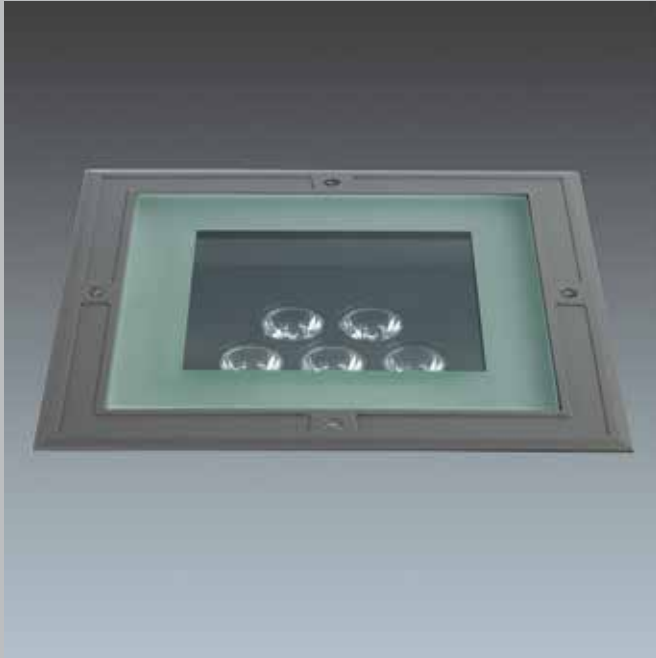


Maxi





A series of square or circular recessed walk-over luminaires compliant with EN60598-2-13: limited surface temperatures



- Designed in accordance with the new contact temperature norm: <math><100^{\circ}\text{C}</math> for conventional versions and <math><40^{\circ}\text{C}</math> for LED versions.
- Sealed to IP67 with die-cast aluminium body. Wide choice of sizes, frames, mounting depths, light sources and control technologies to suit application
- Tilting angle adjustment for semi-frosted glass versions (except asymmetrical light distribution (A/S) and E/Fact1 18W TC-T)
- Integral power supplies, except E/Fact 0 20W QR-CBC which needs an external 12Vac and E/Fact 1 RGB

Materials/Finish

Bodies: die-cast aluminium, ENAB44100 (copper free) with powdered paint finish for high corrosion resistance. Frame: Stainless steel AISI 316L (3mm thick) treated against corrosion or painted aluminium. Retaining screws: stainless steel. Front glass: toughened semi-frosted or frosted sodic glass.

Glass thicknesses:

E/Fact 0: 8mm.
E/Fact 1: 10mm.
E/Fact 2: 12mm.
E/Fact Slim 00: 8mm.
E/Fact Slim 1: 8mm.
E/Fact Slim 2: 10mm.
E/Fact Slim 3: 15mm.

Gasket: anti-ageing silicon

Recessing box: polypropylene

Cable for Slim versions:

H07RN-F, 1m for size 00 and 0.5m for E/Fact Slim size 1, 2 and 3.

Dome window attachments: painted aluminium and polycarbonate dome only for round E/Fact size 0.

Prismatic dome: toughened glass only for round E/Fact size 0 with aluminium frame. Anti-slip glass on request. Holographic films: non-yellowing polycarbonate.

All versions have integral power supply, except E/Fact 0 20W QR-CBC which needs an external 12Vac. All versions have electronic ballast except:

E/Fact size 1: 18W TC-T

E/Fact size 2: 26W TC-T and 35W/70W HIT

Installation/Mounting

In-ground installation:

Luminaire delivered complete with body, recessed box, frame and glass. For the Slim versions, the product is pre-wired. For outdoor applications, 30cm drainage gravel or any equivalent drainage system must be used beneath the housing to ensure water evacuation. The recessed box can be embedded in asphalt with good drainage once the temperature of the asphalt is approximately 80°C. Luminaire must be operated for 45 minutes without its front glass to avoid moisture building-up inside the housing.

In accordance to the norm EN60598-2-13, the maximum static load is 1000kg. Glow wire is 750°C.

Ceiling or wall installation:

Due to clips and safety cable accessories (to be ordered separately), all E/Fact versions can be installed in ceiling. Only E/Fact 0 and E/Fact Slim size 00 can be used in wall. Colour change RGB lighting technology available for E/Fact1 with a remote gear box and integral in E/Fact 2. For RGB versions, LEDs are driven by DMX control (not supplied). To facilitate quick installation, the wiring can be done via IP67 wiring connectors (SAP codes 96257910 or 96257911). For through wiring, IP67 connection boxes can be used (SAP codes 96257907, 96257908 or 96257909).

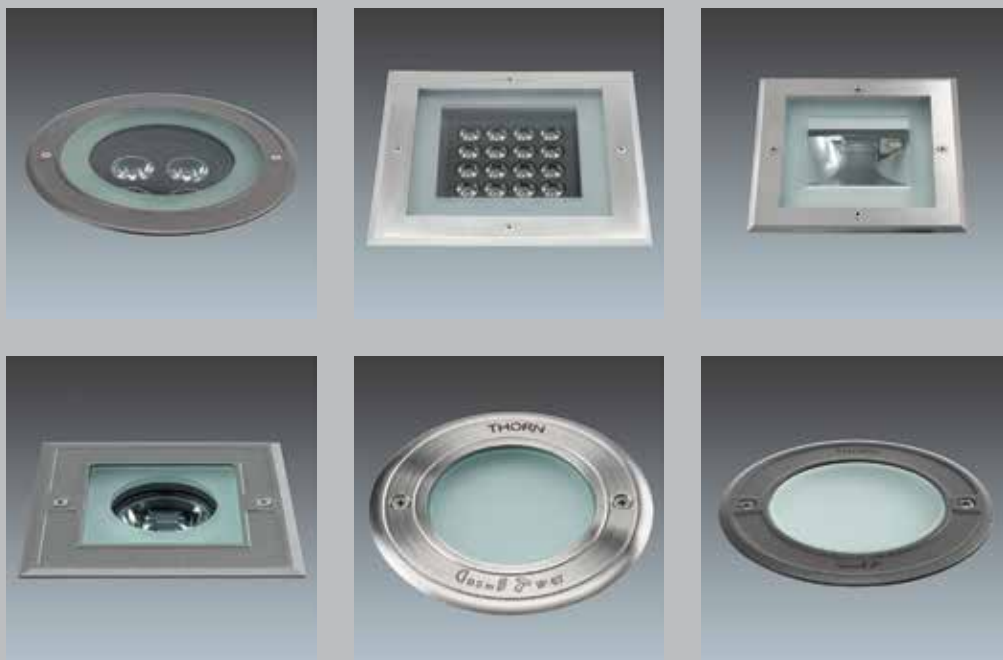
Holographic film set up in LED versions only: open the front glass and insert the holographic film under the glass thanks to the gasket with the smooth side of the film in contact of the glass. Rotate the film to obtain the required light effect.

Specification

To specify state:

Square and round recessed, low temperatures, walk-over luminaires with integral transformer, except for 20W QR-CBC, 7 sizes, 4 standard and 3 pre-wired shallow versions. Polypropylene recessed box and flat stainless steel/flat or dome windows painted aluminium frames. Die-cast aluminium body sealed to IP67. Choice of lamp types/LED versions. With a choice of 3 monochromatic colours for size 00, 0, 1, 2 and Slim size 3. Dynamic RGB versions for size 1 and 2 driven by DMX driver (included). Other DMX components ordered separately. For ground installation with front semi-frosted flat glass enclosure for illumination or frosted glass/dome/dome windows for guidance. Holographic films for LED versions only.

As Thorn E/Fact and E/Fact Slim.



Lamps

	HIT-CE (MT)	G12	35-70W
	HIT-DE-CE (MD)	RX7s	70W
	HIT-TC-CE (MT)	G8.5	20-35W
	LED		1-17.5W
	ML-F (FB)	GX53	6W
	QR-CB 51 (HRG)	GU5.3	20W
	TC-T (FSM)	GX24d-3	18-26W
	TC-DEL (FSQ)	G24q-1	10W
	TC-TEL (FSM)	GX24q-2	18W
	TC-F (FSS)	2G10	36W

Standards



Ordering Guide

All E/Fact versions are supplied without lamp, except LED versions.

All E/Fact Slim versions are supplied pre-wired.

The E/Fact Slim 00 is available with stainless steel or painted aluminium frame.

The E/fact Slim sizes 1, 2 and 3 are offered with stainless steel only.

The E/Fact 0 20W QR-CBC version needs an external 12 Vac (not supplied)

E/Fact 1 RGB version works with remote DMX/gear box. Use SAP code 96260652 for 2 products or 96260651 for 5 products.

Description	Wt (kg)	SAP Code	Cat. No.
E/Fact 0 LED Square			
EFACT C0 1X2W LED B AL FR	1.40	96107557	EF0B2SAF
EFACT C0 1X2W LED B RS FR	1.50	96107556	EF0B2SSF
EFACT C0 1X2W LED W 3K AL FR	1.40	96107544	EF03K2SAF
EFACT C0 1X2W LED W 3K RS FR	1.50	96107543	EF03K2SSF
EFACT C0 1X2W LED W 6K AL FR	1.40	96107555	EF06K2SAF
EFACT C0 1X2W LED W 6K RS FR	1.50	96107554	EF06K2SSF
EFACT C0 3X1,2W LED B 10D AL SF	1.50	96107948	EF0B12SA10SF
EFACT C0 3X1,2W LED B 10D RS SF	1.50	96107949	EF0B12SS10SF
EFACT C0 3X1,2W LED B 24D AL SF	1.58	96260339	EF0B12SA24SF
EFACT C0 3X1,2W LED B 24D RS SF	1.51	96260340	EF0B12SS24SF
EFACT C0 3X1,2W LED W 3K 10D AL SF	1.50	96107551	EF03K12SA10SF
EFACT C0 3X1,2W LED W 3K 10D RS SF	1.50	96107552	EF03K12SS10SF
EFACT C0 3X1,2W LED W 3K 24D AL SF	1.58	96260337	EF03K12SA24SF
EFACT C0 3X1,2W LED W 3K 24D RS SF	1.51	96260338	EF03K12SS24SF
EFACT C0 3X1,2W LED W 6K 10D AL SF	1.50	96107946	EF06K12SA10SF
EFACT C0 3X1,2W LED W 6K 10D RS SF	1.50	96107947	EF06K12SS10SF
EFACT C0 3X1,2W LED W 6K 24D AL SF	1.58	96260335	EF06K12SA24SF
EFACT C0 3X1,2W LED W 6K 24D RS SF	1.51	96260336	EF06K12SS24SF
E/Fact 0 LED Round			
EFACT R0 1X1,2W LED B AL EDO/W1	1.40	96107511	EF0B12RAW1
EFACT R0 1X1,2W LED B AL EDO/W2	1.40	96107512	EF0B12RAW2
EFACT R0 1X1,2W LED B AL EDO/W4	1.30	96107513	EF0B12RAW4
EFACT R0 1X1,2W LED W 3K AL EDO/W1	1.40	96107514	EF03K12RAW1
EFACT R0 1X1,2W LED W 3K AL EDO/W2	1.40	96107515	EF03K12RAW2
EFACT R0 1X1,2W LED W 3K AL EDO/W4	1.30	96107516	EF03K12RAW4
EFACT R0 1X1,2W LED W 6K AL EDO/W1	1.40	96107524	EF06K12RAW1
EFACT R0 1X1,2W LED W 6K AL EDO/W2	1.40	96107522	EF06K12RAW2
EFACT R0 1X1,2W LED W 6K AL EDO/W4	1.30	96107523	EF06K12RAW4
EFACT R0 1X2W LED B AL EDO	1.30	96107539	EF0B2RA
EFACT R0 1X2W LED B AL FR	1.30	96107538	EF0B2RAF
EFACT R0 1X2W LED B RS FR	1.40	96107540	EF0B2RSF

Description	Wt (kg)	SAP Code	Cat. No.
E/Fact 0 LED Round			
EFACT R0 1X2W LED W 3K AL EDO	1.30	96107531	EF03K2RA
EFACT R0 1X2W LED W 3K AL FR	1.30	96107530	EF03K2RAF
EFACT R0 1X2W LED W 3K RS FR	1.40	96107532	EF03K2RSF
EFACT R0 1X2W LED W 6K AL EDO	1.30	96107527	EF06K2RA
EFACT R0 1X2W LED W 6K AL FR	1.30	96107526	EF06K2RAF
EFACT R0 1X2W LED W 6K RS FR	1.40	96107528	EF06K2RSF
EFACT R0 3X1,2W 10D LED B AL SF	1.30	96107952	EF0B12RA10SF
EFACT R0 3X1,2W 10D LED B RS SF	1.40	96107953	EF0B12RS10SF
EFACT R0 3X1,2W 10D LED W 3K AL SF	1.30	96107548	EF03K12RA10SF
EFACT R0 3X1,2W 10D LED W 3K RS SF	1.40	96107549	EF03K12RS10SF
EFACT R0 3X1,2W 10D LED W 6K AL SF	1.30	96107950	EF06K12RA10SF
EFACT R0 3X1,2W 10D LED W 6K RS SF	1.40	96107951	EF06K12RS10SF
EFACT R0 3X1,2W LED B 24D AL SF	1.52	96260333	EF0B12RA24SF
EFACT R0 3X1,2W LED B 24D RS SF	1.59	96260334	EF0B12RS24SF
EFACT R0 3X1,2W LED W 3K 24D AL SF	1.52	96260329	EF03K12RA24SF
EFACT R0 3X1,2W LED W 3K 24D RS SF	1.59	96260330	EF03K12RS24SF
EFACT R0 3X1,2W LED W 6K 24D AL SF	1.52	96260331	EF06K12RA24SF
EFACT R0 3X1,2W LED W 6K 24D RS SF	1.59	96260332	EF06K12RS24SF
E/Fact 0 Square			
EFACT C0 20W QR-CB51 12V AL FR	0.90	96107568	EF020SAF
EFACT C0 20W QR-CB51 12V AL SF	0.90	96107569	EF020SASF
EFACT C0 20W QR-CB51 12V RS FR	1.00	96107567	EF020SSF
EFACT C0 20W QR-CB51 12V RS SF	1.00	96107566	EF020SSSF
EFACT C0 6W T2 GX53 SY AL FR	0.90	96107580	EF06SAF
EFACT C0 6W T2 GX53 SY RS FR	1.00	96107581	EF06SSF
E/Fact 0 Round			
EFACT R0 20W QR-CB51 12V AL FR	0.80	96107562	EF020RAF
EFACT R0 20W QR-CB51 12V AL SF	0.80	96107565	EF020RASF
EFACT R0 20W QR-CB51 12V RS FR	0.80	96107564	EF020RSF
EFACT R0 20W QR-CB51 12V RS SF	0.80	96107563	EF020RSSF
EFACT R0 6W T2 GX53 SY AL FR	0.80	96107579	EF06RAF
EFACT R0 6W T2 GX53 SY RS FR	0.80	96107578	EF06RSF



A series of square or circular recessed walk-over luminaires compliant with EN60598-2-13: limited surface temperatures



Description	Wt (kg)	SAP Code	Cat. No.
E/Fact 1 LED Square			
EFACT C1 4X2W SOFT LED B AL FR	2.40	96107694	EF1B2SAF
EFACT C1 4X2W SOFT LED B RS FR	2.60	96107695	EF1B2SSF
EFACT C1 4X2W SOFT LED W 3K AL FR	2.40	96107698	EF13K2SAF
EFACT C1 4X2W SOFT LED W 3K RS FR	2.60	96107699	EF13K2SSF
EFACT C1 4X2W SOFT LED W 6K AL FR	2.40	96107700	EF16K2SAF
EFACT C1 4X2W SOFT LED W 6K RS FR	2.60	96107701	EF16K2SSF
EFACT C1 4X2W ACC 7D LED B AL SF	2.40	96107686	EF1B2SA7SF
EFACT C1 4X2W ACC 7D LED B RS SF	2.60	96107687	EF1B2SS7SF
EFACT C1 4X2W ACC 7D LED W 3K AL SF	2.40	96107688	EF13K2SA7SF
EFACT C1 4X2W ACC 7D LED W 3K RS SF	2.60	96107689	EF13K2SS7SF
EFACT C1 4X2W ACC 7D LED W 6K AL SF	2.40	96107690	EF16K2SA7SF
EFACT C1 4X2W ACC 7D LED W 6K RS SF	2.60	96107691	EF16K2SS7SF
EFACT C1 4X2W ACC LED B 24D AL SF	2.57	96260347	EF1B2SA24SF
EFACT C1 4X2W ACC LED B 24D RS SF	2.74	96260348	EF1B2SS24SF
EFACT C1 4X2W ACC LED W 3K 24D AL SF	2.57	96260349	EF13K2SA24SF
EFACT C1 4X2W ACC LED W 3K 24D RS SF	2.74	96260350	EF13K2SS24SF
EFACT C1 4X2W ACC LED W 6K 24D AL SF	2.57	96260351	EF16K2SA24SF
EFACT C1 4X2W ACC LED W 6K 24D RS SF	2.74	96260352	EF16K2SS24SF
EFACT C1 4X2W ACC LED RGB AL SF	2.56	96260659	EF1RGB2SASF
EFACT C1 4X2W ACC LED RGB RS SF	2.73	96260660	EF1RGB2SSSF
EFACT C1 4X2W SOFT LED RGB AL FR	2.56	96260661	EF1RGB2SAF
EFACT C1 4X2W SOFT LED RGB RS FR	2.73	96260662	EF1RGB2SSF
E/Fact 1 LED Round			
EFACT R1 4X2W SOFT LED B AL FR	2.00	96107667	EF1B2RAF
EFACT R1 4X2W SOFT LED B RS FR	2.10	96107668	EF1B2RSF
EFACT R1 4X2W SOFT LED W 3K AL FR	2.00	96107671	EF13K2RAF
EFACT R1 4X2W SOFT LED W 3K RS FR	2.10	96107672	EF13K2RSF
EFACT R1 4X2W SOFT LED W 6K AL FR	2.00	96107673	EF16K2RAF
EFACT R1 4X2W SOFT LED W 6K RS FR	2.10	96107674	EF16K2RSF
EFACT R1 4X2W ACC 7D LED B AL SF	2.00	96107659	EF1B2RA7SF
EFACT R1 4X2W ACC 7D LED B RS SF	2.10	96107660	EF1B2RS7SF
EFACT R1 4X2W ACC 7D LED W 3K AL SF	2.00	96107661	EF13K2RA7SF
EFACT R1 4X2W ACC 7D LED W 3K RS SF	2.10	96107662	EF13K2RS7SF
EFACT R1 4X2W ACC 7D LED W 6K AL SF	2.00	96107663	EF16K2RA7SF
EFACT R1 4X2W ACC 7D LED W 6K RS SF	2.10	96107664	EF16K2RS7SF
EFACT R1 4X2W ACC LED B 24D AL SF	2.68	96260341	EF1B2RA24SF
EFACT R1 4X2W ACC LED B 24D RS SF	2.77	96260342	EF1B2RS24SF
EFACT R1 4X2W ACC LED W 3K 24D AL SF	2.68	96260343	EF13K2RA24SF
EFACT R1 4X2W ACC LED W 3K 24D RS SF	2.77	96260344	EF13K2RS24SF
EFACT R1 4X2W ACC LED W 6K 24D AL SF	2.68	96260345	EF16K2RA24SF
EFACT R1 4X2W ACC LED W 6K 24D RS SF	2.77	96260346	EF16K2RS24SF

Description	Wt (kg)	SAP Code	Cat. No.
E/Fact 1 LED Round			
EFACT R1 4X2W ACC LED RGB AL SF	2.42	96260663	EF1RGB2RAF
EFACT R1 4X2W ACC LED RGB RS SF	2.51	96260664	EF1RGB2RSF
EFACT R1 4X2W SOFT LED RGB AL FR	2.42	96260665	EF1RGB2SAF
EFACT R1 4X2W SOFT LED RGB RS FR	2.54	96260666	EF1RGB2RSF
E/Fact 1 Square			
EFACT C1 1/20W HIT G8.5 20D AL FR	2.70	96212068	EF120SAF
EFACT C1 1/20W HIT G8.5 20D AL SF	2.70	96212067	EF120SA20SF
EFACT C1 1/20W HIT G8.5 20D RS FR	2.90	96212070	EF120SSF
EFACT C1 1/20W HIT G8.5 20D RS SF	2.90	96212069	EF120SS20SF
EFACT C1 1X20W HIT G8,5 HF 6D AL SF	2.70	96107684	EF120SA6SF
EFACT C1 1X20W HIT G8,5 HF 6D RS SF	2.90	96107685	EF120SS6SF
EFACT C1 1X18W TC-T LO AL FR	2.90	96212061	EF118SAF
EFACT C1 1X18W TC-T LO AL SF	2.90	96212060	EF118SA SF
EFACT C1 1X18W TC-T LO RS FR	3.00	96212063	EF118SSF
EFACT C1 1X18W TC-T LO RS SF	3.00	96212062	EF118SSSF
E/Fact 1 Round			
EFACT R1 1/20W HIT G8.5 20D AL FR	2.30	96212080	EF120RAF
EFACT R1 1/20W HIT G8.5 20D AL SF	2.30	96212079	EF120RA20SF
EFACT R1 1/20W HIT G8.5 20D RS FR	1.70	96212082	EF120RSF
EFACT R1 1/20W HIT G8.5 20D RS SF	2.40	96212081	EF120RS20SF
EFACT R1 1X18W TC-T LO AL FR	2.50	96212072	EF118RAF
EFACT R1 1X18W TC-T LO AL SF	2.50	96212071	EF118RAF SF
EFACT R1 1X18W TC-T LO RS FR	2.60	96212074	EF118RSF
EFACT R1 1X18W TC-T LO RS SF	2.60	96212073	EF118RS SF
EFACT R1 1X20W HIT G8,5 HF 6D AL SF	2.30	96107657	EF120RA6SF
EFACT R1 1X20W HIT G8,5 HF 6D RS SF	2.40	96107658	EF120RS6SF
E/Fact 2 LED Square			
EFACT C2 7X2W ACC LED RGB DMX AL SF	4.30	96107782	EF2RGB2SASF
EFACT C2 7X2W ACC LED RGB DMX RS SF	4.60	96107783	EF2RGB2SSSF
EFACT C2 7X2W SOFT LED B AL FR	4.20	96107776	EF2B2SAF
EFACT C2 7X2W SOFT LED B RS FR	4.50	96107777	EF2B2SSF
EFACT C2 7X2W SOFT LED W 3K AL FR	4.20	96107778	EF23K2SAF
EFACT C2 7X2W SOFT LED W 3K RS FR	4.50	96107779	EF23K2SSF
EFACT C2 7X2W SOFT LED W 6K AL FR	4.20	96107780	EF26K2SAF
EFACT C2 7X2W SOFT LED W 6K RS FR	4.50	96107781	EF26K2SSF
EFACT C2 7X2W ACC 7D LED B AL SF	4.20	96107770	EF2B2SA7SF
EFACT C2 7X2W ACC 7D LED B RS SF	4.50	96107771	EF2B2SS7SF
EFACT C2 7X2W ACC 7D LED W 3K AL SF	4.20	96107772	EF23K2SA7SF
EFACT C2 7X2W ACC 7D LED W 3K RS SF	4.50	96107773	EF23K2SS7SF

Description	Wt (kg)	SAP Code	Cat. No.
E/Fact 2 LED Square			
EFACT C2 7X2W ACC 7D LED W 6K AL SF	4.20	96107774	EF26K2SA7SF
EFACT C2 7X2W ACC 7D LED W 6K RS SF	4.50	96107775	EF26K2SS7SF
EFACT C2 7X2W ACC LED B 24D AL SF	4.85	96260359	EF2B2SA24SF
EFACT C2 7X2W ACC LED B 24D RS SF	5.15	96260360	EF2B2SS24SF
EFACT C2 7X2W ACC LED W 3K 24D AL SF	4.85	96260361	EF23K2SA24SF
EFACT C2 7X2W ACC LED W 3K 24D RS SF	5.15	96260362	EF23K2SS24SF
EFACT C2 7X2W ACC LED W 6K 24D AL SF	4.85	96260363	EF26K2SA24SF
EFACT C2 7X2W ACC LED W 6K 24D RS SF	5.15	96260364	EF26K2SS24SF
EFACT C2 4X3X1,2W SOFT LED RGB DMX AL FR	4.30	96107762	EF2RGB12SAF
EFACT C2 4X3X1,2W SOFT LED RGB DMX RS FR	4.60	96107763	EF2RGB12SSF
E/Fact 2 LED Round			
EFACT R2 7X2W SOFT LED W 6K AL FR	3.70	96107737	EF26K2RAF
EFACT R2 7X2W SOFT LED W 6K RS FR	3.90	96107738	EF26K2RSF
EFACT R2 7X2W ACC LED RGB DMX AL SF	3.80	96107739	EF2RGB2RASf
EFACT R2 7X2W ACC LED RGB DMX RS SF	4.00	96107740	EF2RGB2RSSf
EFACT R2 7X2W SOFT LED B AL FR	3.70	96107733	EF2B2RAF
EFACT R2 7X2W SOFT LED B RS FR	3.90	96107734	EF2B2RSF
EFACT R2 7X2W SOFT LED W 3K AL FR	3.70	96107735	EF23K2RAF
EFACT R2 7X2W SOFT LED W 3K RS FR	3.90	96107736	EF23K2RSF
EFACT R2 7X2W ACC 7D LED B AL SF	3.70	96107727	EF2B2RA7SF
EFACT R2 7X2W ACC 7D LED B RS SF	3.90	96107728	EF2B2RS7SF
EFACT R2 7X2W ACC 7D LED W 3K AL SF	3.70	96107729	EF23K2RA7SF
EFACT R2 7X2W ACC 7D LED W 3K RS SF	3.90	96107730	EF23K2RS7SF
EFACT R2 7X2W ACC 7D LED W 6K AL SF	3.70	96107731	EF26K2RA7SF
EFACT R2 7X2W ACC 7D LED W 6K RS SF	3.90	96107732	EF26K2RS7SF
EFACT R2 7X2W ACC LED B 24D AL SF	4.49	96260353	EF2B2RA24SF
EFACT R2 7X2W ACC LED B 24D RS SF	4.77	96260354	EF2B2RS24SF
EFACT R2 7X2W ACC LED W 3K 24D AL SF	4.49	96260355	EF23K2RA24SF
EFACT R2 7X2W ACC LED W 3K 24D RS SF	4.77	96260356	EF23K2RS24SF
EFACT R2 7X2W ACC LED W 6K 24D AL SF	4.74	96260357	EF26K2RA24SF
EFACT R2 7X2W ACC LED W 6K 24D RS SF	4.50	96260358	EF26K2RS24SF
EFACT R2 4X3X1,2W SOFT LED RGB DMX AL FR	3.80	96107719	EF2RGB12RAF
EFACT R2 4X3X1,2W SOFT LED RGB DMX RS FR	4.00	96107720	EF2RGB12RSF
E/Fact 2 Square			
EFACT C2 1X26W TC-T GX24D-3 AL FR	4.70	96107754	EF226SAF
EFACT C2 1X26W TC-T GX24D-3 RS FR	5.00	96107755	EF226SSF
EFACT C2 1X35W HIT G12 HF 23D AL SF	5.30	96107757	EF235SA23SF
EFACT C2 1X35W HIT G12 HF 23D RS SF	5.60	96107759	EF235SS23SF
EFACT C2 1X35W HIT G12 HF 44D AL FR	5.30	96107756	EF235SA44F
EFACT C2 1X35W HIT G12 HF 44D RS FR	5.60	96107758	EF235SS44F
EFACT C2 1X35W HIT G12 HF 44D AL SF	5.30	96107760	EF235SA4SF
EFACT C2 1X35W HIT G12 HF 44D RS SF	5.60	96107761	EF235SS4SF
EFACT C2 1X70W HIT G12 HF 24D WG AL SF	6.00	96107765	EF270SAWG24SF
EFACT C2 1X70W HIT G12 HF 24D WG RS SF	6.30	96107767	EF270SSWG24SF
EFACT C2 1X70W HIT G12 HF 44D WG AL FR	6.00	96107764	EF270SAWG44F
EFACT C2 1X70W HIT G12 HF 44D WG RS FR	6.30	96107766	EF270SSWG44F
EFACT C2 1X70W HIT G12 HF 5D WG AL SF	6.00	96107768	EF270SAWG5SF
EFACT C2 1X70W HIT G12 HF 5D WG RS SF	6.30	96107769	EF270SSWG5SF
E/Fact 2 Round			
EFACT R2 1X26W TC-T GX24D-3 AL FR	3.10	96107711	EF226RAF
EFACT R2 1X26W TC-T GX24D-3 RS FR	4.30	96107712	EF226RSF
EFACT R2 1X35W HIT G12 HF 23D AL SF	4.80	96107714	EF235RA23SF
EFACT R2 1X35W HIT G12 HF 23D RS SF	5.00	96107716	EF235RS23SF
EFACT R2 1X35W HIT G12 HF 44D AL FR	3.80	96107713	EF235RA44F
EFACT R2 1X35W HIT G12 HF 44D RS FR	5.00	96107715	EF235RS44F
EFACT R2 1X35W HIT G12 HF 44D AL SF	4.80	96107717	EF235RA4SF
EFACT R2 1X35W HIT G12 HF 44D RS SF	5.00	96107718	EF235RS4SF
EFACT R2 1X70W HIT G12 HF 24D WG AL SF	5.50	96107722	EF270RAWG24SF
EFACT R2 1X70W HIT G12 HF 24D WG RS SF	5.70	96107724	EF270RSWG24SF
EFACT R2 1X70W HIT G12 HF 44D WG AL FR	5.50	96107721	EF270RAWG44F
EFACT R2 1X70W HIT G12 HF 44D WG RS FR	5.70	96107723	EF270RSWG44F
EFACT R2 1X70W HIT G12 HF 5D WG AL SF	5.50	96107725	EF270RAWG5SF
EFACT R2 1X70W HIT G12 HF 5D WG RS SF	5.70	96107726	EF270RSWG5SF

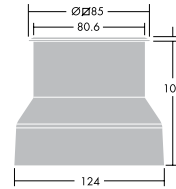
Description	Wt (kg)	SAP Code	Cat. No.
E/Fact Slim 00 LED Square			
EFACT C00 SLIM 1X1,2W LED B AL FR	0.60	96107502	EF50B12SAF
EFACT C00 SLIM 1X1,2W LED B RS FR	0.70	96107501	EF50B12SSF
EFACT C00 SLIM 1X1,2W LED W 3K AL FR	0.60	96107500	EF50K12SAF
EFACT C00 SLIM 1X1,2W LED W 3K RS FR	0.70	96107499	EF50K12SSF
EFACT C00 SLIM 1X1,2W LED W 6K AL FR	0.60	96107498	EF50K12SAF
EFACT C00 SLIM 1X1,2W LED W 6K RS FR	0.70	96107497	EF50K12SSF
EFACT C00 SLIM 1X1,2W LED B 24D AL SF	0.70	96260327	EF50B12SA24SF
EFACT C00 SLIM 1X1,2W LED B 24D RS SF	0.83	96260328	EF50B12SS24SF
EFACT C00 SLIM 1X1,2W LED B 7D AL SF	0.60	96107474	EF50B12SA7SF
EFACT C00 SLIM 1X1,2W LED B 7D RS SF	0.80	96107473	EF50B12SS7SF
EFACT C00 SLIM 1X1,2W LED W 3K 24D AL SF	0.70	96260325	EF50K12SA24SF
EFACT C00 SLIM 1X1,2W LED W 3K 24D RS SF	0.83	96260326	EF50K12SS24SF
EFACT C00 SLIM 1X1,2W LED W 3K 7D AL SF	0.60	96107472	EF50K12SA7SF
EFACT C00 SLIM 1X1,2W LED W 3K 7D RS SF	0.80	96107471	EF50K12SS7SF
EFACT C00 SLIM 1X1,2W LED W 6K 24D AL SF	0.70	96260323	EF50K12SA24SF
EFACT C00 SLIM 1X1,2W LED W 6K 24D RS SF	0.83	96260324	EF50K12SS24SF
EFACT C00 SLIM 1X1,2W LED W 6K 7D AL SF	0.60	96107470	EF50K12SA7SF
EFACT C00 SLIM 1X1,2W LED W 6K 7D RS SF	0.80	96107469	EF50K12SS7SF
E/Fact Slim 00 LED Round			
EFACT R00 SLIM 1X1,2W LED B AL FR	0.50	96107488	EF50B12RAF
EFACT R00 SLIM 1X1,2W LED B RS FR	0.60	96107487	EF50B12RSF
EFACT R00 SLIM 1X1,2W LED W 3K AL FR	0.50	96107486	EF50K12RAF
EFACT R00 SLIM 1X1,2W LED W 3K RS FR	0.60	96107485	EF50K12RSF
EFACT R00 SLIM 1X1,2W LED W 6K AL FR	0.50	96107484	EF50K12RAF
EFACT R00 SLIM 1X1,2W LED W 6K RS FR	0.60	96107483	EF50K12RSF
EFACT R00 SLIM 1X1,2W LED B 24D AL SF	0.74	96260321	EF50B12RA24SF
EFACT R00 SLIM 1X1,2W LED B 24D RS SF	0.86	96260322	EF50B12RS24SF
EFACT R00 SLIM 1X1,2W LED B 7D AL SF	0.50	96107460	EF50B12RA7SF
EFACT R00 SLIM 1X1,2W LED B 7D RS SF	0.60	96107459	EF50B12RS7SF
EFACT R00 SLIM 1X1,2W LED W 3K 24D AL SF	0.74	96260319	EF50K12RA24SF
EFACT R00 SLIM 1X1,2W LED W 3K 24D RS SF	0.86	96260320	EF50K12RS24SF
EFACT R00 SLIM 1X1,2W LED W 3K 7D AL SF	0.50	96107458	EF50K12RA7SF
EFACT R00 SLIM 1X1,2W LED W 3K 7D RS SF	0.60	96107457	EF50K12RS7SF
EFACT R00 SLIM 1X1,2W LED W 6K 24D AL SF	0.74	96259853	EF50K12RA24SF
EFACT R00 SLIM 1X1,2W LED W 6K 24D RS SF	0.86	96260318	EF50K12RS24SF
EFACT R00 SLIM 1X1,2W LED W 6K 7D AL SF	0.50	96107456	EF50K12RA7SF
EFACT R00 SLIM 1X1,2W LED W 6K 7D RS SF	0.60	96107455	EF50K12RS7SF
E/Fact Slim 1 Square			
EFACT C1 SLIM 10W TC-DEL HF RS FR	3.20	96107798	EF5110SSF
E/Fact Slim 1 Round			
EFACT R1 SLIM 10W TC-DEL HF RS FR	2.80	96107797	EF5110RSF
E/Fact Slim 2 Square			
EFACT C2 SLIM 18W TC-DE24-Q2 RS FR	5.50	96107913	EF5218SSF
EFACT C2 SLIM 20W HIT G8,5 A/S RS SF	5.70	96107914	EF5220SSASF
EFACT C2 SLIM 20W HIT G8,5 RS FR A/S	6.30	96259847	EF5220SSAF
EFACT C2 SLIM 35W HIT G8,5 RS FR A/S	6.40	96259848	EF5235SSASF
EFACT C2 SLIM 35W HIT G8,5 WG RSSF A/S	5.70	96107800	EF5235SSWGASF
E/Fact Slim 2 Round			
EFACT R2 SLIM 18W TC-DE24-Q2 RS FR	4.70	96107911	EF5218RSF
EFACT R2 SLIM 20W HIT G8,5 RS FR A/S	5.60	96259849	EF5220RSASF
EFACT R2 SLIM 20W HIT G8,5 RS SF A/S	4.90	96107912	EF5220RSASF
EFACT R2 SLIM 35W HIT G8,5 WG RS SF A/S	4.90	96107799	EF5235RSWGASF
EFACT R2 SLIM 35W HIT TC-CE G8,5 RSFR AS	5.60	96259850	EF5235RSF
E/Fact Slim 3 LED Square			
EFACT C3 SLIM 16X1,2W AC 7DLED W 3K RSSF	10.50	96107806	EF533K12SS7SF
EFACT C3 SLIM 16X1,2W AC 7DLED W 6K RSSF	10.50	96107805	EF536K12SS7SF
EFACT C3 SLIM 16X1,2W ACC 7D LED B RS SF	10.50	96107807	EF53B12SS7SF
EFACTC3 SLIM 16X1,2W AC 24DLED B RS SF	7.95	96260370	EF53B12SS24SF
EFACTC3 SLIM 16X1,2W AC 24DLED W 3K RSSF	7.85	96260369	EF533K12SS24SF
EFACTC3 SLIM 16X1,2W AC 24DLED W 6K RSSF	7.85	96260368	EF536K12SS24SF
E/Fact Slim 3 LED Round			
EFACT R3 SLIM 16X1,2W AC 7DLED W 3K RSSF	8.90	96107803	EF533K12RS7SF
EFACT R3 SLIM 16X1,2W AC 7DLED W 6K RSSF	8.90	96107802	EF536K12RS7SF
EFACT R3 SLIM 16X1,2W ACC 7D LED B RS SF	8.90	96107804	EF53B12RS7SF
EFACTR3 SLIM 16X1,2W AC 24DLED B RS SF	8.80	96260367	EF53B12RS24SF
EFACTR3 SLIM 16X1,2W AC 24DLED W 3K RSSF	8.80	96260366	EF533K12RS24SF
EFACTR3 SLIM 16X1,2W AC 24DLED W 6K RSSF	8.80	96260365	EF536K12RS24SF



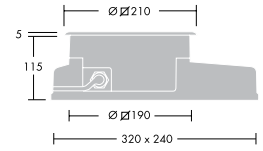
A series of square or circular recessed walk-over luminaires compliant with EN60598-2-13: limited surface temperatures

Description	Wt (kg)	SAP Code	Cat. No.
E/Fact Slim 3 Square			
EFACT C3 SLIM 1X36W TC-F/2G10 RS FR	10.20	96107921	EFS336SSF
EFACT C3 SLIM 1X70W HIT-DE RX7S RS SF	10.20	96107922	EFS370SSSF
EFACT C3 SLIM 70W HIT-DE RX7S RS FR A/S	11.60	96259852	EFS370SSAF
E/Fact Slim 3 Round			
EFACT R3 SLIM 1X36W TC-F/2G10 RS FR	8.60	96107923	EFS336RSF
EFACT R3 SLIM 1X70W HIT-DE RX7S RS SF	8.60	96107924	EFS370RSSF
EFACT R3 SLIM 70W HIT-DE RX7S RS FR A/S	10.10	96259851	EFS370RSFA
E/Fact LED holographic films			
EFACT C0 LED HOLO FILM 60X1°	0.45	96260412	EF05
EFACT C0 LED HOLO FILM 60X60°	0.45	96260413	EF0S60
EFACT C0 LED HOLO FILM 75X45°	0.45	96260414	EF0S45
EFACT C1 LED HOLO FILM 60X1°	0.95	96260418	EF1S1
EFACT C1 LED HOLO FILM 60X60°	0.95	96260419	EF1S60
EFACT C1 LED HOLO FILM 75X45°	0.95	96260420	EF1S45
EFACT C2 LED HOLO FILM 60X1°	0.95	96260424	EF2S1
EFACT C2 LED HOLO FILM 60X60°	0.95	96260425	EF2S60
EFACT C2 LED HOLO FILM 75X45°	0.95	96260426	EF2S45
EFACT R1 LED HOLO FILM 60X1°	0.95	96260421	EF1R1
EFACT R1 LED HOLO FILM 60X60°	0.95	96260422	EF1R60
EFACT R1 LED HOLO FILM 75X45°	0.95	96260423	EF1R45
EFACT R2 LED HOLO FILM 60X1°	0.95	96260427	EF2R1
EFACT R2 LED HOLO FILM 60X60°	0.95	96260428	EF2R60
EFACT R2 LED HOLO FILM 75X45°	0.95	96260429	EF2R45
E/Fact Remote DMX drivers			
EFACT 1 100W RGB REMOTE DMX SYSTEM		96260651	EFRGB100
EFACT 1 20W RGB REMOTE DMX SYSTEM	1.00	96260652	EFRGB20
E/Fact Accessories			
CON CABLE 3/3X1,5 ² IP67 ZUM	0.10	60800549	EFCC3X3
CONNECT CABLE 2/3X1,5 ²⁻⁴ TH390 IP68	0.05	96260809	EFCC2X3
CONNECT CABLE 2/4X1,5 ²⁻⁴ TH391 IP68	0.05	96260810	EFCC2X4
CONNECT CABLE BOX 3/4X2,5 ² IP67	0.40	96257908	EFCB3X4
CONNECT CABLE BOX 4/6X2,5 ² IP67	0.77	96257909	EFCB4X6
EFACT 0 MCE KIT	0.10	96257847	EF0CMKIT
EFACT 1 MCE KIT	0.17	96257848	EF1CMKIT
EFACT 2 35/70W LV	0.05	96257853	EF2LV
EFACT 2 MCE KIT	0.21	96257849	EF2CMKIT
EFACT SLIM 00 MCE KIT	0.01	96257846	EFSOCMKIT
EFACT SLIM 1 MCE KIT	0.17	96257850	EFS1CMKIT
EFACT SLIM 2 MCE KIT	0.17	96257851	EFS2CMKIT
EFACT SLIM 3 MCE KIT	0.19	96257852	EFS3CMKIT

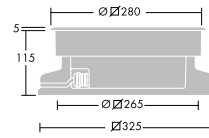
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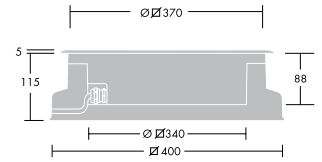
EFact Slim 00



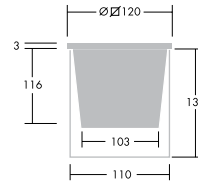
EFact Slim 1



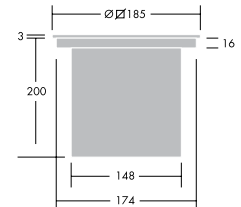
EFact Slim 2



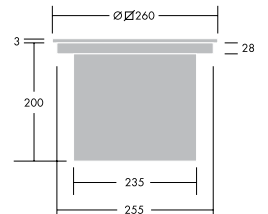
EFact Slim 3



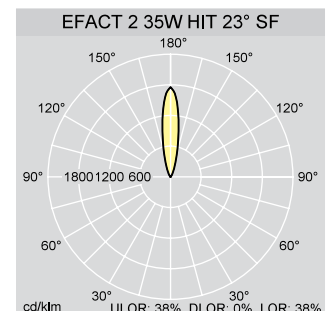
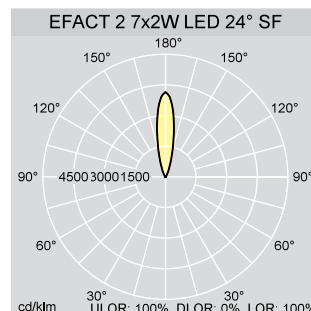
EFact 0

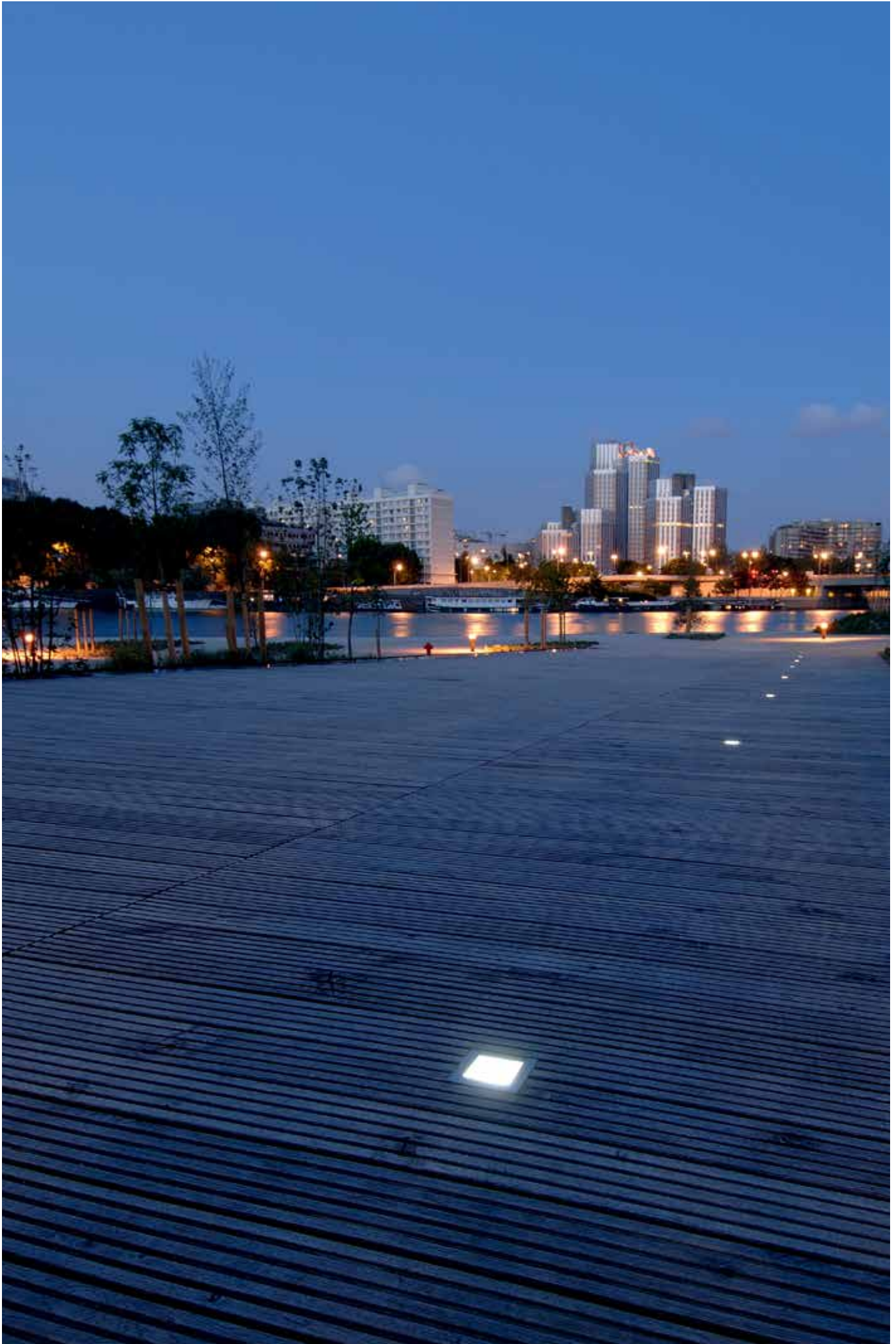


EFact 1



EFact 2





NEW

Linn


www.thornlighting.co.uk/LINN

A complete modular wall recessed range offering extensive choice for all types of pathway lighting applications



- Modular design offers a wide range of lighting possibilities
- All integral in a compact body for easy integration with pre-ordered recessed housing
- Square or rectangular shape with a choice of four frame designs to complement all environments

Materials/Finish

Body: die-cast painted aluminium EN AB 47100 sanded grey Akzo Nobel 900

Glass: tempered glass, 6mm for square versions and 8mm for rectangular versions

Recessed housing: polypropylene 40% Talc added and polystyrene cores

Gasket: Dutral
Fits thread: EPDM

Screws: stainless steel

Installation/Mounting

Install the recessed housing inside the wall. Connect the light source to the mains supply. Fix the body to the recessed housing. Attach the Linn luminaire to the chosen frame with four Torx screws with central pin. Through wiring is possible for the rectangular versions.

Specification

To specify state:

Modular wall recessed range for pathway lighting offering extensive choice including five light distributions, two light sources (LED and CFL), two white LED colour temperatures (3200K and 4200K) and four frame designs (frosted glass, visor, baffle and grid) in a square or rectangular shape, plus clear glass in the performance version.

As Thorn Linn.

Ordering Guide

All Linn luminaires require recessed box to prepare the wall installation, to be ordered separately.

Except for the rectangular performance LED version, which is delivered complete, you need to order one body complete with light source module plus one frame version.

If you need standard Allen screws instead of the Torx with central pin, order the code 96262922 or 96262927 depending on the Linn shape.

For the rectangular CFL version, the lamp needs to be ordered separately.

The CFL body cannot support the baffle frame version.

Description	Wt (kg)	SAP Code	Cat. No.
Linn Square body			
LINN SQ 3,4W LED WHI 3200K	0.30	96262124	LN32K34S
LINN SQ 3,4W LED WHI 4200K	0.30	96262125	LN42K34S
Linn Rectangular body			
LINN RCT 18W TC-T G24D-2	0.96	96262128	LN18R
LINN RCT 11,5W LED WHI 3200K	0.67	96262126	LN32K115R
LINN RCT 11,5W LED WHI 4200K	0.67	96262127	LN42K115R
Linn Performance versions			
LINN RCT 11W LED WHIT 3200K EFL CL GL	1.05	96262137	LN32K11R
LINN RCT 11W LED WHIT 4200K EFL CL GL	1.05	96262138	LN42K11R
Linn Square frames			
LINN SQ BAF FRAME	0.21	96262131	LNFSB
LINN SQ FR GL FRAME	0.16	96262129	LNFSF
LINN SQ GRID FRAME	0.20	96262132	LNFSGD
LINN SQ VISOR FRAME	0.20	96262130	LNFSV
Linn Rectangular frames			
LINN RCT BAF FRAME	0.44	96262135	LNFRB
LINN RCT FR GL FRAME	0.36	96262133	LNFRF
LINN RCT GRID FRAME	0.47	96262136	LNFRGD
LINN RCT VISOR FRAME	0.44	96262134	LNFRV
Linn Recessing boxes			
LINN SQ ALLEN SCREWS X 4	0.20	96262922	LNSSCRW4
LINN RCT ALLEN SCREWS X 4	0.20	96262927	LNRSRW4
LINN RCT RBOX	0.25	96262140	LNRRB
LINN SQ RBOX	0.11	96262139	LNRSB

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Frosted glass frame version



Visor frame version



Performance version





Baffle frame version



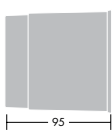
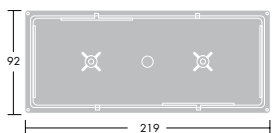
Grid frame version

Lamps

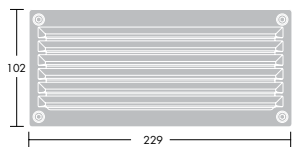
-  LED 11.3W
-  TC-T (FSM) GX24d-2 18W

Standards

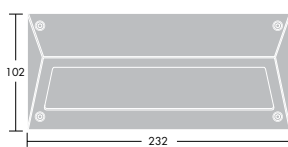
-  EN 60598
 - IP65
 - IK10
 - T_a35
 - 850 °C
- 



Rectangular recessing box



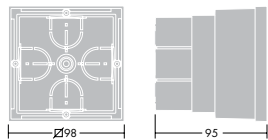
Rectangular grid frame



Rectangular visor frame



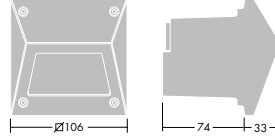
Rectangular frosted glass and baffle frame



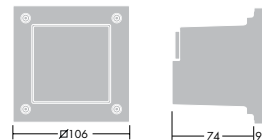
Square recessing box



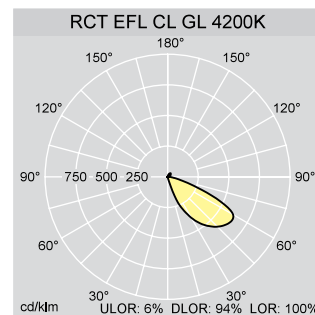
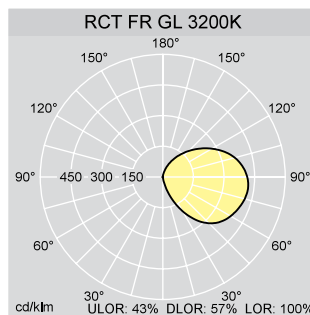
Square grid frame



Square visor frame



Square frosted glass and baffle frame





A series of circular recessed drive-over luminaires compliant with EN60598-2-13: limited surface temperatures



- Designed in accordance with the new contact temperature norm: <math><80^{\circ}\text{C}</math> for conventional versions and <math><40^{\circ}\text{C}</math> for LED versions.
- Sealed to IP67 with die-cast aluminium body. Wide choice of sizes, frames, mounting depths, light sources and control technologies to suit application
- Tilting angle adjustment for semi-frosted glass versions (except for asymmetrical light distributions A/S)
- Integral power supplies, except for Mica Slim A RGB versions

Materials/Finish

Bodies: die-cast aluminium, ENAB44100 (copper free) with powdered paint finish for high corrosion resistance.
 Frame: Stainless steel AISI 316L (3mm thick) treated against corrosion or painted aluminium.
 Retaining screws: stainless steel
 Front glass: toughened semi-frosted, clear or frosted sodic glass.
 Glass thicknesses:
 Mica A, Slim A, I, Slim I and B: 19mm with stainless steel frame and 15 with painted aluminium. Mica Slim SS and S: 15mm with stainless steel frame and 12mm with painted aluminium frame.
 Gasket: anti-ageing silicon.
 Recessing box: polypropylene.
 Cable: H07RN-F 0.5m long for Mica Slim and Mica A versions and 0.8m long for Mica I and Mica B.
 Dome window attachments: painted aluminium. Dome: glass Fresnel lens on Mica A 35W HIT-CE with aluminium frame only. Anti-slip glass on request. Holographic films: non-yellowing polycarbonate. All versions have integral power supply except for Mica Slim A RGB versions. All versions have electronic ballast except: Mica A: 35W HIT-CE 14D Mica I: 70/150W HST/HIT and 70W HIT Mica B: 70/150W HIT/HST. Mica Slim A RGB version.

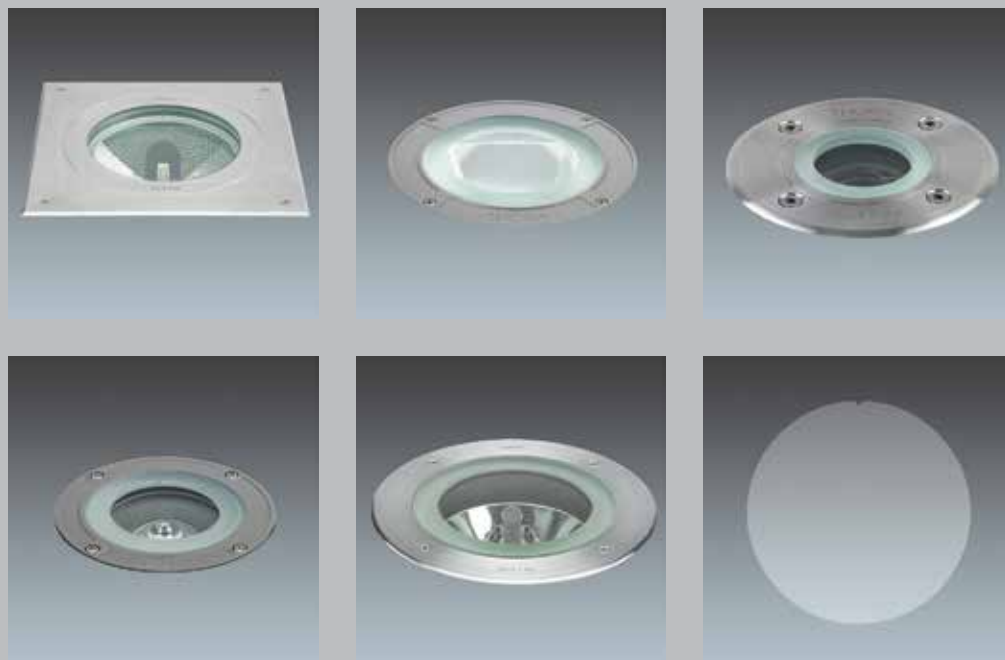
Installation/Mounting

Luminaire delivered complete with body, recessed box, frame and glass. All versions are pre-wired.
 For outdoor applications, 30cm drainage gravel or any equivalent drainage system must be used beneath the housing to ensure water evacuation. The recessed box can be embedded in asphalt with good drainage once the temperature of the asphalt is approximately 80°C. Luminaire must be operated for 45 minutes without its front glass to avoid moisture build-up inside the housing. Mica and Mica Slim can be installed in areas with a maximum low speed of 30km/hr for the flat versions and 20km/hr for the dome versions. For through wiring, IP67 connection boxes can be used (SAP codes 96257908 or 96257909). All versions have integral power supply. In accordance to the norm EN60598-2-13, the maximum static load is 5000kg for flat glass with stainless steel frame, 3500kg for flat glass with aluminium frame and 2000kg for dome window or prismatic glass dome. Exception for Mica B with maximum static load of 2500kg with stainless steel or aluminium frame.
 Glow wire is 750°C. Colour change RGB lighting technology available in Mica Slim A with a remote gear box and integral in Mica Slim I.

For RGB versions, LEDs are driven by DMX control (not supplied). Holographic film set up in LED versions only: open the front glass and insert the holographic film under the glass, with the smooth side of the film in contact with the glass. Rotate the film to obtain the required effect.

Specification

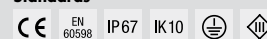
To specify state:
 Round recessed, low temperatures, drive-over luminaires with integral transformer, 7 sizes, 3 standard and 4 pre-wired shallow versions. Polypropylene recessed box and flat stainless steel/flat or dome windows painted aluminium frames. Die cast aluminium body sealed to IP67. Choice of lamp types/LED versions. With a choice of 3 monochromatic colours for Mica Slim SS, S, A and I. Dynamic RGB versions for Mica Slim A and Mica Slim I driven by DMX driver (included). Other DMX components ordered separately. For ground installation with front part-frosted flat glass enclosure for illumination or frosted glass/frosted glass/dome windows for guidance. Holographic films for LED versions only. As Thorn Mica and Mica Slim.



Lamps

	HIT-CE (MT)	G12	35-150W
	HIT-DE-CE (MD)	RX7s	70W
	HIT-TC-CE (MT)	G8.5	35W
	HIT-TC-CE PGJ5 (MT)	PGJ5	20-35W
	HST-DE/HIT-CE-DE (SD/MD)	RX7s	70W
	LED		1-17.5W
	ML-F (FB)	GX53	6W
	QR-CB 51 (HRG)	GU5.3	20W
	QT 12 (HSG)	GY6.35	20W
	TC-T (FSM)	GX24d-3	26W
	TC-TEL (FSM)	GX24q-2	18W

Standards



Ordering Guide

All Mica versions are supplied without lamp, except LED versions.

All Mica versions are supplied pre-wired.

Description	Wt (kg)	SAP Code	Cat. No.
Mica A			
MICA A 35W HIT-CE AL EDO/PR	6.10	96257354	MCA35AP
MICA A 35W HIT-CE AL FR 14D	6.40	96257351	MCA35AF14
MICA A 35W HIT-CE AL SF 14D	6.50	96257350	MCA35ASF14
MICA A 35W HIT-CE RS FR 14D	6.80	96257353	MCA35SF14
MICA A 35W HIT-CE RS SF 14D	6.80	96257352	MCA35SSF14
Mica B			
MICA B 70W HIT-DE GRY AL CL A/S	9.30	96257381	MCB70ACA
MICA B 70W HIT-DE GRY AL CL S/S	9.20	96257377	MCB70ACS
MICA B 70W HIT-DE GRY AL FR S/S	9.20	96257375	MCB70AFS
MICA B 70W HIT-DE RS CL A/S	11.30	96257382	MCB70SCA
MICA B 70W HIT-DE RS CL S/S	11.20	96257378	MCB70SCS
MICA B 70W HIT-DE RS FR S/S	11.20	96257376	MCB70SFS
Mica I			
MICA I 70W HIT AL FR 20D	9.60	96257358	MCI70AF20
MICA I 70W HIT AL SF 20D	9.60	96257357	MCI70ASF20
MICA I 70W HIT AL SF 6D	9.60	96257355	MCI70ASF6
MICA I 70W HIT RS FR 20D	10.90	96257360	MCI70SF20
MICA I 70W HIT RS SF 20D	10.90	96257359	MCI70SSF20
MICA I 70W HIT RS SF 6D	10.90	96257356	MCI70SSF6
MICA I 70W HST/HIT AL SF A/S	9.80	96257361	MCI70ASF6
MICA I 70W HST/HIT RS SF A/S	11.10	96257362	MCI70SSF6
MICA I 150W HIT AL FR 20D	11.20	96257366	MCI150AF20
MICA I 150W HIT AL SF 20D	11.20	96257365	MCI150ASF20
MICA I 150W HIT AL SF 6D	11.20	96257363	MCI150ASF6
MICA I 150W HIT RS FR 20D	12.60	96257368	MCI150SF20
MICA I 150W HIT RS SF 20D	12.60	96257367	MCI150SSF20
MICA I 150W HIT RS SF 6D	12.60	96257364	MCI150SSF6
Mica Slim SS LED			
MICA SLIM SS 1,2W 1LED BLU EDO EW1	1.90	96503620	MCSSB12W1
MICA SLIM SS 1,2W 1LED BLU EDO EW2	1.90	96503625	MCSSB12W2
MICA SLIM SS 1,2W 1LED BLU EDO EW8	1.90	96503630	MCSSB12W8
MICA SLIM SS 1,2W 1LED WHI 3K EDO EW1	1.90	96257422	MCSS3K12W1
MICA SLIM SS 1,2W 1LED WHI 3K EDO EW2	1.90	96257423	MCSS3K12W2
MICA SLIM SS 1,2W 1LED WHI 3K EDO EW8	1.90	96257424	MCSS3K12W8
MICA SLIM SS 1,2W 1LED WHI 6K EDO EW1	1.90	96503619	MCSS6K12W1
MICA SLIM SS 1,2W 1LED WHI 6K EDO EW2	1.90	96503624	MCSS6K12W2

Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim SS LED			
MICA SLIM SS 1,2W 1LED WHI 6K EDO EW8	1.90	96503629	MCSS6K12W8
MICA SLIM SS 1,2W SOFT LED BLU AL FR	1.40	96257374	MCSSB12AF
MICA SLIM SS 1,2W SOFT LED BLU RS FR	1.50	96257371	MCSSB12SF
MICA SLIM SS 1,2W SOFT LED WHI 3K AL FR	1.40	96257373	MCSS3K12AF
MICA SLIM SS 1,2W SOFT LED WHI 3K RS FR	1.50	96257370	MCSS3K12SF
MICA SLIM SS 1,2W SOFT LED WHI 6K AL FR	1.40	96257372	MCSS6K12AF
MICA SLIM SS 1,2W SOFT LED WHI 6K RS FR	1.50	96257369	MCSS6K12SF
MICA SLIM SS 1,2W ACC 7DLED BLU AL SF	1.90	96257421	MCSSB12ASF7
MICA SLIM SS 1,2W ACC 7DLED BLU RS SF	2.10	96503615	MCSSB12SSF7
MICA SLIM SS 1,2W ACC 7DLED W 3K AL SF	1.90	96257420	MCSS3K12ASF7
MICA SLIM SS 1,2W ACC 7DLED W 3K RS SF	2.10	96257418	MCSS3K12SSF7
MICA SLIM SS 1,2W ACC 7DLED W 6K AL SF	1.90	96257419	MCSS6K12ASF7
MICA SLIM SS 1,2W ACC 7DLED W 6K RS SF	2.10	96503614	MCSS6K12SSF7
MICA SLIM SS 1X1,2W ACC 24DLED W 3K AL SF	2.40	96260381	MCSS3K12ASF24
MICA SLIM SS 1X1,2W ACC 24DLED W 3K RS SF	2.50	96260382	MCSS3K12SSF24
MICA SLIM SS 1X1,2W ACC 24DLED W 6K AL SF	2.40	96260379	MCSS6K12ASF24
MICA SLIM SS 1X1,2W ACC 24DLED W 6K RS SF	2.50	96260380	MCSS6K12SSF24
MICA SLIM SS 1X1,2W ACC LED BLU 24D AL SF	2.40	96260383	MCSSB12ASF24
MICA SLIM SS 1X1,2W ACC LED BLU 24D RS SF	2.50	96260384	MCSSB12SSF24
Mica Slim S LED			
MICA SLIM S 3X1,2W ACC 10DLED BLU AL SF	2.20	96257436	MCSB12ASF10
MICA SLIM S 3X1,2W ACC 10DLED BLU RS SF	2.60	96503637	MCSB12SSF10
MICA SLIM S 3X1,2W ACC 10DLED W 3K AL SF	1.90	96257435	MCS3K12ASF10
MICA SLIM S 3X1,2W ACC 10DLED W 3K RS SF	2.10	96257433	MCS3K12SSF10
MICA SLIM S 3X1,2W ACC 10DLED W 6K AL SF	2.20	96257434	MCS6K12ASF10
MICA SLIM S 3X1,2W ACC 10DLED W 6K RS SF	2.60	96503636	MCS6K12SSF10
MICA SLIM S 3X1,2W ACC 24DLED W 3K AL SF	3.10	96260387	MCS3K12ASF24
MICA SLIM S 3X1,2W ACC 24DLED W 3K RS SF	3.20	96260388	MCS3K12SSF24
MICA SLIM S 3X1,2W ACC 24DLED W 6K AL SF	2.77	96260385	MCS6K12ASF24
MICA SLIM S 3X1,2W ACC 24DLED W 6K RS SF	2.87	96260386	MCS6K12SSF24
MICA SLIM S 3X1,2W ACC LED BLU 24D AL SF	2.76	96260389	MCSB12ASF24
MICA SLIM S 3X1,2W ACC LED BLU 24D RS SF	2.86	96260390	MCSB12SSF24
MICA SLIM S 3X1,2W SOFT LED BLU AL FR	2.10	96257431	MCSB12AF
MICA SLIM S 3X1,2W SOFT LED BLU RS FR	2.40	96257428	MCSB12SF
MICA SLIM S 3X1,2W SOFT LED WHI 3K AL FR	2.20	96257430	MCS3K12AF
MICA SLIM S 3X1,2W SOFT LED WHI 3K RS FR	2.60	96257427	MCS3K12SF
MICA SLIM S 3X1,2W SOFT LED WHI 6K AL FR	2.10	96257429	MCS6K12AF
MICA SLIM S 3X1,2W SOFT LED WHI 6K RS FR	2.40	96257426	MCS6K12SF



A series of circular recessed drive-over luminaires compliant with EN60598-2-13: limited surface temperatures

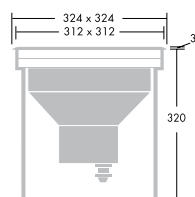
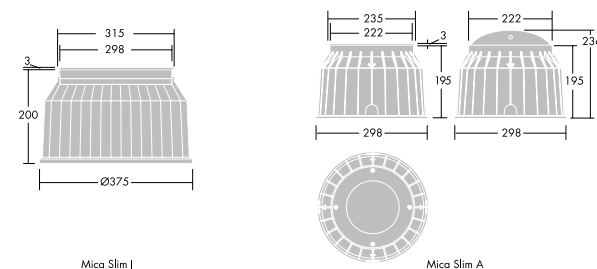
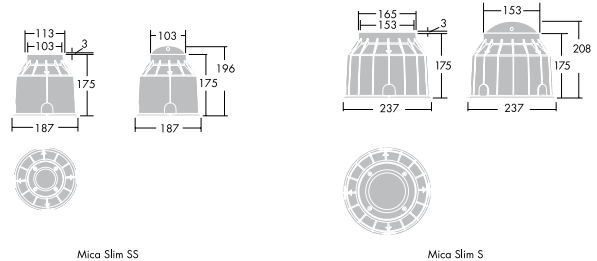
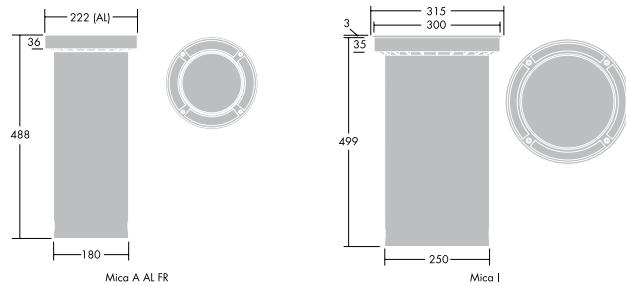
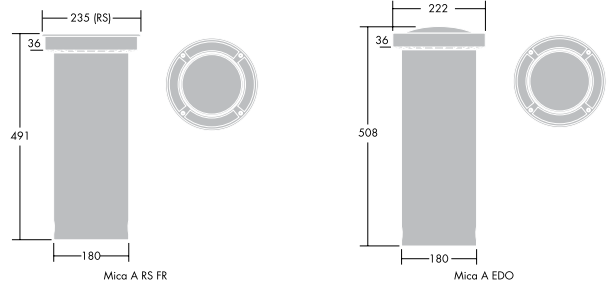


Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim S			
MICA SLIM S 20W QR-CBC/GU5,3 AL SF	2.20	96257432	MCS20ASF
MICA SLIM S 20W QR-CBC/GU5,3 RS SF	2.60	96503635	MCS20SSF
MICA SLIM S 20W QT12/GY6,35 EDO EW1	2.40	96503653	MCS20W1
MICA SLIM S 20W QT12/GY6,35 EDO EW2	2.40	96503654	MCS20W2
MICA SLIM S 20W QT12/GY6,35 EDO EW8	2.40	96503655	MCS20W8
MICA SLIM S 6W T2/GX53 SY AL FR	2.10	96257425	MCS6AF
MICA SLIM S 6W T2/GX53 SY RS FR	2.50	96503634	MCS6SF
Mica Slim A LED			
MICA SLIM A 4X2W SOFT LED BLU AL FR	4.20	96257446	MCSAB2AF
MICA SLIM A 4X2W SOFT LED BLU RS FR	5.00	96257443	MCSAB2SF
MICA SLIM A 4X2W SOFT LED WHI 3K AL FR	4.20	96257445	MCSA3K2AF
MICA SLIM A 4X2W SOFT LED WHI 3K RS FR	5.00	96257442	MCSA3K2SF
MICA SLIM A 4X2W SOFT LED WHI 6K AL FR	4.20	96257444	MCSA6K2AF
MICA SLIM A 4X2W SOFT LED WHI 6K RS FR	5.00	96257441	MCSA6K2SF
MICA SLIM A 4X2W ACC 24D LED W 3K AL SF	4.93	96260393	MCSA3K2ASF24
MICA SLIM A 4X2W ACC 24D LED W 3K RS SF	5.75	96260394	MCSA3K2SSF24
MICA SLIM A 4X2W ACC 24D LED W 6K AL SF	4.93	96260391	MCSA6K2ASF24
MICA SLIM A 4X2W ACC 24D LED W 6K RS SF	5.75	96260392	MCSA6K2SSF24
MICA SLIM A 4X2W ACC 7D LED BLU AL SF	4.30	96257459	MCSAB2ASF7
MICA SLIM A 4X2W ACC 7D LED W 3K RS SF	5.10	96257458	MCSA3K2SSF7
MICA SLIM A 4X2W ACC 7D LED W 6K AL SF	4.30	96257457	MCSA6K2ASF7
MICA SLIM A 4X2W ACC 7D LED W 6K RS SF	5.10	96257454	MCSA6K2SSF7
MICA SLIM A 4X2W ACC LED BLU 24D AL SF	4.93	96260395	MCSAB2ASF24
MICA SLIM A 4X2W ACC LED BLU 24D RS SF	5.75	96260396	MCSAB2SSF24
MICA SLIM A 4X2W ACC LED RGB AL SF	4.93	96260656	MCSARGB2ASF
MICA SLIM A 4X2W ACC LED RGB RS SF	4.75	96260655	MCSARGB2SSF
MICA SLIM A 4X2W SOFT LED RGB AL FR	5.01	96260654	MCSARGB2AF
MICA SLIM A 4X2W SOFT LED RGB RS FR	5.83	96260653	MCSARGB2SF

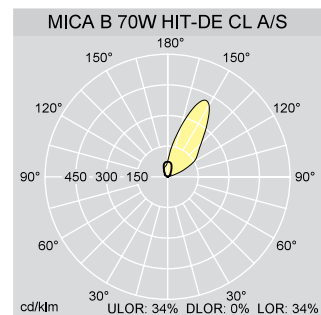
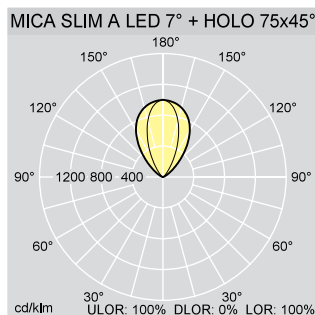
Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim A			
MICA SLIM A 18W TC-TEL/GX24Q-2 AL FR	4.40	96257437	MCSA18AF
MICA SLIM A 18W TC-TEL/GX24Q-2 RS FR	5.20	96503659	MCSA18SF
MICA SLIM A 20W HIT-TC-CE/PJ5 AL FR R20	4.40	96257438	MCSA20AF20
MICA SLIM A 20W HIT-TC-CE/PJ5 AL SF A/S	4.30	96257450	MCSA20ASF A
MICA SLIM A 20W HIT-TC-CE/PJ5 AL SF R20	4.40	96257449	MCSA20ASF20
MICA SLIM A 20W HIT-TC-CE/PJ5 AL SF R6	4.40	96257448	MCSA20ASF6
MICA SLIM A 20W HIT-TC-CE/PJ5 RS FR R20	5.30	96503660	MCSA20SF20
MICA SLIM A 20W HIT-TC-CE/PJ5 RS SF A/S	5.20	96503662	MCSA20SSFA
MICA SLIM A 20W HIT-TC-CE/PJ5 RS SF R20	5.30	96257447	MCSA20SSF20
MICA SLIM A 20W HIT-TC-CE/PJ5 RS SF R6	5.30	96503661	MCSA20SSF6
MICA SLIM A 35W HIT-TC-CE/PJ5 AL SF A/S	4.40	96257451	MCSA35ASF A
MICA SLIM A 35W HIT-TC-CE/PJ5 EDO EW1	5.20	96503672	MCSA35W1
MICA SLIM A 35W HIT-TC-CE/PJ5 EDO EW2	5.10	96503673	MCSA35W2
MICA SLIM A 35W HIT-TC-CE/PJ5 EDO EW8	5.10	96503674	MCSA35W8
MICA SLIM A 35W HIT-TC-CE/PJ5 RS SF A/S	5.20	96503663	MCSA35SSFA
Mica Slim I LED			
MICA SLIM I 7X2W SOFT LED BLU AL FR	7.30	96257482	MCSIB2AF
MICA SLIM I 7X2W SOFT LED BLU RS FR	8.60	96257483	MCSIB2SF
MICA SLIM I 7X2W SOFT LED WHI 3K AL FR	7.30	96257480	MCSIB3K2AF
MICA SLIM I 7X2W SOFT LED WHI 3K RS FR	8.60	96257481	MCSIB3K2SF
MICA SLIM I 7X2W SOFT LED WHI 6K AL FR	7.30	96257478	MCSIB6K2AF
MICA SLIM I 7X2W SOFT LED WHI 6K RS FR	8.60	96257479	MCSIB6K2SF
MICA SLIM I 7X2W ACC 24D LED W 3K AL SF	8.12	96260399	MCSIB3K2ASF24
MICA SLIM I 7X2W ACC 24D LED W 3K RS SF	9.34	96260400	MCSIB3K2SSF24
MICA SLIM I 7X2W ACC 24D LED W 6K AL SF	8.12	96260397	MCSIB6K2ASF24
MICA SLIM I 7X2W ACC 24D LED W 6K RS SF	9.34	96260398	MCSIB6K2SSF24
MICA SLIM I 7X2W ACC 7D LED BLU AL SF	7.50	96257474	MCSIB2ASF7
MICA SLIM I 7X2W ACC 7D LED BLU RS SF	8.80	96257476	MCSIB2SSF7
MICA SLIM I 7X2W ACC 7D LED W 3K AL SF	7.50	96257472	MCSIB3K2ASF7
MICA SLIM I 7X2W ACC 7D LED W 3K RS SF	8.80	96257473	MCSIB3K2SSF7
MICA SLIM I 7X2W ACC 7D LED W 6K AL SF	7.50	96257470	MCSIB6K2ASF7
MICA SLIM I 7X2W ACC 7D LED W 6K RS SF	8.80	96257471	MCSIB6K2SSF7
MICA SLIM I 7X2W ACC LED BLU 24D AL SF	8.12	96260401	MCSIB2ASF24
MICA SLIM I 7X2W ACC LED BLU 24D RS SF	9.34	96260402	MCSIB2SSF24

Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim I			
MICA SLIM I 26W TC-T AL FR	7.30	96257460	MCSI26AF
MICA SLIM I 26W TC-T RS FR	8.60	96257461	MCSI26SF
MICA SLIM I 35W HIT AL FR 20D	7.40	96257466	MCSI35AF20
MICA SLIM I 35W HIT AL FR A/S	8.70	96260377	MCSI35AFA
MICA SLIM I 35W HIT AL SF 20D	7.40	96257464	MCSI35ASF20
MICA SLIM I 35W HIT AL SF 6D	7.40	96257462	MCSI35ASF6
MICA SLIM I 35W HIT AL SF A/S	7.70	96257468	MCSI35ASFA
MICA SLIM I 35W HIT RS FR 20D	8.70	96257467	MCSI35SF20
MICA SLIM I 35W HIT RS FR A/S	10.00	96260378	MCSI35SFA
MICA SLIM I 35W HIT RS SF 20D	8.70	96257465	MCSI35SSF20
MICA SLIM I 35W HIT RS SF 6D	8.70	96257463	MCSI35SSF6
MICA SLIM I 35W HIT RS SF A/S	9.00	96257469	MCSI35SSFA
Mica LED holographic films			
MICA SLIM A LED HOLO FILM 60X1°	0.95	96260436	MCSA1
MICA SLIM A LED HOLO FILM 60X60°	0.95	96260437	MCSA60
MICA SLIM A LED HOLO FILM 75X45°	0.95	96260438	MCSA45
MICA SLIM I LED HOLO FILM 60X1°	0.95	96260439	MCSI1
MICA SLIM I LED HOLO FILM 60X60°	0.95	96260440	MCSI60
MICA SLIM I LED HOLO FILM 75X45°	0.95	96260441	MCSI45
MICA SLIM S LED HOLO FILM 60X1°	0.45	96260433	MCS1
MICA SLIM S LED HOLO FILM 60X60°	0.45	96260434	MCS60
MICA SLIM S LED HOLO FILM 75X45°	0.45	96260435	MCS45
MICA SLIM SS/CESAR1 LED HOLO FILM 60X1°	0.45	96260430	MCSS1
MICA SLIM SS/CESAR1 LED HOLO FILM 60X60°	0.45	96260431	MCSS60
MICA SLIM SS/CESAR1 LED HOLO FILM 75X45°	0.45	96260432	MCSS45
Mica Remote DMX drivers			
MICA SLIM A 100W RGB REMOTE DMX SYSTEM		96260632	MCSARGB100X
MICA SLIM A 20W RGB REMOTE DMX SYSTEM	4.40	96260633	MCSARGB20X
Mica Accessories			
CON CABLE 3/3X1,5² IP67 ZUM	0.10	60800549	EFCC3X3
CONNECT CABLE 2/3X1,5²-4² TH390 IP68	0.05	96260809	EFCC2X3
CONNECT CABLE 2/4X1,5²-4² TH391 IP68	0.05	96260810	EFCC2X4
CONNECT CABLE BOX 3/4X2,5² IP67	0.40	96257908	EFCB3X4
CONNECT CABLE BOX 4/6X2,5² IP67	0.77	96257909	EFCB4X6
MICA B/I LV 60D	0.42	96002573	MCBLV60
MICA B/I LV 90D	0.37	96002568	MCBLV90
MICA SLIM A 20W 20D LV	0.02	96257859	MCSA20LV20
MICA SLIM A FILTER/BLU	0.20	96503666	MCSABF
MICA SLIM A FILTER/GRN	0.20	96503668	MCSAGF
MICA SLIM A FILTER/RED	0.20	96503667	MCSARF
MICA SLIM A FILTER/YEL	0.20	96503669	MCSAYF
MICA SLIM A LVBACK 6D	0.16	96503685	MCSABL6
MICA SLIM I 35W MICA I 70W/150W 6/20D LV	0.05	96257858	MCSI35LV20
MICA SLIM I FILTER/BLU	0.30	96258616	MCSIBF
MICA SLIM I FILTER/GRN	0.30	96258619	MCSIGF
MICA SLIM I FILTER/RED	0.30	96258617	MCSIRF
MICA SLIM I FILTER/YEL	0.30	96258618	MCSIYF
MICA SLIM S FILTER/BLU	0.08	96503647	MCSBF
MICA SLIM S FILTER/GRN	0.08	96503649	MCSGF
MICA SLIM S FILTER/RED	0.08	96503648	MCSRF
MICA SLIM S FILTER/YEL	0.08	96503650	MCSYF
MICA SLIM S HC	0.04	96503646	MCSLVH

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Mica B



OUTDOOR LIGHTING



Surface Mounted Architectural Floodlighting



NEW **LED** Axyl
292



Contrast
Spectra C2
316



LED Band Surface
294



LED D-CO LED
Floodlights
318



NEW **LED** Band²
296



LED Haline 2
320



LED Cesar
298



LED Milo
322



NEW **LED** Contrast 2 LED
300



NEW **LED** Olsys
Illumination
324



Contrast C
306



Qba
326



Contrast C
Wide Angle
308



LED Qba LED
328



LED Contrast Mini
Pinpoint
310



LED Satin
330



Contrast Pinpoint
312



Contrast R
314

National Glass Centre, Sunderland, UK

OUTDOOR LIGHTING

SURFACE MOUNTED ARCHITECTURAL FLOODLIGHTING

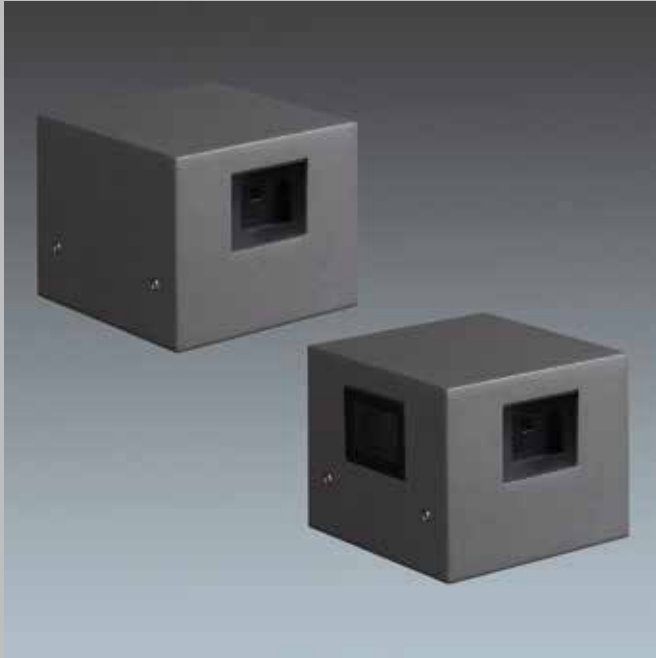
NEW

Axyl



www.thornlighting.co.uk/AXYL

Compact LED floodlight providing impressive outdoor and indoor wall light effects



- High performance LEDs providing good spacing for impressive light effects
- Choice of four stunning light effects
- All integral in a compact body
- Compact, minimalist cubic body easily integrates with indoor and outdoor facades

Materials/Finish

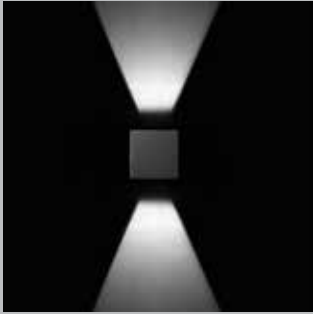
Body: die-cast aluminium EN AB 47100 painted sanded grey Akzo Nobel 900
Front glass: tempered glass, 4mm thick
Fixing plate: polycarbonate
Gasket: silicon
Screws: stainless steel

Installation/Mounting

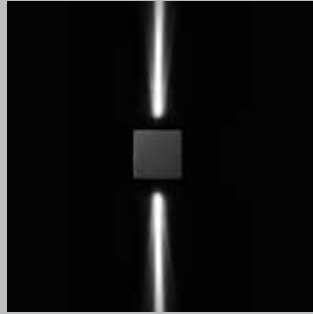
Suitable for surface mounting on interior and exterior walls. Secure the polycarbonate fixing plate to the facade with 2 screws. Connect the mains supply to the connector. Finally complete Axyl with the aluminium body part via 4 grub screws. Possibility of through wiring installation.

Specification

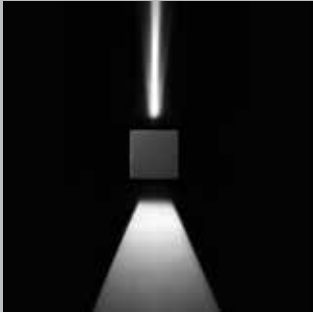
To specify state:
Compact cubic floodlight range for impressive light effects on walls with 1 white colour temperature and choice of 4 light effect versions.
As Thorn Axyl.



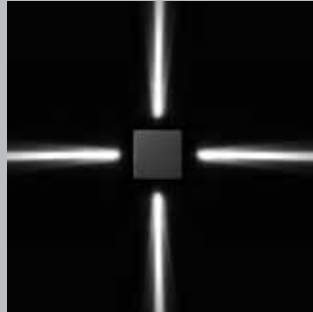
2 wide beams



2 narrow beams



1 wide and 1 narrow beam



4 narrow beams

Lamps

LED 3W

Standards

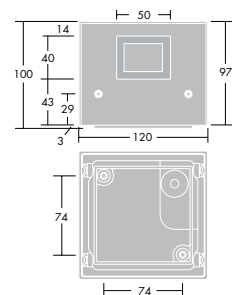
CE EN 60598 IP65 IK06 T_a35

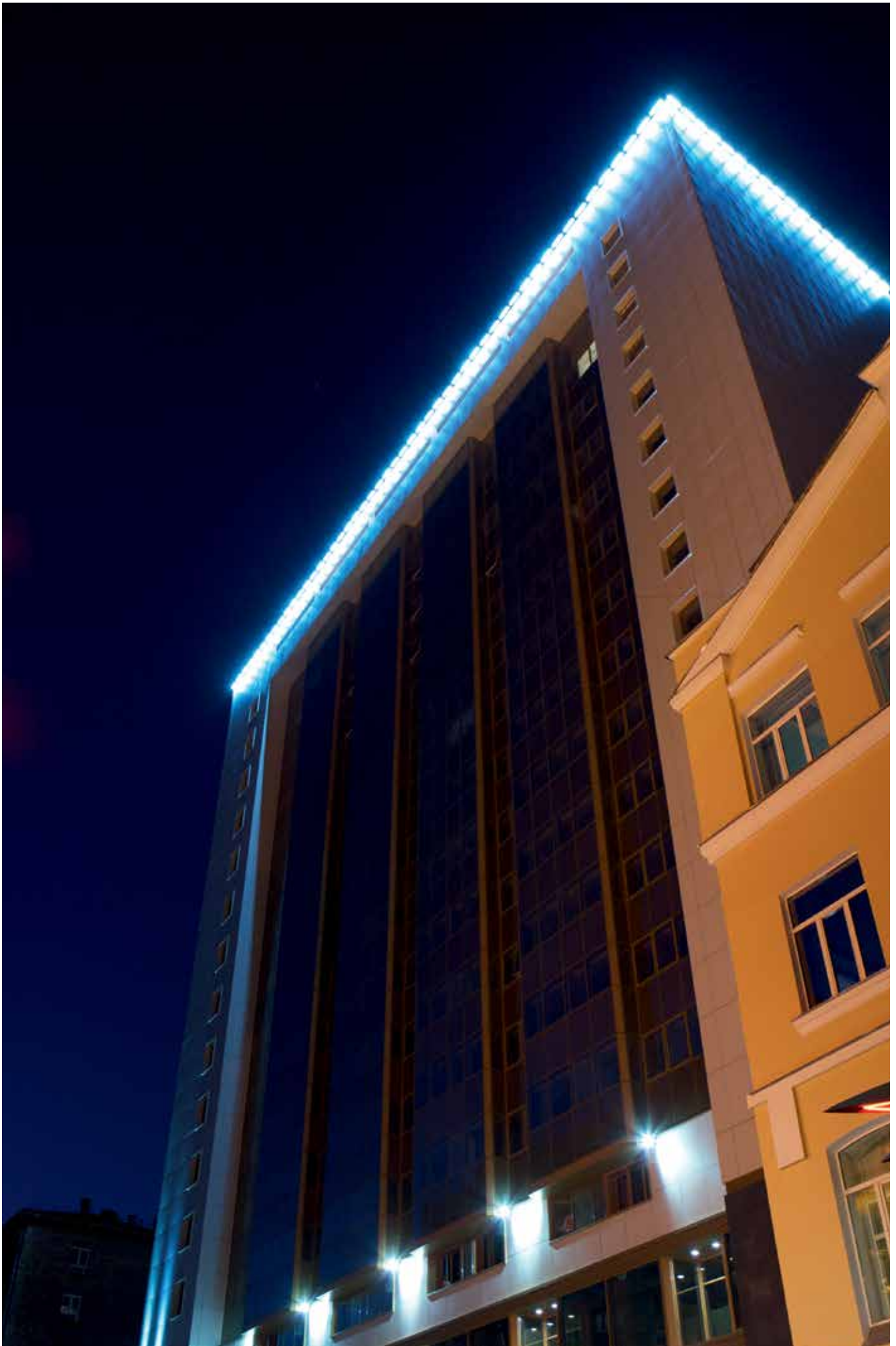
Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Axyl			
AXYL 6.6W 1NW/1WD WHITE 4200K	1.10	96262121	AX42K66NW
AXYL 6.6W 2NW WHITE 4200K	1.10	96262122	AX42K66N
AXYL 6.6W 2WD WHITE 4200K	1.10	96262120	AX42K66W
AXYL 11.8W 4NW WHITE 4200K	1.10	96262123	AX42K118N
AXYL METAL FIX PLATE	0.30	96262923	AXFIXP

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NEW

Band²



www.thornlighting.co.uk/BAN2

Compact performing linear floodlight for dynamic wall washing



- Supplied complete with power supply and DMX card
- Thermal protection for durability in extreme temperatures (-20°C to +40°C)
- Wide range offering extensive choice of lengths, distributions, colours, as well as IN and IN/OUT versions with customisation options
- Easy to install with two fixation choices on a pre-wired product

Materials/Finish

Front glass: tempered glass, 4mm
Body: anodised aluminium
End caps: painted die-cast aluminium
End cap gasket: silicone seals
Screws: stainless steel

Installation/Mounting

Two mounting choices:
Fixed compact stirrups for ceiling or floor installation. Screw the two clipable stirrups to the surface. Clip the stirrup in the product track.
Long adjustable stirrups for ceiling, floor or wall installation. For stirrup extremity fixation, unscrew the 2 nuts. Place the 2 nuts inside the sliding places below the product. Screw the 2 long stirrups to the product body. Screw the two long stirrups to the surface. Include the washer and complete. Adjust the angle orientation of Band² thanks to the wheels of the long stirrups.

Specification

To specify state:
Compact linear floodlight range for dynamic wall washing with choice of two light distributions, three lengths and five LED colours (RGB, RGBA, cold white, neutral white and warm white).
As Thorn Band²



Lamps

LED 28-56W

Standards



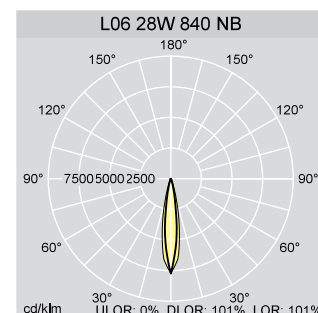
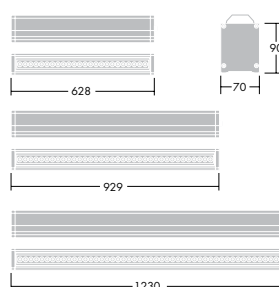
Ordering Guide

Band² is delivered complete (power supply and DMX card) except stirrup fixation which needs to be ordered separately. IN DMX versions to be ordered to finish the product line. To have a complete order ready to work, you need to order: female XLR5 (96241231) + female Wieland connector (96241225) + Asto adaptor and addressing tool (96241226 + 96241227)

Description	Wt (kg)	SAP Code	Cat. No.
Band² RGB IN (end of line)			
BAND2 24L35 L630 10X20° RGB DMX-F IN	4.00	96241890	BA2RGB28E
BAND2 36L35 L930 10X20° RGB DMX-F IN	5.10	96241891	BA2RGB42E
BAND2 48L35 L1230 10X20° RGB DMX-F IN	6.10	96241892	BA2RGB56E
Band² RGB IN/OUT (through-wire)			
BAND2 24L35 L630 10X20° RGB DMX-F IO	4.30	96241887	BA2RGB28T
BAND2 36L35 L930 10X20° RGB DMX-F IO	5.30	96241888	BA2RGB42T
BAND2 48L35 L1230 10X20° RGB DMX-F IO	6.30	96241889	BA2RGB56T
Band² White, elliptical beam, IN (end of line)			
BAND2 24L35 L630 10X20° 830 DMX-F IN	3.90	96241899	BA23K28EE
BAND2 24L35 L630 10X20° 756 DMX-F IN	3.90	96241923	BA256K28EE
BAND2 24L35 L630 10X20° 840 DMX-F IN	3.90	96241909	BA24K28EE
BAND2 36L35 L930 10X20° 830 DMX-F IN	4.90	96241915	BA23K42EE
BAND2 36L35 L930 10X20° 756 DMX-F IN	4.90	96241924	BA256K42EE
BAND2 36L35 L930 10X20° 840 DMX-F IN	4.90	96241910	BA24K42EE
BAND2 48L35 L1230 10X20° 830 DMX-F IN	5.90	96241916	BA23K56EE
BAND2 48L35 L1230 10X20° 756 DMX-F IN	5.90	96241925	BA256K56EE
BAND2 48L35 L1230 10X20° 840 DMX-F IN	5.90	96241911	BA24K56EE
Band² White, elliptical beam, IN/OUT (through-wire)			
BAND2 24L35 L630 10X20° 830 DMX-F IO	4.10	96241893	BA23K28ET
BAND2 24L35 L630 10X20° 756 DMX-F IO	4.10	96241917	BA256K28ET
BAND2 24L35 L630 10X20° 840 DMX-F IO	4.10	96241903	BA24K28ET
BAND2 36L35 L930 10X20° 830 DMX-F IO	5.10	96241894	BA23K42ET
BAND2 36L35 L930 10X20° 756 DMX-F IO	5.10	96241918	BA256K42ET
BAND2 36L35 L930 10X20° 840 DMX-F IO	5.10	96241904	BA24K42ET
BAND2 48L35 L1230 10X20° 830 DMX-F IO	6.10	96241895	BA23K56ET
BAND2 48L35 L1230 10X20° 756 DMX-F IO	6.10	96241919	BA256K56ET
BAND2 48L35 L1230 10X20° 840 DMX-F IO	6.10	96241905	BA24K56ET

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Description	Wt (kg)	SAP Code	Cat. No.
Band² White, narrow beam, IN (end of line)			
BAND2 24L35 L630 2X3° 830 DMX-F IN	3.90	96241900	BA23K28NE
BAND2 24L35 L630 2X3° 756 DMX-F IN	3.90	96241926	BA256K28NE
BAND2 24L35 L630 2X3° 840 DMX-F IN	3.90	96241912	BA24K28NE
BAND2 36L35 L930 2X3° 830 DMX-F IN	4.90	96241901	BA23K42NE
BAND2 36L35 L930 2X3° 756 DMX-F IN	4.90	96241927	BA256K42NE
BAND2 36L35 L930 2X3° 840 DMX-F IN	4.90	96241913	BA24K42NE
BAND2 48L35 L1230 2X3° 830 DMX-F IN	5.90	96241902	BA23K56NE
BAND2 48L35 L1230 2X3° 756 DMX-F IN	5.90	96241928	BA256K56NE
BAND2 48L35 L1230 2X3° 840 DMX-F IN	5.90	96241914	BA24K56NE
Band² White, narrow beam, IN/OUT (through-wire)			
BAND2 24L35 L630 2X3° 830 DMX-F IO	4.10	96241896	BA23K28NT
BAND2 24L35 L630 2X3° 756 DMX-F IO	4.10	96241920	BA256K28NT
BAND2 24L35 L630 2X3° 840 DMX-F IO	4.10	96241906	BA24K28NT
BAND2 36L35 L930 2X3° 830 DMX-F IO	5.10	96241897	BA23K42NT
BAND2 36L35 L930 2X3° 756 DMX-F IO	5.10	96241921	BA256K42NT
BAND2 36L35 L930 2X3° 840 DMX-F IO	5.10	96241907	BA24K42NT
BAND2 48L35 L1230 2X3° 830 DMX-F IO	6.10	96241898	BA23K56NT
BAND2 48L35 L1230 2X3° 756 DMX-F IO	6.10	96241922	BA256K56NT
BAND2 48L35 L1230 2X3° 840 DMX-F IO	6.10	96241908	BA24K56NT
Band² Accessories			
BAND2 ASTO ADDRESSING TOOL DMX VC USB	0.30	96241227	BA2AT
BAND2 ASTO / SPLITTER ADAPTER RJ45M XLR F	0.10	96241226	BA2SP
BAND2 COMPACT STIRRUP X2	0.20	96241233	BA2CS
BAND2 LONG STIRRUP X2	1.00	96241228	BA2LS
BAND2 WIEL FEMALE CONNECT 3POL IP66	0.20	96241225	BA2CF3
BAND2 WIEL MALE/FEMALE CONNECT 3POL IP66	0.10	96241229	BA2CMF3
BAND2 XLR FEMALE CONNECT 5POL DMX IP65	0.10	96241231	BA2CF5
BAND2 XLR MAL/FEMA CONNECT 5POL DMX IP65	0.10	96241232	BA2CM5





- Robust 'minimalist' luminaire with integral gear, in four sizes for easy integration into any environment
- Variety of light sources with adjustable positioning (except for TC-TEL models), reflectors, lenses and wattages optimises light output and provides creative effects. Light effects via LEDs + holographic films (size 1) or colour filters
- Double lamp versions available with independent electric circuits (size 3 and 4) provide energy savings and help to control obtrusive light.
- Easy installation with a single tool and automatic connection reduces installation time and cost

Materials/Finish

Body and frame: die-cast aluminium EN AN4700 and extruded ENAW 6060 housing (copper free) with high corrosion resistance and powdered painted close to RAL 9007 with corrosion resistance. Other RAL colours available on request.
 Reflector: pure aluminium.
 Front glass: toughened glass, thickness 6mm - size 1, 8mm - sizes 2 and 3, 12mm - size 4.
 Retaining screws: stainless steel.
 Gasket: silicone
 Holographic films: non-yellowing polycarbonate

Installation/Mounting

Remove the mounting plate by unscrewing 2 Allen screws. Fix the plate to the wall with screws (not supplied). Connect the supply cable to the fast connector (supplied). Plug the fast connector and lock with the two Allen screws. Open the enclosure(s) by removing rings and glasses. Insert the correct lamp(s) and adjust them as required. Close the enclosure(s).

Fast connectors for electrical connection, cable diameters: Size 1: 8-12mm; Sizes 2, 3, 4: 6-12mm
 Supplied with fast connector. Cable diameters, Size 1: 8-12mm; Size 2,3 & 4: 6-12mm.

For LED versions, add holographic films under the glass with the structured side of the film in contact with the front glass. Rotate the film to obtain the required light effect.

Specification

To specify state:
 Contemporary wall mounted floodlight for 3W LED/35W QR-CBC/75W QPAR30 Halogen 18-24W TC-TEL/35W HIT-TC-CE/70-150W HIT and 70 HST, in 4 sizes, IP65 protected, gear integrated, optional colour filters, frosted glass or louvre available as accessories.
 As Thorn Cesar

Ordering Guide

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Cesar Size 1 LED, downlight			
CESAR 1 1X3W 230/240V 10D LED 6K WHI	1.72	96231435	CS16K3D10
CESAR 1 1X3W 230/240V 10D LED BLU	1.72	96231436	CS1B3D10
CESAR 1 1X3W 230/240V 10D LED GRN	1.72	96231437	CS1G3D10
CESAR 1 1X3W 230/240V 10D LED RED	1.72	96231438	CS1R3D10
CESAR 1 1X3W 230/240V 10D LED YEL	1.72	96231439	CS1Y3D10
Cesar Size 1 LED, up/downlight			
CESAR 1 2X3W 230/240V 10D LED BLU	1.94	96231453	CS1B3UD10
CESAR 1 2X3W 230/240V 10D LED GRN	1.94	96231454	CS1G3UD10
CESAR 1 2X3W 230/240V 10D LED RED	1.94	96231455	CS1R3UD10
CESAR 1 2X3W 230/240V 10D LED YEL	1.94	96231456	CS1Y3UD10
CESAR 1 2X3W 230/240V 10D LED 6K WHI	1.94	96231452	CS16K3UD10
Cesar Size 1, downlight			
CESAR 1 1X35W 12V QR-CBC51/GU5,3/L	1.78	96546660	CS135D
Cesar Size 1, up/downlight			
CESAR 1 2X35W 12V QR-CBC51/GU5,3/L	1.99	96546667	CS135UD
Cesar Size 2, downlight			
CESAR 2 1X18W 230/240V TC-TEL/GX24Q-2/L	3.21	96546664	CS218D
CESAR 2 1X35W 230/240V HIT/TC-CE/G8,5/L	4.25	96546661	CS235D
CESAR 2 1X75W 230/240V QPAR30/E27/L	2.14	96546670	CS275D
Cesar Size 2, up/downlight			
CESAR 2 2X18W 230/240V TC-TEL/GX24-Q2/L	4.39	96546665	CS218UD
CESAR 2 2X35W 230/240V HIT-TC-CE/G8,5/L	6.91	96546659	CS235UD
CESAR 2 2X75W 230/240V QPAR30/E27/L	3.77	96546672	CS275UD
Cesar Size 3, downlight			
CESAR 3 1X42W 230/240V TC-TEL/GX24/L	7.30	96546668	CS342D
CESAR 3 1X70W 230/240V HST/E27/L	8.70	96546671	CS3570D
CESAR 3 1X70W 230/240V HIT/G12/L	8.70	96546666	CS3M70D
Cesar Size 3, up/downlight			
CESAR 3 2X42W 230/240V TC-TEL/GX24/L	8.60	96546662	CS342UD
CESAR 3 2X70W 230/240V HST/E27/L	12.60	96546675	CS3570UD
CESAR 3 2X70W 230/240V HIT/G12/L	11.65	96546663	CS3M70UD

NEW

Contrast 2 LED



www.thornlighting.com/CON2

A compact architectural floodlight range combining high output LEDs of pre-defined beams offering complete flexibility



National Museum of Sèvres Ceramic, Lighting concept: Roger Narboni, CONCEPITO agency. PFI and installation: Bouygues Energy & Services. Photo: © CONCEPITO.

- Innovative, compact design with integral gear for the medium and large sizes (static or dynamic versions). Small versions use remote gear boxes.
- Exceptional modularity with LED colours, light distributions, accessories and light outputs in 3 body sizes
- Manual dimming on monochromatic versions (Medium and Large) and DMX controls on RGB versions for a variety of lighting effects
- Versions (in all sizes) with remote gear boxes are available on request to support countries with temperatures of 50°C.

Materials/Finish

Body: Die-cast painted aluminium EN AC 47100 DF sanded, silver grey 150
 Glass: tempered glass, 4mm thick
 Gasket: EPDM
 Screws: stainless steel

Connection boxes for:

1 to 2 Small: Die-cast painted aluminium EN AC 44100 KF sanded silver grey 150
 Gasket: EPDM
 Screws: stainless steel
 1 to 4 Small or 1 Small RGB: Die-cast painted EN AB 47100 aluminium sanded silver grey 150
 Gasket: rubber/neoprene
 Screws: stainless steel

Holographic films

Frame: Die-cast painted aluminium EN AC 44100 KF sanded silver grey 150
 Film: PC sheet (2mm) plus PC holographic film (0,27mm)

Installation/Mounting

Floodlight is fully adjustable on a stirrup. Stirrup fixed to mount by central bolt through 15mm Ø hole and 2 x 8mm Ø holes for the Medium and Large size. Small versions fixed via central bolt hole 15mm Ø and 1 x 8mm Ø hole. Aiming simplified by indicator on stirrup, locked via central 6mm Ø Allen screw for all sizes. Easy installation of maximum 2 accessories: holographic films plus visor or holographic films plus glare shield for Medium and Large sizes. Holographic films plus visor for the small size. No glare shield for the Small version.

Medium and Large

Easy access to power supply on the product rear for monochromatic Medium and Large sizes and manual potentiometer adjustment. Entry via 3 Allen screws.
 Medium monochromatic: 2 cable glands for through wiring.
 Medium RGB DMX: 3 cable glands. 2 for DMX IN/OUT and one for mains to enter.
 Large monochromatic: 2 cable glands for through wiring.
 Large RGB DMX: 4 cable glands. 2 for DMX IN/OUT and 2 for mains IN/OUT.

Small

Remote gear box for the monochromatic and RGB DMX Small versions. Entry via 4 Allen screws on the gear box for up to 2 Small floodlights and via 6 screws on the gear box for up to 4 Small floodlights.
 Small monochromatic: Pre-wired with H07RNF cable, 1,5m long.
 Small RGB DMX: Pre-wired with H07RNF cable, 1,5m long .
 Gear box for 2 small monochromatic: 4 cable glands including through wiring.
 Gear box for 4 small monochromatic: 6 cable glands including through wiring.
 Gear box for 1 small RGB DMX: 5 cable glands for through wiring mains and DMX.
 Cable glands for 8-13mm Ø cable. Attachments & ground recessed boxes available.
 No LED module replacement.

Specification

A range of compact floodlights in 3 sizes, offering high light outputs with a wide choice of light distributions, LED colours and accessories to cover all applications. Manual dimming on Medium and Large monochromatic versions adjustable on site. Dynamic RGB DMX versions on all sizes.

Light distribution




A choice of pre-defined light beams, circular, symmetrical or asymmetrical. Standard beam angles range from 8° to 50°x50° for the Medium and Large sizes. Small angles are 12°, 32° and 44x12°.

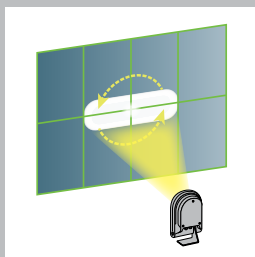
Standard versions:

Small and Medium versions available in whites (3000K and 4000K), colours (R, G and B) and RGB DMX. Amber, 2700K and 6000K on request. Large versions available in whites (3000K, 4000K and 6000K) and RGB DMX versions. Other colours: R, G, B, A and 2700K on request. For all sizes, RGBW, RGBA or tunable whites are on request.

Light distribution with Holographic films

- A choice of light shaping holographic films and accessories to create a range of static or dynamic lighting effects with minimal light loss and glare (see below)
- Holographic films available in 1 x 60°, 5 x 30° and 60 x 60°.
- Standard Monochromatic Medium and Large size floodlights have an integral user-adjustable control to vary light output on site
- We recommend using holographic films with circular light beams. It is more efficient to install a holographic on an intensive light beam. The wider the light beam the less efficient the flux value and light effect.

Light distribution shape	Beam angles	
	Small	Medium/Large
Circular 	12°	8°
	32°	24°
	-	36°
Elliptical 	44 x 12°	8 x 16°
Asymmetrical 	-	50 x 50° 30° deviation



Lamps

LED 9-126W

Standards




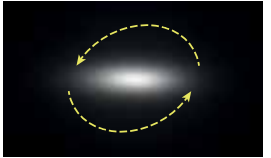
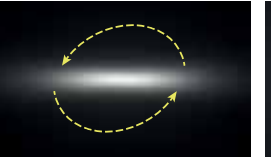




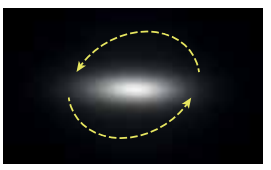
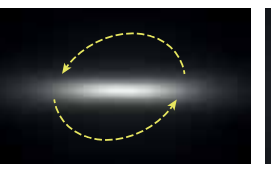




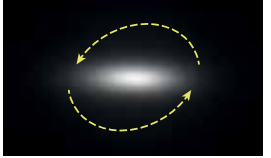
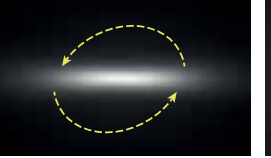



Standard versions

Ta: -20°C to +25°C large size, outdoor use only
 Ta: -20°C to +25°C medium size, indoor/outdoor use
 Ta: -20°C to +50°C small size, indoor/outdoor use.
 Remote gear box up to 35°C.

High ambient temperature versions

Ta: -20°C to +50°C, indoor/outdoor use.
 Remote gear box up to 35°C.

					
Small version	12°		12° + 5 x 30° holographic film	12° + 1 x 60° holographic film	12° + 60 x 60° holographic film
					
Medium version	8°		8° + 5 x 30° holographic film	8° + 1 x 60° holographic film	8° + 60 x 60° holographic film
					
Large version	8°		8° + 5 x 30° holographic film	8° + 1 x 60° holographic film	8° + 60 x 60° holographic film

Contrast 2 LED



www.thornlighting.com/CON2

A compact architectural floodlight range combining high output LEDs of pre-defined beams offering complete flexibility

Ordering Guide - Standard versions

Small

Delivered without gear box.

For monochromatic versions, two gear box options are provided: one for up to 2 small units and one for up to 4 small units.

The white versions are driven by 1A and the coloured monochromatic versions are driven by 0.7A. **Please select the correct connection box version when ordering.**

For RGB DMX versions, you need to order the power supply/DMX gear box SAP code 96261426.

Medium and Large

Delivered complete with power supply for monochromatic versions and power supply/DMX card for the RGB DMX versions. Other RGBW, RGBA and tunable white versions available on request. DALI versions on request. Other RAL on request. Other light distributions on request.

High ambient temperature versions:

With this option, all products are with remote gear box. No manual dimming with potentiometer for high ambient temperature versions with remote gear. Can be used at 50°C with the remote gear box at 35°C. For the white versions, same flux output for the medium versions compared to standard versions and less flux output for the large versions. For the LED colours other than white, same flux for the standard and high ambient temperature versions.

Small - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Bodies				
12°	CONTRAST 2 LED S 4L105 R/S 12° 830 NG	1.1	96261327	CT2S3K12
	CONTRAST 2 LED S 4L105 R/S 12° 840 NG	1.1	96263247	CT2S4K12
	CONTRAST 2 LED S 4L70 R/S 12° RD NG	1.1	96263250	CT2SR12
	CONTRAST 2 LED S 4L70 R/S 12° GN NG	1.1	96263253	CT2SG12
	CONTRAST 2 LED S 4L70 R/S 12° BU NG	1.1	96263256	CT2SB12
32°	CONTRAST 2 LED S 4L105 R/S 32° 830 NG	1.1	96261329	CT2S3K32
	CONTRAST 2 LED S 4L105 R/S 32° 840 NG	1.1	96263248	CT2S4K32
	CONTRAST 2 LED S 4L70 R/S 32° RD NG	1.1	96263251	CT2SR32
	CONTRAST 2 LED S 4L70 R/S 32° GN NG	1.1	96263254	CT2SG32
	CONTRAST 2 LED S 4L70 R/S 32° BU NG	1.1	96263257	CT2SB32
44X12°	CONTRAST 2 LED S 4L105 S/S 44x12° 830 NG	1.1	96261330	CT2S3K4412
	CONTRAST 2 LED S 4L105 S/S 44x12° 840 NG	1.1	96263249	CT2S4K4412
	CONTRAST 2 LED S 4L70 S/S 44x12° RD NG	1.1	96263252	CT2SR4412
	CONTRAST 2 LED S 4L70 S/S 44x12° GN NG	1.1	96263255	CT2SG4412
	CONTRAST 2 LED S 4L70 S/S 44x12° BU NG	1.1	96263258	CT2SB4412
Connection boxes				
	CONTRAST 2 LED S 2X4L70 CBOX MONO	1.7	96261898	CT2S27CBX
	CONTRAST 2 LED S 4X4L70 CBOX MONO	1.2	96261899	CT2S47CBX
	CONTRAST 2 LED S 2X4L105 CBOX WHITE	1.7	96261425	CT2S21CBX
	CONTRAST 2 LED S 4X4L105 CBOX WHITE	1.2	96261427	CT2S41CBX
RGB				
Bodies				
12°	CONTRAST 2 LED S 4L70 R/S 12° RGB NG	1.1	96261328	CT2S12
32°	CONTRAST 2 LED S 4L70 R/S 32° RGB NG	1.1	96263259	CT2S32
44X12°	CONTRAST 2 LED S 4L70 S/S 44X12° RGB NG	1.1	96263260	CT2S4412
Connection boxes				
	CONTRAST 2 LED S CBOX RGB DMX	1.2	96261426	CT2SXCBX
Accessories				
	CONTRAST 2 LED S VISOR	0.064	96261859	CT2SV
	CONTRAST 2 LED S LR 60X60°	0.117	96261860	CT2S6060
	CONTRAST 2 LED S LR 1X60°	0.117	96261861	CT2S160
	CONTRAST 2 LED S LR 5X30°	0.117	96261862	CT2S560

Ground recessed boxes - For standard and high ambient temperature versions

Description	Wt (kg)	SAP Code	Cat. No.
Ground recessed boxes			
CONTRAST 2 L FB GL 672X550X500	40.0	96264512	CT2GRBL
CONTRAST 2 M FB GL 430X430X490	25.4	96264513	CT2GRBM
CONTRAST 2 S FB GL 330X330X330	13.2	96264514	CT2GRBS

Medium - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED M 12L105 R/S 8° 830	4.3	96261331	CT2M3K458
	CONTRAST 2 LED M 12L105 R/S 8° 840	4.3	96263223	CT2M4K458
	CONTRAST 2 LED M 12L70 R/S 8° RD	4.3	96263228	CT2MR258
	CONTRAST 2 LED M 12L70 R/S 8° GN	4.3	96263233	CT2MG358
	CONTRAST 2 LED M 12L70 R/S 8° BU	4.3	96263238	CT2MB358
24°	CONTRAST 2 LED M 12L105 R/S 24° 830	4.3	96261333	CT2M3K4524
	CONTRAST 2 LED M 12L105 R/S 24° 840	4.3	96263224	CT2M4K4524
	CONTRAST 2 LED M 12L70 R/S 24° RD	4.3	96263229	CT2MR2524
	CONTRAST 2 LED M 12L70 R/S 24° GN	4.3	96263234	CT2MG3524
	CONTRAST 2 LED M 12L70 R/S 24° BU	4.3	96263239	CT2MB3524
36°	CONTRAST 2 LED M 12L105 R/S 36° 830	4.3	96261334	CT2M3K4536
	CONTRAST 2 LED M 12L105 R/S 36° 840	4.3	96263225	CT2M4K4536
	CONTRAST 2 LED M 12L70 R/S 36° RD	4.3	96263230	CT2MR2536
	CONTRAST 2 LED M 12L70 R/S 36° GN	4.3	96263235	CT2MG3536
	CONTRAST 2 LED M 12L70 R/S 36° BU	4.3	96263240	CT2MB3536
8X16°	CONTRAST 2 LED M 12L105 S/S 8X16° 830	4.3	96261335	CT2M3K45816
	CONTRAST 2 LED M 12L105 S/S 8X16° 840	4.3	96263226	CT2M4K45816
	CONTRAST 2 LED M 12L70 S/S 8X16° RD	4.3	96263231	CT2MR25816
	CONTRAST 2 LED M 12L70 S/S 8X16° GN	4.3	96263236	CT2MG35816
	CONTRAST 2 LED M 12L70 S/S 8X16° BU	4.3	96263241	CT2MB35816
50X50° deviation of 30°	CONTRAST 2 LED M 12L105 A/S 830	4.3	96261336	CT2M3K455050
	CONTRAST 2 LED M 12L105 A/S 840	4.3	96263227	CT2M4K455050
	CONTRAST 2 LED M 12L70 A/S RD	4.3	96263232	CT2MR255050
	CONTRAST 2 LED M 12L70 A/S GN	4.3	96263237	CT2MG355050
	CONTRAST 2 LED M 12L70 A/S BU	4.3	96263242	CT2MB355050
RGB				
Floodlights				
8°	CONTRAST 2 LED M 12L70 R/S 8° RGB DMX	4.5	96261332	CT2M408
24°	CONTRAST 2 LED M 12L70 R/S 24° RGB DMX	4.5	96263243	CT2M4024
36°	CONTRAST 2 LED M 12L70 R/S 36° RGB DMX	4.5	96263244	CT2M4036
8X16°	CONTRAST 2 LED M 12L70 S/S 8X16° RGB DMX	4.5	96263245	CT2M40816
50X50° deviation 30°	CONTRAST 2 LED M 12L70 A/S RGB DMX	4.5	96263246	CT2M405050
Accessories				
	CONTRAST 2 LED M VISOR	0.212	96261854	CT2MV
	CONTRAST 2 LED M LV	0.078	96261855	CT2MLV
	CONTRAST 2 LED M LR 60X60°	0.26	96261856	CT2M6060
	CONTRAST 2 LED M LR 1X60°	0.26	96261857	CT2M160
	CONTRAST 2 LED M LR 5X30°	0.26	96261858	CT2M530

Large - Indoor and Outdoor use for the RGB versions. Only outdoor use for the white versions.

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED L 36L105 R/S 8° 830	7.5	96261337	CT2L3K1258
	CONTRAST 2 LED L 36L105 R/S 8° 840	7.5	96261919	CT2L4K1258
	CONTRAST 2 LED L 36L105 R/S 8° 840	7.5	96263207	CT2L6K1258
	CONTRAST 2 LED L 36L105 R/S 24° 830	7.5	96261339	CT2L3K12524
	CONTRAST 2 LED L 36L105 R/S 24° 840	7.5	96263203	CT2L4K12524
24°	CONTRAST 2 LED L 36L105 R/S 24° 860	7.5	96263208	CT2L6K12524
	CONTRAST 2 LED L 36L105 R/S 36° 830	7.5	96261340	CT2L3K12536
	CONTRAST 2 LED L 36L105 R/S 36° 840	7.5	96263204	CT2L4K12536
	CONTRAST 2 LED L 36L105 R/S 36° 860	7.5	96263209	CT2L6K12536
	CONTRAST 2 LED L 36L105 S/S 8X16° 830	7.5	96261341	CT2L3K125816
36°	CONTRAST 2 LED L 36L105 S/S 8X16° 840	7.5	96263205	CT2L4K125816
	CONTRAST 2 LED L 36L105 S/S 8X16° 860	7.5	96263210	CT2L6K125816
	CONTRAST 2 LED L 36L105 A/S 830	7.5	96261342	CT2L3K1255050
	CONTRAST 2 LED L 36L105 A/S 840	7.5	96263206	CT2L4K1255050
	CONTRAST 2 LED L 36L105 A/S 860	7.5	96263211	CT2L6K1255050
50X50° deviation of 30°	CONTRAST 2 LED L 36L105 A/S RGB DMX	7.3	96263215	CT2L9S5050
RGB				
Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° RGB DMX	7.3	96261338	CT2L9S8
24°	CONTRAST 2 LED L 36L70 R/S 24° RGB DMX	7.3	96263212	CT2L9S24
36°	CONTRAST 2 LED L 36L70 R/S 36° RGB DMX	7.3	96263213	CT2L9S36
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° RGB DMX	7.3	96263214	CT2L9S816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S RGB DMX	7.3	96263215	CT2L9S5050
Accessories				
	CONTRAST 2 LED L VISOR	0.433	96261849	CT2LV
	CONTRAST 2 LED L LV	0.167	96261850	CT2LLV
	CONTRAST 2 LED L LR 60X60°	0.49	96261851	CT2L6060
	CONTRAST 2 LED L LR 1X60°	0.49	96261852	CT2L160
	CONTRAST 2 LED L LR 5X30°	0.49	96261853	CT2L530

Ordering Guide - High ambient temperature versions

Small

Delivered without gear box.

For monochromatic versions, two gear box options are provided: one for up to 2 small units and one for up to 4 small units.

The white versions are driven by 1A and the coloured monochromatic versions are driven by 0.7A. **Please select the correct connection box version when ordering.**

For RGB DMX versions, you need to order the power supply/DMX gear box SAP code 96261426.

Medium and large

Bodies delivered complete pre-wired with 1.5m cable.

Small - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Bodies				
12°	CONTRAST 2 LED S 4L105 R/S 12° 830 NG	1.1	96261327	CT2S3K12
	CONTRAST 2 LED S 4L105 R/S 12° 840 NG	1.1	96263247	CT2S4K12
	CONTRAST 2 LED S 4L70 R/S 12° RD NG	1.1	96263250	CT2SR12
	CONTRAST 2 LED S 4L70 R/S 12° GN NG	1.1	96263253	CT2SG12
32°	CONTRAST 2 LED S 4L70 R/S 12° BU NG	1.1	96263256	CT2SB12
	CONTRAST 2 LED S 4L105 R/S 32° 830 NG	1.1	96261329	CT2S3K32
	CONTRAST 2 LED S 4L105 R/S 32° 840 NG	1.1	96263248	CT2S4K32
	CONTRAST 2 LED S 4L70 R/S 32° RD NG	1.1	96263251	CT2SR32
44X12°	CONTRAST 2 LED S 4L70 R/S 32° GN NG	1.1	96263254	CT2SG32
	CONTRAST 2 LED S 4L70 R/S 32° BU NG	1.1	96263257	CT2SB32
	CONTRAST 2 LED S 4L105 S/S 44x12° 830 NG	1.1	96261330	CT2S3K4412
	CONTRAST 2 LED S 4L105 S/S 44x12° 840 NG	1.1	96263249	CT2S4K4412
Connection boxes	CONTRAST 2 LED S 4L70 S/S 44x12° RD NG	1.1	96263252	CT2SR4412
	CONTRAST 2 LED S 4L70 S/S 44x12° GN NG	1.1	96263255	CT2SG4412
	CONTRAST 2 LED S 4L70 S/S 44x12° BU NG	1.1	96263258	CT2SB4412
	CONTRAST 2 LED S 2X4L70 CBOX MONO	1.7	96261898	CT2S27CBX
CONTRAST 2 LED S 4X4L70 CBOX MONO	1.2	96261899	CT2S47CBX	
CONTRAST 2 LED S 2X4L105 CBOX WHITE	1.7	96261425	CT2S21CBX	
CONTRAST 2 LED S 4X4L105 CBOX WHITE	1.2	96261427	CT2S41CBX	
RGB				
Bodies				
12°	CONTRAST 2 LED S 4L70 R/S 12° RGB NG	1.1	96261328	CT2S12
32°	CONTRAST 2 LED S 4L70 R/S 32° RGB NG	1.1	96263259	CT2S32
44X12°	CONTRAST 2 LED S 4L70 S/S 44x12° RGB NG	1.1	96263260	CT2S4412
Connection boxes				
	CONTRAST 2 LED S CBOX RGB DMX	1.2	96261426	CT2SXCXB
Accessories				
	CONTRAST 2 LED S VISOR	0.064	96261859	CT2SV
	CONTRAST 2 LED S LR 60X60°	0.117	96261860	CT2S6060
	CONTRAST 2 LED S LR 1X60°	0.117	96261861	CT2S160
	CONTRAST 2 LED S LR 5X30°	0.117	96261862	CT2S560

Ground recessed boxes - For standard and high ambient temperature versions

Description	Wt (kg)	SAP Code	Cat. No.
Ground recessed boxes			
CONTRAST 2 L FB GL 672X550X500	40.0	96264512	CT2GRBL
CONTRAST 2 M FB GL 430X430X490	25.4	96264513	CT2GRBM
CONTRAST 2 S FB GL 330X330X330	13.2	96264514	CT2GRBS

Medium - Indoor and Outdoor use

Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED M 12L105 R/S 8° 830 KIT	4.2	96261821	CT2M3K8
24°	CONTRAST 2 LED M 12L105 R/S 24° 830 KIT	4.2	96261822	CT2M3K24
36°	CONTRAST 2 LED M 12L105 R/S 36° 830 KIT	4.2	96261823	CT2M3K36
8X16°	CONTRAST 2 LED M 12L105 8X16° 830 KIT	4.2	96261824	CT2M3K816
50X50° deviation 30°	CONTRAST 2 LED M 12L105 A/S 830 KIT	4.2	96261825	CT2M3K5050
RGB				
Floodlights				
8°	CONTRAST 2 LED M 12L70 R/S 8° RGB KIT	4.2	96261864	CT2M8
24°	CONTRAST 2 LED M 12L70 R/S 24° RGB KIT	4.2	96263219	CT2M24
36°	CONTRAST 2 LED M 12L70 R/S 36° RGB KIT	4.2	96263220	CT2M36
8X16°	CONTRAST 2 LED M 12L70 S/S 8X16° RGB KIT	4.2	96263221	CT2M816
50X50° deviation 30°	CONTRAST 2 LED M 12L70 A/S RGB KIT	4.2	96263222	CT2M5050
Accessories				
	CONTRAST 2 LED M VISOR	0.212	96261854	CT2MV
	CONTRAST 2 LED M LV	0.078	96261855	CT2MLV
	CONTRAST 2 LED M LR 60X60°	0.26	96261856	CT2M6060
	CONTRAST 2 LED M LR 1X60°	0.26	96261857	CT2M160
	CONTRAST 2 LED M LR 5X30°	0.26	96261858	CT2M530
Large - Indoor and Outdoor use				
Total angle opening	Description	Wt (kg)	SAP Code	Cat. No.
Monochromatic				
Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° 830 KIT	5.8	96261826	CT2L3K8
24°	CONTRAST 2 LED L 36L70 R/S 24° 830 KIT	5.8	96261827	CT2L3K24
36°	CONTRAST 2 LED L 36L70 R/S 36° 830 KIT	5.8	96261828	CT2L3K36
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° 830 KIT	5.8	96261829	CT2L3K816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S 830 KIT	5.8	96261830	CT2L3K5050
RGB				
Floodlights				
8°	CONTRAST 2 LED L 36L70 R/S 8° RGB KIT	5.8	96261846	CT2L8
24°	CONTRAST 2 LED L 36L70 R/S 24° RGB KIT	5.8	96263199	CT2L24
36°	CONTRAST 2 LED L 36L70 R/S 36° RGB KIT	5.8	96263200	CT2L36
8X16°	CONTRAST 2 LED L 36L70 S/S 8X16° RGB KIT	5.8	96263201	CT2L816
50X50° deviation 30°	CONTRAST 2 LED L 36L70 A/S RGB KIT	5.8	96263202	CT2L5050
Accessories				
	CONTRAST 2 LED L VISOR	0.433	96261849	CT2LV
	CONTRAST 2 LED L LV	0.167	96261850	CT2LLV
	CONTRAST 2 LED L LR 60X60°	0.49	96261851	CT2L6060
	CONTRAST 2 LED L LR 1X60°	0.49	96261852	CT2L160
	CONTRAST 2 LED L LR 5X30°	0.49	96261853	CT2L530

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.

NEW

Contrast 2 LED

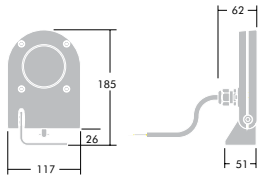


www.thornlighting.com/CON2

A compact architectural floodlight range combining high output LEDs of pre-defined beams offering complete flexibility

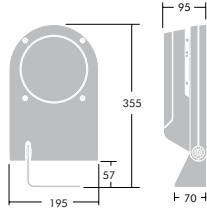
Small versions

Standard and high ambient temperatures



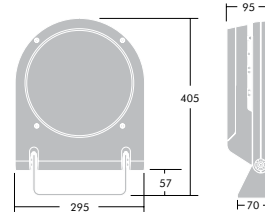
Medium versions

Standard

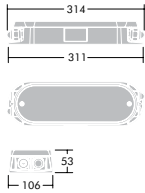


Large versions

Standard

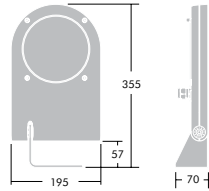


Power supply boxes

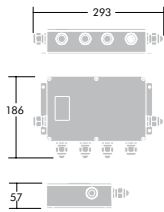
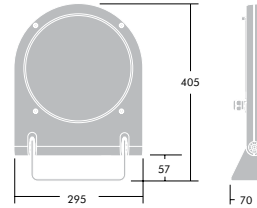


Monochromatic for 1 to 2 Small

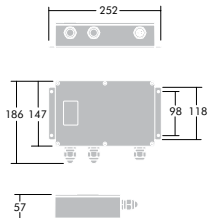
High ambient temperature -



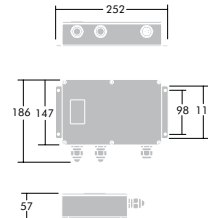
High ambient temperature -



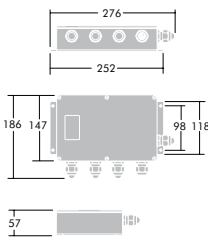
Monochromatic for 1 to 4 Small



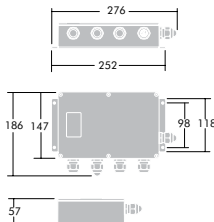
Monochromatic



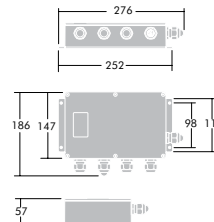
Monochromatic



RGB

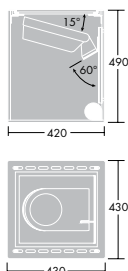
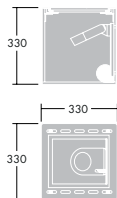


RGB

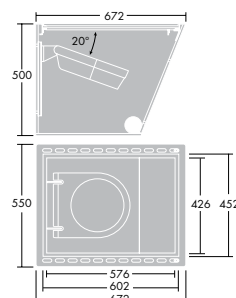


RGB DMX

Recessed boxes



Recessed boxes





Contrast C



www.thornlighting.co.uk/CONC

A cylindro-parabolic floodlight in three sizes with asymmetrical or symmetrical reflector, refractors and attachments



- Neat appearance retained across range, with integral gear for lamps from 35W to 400W
- Wide selection of attachments, which can be used in combination, allows for a variety of beam distributions. Refractors can be rotated to give alignment of the beam profile to suit the application
- Hinged frame for easy access to light source. Lamp replacement possible without disturbing aiming angle or removing attachments
- Stirrup mount allows base support or suspension with aiming simplified by indicator with facility to lock memory position. Other brackets available to offer mounting on vertical surfaces and retain full adjustment in both planes

Materials/Finish

Body: die-cast aluminium, textured grey powder coated finish (close to RAL 9007). Alternative RAL colours on request.

Front lenses: 4mm toughened glass.
Attachment retaining screws: nickel plated brass.

Reflector: specular (HIT) or satin (HST) anodised aluminium.

Installation/Mounting

Floodlight is fully adjustable on a short stirrup. Stirrup fixed to mount by central bolt Ø22mm, and 2 x Ø15mm holes at 100mm either side of centre. Aiming simplified by indicator on stirrup, locked via central Ø8mm Allen screw. Easy access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Control gear compartment, with rear access panel, fixed below body. Entry via two Allen screws. Cable gland for Ø7.5-13mm cable. Additional knock out provided for through wiring. Attachments & Ground Recessing Boxes available.

Specification

To specify state.

Asymmetrical distribution floodlight to accommodate 35W to 400W lamps, IP65 protected, integral gear, and optional control attachments.

As Thorn Contrast C

Ordering Guide

Supplied complete with lamps.

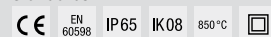
Description	Wt (kg)	SAP Code	Cat. No.
Contrast C Size O			
CONTRAST C0 35W 240V HIT DE RX7S A/S/L	7.68	96546697	CTCOMD35A
CONTRAST C0 35W HIT CE G12 A/S/L	7.40	96546692	CTCOM35A
CONTRAST C0 50W 240V HST E27 A/S/L	6.97	96546688	CTC0S50A
CONTRAST C0 50W 240V HST E27 S/S/L	7.14	96546690	CTC0S50S
CONTRAST C0 70W 240V HST E27 A/S/L	5.84	96546681	CTC0S70A
CONTRAST C0 70W 240V HST E27 S/S/L	7.48	96546689	CTC0S70S
CONTRAST C0 70W HIT CE G12 A/S/L	6.28	96546691	CTCOM70A
CONTRAST C0 70W 240V HIT DE RX7S A/S/L	6.28	96546696	CTCOMD70A
CONTRAST C0 70W 240V HIT DE RX7S S/S/L	7.48	96546683	CTCOMD70S
CONTRAST C0 70W HIT CE G12 S/S/L	7.48	96546693	CTCOM70S
CONTRAST C0 35W 240V HIT DE RX7S S/S/L	7.40	96546684	CTCOMD35S
Contrast C Size O Attachments and Accessories			
CONTRAST O BRA LG	0.80	96216177	CTCOLS
CONTRAST O AGF	1.71	96216222	CTCOGS
CONTRAST C0 FILTER/BLU	0.35	96002491	CTCOBF
CONTRAST C0 FILTER/FR	0.91	96002513	CTCOFF
CONTRAST C0 FILTER/GRN	0.35	96002492	CTCOGF
CONTRAST C0 FILTER/RED	0.35	96005835	CTCORF
CONTRAST C0 FILTER/YEL	0.35	96005834	CTCOYF
CONTRAST C0 LR1	0.75	96002497	CTCORM
CONTRAST C0 LR2	0.89	96002498	CTCORW
CONTRAST C0 LR3	0.35	96002499	CTCORN
CONTRAST C0 LV	0.05	96002509	CTCOLV
CONTRAST C0 LV/AJ	0.35	96005836	CTCOLVA
CONTRAST C0 VS	0.10	96002515	CTCOV
CONTRAST C0 WG	0.35	96002510	CTCOWG
CONTRAST C0/RO AGS (X1)	0.10	96002507	CTCOBD
Contrast C Size I			
CONTRAST C1 150W 240V HIT CE G12 A/S/L	11.94	96546707	CTC1M150A
CONTRAST C1 150W 240V HIT CE G12 S/S/L	11.76	96546708	CTC1MG150S
CONTRAST C1 150W 240V HIT DE RX7S A/S/L	11.50	96546710	CTC1MD150A
CONTRAST C1 150W 240V HST E40 A/S/L	13.12	96546705	CTC1S150A
CONTRAST C1 150W 240V HST E40 S/S/L	11.46	96546706	CTC1S150S
CONTRAST C1 150W HIT CE RX7S S/S/L	11.76	96546704	CTC1MR150S



Lamps

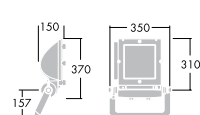
	HIT-CE (MT)	G12	35-150W
	HIT-DE (MD)	Fc2	250-400W
	HIT-DE-CE (MD)	RX7s-24	70-150W
	HST (ST)	E40	50-150W

Standards

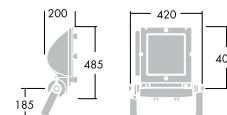


Description	Wt (kg)	SAP Code	Cat. No.
Contrast C Size 1 Attachments and Accessories			
CONTRAST 1 BRA LG	1.04	96216176	CTC1LS
CONTRAST C1 AGF	1.71	96216223	CTC1GS
CONTRAST C1 AGS	0.45	96002471	CTC1BD
CONTRAST C1 FILTER/BLU	1.00	96002451	CTC1BF
CONTRAST C1 FILTER/FR	1.09	96005823	CTC1FF
CONTRAST C1 FILTER/GRN	1.00	96002452	CTC1GF
CONTRAST C1 FILTER/RED	1.00	96002454	CTC1RF
CONTRAST C1 FILTER/YEL	0.93	96002453	CTC1YF
CONTRAST C1 LR1	1.03	96002459	CTC1RM
CONTRAST C1 LR2	1.27	96002460	CTC1RW
CONTRAST C1 LR3	1.15	96002461	CTC1RN
CONTRAST C1 LV	0.71	96002470	CTC1LV
CONTRAST C1 LV/AJ	0.69	96005842	CTC1LVA
CONTRAST C1 VS	0.10	96002517	CTC1V
CONTRAST C1 WG	0.77	96002472	CTC1WG
Contrast C Size 2			
CONTRAST C2 250W 240V HIT DE FC2 A/S/L	19.00	96546717	CTC2MD250A
CONTRAST C2 400W 240V HIT DE FC2 A/S/L	19.00	96546716	CTC2MD400A
Contrast C Size 2 Attachments and Accessories			
CONTRAST 2 BRA LG	3.00	96216178	CTC2LS
CONTRAST C2 AGF	1.70	96216224	CTC2GS
CONTRAST C2 AGS	0.50	96002438	CTC2BD
CONTRAST C2 FILTER/BLU	1.80	96002428	CTC2BF
CONTRAST C2 FILTER/FR	1.70	96002426	CTC2FF
CONTRAST C2 FILTER/GRN	1.40	96002427	CTC2GF
CONTRAST C2 FILTER/RED	1.40	96002429	CTC2RF
CONTRAST C2 FILTER/YEL	1.40	96002430	CTC2YF
CONTRAST C2 LR1	1.60	96002423	CTC2RM
CONTRAST C2 LR2	2.00	96002424	CTC2RW
CONTRAST C2 LR3	1.90	96002425	CTC2RN
CONTRAST C2 LV	0.90	96002416	CTC2LV
CONTRAST C2 LV/AJ	1.00	96005829	CTC2LVA
CONTRAST C2 VS	0.30	96002519	CTC2V
CONTRAST C2 WG	0.20	96002432	CTC2WG

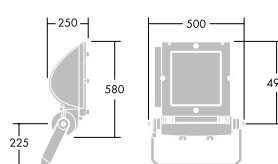
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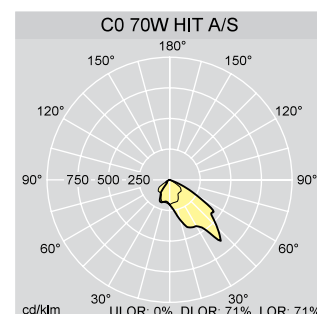
C0



C1



C2



Contrast C

Wide Angle



www.thornlighting.co.uk/CCWA

Floodlight based on Contrast C size 2, with an optical system to give extra wide distribution, for façade illumination



- Optic adapted to give extra wide angle beam for façade lighting
- Optic design allows wide coverage of façade from close off-set positions
- High uniformity

Materials/Finish

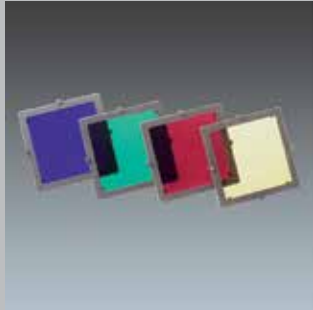
Body: die cast aluminium, textured grey powder coated finish (close to RAL 9007).
Front lenses: 4mm toughened glass.
Attachment retaining screws: nickel plated brass.
Reflector: specular (HIT) or satin (HST) anodised aluminium.

Installation/Mounting

Floodlight is fully adjustable on a short stirrup. Stirrup fixed to mount by central Ø22mm bolt hole and 2 x Ø15mm at 100mm either side of centre. Aiming simplified by indicator on stirrup, locked via central Ø8mm Allen screw. Easy access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Control gear compartment, with rear access panel, fixed below body. Entry via two Allen screws. Cable gland for Ø7.5-13mm cable. Additional knock out provided for through wiring.

Specification

To specify state.
Asymmetrical floodlight with optic to give extra wide distribution, IP65 protected, 150W integral gear, and optional control attachments.
As Thorn Contrast C Wide Angle.



Lamps

HIT-CE (MT) G12 150W

Standards

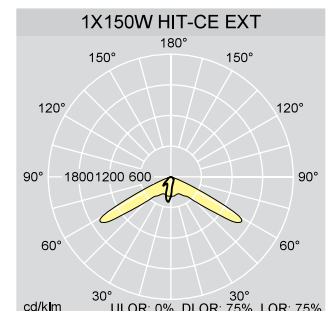
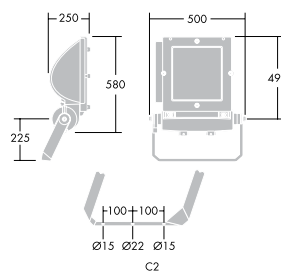
CE EN 60598 IP65 IK08 850°C

Ordering Guide

Lamps supplied only with 'Complete fittings' versions.

Description	Wt (kg)	SAP Code	Cat. No.
Contrast C Wide Angle Complete fittings			
CONTRAST C2 150W 230V G12 EXT/L	18.00	96546737	CTC2MG150EX
CONTRAST C2 150W 230V HST E40 EXT/L	18.00	96546739	CTC2S150EX
Contrast C Wide Angle Floodlight			
CONTRAST C2 150W EXT E40	14.00	96002413	CTC2E150EX
CONTRAST C2 150W EXT G12	14.00	96002414	CTC2G150EX
Contrast C Wide Angle Gear tray			
CONTRAST 2 GT 150W 240V HIT-CE	2.90	96011308	CTC2M150
Contrast C Wide Angle Attachments			
CONTRAST C2 AGF	1.70	96216224	CTC2GS
CONTRAST C2 AGS	0.50	96002438	CTC2BD
CONTRAST C2 FILTER/BLU	1.80	96002428	CTC2BF
CONTRAST C2 FILTER/GRN	1.40	96002427	CTC2GF
CONTRAST C2 FILTER/RED	1.40	96002429	CTC2RF
CONTRAST C2 FILTER/YEL	1.40	96002430	CTC2YF
CONTRAST C2 LV	0.90	96002416	CTC2LV
CONTRAST C2 WG	0.20	96002432	CTC2WG

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Contrast

Mini Pinspot



www.thornlighting.co.uk/CONM

A miniature Contrast floodlight with a selection of glasses and attachments for accentuation



- Ideal for accentuation applications on sculptures, trees or signage, or the emphasis of architectural detail with a choice of reflectors: intensive (8°) and extensive (18°) and light sources
- Light sources, glasses and attachments can be used in combination for a variety of beam distributions
- Surface mounting or ground spike installation with a choice of fixation bases with integral gear
- 360° rotation

Materials/Finish

Body: die-cast aluminium, textured grey powder coated finish (close to RAL 9007). Alternative RAL colours on request

Reflector: pre-anodised high grade aluminium for intensive or extensive beams with conventional lamps

Front lenses: 4mm toughened glass

Fixing bolts and screws: stainless steel.

Attachment retaining screws: nickel plated brass

Ground spike: recyclable polypropylene

Holographic films: non-yellowing polycarbonate

Installation/Mounting

Floodlight rotates 360° around its axis. Locked by two Ø4mm screws. Easy access to lamp via four screws which fix the protective glass. Fixing to surface or spike by two screw holes in the base. After installing gear plate the body locates (by three Allen screws) giving automatic electrical connection. Cable gland for Ø8-10mm cable. Additional knockout provided for through wiring on large base only. Ground spike length 270mm.

For LED versions, add holographic films under the glass with the structured side of the film in contact with the front glass. Rotate the film to obtain the required light effect.

Specification

To specify state:

Miniature surface mounting mains voltage floodlights, with choice of reflector (intensive/extensive), fixation bases, integral gear, IP65 protection, and with choice of holographic films for LED versions and colour filters and beam control attachments for both.

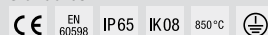
As Thorn Contrast Mini Pinspot.



Lamps

	HIT-TC-CE (MT)	G8.5	20W
	LED		3W
	QT 12	GY6.35	35W
	QT 14	G9	25W

Standards

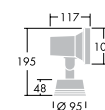


Ordering Guide

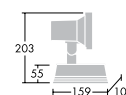
Lamps to be ordered separately, except LED versions.

Description	Wt (kg)	SAP Code	Cat. No.
Contrast Mini Pinspot			
MINI PINSPOT 10D LED 3W 6K WHI	1.00	96200738	CTMPS6K10
MINI PINSPOT 10D LED 3W BLU	1.00	96200735	CTMPSB10
MINI PINSPOT 10D LED 3W GRN	1.00	96200736	CTMPSG10
MINI PINSPOT 10D LED 3W RED	1.00	96200734	CTMPSR10
MINI PINSPOT 10D LED 3W YEL	1.00	96200737	CTMPSY10
MINI PINSPOT 20W HIT-TC-CE G8.5 LPL EXT	1.50	96009853	CTMPS20LEX
MINI PINSPOT 20W HIT-TC-CE G8.5 LPL INT	1.50	96009852	CTMPS20LIN
MINI PINSPOT 35W 12V QT12 GY6.35 SPL EXT	1.10	96009857	CTMPS35SEX
MINI PINSPOT 35W 12V QT12 GY6.35 SPL INT	1.00	96009856	CTMPS35SIN
MINI PINSPOT 35W 12V QT12/GY6.35 LPL EXT	1.10	96102384	CTMPS35LEX
MINI PINSPOT 35W 12V QT12/GY6.35 LPL INT	1.10	96102383	CTMPS35LIN
MINI PINSPOT 40W QT14 G9 SPL INT	1.10	96009854	CTMPS40SIN
MINI PINSPOT 40W QT14/G9 LPL INT	1.00	96102381	CTMPS40LIN
MINI PINSPOT 40W QT14-CL G9 SPL EXT	1.10	96009855	CTMPS40SEX
MINI PINSPOT 40W QT14-CL/G9 LPL EXT	1.00	96102382	CTMPS40LEX
Contrast Mini Pinspot Attachments and accessories			
MINI PINSPOT FILTER BLU	0.20	96009862	CTMPSFB
MINI PINSPOT FILTER GRN	0.50	96009864	CTMPSFG
MINI PINSPOT FILTER RED	0.20	96009863	CTMPSFR
MINI PINSPOT FILTER YEL	0.50	96009865	CTMPSFY
MINI PINSPOT GL A/S EXT (OMW)	0.10	96009859	CTMPSGEX
MINI PINSPOT GL A/S SINT (OMP)	1.50	96009860	CTMPSGSIN
MINI PINSPOT GL FR	0.10	96009858	CTMPSF
MINI PINSPOT MGS	0.30	96009861	CTMPSSPK

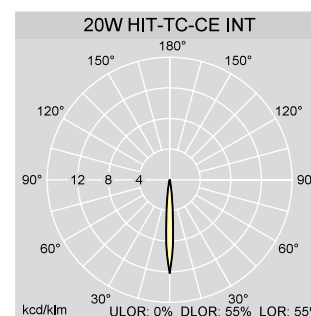
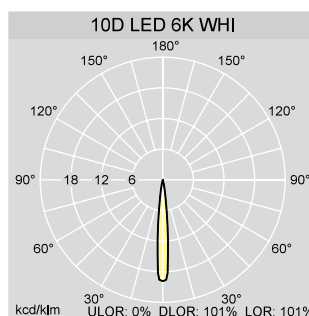
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SPL



LPL



Contrast Pinspot



www.thornlighting.co.uk/CONP

Compact, surface floodlight with lenses and accessories for a multiplicity of effects; part of the Contrast range



- Ideal for precise lighting of sculptures, plants, trees or signage, or the emphasis of architectural detail
- Glasses and attachments can be used in combination for a variety of beam distributions. IP65 rated.
- Surface or stem mounting possibilities with automatic electrical connection. 360° orientation.
- Large base houses transformer or control gear

Materials/Finish

Body: die-cast aluminium, textured grey powder coated finish (close to RAL 9007).

Front lenses: 4mm toughened glass.
Attachment retaining screws: nickel plated brass.

Ground spike: recyclable polypropylene.

Fixing bolts and screws: stainless steel.

Installation/Mounting

Floodlight rotates 360° around its axis. Locked by two Ø4mm screws. Easy access to lamp via four screws which fix the protective glass. Surface, stem (300mm) and ground spike (270mm) mounting by two screw holes in the base. After installing gear plate the body fixes (by three Allen screws) giving automatic electrical connection. Cable gland for Ø6-12mm cable. Through wiring possible via side knock-out in large base versions.

Specification

To specify state:

Small surface or stem mounting mains voltage floodlight, IP65 protected, integral gear, and with choice of colour filters and beam control attachments.

As Thorn Contrast Pinspot.



With large base



With stem



Lamps

	HIPAR 20 (MR)	E27	35W
	QPAR 30	E27	100W
	QPAR-16 (abs) (HA)	GU10	50W
	QR-CB 51 (HRG)	GU5.3	50W

Standards

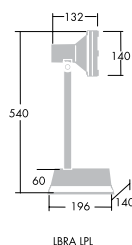


Ordering Guide

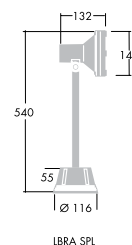
Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Contrast Pinpoint Short bracket			
PINSPOT SBRA 35W HIPAR20/E27 LPL/L	2.70	96546676	CTPS35S
PINSPOT SBRA 50W 12V QR-CB51/GU5.3 LPL/L	2.50	96546679	CTPSR50S
PINSPOT SBRA 50W QPAR16/GU10 SPL	1.20	96002714	CTPSP50S
PINSPOT SBRA 100W QPAR30/E27 SPL/L	1.20	96546677	CTPS100S
Contrast Pinpoint Long bracket			
PINSPOT LBRA 35W HIPAR20/E27 LPL/L	2.80	96546678	CTPS35L
Attachments and accessories			
PINSPOT AGS (X4)	0.10	96002475	CTPSBD
PINSPOT FILTER/BLU	0.35	96002478	CTPSFB
PINSPOT FILTER/GRN	0.35	96002481	CTPSF
PINSPOT FILTER/RED	0.35	96002479	CTPSFR
PINSPOT FILTER/YEL	0.35	96002480	CTPSFY
PINSPOT GL A/S EXT (OMW)	0.14	96002725	CTPSEX
PINSPOT GL A/S SINT (OMP)	0.14	96002724	CTPSSIN
PINSPOT LV	0.20	96002476	CTPSLV
PINSPOT MGS	0.65	96002718	CTPSSPK
PINSPOT VS	0.10	96002477	CTPSV

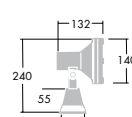
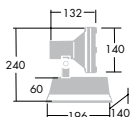
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LBRA LPL



LBRA SPL

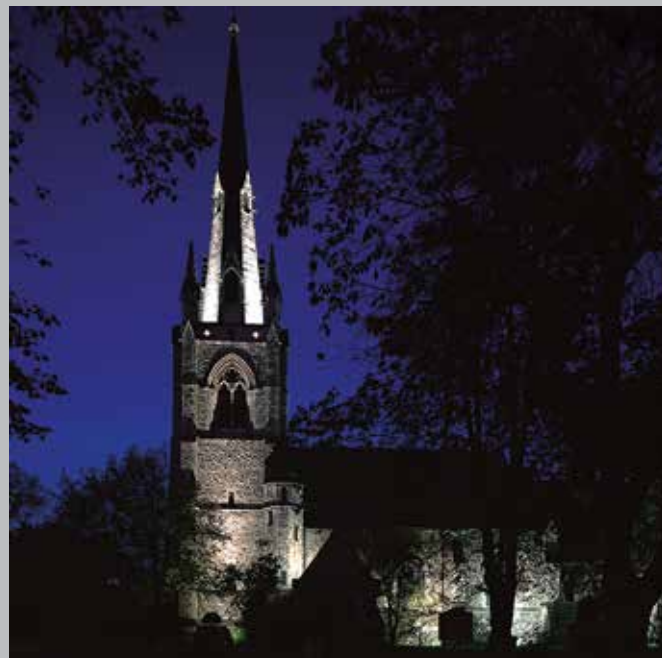


Contrast R



www.thornlighting.co.uk/CONR

A high performance symmetrical floodlight with circular reflectors, refractors and attachments to control the light



- Neat appearance retained across range, with integral gear for lamps from 35W to 400W
- Wide selection of attachments, which can be used in combination, allows for a variety of beam distributions. Refractors can be rotated to give alignment of the beam profile to suit the application
- Hinged frame for easy access to light source. Lamp replacement possible without disturbing aiming angle or removing attachments
- Stirrup mount allows base support or suspension and aiming simplified by indicator with facility to lock memory position. Other brackets available to offer mounting on vertical surfaces and retain full adjustment in both planes

Materials/Finish

Body: die-cast aluminium, textured grey powder coated finish (close to RAL 9007). Alternative RAL colours on request.

Front lenses: 4mm toughened glass. Attachment retaining screws: Nickel plated brass.

Reflector: Specular (HIT) or satin (HST) anodised aluminium.

Installation/Mounting

Floodlight is fully adjustable on a short stirrup. Stirrup fixed to mount by central bolt hole 22mm Ø, and 2 x 15mm Ø holes at 100mm either side of centre. Aiming simplified by indicator on stirrup, locked via central 8mm Ø Allen screw. Easy access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Control gear compartment, with rear access panel, fixed below body. Entry via two Allen screws. Cable gland for 7.5-13mm Ø cable. Additional knock out provided for through wiring.

Specification

To specify state:

Symmetrical distribution floodlight to accommodate 35W to 400W lamps, IP65 protected, integral gear, and optional control attachments. As Thorn Contrast R.

Ordering Guide

Supplied complete with lamps. For complete fitting order body, gear tray and attachment (if required).

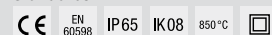
Description	Wt (kg)	SAP Code	Cat. No.
Contrast R Size 0 complete fittings			
CONTRAST R0 35W HIT CE G12/L	7.10	96546703	CTROM35
CONTRAST R0 50W 240V E27 HST/L	6.80	96546699	CTROS50
CONTRAST R0 70W 240V E27 HST/L	7.30	96546698	CTROS70
CONTRAST R0 70W 240V E27 HIT-CE/L	7.30	96546700	CTROME70
CONTRAST R0 70W HIT CE G12/L	7.10	96546702	CTROMG70
Contrast R Size 0 attachments and accessories			
CONTRAST R0 FILTER/BLU	0.80	96002493	CTROBF
CONTRAST R0 FILTER/FR	0.80	96002512	CTROFF
CONTRAST R0 FILTER/GRN	0.80	96002494	CTROGF
CONTRAST R0 FILTER/RED	0.80	96002495	CTRORF
CONTRAST R0 FILTER/YEL	0.80	96002496	CTROYF
CONTRAST R0 GL A/S EXT (OMW)	0.80	96002505	CTROAEX
CONTRAST R0 GL A/S SINT (OMP)	0.90	96002504	CTROASIN
CONTRAST R0 GL S/S XEXT (OME)	0.90	96002506	CTROSXEX
CONTRAST R0 GL/FR S/S SINT (OMS)	0.90	96002503	CTROFSSIN
CONTRAST R0 LR1	0.80	96002500	CTRORM
CONTRAST R0 LR2	0.80	96002501	CTROWW
CONTRAST R0 LR3	0.80	96002502	CTRORN
CONTRAST R0 LV	0.60	96002508	CTROLV
CONTRAST R0 LV/AJ	0.60	96005841	CTROLVA
CONTRAST R0 LV/HC	0.10	96002546	CTROLVH
CONTRAST R0 VS	0.10	96002516	CTROV
CONTRAST R0 WG	0.60	96002511	CTROWG
Contrast R Size 1 complete fittings			
CONTRAST R1 150W 240V HIT CE G12/L	12.00	96546715	CTR1M150
CONTRAST R1 150W 240V HST E40/L	12.00	96546714	CTR1S150



Lamps

	HIT-CE (MT)	G12	35-150W
	HST (ST)	E40	150W
	HST-MF (ST)	E27	50-70W
	HIT (MT)	E40	250-400W

Standards



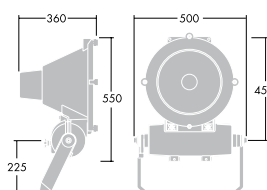
Description	Wt (kg)	SAP Code	Cat. No.
Contrast R Size 1 attachments and accessories			
CONTRAST C1 AGS	0.45	96002471	CTC1BD
CONTRAST R1 AGF	0.70	96216221	CTR1GS
CONTRAST R1 FILTER/BLU	0.90	96002455	CTR1BF
CONTRAST R1 FILTER/FR	1.10	96002474	CTR1FF
CONTRAST R1 FILTER/GRN	0.90	96002456	CTR1GF
CONTRAST R1 FILTER/RED	0.90	96002458	CTR1RF
CONTRAST R1 FILTER/YEL	0.90	96002457	CTR1YF
CONTRAST R1 GL A/S EXT (OMW)	1.10	96002467	CTR1AEX
CONTRAST R1 GL A/S SINT (OMP)	1.10	96002466	CTR1ASIN
CONTRAST R1 GL S/S XEXT (OME)	1.20	96002468	CTR1SXEX
CONTRAST R1 GL/FR S/S SINT (OMS)	1.20	96002465	CTR1FSSIN
CONTRAST R1 LR1	1.00	96002462	CTR1RM
CONTRAST R1 LR2	1.20	96002463	CTR1RW
CONTRAST R1 LR3	1.10	96002464	CTR1RN
CONTRAST R1 LV	0.70	96002469	CTR1LV
CONTRAST R1 LV/AJ	0.70	96005838	CTR1LVA
CONTRAST R1 LV/HC	1.60	96002545	CTR1LVH
CONTRAST R1 VS	0.50	96002518	CTR1V
CONTRAST R1 WG	0.80	96002473	CTR1WG
Contrast R Size 2 complete fittings			
CONTRAST R2 250W 240V HIT CE E40/L	16.90	96546726	CTR2M250
CONTRAST R2 400W 240V HIT CE E40/L	11.30	96546727	CTR2M400
CONTRAST R2 150W 230V HST E40/L	10.30	96546740	CTR2S150
Contrast R Size 2 attachments and accessories			
CONTRAST 2 BRA LG	3.00	96216178	CTC2LS
CONTRAST C2 AGS	0.50	96002438	CTC2BD
CONTRAST R2 AGF	0.20	96012353	CTR2GS
CONTRAST R2 FILTER/BLU	1.30	96002420	CTR2BF
CONTRAST R2 FILTER/FR	1.50	96002418	CTR2FF
CONTRAST R2 FILTER/GRN	1.30	96002419	CTR2GF
CONTRAST R2 FILTER/RED	1.30	96002421	CTR2RF
CONTRAST R2 FILTER/YEL	1.30	96002422	CTR2YF
CONTRAST R2 LR1	1.40	96001962	CTR2RM
CONTRAST R2 LR2	1.60	96002417	CTR2RW
CONTRAST R2 LR3	1.70	96001964	CTR2RN
CONTRAST R2 LV	0.70	96002415	CTR2LV
CONTRAST R2 LV/AJ	0.70	96005839	CTR2LVA
CONTRAST R2 LV/HC	0.10	96002544	CTR2LVH
CONTRAST R2 VS	0.30	96002520	CTR2V
CONTRAST R2 WG	1.10	96002431	CTR2WG

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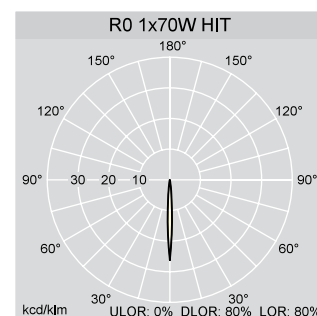


R0

R1



R2

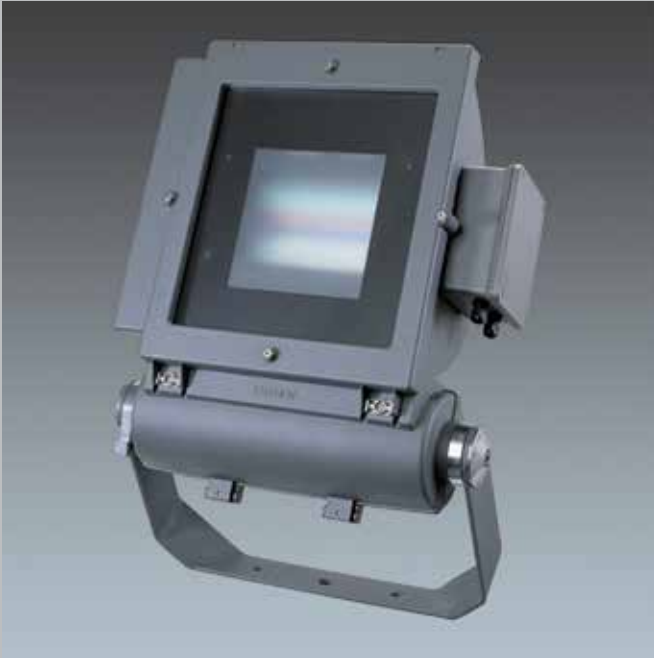


Contrast Spectra C2



www.thornlighting.co.uk/CSP2

A 250W floodlight with a CYM dichroic colour changing system for dynamic lighting



- A colour change version of the well-established Contrast floodlight for illuminating façades and structures up to 12m high
- Easy installation and programming. Aiming simplified by indicator on stirrup, with facility to lock memory position
- Optimised for high performance 250W HIT-DE lamp (colour appearance and lamp life)

Materials/Finish

Body and side mounted addressing box: die-cast aluminium, grey powder coat textured finish close to RAL 9007.

Front glass: 5mm toughened glass.
Lamp holder cover: aluminium, grey powder coat textured finish.
Reflector: glass faceted mirror reflector.

Installation/Mounting

Floodlight is fully adjustable on a short stirrup. Aiming simplified by indicator on stirrup, locked via central 8mm² Allen screw. Easy access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Supplied complete with control gear. Control gear compartment, with rear access panel, fixed below body. Entry via two Allen screws. Cable gland for 7.5-13mm² cable. Additional knock-out provided for through wiring. Address box equipped with 2 No. cable entry glands for DMX NIP cable, loop-in/loop-out facility. Programming Options by using remote programmers (or 'Spectrasoft' software). Programming can be performed in easily accessible areas. Access to projectors unnecessary, providing they have been correctly addressed during installation.

Colour change system: CYM dichroic technology

The CYM system comprises 3 dichroic filters (Cyan, Yellow and Magenta). These filters combine and interplay to create any colour within the spectrum. 62 colours are possible when using the dedicated programmer or an infinite number when using the 'Spectrasoft' software package.

CYM Programmer

The number of 'scene' possibilities available to users of CYM technology is virtually infinite. However, the CYM programmer has been developed to provide ready-made programme solutions for a wide variety of scene options, thus simplifying the programming of an advanced system. Programming is effected by push buttons and an LED display to monitor the inputs. The unit is located in an IP65 rated aluminium housing.

Specification

To specify state:
250W HIT floodlight with integral control gear, CYM colour change system and projector addressing system. Die cast aluminium body, grey powder coat finish. Toughened front glass 5mm. IP65. Stirrup mounted.
As Thorn Contrast Spectra C2.

D-CO LED Floodlights



www.thornlighting.co.uk/DCOF

A range of extremely compact LED floodlights in two body sizes with a simple aesthetic design



- Supplied with stirrup and ground spike
- Visor to prevent obtrusive light
- Integral power supplies
- Pre-wired with 5m cable

Materials/Finish

Floodlights
Body: aluminium, finished in grey
Glass: toughened glass
Gasket: anti-ageing silicone
Stirrup: aluminium finished in grey
Spike: aluminium finished in black
Connection boxes
Body: PC/ABS blend

Installation/Mounting

Floodlights
Supplied pre-wired with 5m cable.
Installation on surface with stirrup or in the ground with a spike.
Connection boxes
Two versions: One has 3 glanded cable entries 2 x PG13 (in) and 1 x PG9 (out), the other 8 glanded cable entries 2 x PG13 (in) and 6 x PG9 (out).

Specification

To specify state:
LED floodlights in 2 sizes, pre-wired with 5m cable, with integral power supply and visor. 2 LED colours: cold white 4000K and warm white 3000K. Sealed to IP67. Stirrup and spike for surface or garden installation for accent lighting applications.
As Thorn D-CO LED outdoor floodlight.



Lamps

LED 3.6-7.2W

Standards

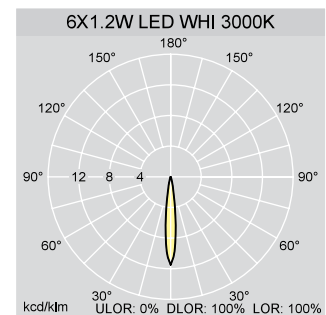
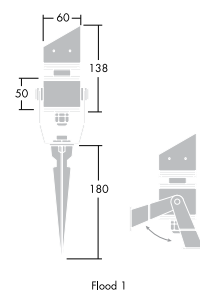
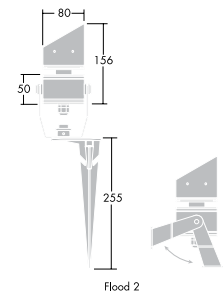
CE EN 60598 IP67 IK08

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Floodlights Size 1			
D-CO F LED FLOOD1 3X1,2W WHI 3K	0.40	96257244	DCF13K12
D-CO F LED FLOOD1 3X1,2W WHI 4K	0.40	96257245	DCF14K12
D-CO LED Floodlights Size 2			
D-CO F LED FLOOD2 6X1,2W WHI 3K	0.90	96257246	DCF23K12
D-CO F LED FLOOD2 6X1,2W WHI 4K	0.90	96257247	DCF24K12
D-CO LED Connection boxes			
CON CABLE BOX 2 ENTRIES 1 EXIT IP67	0.30	96257258	DCCB21
CON CABLE BOX 2 ENTRIES 6 EXIT IP67	0.40	96257259	DCCB26

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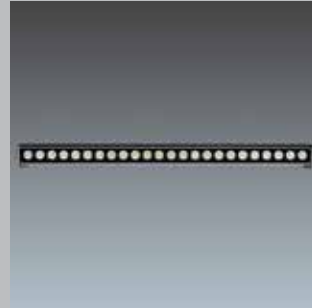


Haline2



www.thornlighting.co.uk/HALN

Discreet wall washer with visor for low glare illumination



Lamps

LED 24W

Standards



- Discreet styling for easy integration with various architectures
- Pre-wired range for easy and quick installation
- Supplied complete with visor to avoid glare

Materials/Finish

Body: extruded anodised aluminium in grey finish (close to RAL 9007)

End caps: die-cast anodised aluminium in grey finish

Brackets: die-cast anodised aluminium in grey finish

Glass: tempered glass

Cable: IN/OUT 0.35m long, H05RN-F, 2x1.0mm²

Installation/Mounting

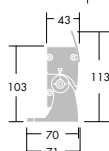
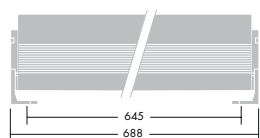
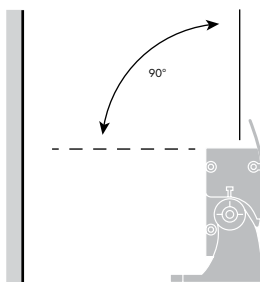
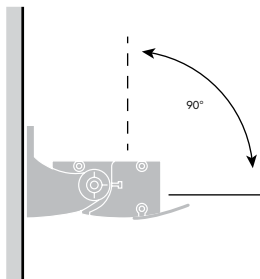
Suitable for surface mounting with tilting angle of 0-90°. Fixed via a stirrup bracket at both ends with M5 screw, Connect the product with the correct power supply and connectors (to be ordered separately, see ordering guide).

Specification

To specify state:

Aesthetic and discreet wall washer with visor, available in 1 length, 2 light distributions and 2 LED colours (cold white and warm white).

As Thorn Haline2.

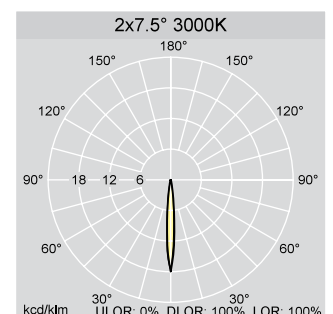
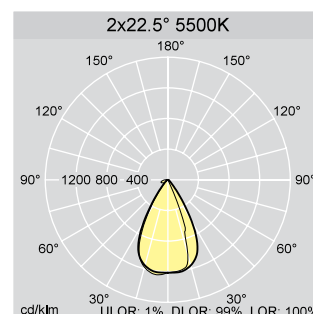


Ordering Guide

Supplied with LEDs, visor and cable (2 x 0.35m). Power supply and connectors to be ordered separately. For each end of line you need to order 1 line terminator.

Description	Wt (kg)	SAP Code	Cat. No.
Haline2 Luminaires			
HALINE2 24W 24V L688 2X22.5° 3000K VS	3.10	96261415	HA23K24225
HALINE2 24W 24V L688 2X22.5° 5500K VS	3.10	96261416	HA255K24225
HALINE2 24W 24V L688 2X7.5° 3000K VS	3.10	96261411	HA23K2475
HALINE2 24W 24V L688 2X7.5° 5500K VS	3.10	96261412	HA255K2475
Haline2 Accessories			
24V AC-DC TRANSFORMER 150W IP67	1.00	96261421	HA2150TX
BAND2 WL FEMALE CONNECT 3POL IP66	0.20	96241225	BA2CF3
BAND2 WL FEMALE MALE CONNECT 3POL IP66	0.10	96241229	BA2CMF3

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Extremely compact outdoor LED spotlight featuring innovative beam adjustment and image projection capabilities



- Patented beam adjustment system, from intensive ($2 \times 4^\circ$) to extensive ($2 \times 18^\circ$), which enables the beam to be altered after installation, simply by Allen key
- Unique gobo support accessory available for outdoor image projection
- Small floodlight range including remote (Milo R) or integral (Milo I) gear for accentuation application
- Flexible use due to 350° rotation and -40 to $+90^\circ$ tilt

Materials/Finish

Body/frame: injected aluminium, textured grey powder coated finish (close to RAL 9007). Other RAL colours available on request.
 Lenses: polycarbonate
 Cable gland: glass-fibre reinforced polyamide
 LED heat sink: nickelled brass
 Screws: stainless steel
 Gasket: silicone
 LED: pre-fixed PCB with $1 \times 2.4\text{W}$ LED

Installation/Mounting

Base secured with M6x25 screws. Installation aided with a fixing centre template in installation instructions. Cable type required: H07RNF $2 \times 1 \text{mm}^2$. Through wiring possible due to 2 cable glands. 2 Allen screws fix the orientation of the optics. For Milo R the maximum number of products in a series is 5 when using the corresponding external gear, with a maximum distance of 165m from the gear to the last luminaire. For Milo I the maximum number in a series is 35, with 60m maximum between luminaires. Gobo support screws directly to the luminaire without tools. Gobo images: external $\text{Ø}25.8\text{mm}$, internal $\text{Ø}20$, printed on glass, metal or plastic.

Specification

To specify state:
 Innovative, small spotlight for 2.4W LED, with gobo attachment and integral or remote gear.
 As Thorn Milo



Lamps

LED 4W

Standards

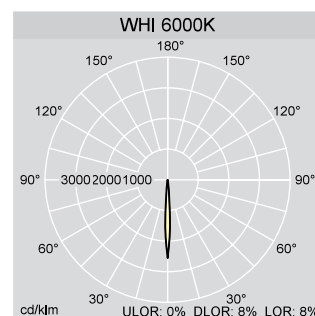
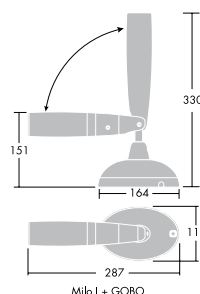
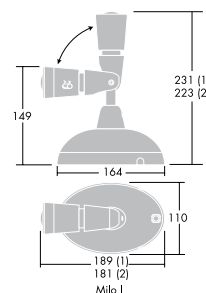
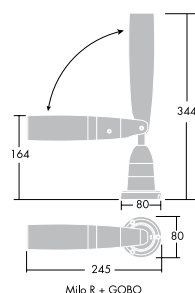
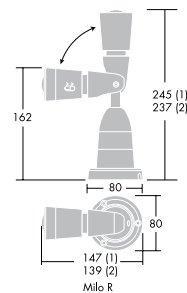
CE EN 60598 IP65 IK09

Ordering Guide

Supplied complete with LED

Description	Wt (kg)	SAP Code	Cat. No.
Milo Integral gear floodlights			
MILO I 1X 2,4W 230/240V 1 LED AMB	1.20	96256597	MLA24
MILO I 1X 2,4W 230/240V 1 LED BLU	1.20	96256592	MLB24
MILO I 1X 2,4W 230/240V 1 LED GRN	1.20	96256593	MLG24
MILO I 1X 2,4W 230/240V 1 LED RED	1.20	96256594	MLR24
MILO I 1X 2,4W 230/240V 1 LED WHI/3000K	1.20	96256596	ML3K24
MILO I 1X 2,4W 230/240V 1 LED WHI/6000K	1.20	96256595	ML6K24
Milo Remote gear floodlights			
MILO R 1X 2,4W LED AMB	0.80	96256603	MLRGA24
MILO R 1X 2,4W LED BLU	0.80	96256598	MLRGB24
MILO R 1X 2,4W LED GRN	0.80	96256599	MLRGG24
MILO R 1X 2,4W LED RED	0.80	96256600	MLRGR24
MILO R 1X 2,4W LED WHI/3000K	0.80	96256602	MLRG3K24
MILO R 1X 2,4W LED WHI/6000K	0.80	96256601	MLRG6K24
Milo Gears			
MILO R GT 17W 230-240V 0.7A-24V	1.70	96231579	MLRG17GT
Milo Attachments and Accessories			
MILO GOBO SUPPORT NM	0.30	96257018	MLGOBO

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NEW

Olsys Illumination



www.thornlighting.co.uk/OSYI

Discreet, durable and efficient LED floodlight for creating decorative lighting effects



- No accessories required for the decorative lighting effects
- $-90^{\circ}/+90^{\circ}$ tilt ensures you can place light exactly where you want it
- Exceptionally low cost of ownership with an optimised heat management system to provide a lifetime up to 80,000 hours (L70, 25°)
- Extremely durable full die-cast aluminium and IP66/IK08 rated package, complete with 10Kv surge protection

Materials/Finish

Body: die-cast aluminium (AS9U)
powder coated silver grey 9006
Enclosure: size 1 clear UV stabilised PC
size 2: tempered glass
Optics: size 1 PC, size 2 micro reflectors in highly reflective anodised aluminium
Screws: stainless steel

Installation/Mounting

Delivered ready to install for wall mounting, knock out on the side of the base for cabling when it is not integrated within the wall. For ground and bracket installations, please order separately the spike. Possibility to post top mount with Olsys street accessories. Delivered with factory fitted integral gear, all supplied in one box. Maintenance: access to gear (replaceable) via 4 screws from the canopy.

Specification

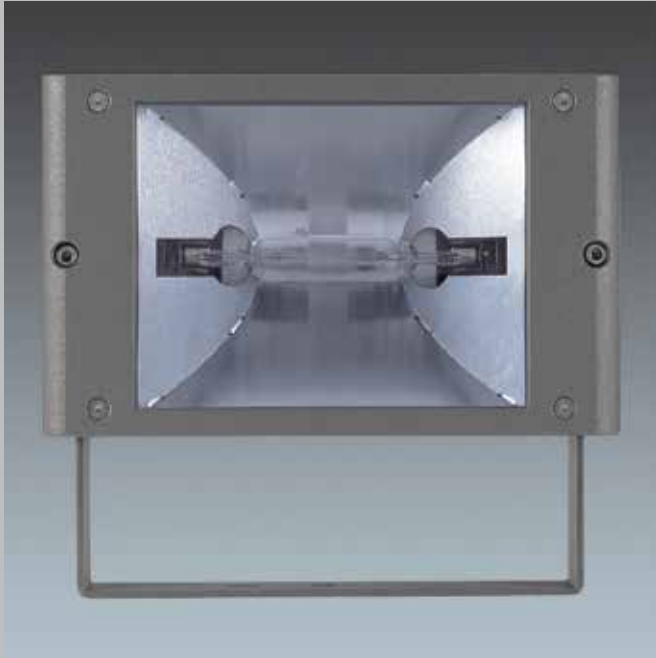
To specify state:
IP66 24/45W (up to 3540lm) LED floodlight with intensive distribution for wall or ground mounting.
As Thorn Olsys illumination.

Qba



www.thornlighting.co.uk/QBAL

Compact, rectangular discharge floodlight with a choice of beam patterns to light façades and architectural features



- Two sizes with two beam patterns, produced by precision reflector systems, cylindrical parabolic and revolution
- Wide selection of attachments, which can be superimposed one on the other to offer a variety of lighting effects. Accessories suitable for both sizes
- Easy access to lamp, without removing attachments

Materials/Finish

Body: die-cast aluminium, grey powder coated close to RAL 9007. Other RAL colours on request.
Body screws: stainless steel.
Front lenses: 4mm toughened glass.
Accessory frame: die-cast painted aluminium.
Attachment retaining screws: nickel plated brass.

Installation/Mounting

Floodlight is fully adjustable on a standard stirrup. Aiming simplified by indicator on stirrup, locked via central Ø8mm Allen screw. Easy front access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Cable gland for Ø7.5-13mm cable. Additional knockout provided for through wiring. Short stirrup accessory available for close wall mounting. Accessories mounted on the front with possible superimposition.

Specification

To specify state:
Rectangular, compact floodlight with concealed stirrup, in die-cast aluminium with asymmetric/symmetric/intensive/extensive optical system for 35W/70W/150W HIT-CE/HIT-DE/HST-DE lamps. Sealed to IP66. As Thorn Qba.

Qba LED



www.thornlighting.co.uk/QBLD

Compact, rectangular floodlight using white and coloured LEDs to light façades and architectural features



- Intensive LED technology in static or dynamic versions: saturated monochromatic with 18 LEDs in Red, Green, Blue, Amber and two whites (3000K and 6000K); RGB colour mixing version with 8 LEDs driven by DMX protocol
- A wide selection of attachments creates a variety of beam distributions, including a glass filter to decrease the colour temperature on white versions
- Integral power supply for monochromatic versions and power supply plus DMX driver for the RGB version
- Uses the same body as Qba 2 enabling visual integration with existing schemes

Materials/Finish

Body, frame and accessories: die-cast aluminium ENAB44100 with textured grey powder coated finish (close to RAL 9007)
Body screws: stainless steel
Attachment retaining screws: nickel plated brass
Front glass: toughened glass
Alternative RAL colours on request

Installation/Mounting

Adjustable on a stirrup. Aiming is simplified by an indicator on the body sides, locked via a central Ø8mm allen screw. Short stirrup accessory available for close wall mounting. Easy rear access to electrical connector. Cable gland for Ø6-11 mm cable. An additional cable gland for through wiring is available on request. For DMX connection (RGB version only) a DMX cable is required for creative effects. For DMX512 cable the connection requires two 7mm cable glands. Data+, data- and ground are routed to the DMX connector.

Specification

To specify state:
Compact rectangular LED floodlight for wall washing. Die-cast aluminium body with concealed stirrup with monochromatic white 3000K/ white 6000K/ red / blue / green / amber LEDs with integral power supply or dynamic RGB LED with power supply and DMX driver for the RGB version. Sealed IP66.
As Thorn Qba LED.



Lamps

LED 24W

Standards

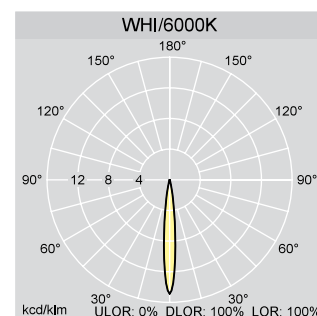
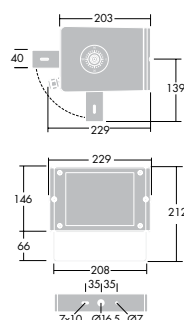
CE EN 60598 IP66 IK08 T_a25

Ordering Guide

One code includes the Qba LED with integral power supply for the monochromatic versions and power supply + DMX system for the RGB version. All other DMX components to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Qba LED Monochromatic versions			
QBA LED 24W 240V 18LED AMB	5.30	96254276	QBA24
QBA LED 24W 240V 18LED BLU	5.30	96254273	QBB24
QBA LED 24W 240V 18LED GRN	5.30	96254275	QBG24
QBA LED 24W 240V 18LED RED	5.30	96254274	QBR24
QBA LED 24W 240V 18LED WHI/3000K	5.30	96254272	QB3K24
QBA LED 24W 240V 18LED WHI/6000K	5.30	96254271	QB6K24
Qba LED RGB version			
QBA LED 36W 240V 8LED RGB DMX	5.10	96254277	QBRGB36X
Qba LED Attachments			
QBA AGS (X4)	0.40	96012230	QBBD
QBA FILTER REFR 555B H	0.40	96220098	QBFH
QBA FILTER REFR 555B V	0.40	96220097	QBFV
QBA GL CHROMATIC CORRECTION FILTER	0.20	96254527	QBCCF
QBA LV	0.60	96012231	QBLV
QBA SHORT STIRRUP	0.30	96012236	QBSS
QBA VS	0.20	96012228	QBV
QBA WG	0.20	96012229	QBWG

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Satin



www.thornlighting.co.uk/SATN

A discreet wall washing linear floodlight offering efficient and effective illumination



- 53 x 52mm small section to be invisible on site
- Choice of light distributions, LED colours and lengths
- Side by side installation for a uniform light beam
- Pre-wired versions for simple installation

Materials/Finish

Body: painted anodised aluminium
Sides: grey plastic
Glass: UV stabilised PC
Cable: norm H05RNF for power supply connections
Gasket: EPDM rubber
Stirrups: stainless steel 304L

Installation/Mounting

Suitable for surface mounting and recessed mounting when installed in ground recessed boxes. For surface mounting fix the two stirrups on surface with two screws each. Adjust the stirrup angle with the two lateral screws already included. Other RAL, LED colours and lengths available on request.

Specification

To specify state:

Discreet high performance linear floodlight for wall washing, with choice of lengths, light distributions and LED colours (neutral white, cold white and blue).
As Thorn Satin.

Ordering Guide

Supplied complete with LEDs. Two compact stirrups included. If extension stirrup is required please order separately. Integral gear tray.

Description	Wt (kg)	SAP Code	Cat. No.
Satin IN (end of line) 660mm			
SATIN 34W L660 20X36° 3000K IN	1.50	96260779	SA3K3436E
SATIN 34W L660 20X36° 4500K IN	1.50	96260780	SA45K3436E
SATIN 34W L660 20X36° BLU IN	1.50	96260778	SAB3436E
SATIN 34W L660 2X21° 3000K IN	1.50	96260775	SA3K3421E
SATIN 34W L660 2X21° 4500K IN	1.50	96260776	SA45K3421E
SATIN 34W L660 2X21° BLU IN	1.50	96260774	SAB3421E
SATIN 34W L660 2X7° 3000K IN	1.50	96260771	SA3K347E
SATIN 34W L660 2X7° 4500K IN	1.50	96260772	SA45K347E
SATIN 34W L660 2X7° BLU IN	1.50	96260770	SAB347E
Satin IN (end of line) 980mm			
SATIN 51W L980 20X36° 3000K IN	2.20	96260791	SA3K5136E
SATIN 51W L980 20X36° 4500K IN	2.20	96260792	SA45K5136E
SATIN 51W L980 20X36° BLU IN	2.20	96260790	SAB5136E
SATIN 51W L980 2X21° 3000K IN	2.20	96260787	SA3K5121E
SATIN 51W L980 2X21° 4500K IN	2.20	96260788	SA45K5121E
SATIN 51W L980 2X21° BLU IN	2.20	96260786	SAB5121E
SATIN 51W L980 2X7° 3000K IN	2.20	96260783	SA3K517E
SATIN 51W L980 2X7° 4500K IN	2.20	96260784	SA45K517E
SATIN 51W L980 2X7° BLU IN	2.20	96260782	SAB517E
Satin IN (end of line) 1300mm			
SATIN 68W L1300 20X36° 3000K IN	2.70	96260803	SA3K6836E
SATIN 68W L1300 20X36° 4500K IN	2.70	96260804	SA45K6836E
SATIN 68W L1300 20X36° BLU IN	2.70	96260802	SAB6836E
SATIN 68W L1300 2X21° 3000K IN	2.70	96260799	SA3K6821E
SATIN 68W L1300 2X21° 4500K IN	2.70	96260800	SA45K6821E
SATIN 68W L1300 2X21° BLU IN	2.70	96260798	SAB6821E
SATIN 68W L1300 2X7° 3000K IN	2.70	96260795	SA3K687E
SATIN 68W L1300 2X7° 4500K IN	2.70	96260796	SA45K687E
SATIN 68W L1300 2X7° BLU IN	2.70	96260794	SAB687E



Lamps

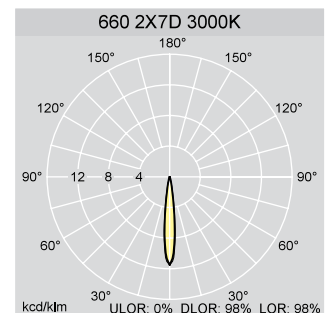
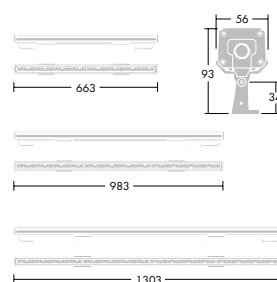
LED 29-57W

Standards

CE EN 60598 IP67 IK08 T_a25 960°C

Description	Wt (kg)	SAP Code	Cat. No.
Satin IN/OUT (through-wire) 660mm			
SATIN 34W L660 20X36° 3000K IO	1.60	96260832	SA3K3436T
SATIN 34W L660 20X36° 4500K IO	1.60	96260833	SA45K3436T
SATIN 34W L660 20X36° BLU IO	1.60	96260831	SAB3436T
SATIN 34W L660 2X21° 3000K IO	1.60	96260828	SA3K3421T
SATIN 34W L660 2X21° 4500K IO	1.60	96260829	SA45K3421T
SATIN 34W L660 2X21° BLU IO	1.60	96260827	SAB3421T
SATIN 34W L660 2X7° 3000K IO	1.60	96260824	SA3K347T
SATIN 34W L660 2X7° 4500K IO	1.60	96260825	SA45K347T
SATIN 34W L660 2X7° BLU IO	1.60	96260823	SAB347T
Satin IN/OUT (through-wire) 980mm			
SATIN 51W L980 20X36° 3000K IO	2.30	96260844	SA3K5136T
SATIN 51W L980 20X36° 4500K IO	2.30	96260845	SA45K5136T
SATIN 51W L980 20X36° BLU IO	2.30	96260843	SAB5136T
SATIN 51W L980 2X21° 3000K IO	2.30	96260840	SA3K5121T
SATIN 51W L980 2X21° 4500K IO	2.30	96260841	SA45K5121T
SATIN 51W L980 2X21° BLU IO	2.30	96260839	SAB5121T
SATIN 51W L980 2X7° 3000K IO	2.30	96260836	SA3K517T
SATIN 51W L980 2X7° 4500K IO	2.30	96260837	SA45K517T
SATIN 51W L980 2X7° BLU IO	2.30	96260835	SAB517T
Satin IN/OUT (through-wire) 1300mm			
SATIN 68W L1300 20X36° 3000K IO	2.80	96260856	SA3K6836T
SATIN 68W L1300 20X36° 4500K IO	2.80	96260857	SA45K6836T
SATIN 68W L1300 20X36° BLU IO	2.80	96260855	SAB6836T
SATIN 68W L1300 2X21° 3000K IO	2.80	96260852	SA3K6821T
SATIN 68W L1300 2X21° 4500K IO	2.80	96260853	SA45K6821T
SATIN 68W L1300 2X21° BLU IO	2.80	96260851	SAB6821T
SATIN 68W L1300 2X7° 3000K IO	2.80	96260848	SA3K687T
SATIN 68W L1300 2X7° 4500K IO	2.80	96260849	SA45K687T
SATIN 68W L1300 2X7° BLU IO	2.80	96260847	SAB687T
Satin Surface mounting accessories			
SATIN STIRRUP EXTENSION 202MM X2	0.73	96260807	SASE
Satin Recessed mounting accessories			
SATIN 1300MM FB GL 1470X250X140	26.00	96261250	SARB13
SATIN 660MM FB GL 830X250X140	15.00	96261248	SARB66
SATIN 980MM FB GL 1150X250X140	20.00	96261249	SARB98

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OUTDOOR LIGHTING



Area Floodlighting



Citroën Garage, Barentin, France



Areaflood
334



Olsys Area
338



Sonpak LX 15/25/40
340



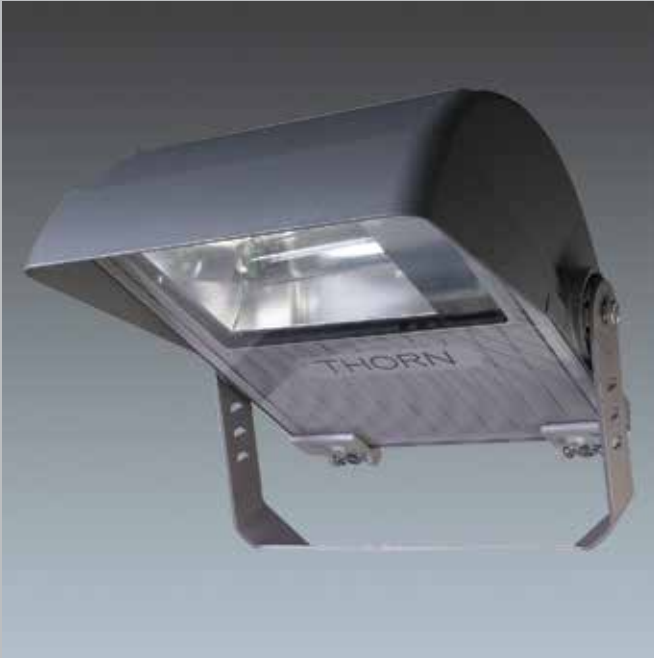
Sonpak LX 7/15
342

Areaflood



www.thornlighting.co.uk/AFLD

General purpose area floodlights with superior optical performance and light control



- Choice of two sizes, wattage (42 to 600W), finish (light or dark sanded grey) and optic (flood for typical surround lighting and street for typical urban lighting)
- The accurate optical system with integrated visor, permits effective control of obtrusive light (0 cd at 90°). External accessories also available
- Ability to accept outdoor lighting controls (Power Reduction, Hot Restrike and remote management systems)
- Excellent thermal management (self regulating breather) for reliable operation indoors and outdoors (+35°C Ta depending on version and position of the floodlight)

Materials/Finish

Body: recyclable die-cast aluminium AS12 (LM6 equivalent, EN AC-44300) for high corrosion resistance
Finishes: powdered paint Azko Nobel dark sandy grey 900 or silver sandy grey 150
Gasket: silicon gasket provides IP66 seal
Hinges and finger grips: polyamid glass fibre 20%
Gear tray box: polyamid glass fibre 30%
Gear tray box cover: polypropylene
Reflector: high reflectivity pre-anodised high grade aluminium
Glass: toughened (5mm thick)
Accessories: metal plate painted in the same finish as the body
Filters: tinted row coloured filters

Installation/Mounting

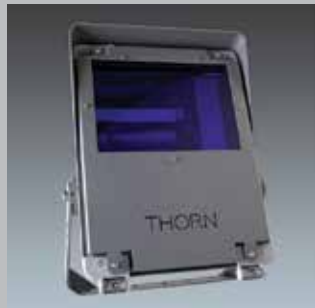
Reversible mounting stirrup and aiming for horizontal position is simplified via 2 indicators depending on the stirrup mounting position.
Cable gland for 8-12mm. Drop front glass access with 2 screws. Delivered with stirrup, gear tray and lamp in a single package. Choice of spigot adaptor for post top mounting the stirrup onto a column (76mm). Fixes to column with 2 M10 nuts and bolts (supplied). Stirrup fixed by 2 bolts and washers (supplied). Choice of decorative bracket arm for mounting stirrup onto column (60 or 76mm). Fixes via 4 M8 bolts (not supplied).

Specification

To specify state:
A general purpose AS12 (LM6 equivalent) IP66 area floodlight with superior optical performance. Inclined front glass and integrated visor, delivering precise lighting control with a choice of asymmetric or street optics. 70-600W high pressure sodium (HST), 45-400W metal halide (HIT) or 42-57W compact fluorescent (TC-TEL).
As Thorn Areaflood



Street optic



Colour filter



Louvre attachment



Lamps

	HIT-CE (MT)	E40	45-250W
	HIT-CE E27 (MT)	E27	70W
	HIT-DE (MD)	Fc2	250-400W
	HIT-DE-CE (MD)	RX7s-24	70-150W
	HST-MF (ST)	E40	70-600W
	TC-TELI (FSM)	GX24q-5	57W
	TC-TELI (FSM)	GX24q-4	42W
	HIT (MT)	E40	400W

Standards

T _a 35				

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood 1 Conventional gear - flood optic			
AREA1 70W HIT-CE/L830 ANT A/S	8.50	96255596	AF1M70A
AREA1 70W HIT-DE-CE/L830 ANT A/S	8.50	96255610	AF1MD70A
AREA1 70W HST-MF/L ANT A/S	8.50	96255250	AF1S70A
AREA1 100W HIT-CE/L830 ANT A/S	8.80	96255690	AF1M100A
AREA1 100W HST-MF/L ANT A/S	8.80	96255734	AF1S100A
AREA1 150W HIT-CE/L830 ANT A/S	9.20	96254413	AF1M150A
AREA1 150W HIT-DE-CE/L830 ANT A/S	9.20	96254140	AF1MD150A
AREA1 150W HST-MF/L ANT A/S	9.20	96255251	AF1S150A
Areaflood 1 Conventional gear - street optic			
AREA1 70W HIT-CE/L830 ANT STR	8.80	96255597	AF1M70S
AREA1 70W HST-MF/L ANT STR	8.80	96255639	AF1S70S
AREA1 100W HIT-CE/L830 ANT STR	9.00	96255691	AF1M100S
AREA1 100W HST-MF/L ANT STR	9.00	96255735	AF1S100S
AREA1 150W HIT-CE/L830 ANT STR	9.50	96255784	AF1M150S
AREA1 150W HST-MF/L ANT STR	9.50	96255833	AF1S150S
Areaflood 1 Conventional gear - mini photocell			
AREA1 70W HIT-CE/L830 PM ANT A/S	8.50	96255598	AF1M70MA
AREA1 70W HST-MF/L PM ANT A/S	8.50	96255640	AF1S70MA
AREA1 100W HIT-CE/L830 PM ANT A/S	8.80	96255692	AF1M100MA
AREA1 100W HST-MF/L PM ANT A/S	8.80	96255736	AF1S100MA
AREA1 150W HIT-CE/L830 PM ANT A/S	9.20	96255785	AF1M150MA
AREA1 150W HST-MF/L PM ANT A/S	9.20	96255834	AF1S150MA
Areaflood 1 Conventional gear - mini photocell - street optic			
AREA1 70W HIT-CE/L830 PM ANT STR	8.80	96255599	AF1M70MS
AREA1 70W HST-MF/L PM ANT STR	8.80	96255641	AF1S70MS
AREA1 100W HIT-CE/L830 PM ANT STR	9.00	96255693	AF1M100MS
AREA1 100W HST-MF/L PM ANT STR	9.00	96255737	AF1S100MS
AREA1 150W HIT-CE/L830 PM ANT STR	9.50	96255786	AF1M150MS
AREA1 150W HST-MF/L PM ANT STR	9.50	96255835	AF1S150MS

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood 1 Electronic gear - flood optic			
AREA1 42W TC-TEL/L830 HF ANT A/S	7.30	96255553	AF142A
AREA1 45W HIT-CE/L620 DGE ANT A/S	8.00	96255561	AF1M45ZA
AREA1 60W HIT-CE/L620 DGE ANT A/S	8.00	96255576	AF1M60ZA
AREA1 70W HIT-CE/L830 DGE ANT A/S	7.50	96255588	AF1M70ZA
AREA1 70W HIT-DE-CE/L830 DGE ANT A/S	7.40	96255608	AF1MD70ZA
AREA1 70W HST-MF/L DGE ANT A/S	7.50	96255629	AF1S70ZA
AREA1 100W HIT-CE/L830 DGE ANT A/S	7.50	96255682	AF1M100ZA
AREA1 100W HST-MF/L DGE ANT A/S	7.70	96255718	AF1S100ZA
AREA1 140W HIT-CE/L620 DGE ANT A/S	8.10	96255745	AF1M140ZA
AREA1 150W HIT-CE/L830 DGE ANT A/S	7.50	96255776	AF1M150ZA
AREA1 150W HIT-DE-CE/L830 DGE ANT A/S	7.50	96255793	AF1MD150ZA
AREA1 150W HST-MF/L DGE ANT A/S	7.70	96255817	AF1S150ZA
AREA1 90W HIT-CE/L620 DGE ANT A/S	8.10	96255650	AF1M90ZA
Areaflood 1 Electronic gear - street optic			
AREA1 57W TC-TEL/L830 HF ANT STR	7.70	96255568	AF157S
Areaflood 1 Electronic gear - mini photocell - flood optic			
AREA1 42W TC-TEL/L830 HF PM ANT A/S	7.30	96255555	AF142MA
AREA1 45W HIT-CE/L620 DGE PM ANT A/S	8.00	96255562	AF1M45ZMA
AREA1 60W HIT-CE/L620 DGE PM ANT A/S	8.00	96255578	AF1M60ZMA
AREA1 100W HIT-CE/L830 DGE PM ANT A/S	7.50	96255684	AF1M100ZMA
AREA1 100W HST-MF/L DGE PM ANT A/S	7.70	96255720	AF1S100ZMA
AREA1 140W HIT-CE/L620 DGE PM ANT A/S	8.10	96255747	AF1M140ZMA
AREA1 150W HIT-CE/L830 DGE PM ANT A/S	7.50	96255778	AF1M150ZMA
AREA1 150W HST-MF/L DGE PM ANT A/S	7.70	96255819	AF1S150ZMA
AREA1 90W HIT-CE/L620 DGE PM ANT A/S	8.10	96255652	AF1M90ZMA
Areaflood 1 Electronic gear - mini photocell - street optic			
AREA1 57W TC-TEL/L830 HF PM ANT STR	7.70	96255570	AF157MS
Areaflood 1 Attachments			
AREA1 AGS ANT	1.90	96255327	AF1BD
AREA1 FILTER BLU ANT	1.40	96255329	AF1FB
AREA1 FILTER GRN ANT	1.40	96255331	AF1F
AREA1 FILTER RD ANT	1.40	96255333	AF1FR
AREA1 FILTER YEL ANT	1.40	96255335	AF1FY
AREA1 LV ANT	1.40	96255337	AF1LB
AREA1 WG ANT	1.90	96255339	AF1WG

Areaflood



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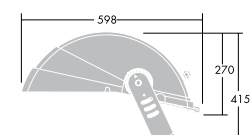
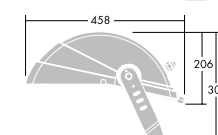
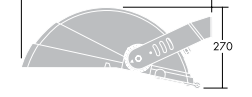
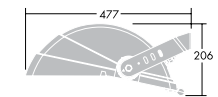
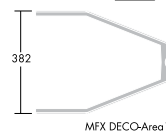
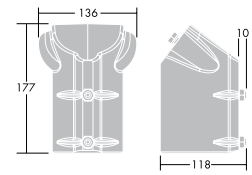
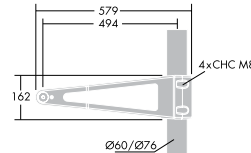
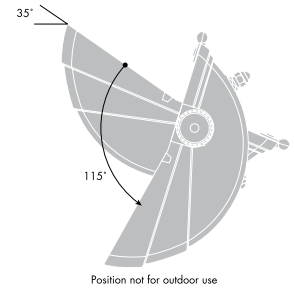
General purpose area floodlights with superior optical performance and light control

Ordering Guide

Supplied complete with lamps

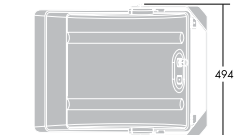
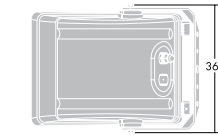
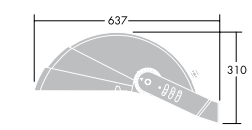
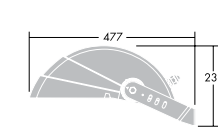
Description	Wt (kg)	SAP Code	Cat. No.
Areaflood 2 Conventional gear - flood optic			
AREA2 150W HIT-CE/L830 ANT A/S3	14.40	96255857	AF2M150A3
AREA2 150W HIT-CE/L830 ANT A/S6	14.40	96254137	AF2M150A6
AREA2 150W HST-MF/L ANT A/S3	14.40	96255872	AF2S150A3
AREA2 150W HST-MF/L ANT A/S6	14.40	96255873	AF2S150A6
AREA2 250W HIT/L742 ANT A/S3	15.70	96255907	AF2M250A3
AREA2 250W HIT/L742 ANT A/S6	15.70	96255908	AF2M250A6
AREA2 250W HIT-DE/L842 ANT A/S6	15.70	96255913	AF2MD250A6
AREA2 250W HST-MF/L ANT A/S3	15.70	96255935	AF2S250A3
AREA2 250W HST-MF/L ANT A/S6	15.70	96255936	AF2S250A6
AREA2 400W HIT/L742 ANT A/S3	17.00	96255962	AF2M400A3
AREA2 400W HIT/L742 ANT A/S6	17.00	96255963	AF2M400A6
AREA2 400W HIT-DE/L842 ANT A/S3	17.00	96255971	AF2MD400A3
AREA2 400W HIT-DE/L842 ANT A/S6	17.00	96255972	AF2MD400A6
AREA2 400W HST-MF/L ANT A/S3	17.00	96255264	AF2S400A3
AREA2 400W HST-MF/L ANT A/S6	17.00	96255075	AF2S400A6
AREA2 600W HST-MF/L WI NG ANT A/S3	12.40	96255997	AF2S600A3
AREA2 600W HST-MF/L WI NG ANT A/S6	12.40	96255998	AF2S600A6
Areaflood 2 Conventional gear - hot restrike - flood optic			
AREA2 400W HIT-DE/L842 HR ANT A/S6	13.10	96255973	AF2MD400HRA6
Areaflood 2 Conventional gear - mini photocell - flood optic			
AREA2 150W HIT-CE/L830 PM ANT A/S3	14.40	96255858	AF2M150MA3
AREA2 150W HIT-CE/L830 PM ANT A/S6	14.40	96255859	AF2M150MA6
AREA2 150W HST-MF/L PM ANT A/S3	14.40	96255874	AF2S150MA3
AREA2 150W HST-MF/L PM ANT A/S6	14.40	96255875	AF2S150MA6
AREA2 250W HIT/L742 PM ANT A/S3	15.70	96255072	AF2M250MA3
AREA2 250W HIT/L742 PM ANT A/S6	15.70	96255909	AF2M250MA6
AREA2 250W HST-MF/L PM ANT A/S3	15.70	96255937	AF2S250MA3
AREA2 250W HST-MF/L PM ANT A/S6	15.70	96255938	AF2S250MA6
AREA2 400W HIT/L742 PM ANT A/S3	17.00	96255964	AF2M400MA3
AREA2 400W HIT/L742 PM ANT A/S6	17.00	96255965	AF2M400MA6
AREA2 400W HST-MF/L PM ANT A/S3	17.00	96255989	AF2S400MA3
AREA2 400W HST-MF/L PM ANT A/S6	17.00	96255990	AF2S400MA6
Areaflood 2 Electronic gear - flood optic			
AREA2 150W HST-MF/L DGE ANT A/S3	12.80	96255864	AF2S150ZA3
AREA2 150W HST-MF/L DGE ANT A/S6	12.80	96255865	AF2S150ZA6
AREA2 250W HIT/L742 DGE ANT A/S3	13.70	96255899	AF2M250ZA3
AREA2 250W HIT/L742 DGE ANT A/S6	13.70	96255900	AF2M250ZA6
AREA2 250W HST-MF/L DGE ANT A/S3	13.70	96255927	AF2S250ZA3
AREA2 250W HST-MF/L DGE ANT A/S6	13.70	96255928	AF2S250ZA6
Areaflood 2 Electronic gear - mini photocell - flood optic			
AREA2 150W HST-MF/L DGE PM ANT A/S3	12.80	96255866	AF2S150ZMA3
AREA2 150W HST-MF/L DGE PM ANT A/S6	12.80	96255867	AF2S150ZMA6
AREA2 250W HIT/L742 DGE PM ANT A/S3	13.70	96255901	AF2M250ZMA3
AREA2 250W HIT/L742 DGE PM ANT A/S6	13.70	96255902	AF2M250ZMA6
AREA2 250W HST-MF/L DGE PM ANT A/S3	13.70	96255929	AF2S250ZMA3
AREA2 250W HST-MF/L DGE PM ANT A/S6	13.70	96255930	AF2S250ZMA6
Areaflood 2 Attachments			
AREA2 AGS ANT	2.90	96255341	AF2BD
AREA2 FILTER BLU ANT	2.40	96255343	AF2FB
AREA2 FILTER GRN ANT	2.40	96255345	AF2F
AREA2 FILTER RD ANT	2.40	96255347	AF2FR
AREA2 FILTER YEL ANT	2.40	96255349	AF2FY
AREA2 LV ANT	2.40	96255351	AF2LV
AREA2 WG ANT	2.90	96255353	AF2WG
Areaflood 1 Accessories			
AREA MTP 60MM ANT	1.80	96256062	AFPTB60
AREA MTP 76MM ANT	1.80	96256060	AFPTB76
AREA1 MFX DECO 60MM ANT	5.20	96256105	AF1DB60
AREA1 MFX DECO 76MM ANT	5.20	96257925	AF1DB76

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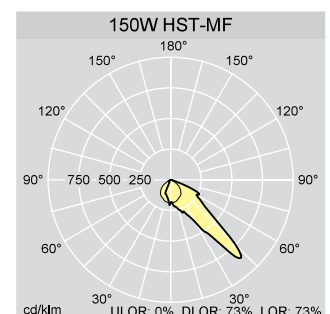
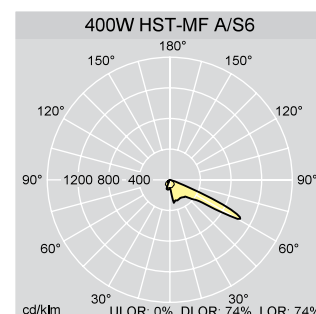
Area 1

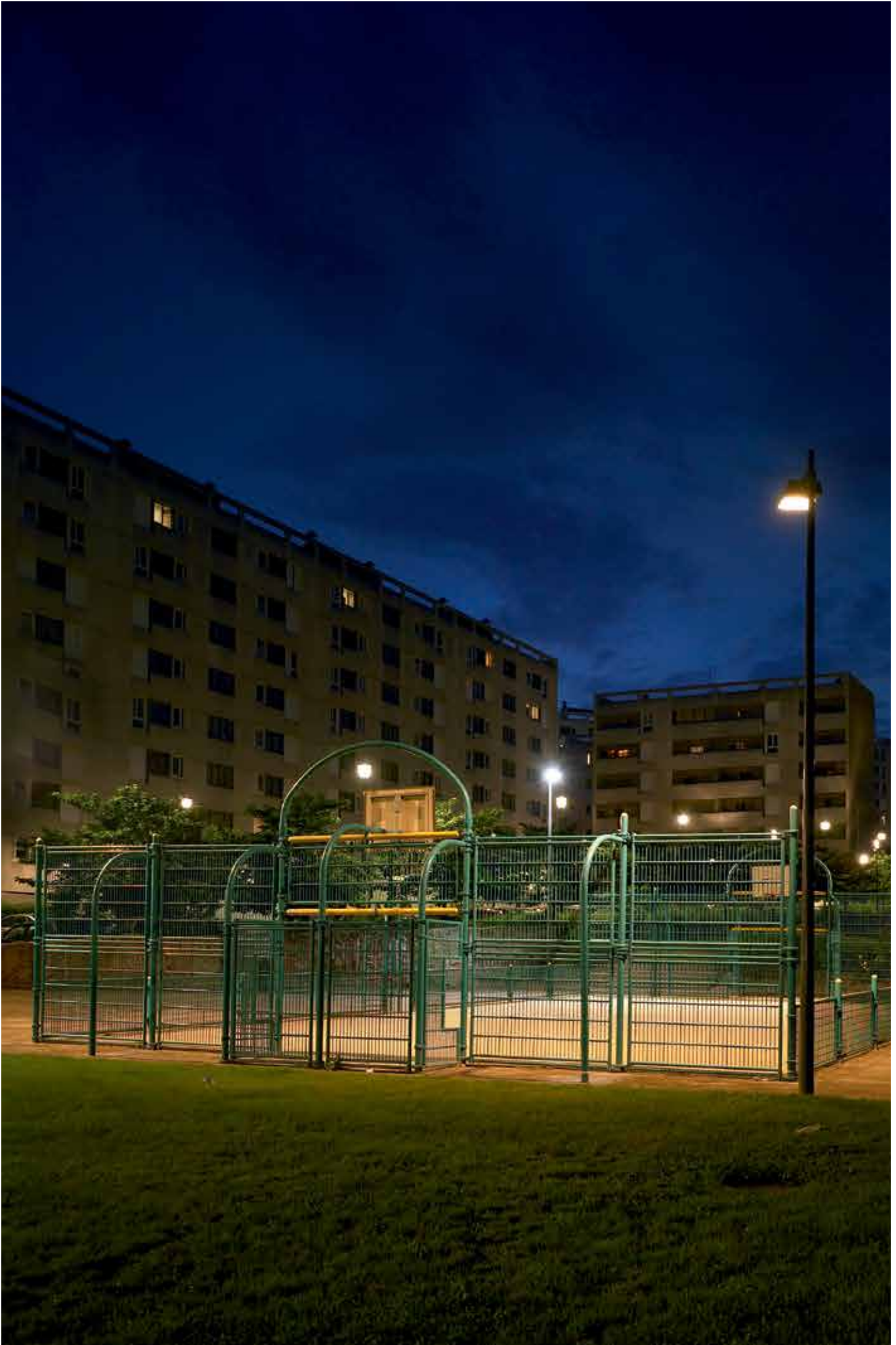
Area 2



Area 1
Sca: 0.044m²

Area 2
Sca: 0.087m²





NEW

Olsys Area



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Durable, versatile and efficient LED floodlights for outdoor and indoor area lighting



- Wide choice including two sizes, four lumen packages, two colour temperatures, tilting angles $-90^{\circ}/+90^{\circ}$ and three mounting options
- Exceptionally low cost of ownership with an optimised heat management system to provide a lifetime up to 80,000 hours (L70, 25°)
- Extremely durable full die-cast aluminium and IP66/IK08 rated package, complete with 10Kv surge protection
- Minimalist design is coordinated with other Olsys luminaires, poles and brackets, seamlessly integrating with the environment

Materials/Finish

Body: die-cast aluminium (AS9U)
 powder coated silver grey 9006
 Enclosure: size 1 clear UV stabilised
 PC size 2: tempered glass
 Optics: size 1 PC, size 2 micro
 reflectors in highly reflective anodised
 aluminium
 Screws: stainless steel

Installation/Mounting

Size 2 supplied pre-wired with connector.
 Delivered ready to install for wall mounting, knock out on the side of the base for cabling when it is not integrated within the wall. For ground mounting please order the spike accessory. Possibility to post top mount with Olsys street accessories. Dedicated column package for urban area lighting or car parks. Delivered with factory integral gear, all supplied in one box.
 Maintenance: access to gear (replaceable) via 4 screws from the canopy.

Specification

To specify state:
 IP66 LED floodlights available in 24/45/70/90W (up to 8530lm) with asymmetric distribution.
 As Thorn Olsys Area.



Wall mounting



Size 1 optics



Size 2 optics



Ground or bracket mounting



Size 1 optics



Post top mounting

Lamps

LED 24-90W

Standards

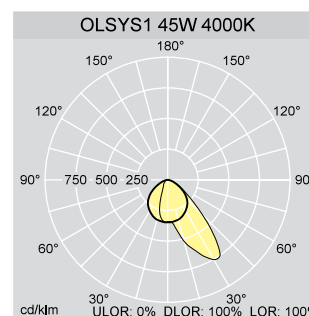
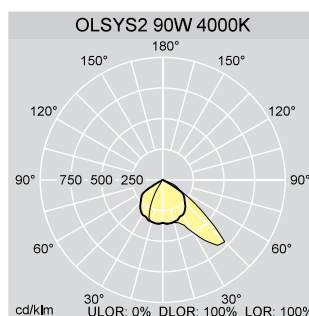
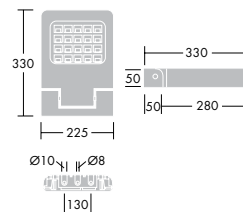
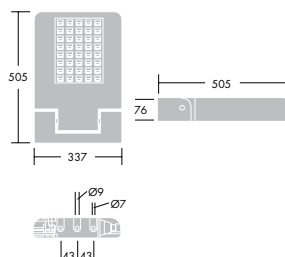
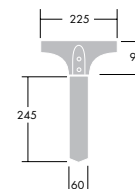


Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Olsys 1 area			
OLSYS1 24W LED CL1 3000K A/S	2.80	96262341	OY1A3K24
OLSYS1 24W LED CL1 4000K A/S	2.80	96262340	OY1A4K24
OLSYS1 45W LED CL1 3000K A/S	2.80	96262343	OY1A3K45
OLSYS1 45W LED CL1 4000K A/S	2.80	96262342	OY1A4K45
Olsys 1 area, mounting accessories			
OLSYS1 SPIKE	1.30	96262334	OY1ASPK
Olsys 2 area			
OLSYS2 70W LED CL1 3000K A/S	8.45	96262349	OY2A3K70
OLSYS2 70W LED CL1 4000K A/S	8.45	96262348	OY2A4K70
OLSYS2 90W LED CL1 3000K A/S	8.45	96262351	OY2A3K90
OLSYS2 90W LED CL1 4000K A/S	8.45	96262350	OY2A4K90
Olsys 2 area, mounting accessories			
OLSYS2 MPT 60/76	2.90	96262304	OY2APT60
Olsys 2 area, column			
OLSYS COL 6,6M CCO D60X2M SIL	98.00	96262364	OY2ACC66

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Sonpak

LX 15/25/40



www.thornlighting.co.uk/SNP1

A range of easy to install performance floodlights supplied complete with lamp.



- Asymmetric reflector
- Easy to install with drop down front glass and cable entry.
- Integral control gear and sealed to IP65

Materials/Finish

Body: Die-cast aluminium alloy UNI EN 46100, painted with polyester powders, black colour RAL9005.

Glass: Flat toughened glass, thickness 5mm.

Reflector: Aluminium sheet P-AL 99.85% alloy 1060 polished, oxidized and anodised, suitable thickness.

Screws: Chrome-galvanized steel for internal screws, stainless steel for external ones.

Cable gland: PG 13,5 nylon cable gland for cables Æ 9, 12 mm.

Gaskets: Anti-ageing foamed silicone,

Bracket : in steel and black colour RAL 9005, fixed with M10 screws maximum; supplied with graduated scale for floodlight aiming.

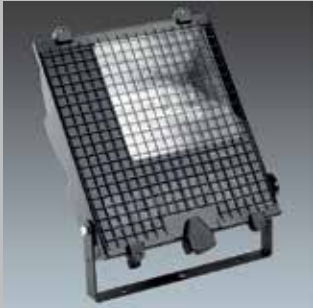
Installation/Mounting

All products have one cable glanded entry for Ø 9-11 mm cable with 3 pole terminal blocks. LX 15/25/40 stirrup fixed by single bolt through Ø 21 mm hole. Two additional Ø 13mm fixing holes at 250mm centres. Cable gland and stirrup already mounted on body.

Specification

To specify state:

Enclosed floodlight with black aluminium body and frame, housing flat glass, integral control gear, asymmetrical and symmetrical reflectors, 150/250/400W HST and HIT lamps. Sealed to IP65. As Thorn Sonpak LX 15/25/40



Wireguard attachment - OTX250WG



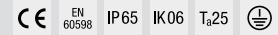
MTP adaptor - OTX76S



Lamps

	HIT E40 (MT)	E40	150W
	HST (ST)	E40	150-400W
	HIT (MT)	E40	250-400W

Standards

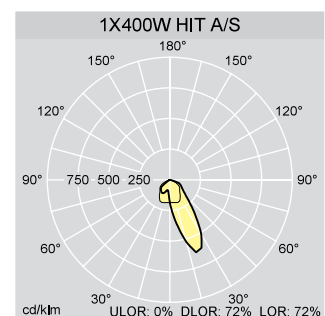
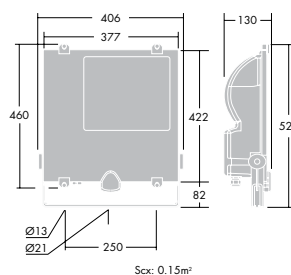


Ordering Guide

Supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Aluminium Body and Front Glass			
SONPAK LX 150W 240V HIT/E40/745 A/S	7.60	96232645	OTXM150
SONPAK LX 150W 240V HST/E40/220 A/S	8.00	96232644	OTXS150
SONPAK LX 250W 240V HIT/E40/745 A/S	8.40	96232647	OTXM250
SONPAK LX 250W 240V HST/E40/220 A/S	8.90	96232646	OTXS250
SONPAK LX 400W 240V HIT/E40/742 A/S	8.90	96232649	OTXM400
SONPAK LX 400W 240V HST/E40/220 A/S	10.40	96232648	OTXS400
Attachments and Accessories			
SONPAK LX 150/250/400W WG	0.50	96250694	OTX250WG
SONPAK LX FIX/MA 76	1.60	96250695	OTX76S

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Sonpak

LX 7-15



www.thornlighting.co.uk/SNP7

A range of easy to install performance floodlights supplied complete with lamp.



- Asymmetric reflector
- Easy to install with drop down front glass and cable entry.
- Vandal resistant option with polypropylene body and high impact clear polycarbonate visor. Exterior optical attachments available

Materials/Finish

Body: polypropylene, black colour, reinforced with fibreglass and mineral loads. Resistant to atmospheric, chemical and corrosive agents such as: gas, salty fogs, pollution, etc. or die-cast aluminium alloy UNI EN 46100, painted with polyester powders, RAL9005 to align with size 2.

Diffuser / lens : self-extinguishing polycarbonate or flat toughened glass, thickness 5mm.

Reflector: Hammered aluminium sheet P-AL 99,85% alloy 1060, polished, oxidized and anodised, suitable thickness.

Screws: Chrome-galvanised steel.

Cable gland: M20 cable gland Ø9-11 mm.

Gasket: anti-ageing rubber,

Terminal block: Screw type connection terminal, terminal section 4.0 mm².

Fixing of supply cable: plastic clamp for cables diameter 9-11mm.

Electrical wiring: supply unit is composed by magnetic ballast, ignitor complying with lamp type, power correction capacitor, which is fixed to the gear tray.

Bracket : in steel and (black colour) RAL 9005, can be fixed through M6 screws, supplied with graduated scale for floodlight aiming.

Installation/Mounting

All products have one cable glanded entry for Ø9-11 mm cable with 3 pole terminal blocks. LX7-15 stirrup fixed by single bolt through Ø16mm hole. Two additional Ø11 mm fixing holes at 100mm centres, with a further two Ø13mm fixing holes at 180mm centres. Cable gland and stirrup already mounted on body.

Specification

To specify state:

Enclosed black polypropylene floodlight with polycarbonate visor, integral control gear with or without photocell, asymmetrical reflector for 70-150W HIT-DE and HSE-I lamps. Sealed to IP65.

As Thorn Sonpak LX7-15



MTP adaptor - OTX76S



Lamps

-  HIT-DE (MD) RX7s 70W
-  HSE-I (SE/I) E27 70W

Standards

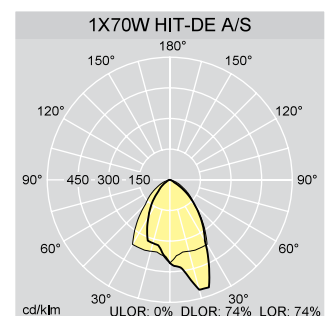
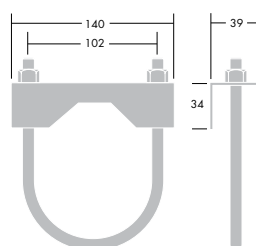
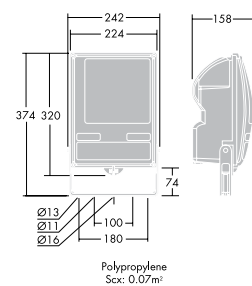
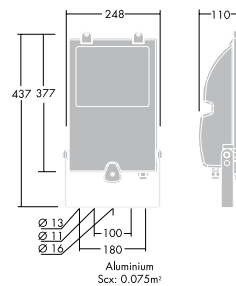
-   IP65 IK06 IK08 T₂5
- 960 °C 

Ordering Guide

Supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Polypropylene Body and Polycarbonate Visor			
SONPAK LX 70W 240V HSE-I/E27 A/S P	2.70	96232641	OTXPS70
SONPAK LX 70W 240V HSE-I/E27/220 A/S	2.70	96232640	OTXS70
SONPAK LX 70W 240V HIT-DE/RX7S A/S P	2.70	96232643	OTXPM70
SONPAK LX 70W 240V HIT-DE/RX7S/730 A/S	2.70	96232642	OTXM70
Attachments and Accessories (for Polypropylene Versions)			
SONPAK LX FIX/MA 76	1.60	96250695	OTX76S

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OUTDOOR LIGHTING



Sports Floodlighting



PGE Arena, Poland



NEW

Allis
346



NEW

Champion
348



Contrast C Sports
350



Mundial C
352



Troika
354

NEW

Altis



www.thornlighting.co.uk/ALTI

High performance discharge floodlight suitable for international sports TV broadcasting



- Innovative patented Altis® optic offering a unique range of photometry to match the levels of vertical illuminance required for televised sports
- Excellent thermal management and high protection classes ensure consistency and stability of light over its life-time
- Memory setting accessory to retain floodlight setting after maintenance
- Accurate aiming with precision aiming device adjustable around frame

Materials/Finish

Body and frame: die-cast aluminium (EN AC-47100), unpainted (painted version available on request).
 Glass: 4mm thermally toughened, meeting requirements of EN 60598-2-5.
 Wiring / ignitor box: polyamide (66 VO Black: 20% glass fibre re-reinforced).
 Stirrup: unpainted galvanised steel.
 Screws: stainless steel.
 Visor: black aluminium.

Installation/Mounting

Stirrup fixed by a single bolt through Ø 22mm hole or 105x17mm oblong hole, or by twin bolts through Ø 15mm hole.

Ignitor box delivered with floodlight, cable gland for 8-12mm cable.

Safe rear door opening with automatic disconnection tool-free lamp installation and replacement.

Optional memory setting accessory available to lock aiming position.

Optional visor fixed via 4 screws. Aiming via integrated aiming sights on both sides of the floodlight, precision aiming device also available and adjustable around frame.

Specification

To specify state:
 High performance floodlight with Altis® optic reflector for 1 and 2kW metal halide double ended lamps. Tool-free door opening and lamp installation, rear access to ignitor box, memory setting accessory. IP66 (IP65 for HR versions), IK08 (IK09 body and glass), electrical class 1 and 2 (CL1 only for HR versions). As Thorn Altis.

Ordering Guide

Lamps and control gear to be ordered separately. CL2 versions available on request (Except HR versions).

Description	Wt (kg)	SAP Code	Cat. No.
Altis 1kW CL1			
ALTIS 1KW R1 HQITS-S CL1 WI	14.40	96263364	AT1R1
ALTIS 1KW R2 HQITS-S CL1 WI	14.33	96263365	AT1R2
ALTIS 1KW R3 HQITS-S CL1 WI	14.40	96263366	AT1R3
ALTIS 1KW R4 HQITS-S CL1 WI	14.50	96263367	AT1R4
ALTIS 1KW R5 HQITS-S CL1 WI	14.25	96263368	AT1R5
ALTIS 1KW R6 HQITS-S CL1 WI	14.25	96263369	AT1R6
Altis 1kW CL1 Hot Restrike			
ALTIS HR 1KW R1 HQITS-S CL1 WI	16.70	96263382	AT1HRR1
ALTIS HR 1KW R2 HQITS-S CL1 WI	16.63	96263383	AT1HRR2
ALTIS HR 1KW R3 HQITS-S CL1 WI	16.70	96263384	AT1HRR3
ALTIS HR 1KW R4 HQITS-S CL1 WI	16.80	96263385	AT1HRR4
ALTIS HR 1KW R5 HQITS-S CL1 WI	16.55	96263386	AT1HRR5
ALTIS HR 1KW R6 HQITS-S CL1 WI	16.92	96263387	AT1HRR6
Altis 2kW CL1			
ALTIS 2KW R1 HQITS-S CL1 WI	14.40	96263370	AT2R1
ALTIS 2KW R1 HQITSS-HF/MHNSB-HO CL1 WI	14.40	96263376	ATH2R1
ALTIS 2KW R2 HQITS-S CL1 WI	14.33	96263371	AT2R2
ALTIS 2KW R2 HQITSS-HF/MHNSB-HO CL1 WI	14.33	96263377	ATH2R2
ALTIS 2KW R3 HQITS-S CL1 WI	14.40	96263372	AT2R3
ALTIS 2KW R3 HQITSS-HF/MHNSB-HO CL1 WI	14.40	96263378	ATH2R3
ALTIS 2KW R4 HQITS-S CL1 WI	14.50	96263373	AT2R4
ALTIS 2KW R4 HQITSS-HF/MHNSB-HO CL1 WI	14.50	96263379	ATH2R4
ALTIS 2KW R5 HQITS-S CL1 WI	14.25	96263374	AT2R5
ALTIS 2KW R5 HQITSS-HF/MHNSB-HO CL1 WI	14.25	96263380	ATH2R5
ALTIS 2KW R6 HQITS-S CL1 WI	14.25	96263375	AT2R6
ALTIS 2KW R6 HQITSS-HF/MHNSB-HO CL1 WI	14.25	96263381	ATH2R6



Lamps

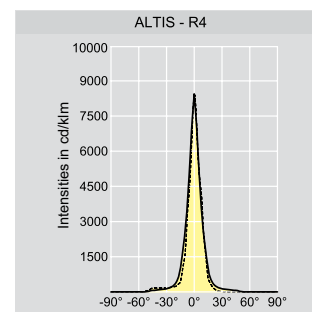
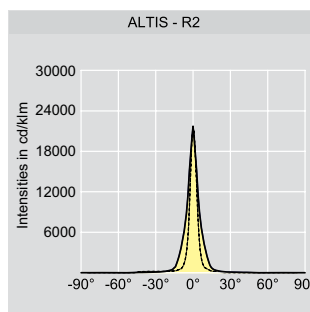
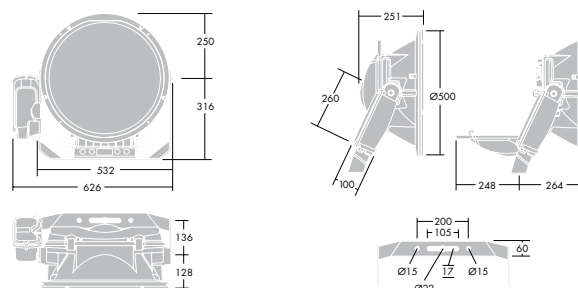
- HIT-DE (MD) Cable 1000-2000W
- HIT-DE OSS (MD) Cable 2000W

Standards

- IP65 IP66 IK08
- T_a25 T_a35

Description	Wt (kg)	SAP Code	Cat. No.
Altis 2kW CL1 Hot Restrike			
ALTIS HR 2KW R1 HQITSS-S CL1 WI	16.70	96263388	AT2HRR1
ALTIS HR 2KW R1 HQITSS-HF/MHNSBHO CL1 WI	16.70	96263394	ATH2HRR1
ALTIS HR 2KW R2 HQITSS-S CL1 WI	16.63	96263389	AT2HRR2
ALTIS HR 2KW R2 HQITSS-HF/MHNSBHO CL1 WI	16.63	96263395	ATH2HRR2
ALTIS HR 2KW R3 HQITSS-S CL1 WI	16.70	96263390	AT2HRR3
ALTIS HR 2KW R3 HQITSS-HF/MHNSBHO CL1 WI	16.70	96263396	ATH2HRR3
ALTIS HR 2KW R4 HQITSS-S CL1 WI	16.80	96263391	AT2HRR4
ALTIS HR 2KW R4 HQITSS-HF/MHNSBHO CL1 WI	16.80	96263397	ATH2HRR4
ALTIS HR 2KW R5 HQITSS-S CL1 WI	16.55	96263392	AT2HRR5
ALTIS HR 2KW R5 HQITSS-HF/MHNSBHO CL1 WI	16.55	96263398	ATH2HRR5
ALTIS HR 2KW R6 HQITSS-S CL1 WI	16.92	96263393	AT2HRR6
ALTIS HR 2KW R6 HQITSS-HF/MHNSBHO CL1 WI	16.92	96263399	ATH2HRR6
Altis Accessories			
ALTIS AIMING DEVICE	0.50	96264278	ATAIM
ALTIS MEMORY SETTING	0.10	96264500	ATMEM
ALTIS VS	1.80	96264276	ATV
Altis Gear 1kW			
GB IP65 1KW 230/240V HST/HIT NI	14.50	96012191	ATSM1GB
GT 1KW 230/240V HIT/OS NI	13.90	96012078	MUM1GT
Altis Gear 2kW			
GB IP65 2KW 380-415V HIT-DE NI	23.50	96012190	ATM2GB
GB IP65 2KW 380-420V MHNSB HO/HQITSS HF	23.50	96262841	ATMH2GB
GT 2KW 380-400-420V MHN SB HO/HQITSS HF	20.00	96261551	ATMH2GT
GT 2KW 380-415V HIT-DE/OS NI	13.92	96002280	MUMO2GT

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NEW

Champion



www.thornlighting.co.uk/CHMP

A high performance discharge floodlight with best in class optic for control of obstrusive light



- Compact asymmetric floodlight for 1 and 2 kW metal halide lamps, incorporating the flat glass concept and integrated visor for total control of glare and obstrusive light (0 cd at 90°), with additional accessories also available
- Maximum optical efficiency and accurate light distribution with minimum light spill
- Three lamp positions, adjustable on site, from just one installed position
- Tool-free aiming in azimuth with integrated aiming sights

Materials/Finish

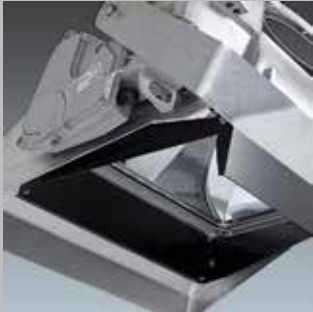
Body: die-cast aluminium (ENAB 44300, EN AC-44300), unpainted
Glass: 4mm toughened
Wiring / ignitor box: polyamide (66 V0 Black: 20% glass fibre reinforced).
Screws: stainless steel

Installation/Mounting

Rear access to lamp with automatic power disconnection on opening of rear access door. Tool-free installation and lamp replacement. Stirrup fixed by M20 bolt through Ø22mm hole, or through Ø15mm holes. Ballast and capacitors to be mounted separately. Cable gland for Ø7.5-13mm cable. Aiming via top (door and visor) or side (ignitor box) integrated aiming sights. Scx = 0.19 m² max

Specification

To specify state:
Die-cast aluminium asymmetric floodlight for 1/2kW lamps, IP66 rated, tool-free lamp access and replacement, adjustable lamp position with internally inclined front glass and integral front cowl.
As Thorn Champion



Visor attachment



Hot restrike version



Lamps

	HIT-DE (MD)	Cable	1000-2000W
	HIT-DE OSL (MD)	Cable	2000W
	HIT-DE OSS (MD)	Cable	2000W
	HIT-DE PHFC (MD)	Cable	1000-2000W
	HIT-DE PHL (MD)	Cable	2040W
	HST (ST)	E40	1000W
	HIT (MT)	E40	1000W

Standards

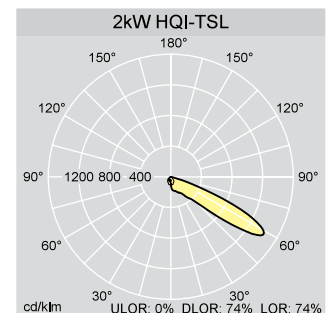
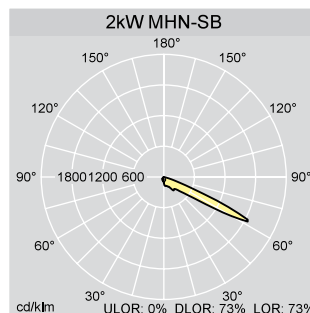
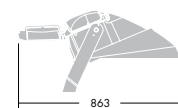
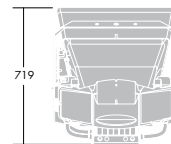
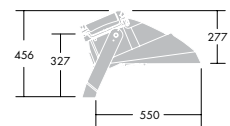
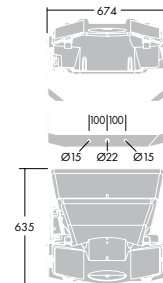


Ordering Guide

Lamps and control gear to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Champion 1kW			
CHPK1000HPITGB CHAMPION 1KW PHI WI	33.74	96263078	CPMP1GB
CHPK1000HPITGT CHAMPION 1KW PHI WI	28.52	96263077	CPMP1GT
CHPK1000HPSGB CHAMPION 1KW WI	33.74	96263074	CPSG1GB
CHPK1000HPSGT CHAMPION 1KW WI	32.19	96263073	CPSG1GT
CHPK1000HQITGB CHAMPION 1KW O WI	33.61	96263080	CPMO1GB
CHPK1000HQITGT CHAMPION 1KW O WI	32.84	96263079	CPMO1GT
CHPK1000MHNFCGB CHAMPION 1KW PHI WI	33.51	96263076	CPMPF1GB
CHPK1000MHNFCGT CHAMPION 1KW PHI WI	32.74	96263075	CPMPF1GT
CHPK1000PMHGB CHAMPION 1KW PHI WI	33.48	96263072	CPMPL1GB
CHPK1000PMHGT CHAMPION 1KW PHI WI	32.71	96263071	CPMPL1GT
Champion 2kW			
CHPK2000HQITSGB CHAMPION 2KW O WI	43.39	96263088	CPMOS2GB
CHPK2000HQITSGL CHAMPION 2KW O WI	30.97	96263089	CPMOS2GL
CHPK2000HQITSGT CHAMPION 2KW O WI	32.64	96263087	CPMOS2GT
CHPK2000HQITSLGB CHAMPION 2KW WI	43.42	96263085	CPMOL2GB
CHPK2000HQITSLGL CHAMPION 2KW WI	30.97	96263086	CPMOL2GL
CHPK2000HQITSLGT CHAMPION 2KW WI	32.67	96263084	CPMOL2GT
CHPK2000MHNFCGB CHAMPION 2KW PHI WI	43.42	96263091	CPMPF2GB
CHPK2000MHNFCGL CHAMPION 2KW PHI WI	30.97	96263092	CPMPF2GL
CHPK2000MHNFCGT CHAMPION 2KW PHI WI	33.09	96263090	CPMPF2GT
CHPK2000PMHGB CHAMPION 2KW PHI WI	43.17	96263082	CPMPL2GB
CHPK2000PMHGL CHAMPION 2KW PHI WI	31.00	96263083	CPMPL2GL
CHPK2000PMHGT CHAMPION 2KW PHI WI	33.14	96263081	CPMPL2GT
CHPK2000HQITSHFGB CHAMPION 2KW O WI	42.86	96263097	CPMOH2GB
CHPK2000HQITSHFGL CHAMPION 2KW O WI	31.00	96263098	CPMOH2GL
CHPK2000HQITSHFGT CHAMPION 2KW O WI	33.14	96263096	CPMOH2GT
CHPK2000MHN-SB-HOGB CHAMPION 2KW PHI WI	42.80	96263094	CPMPH2GB
CHPK2000MHN-SB-HOGL CHAMPION 2KW PHI WI	31.00	96263095	CPMPH2GL
CHPK2000MHN-SB-HOGT CHAMPION 2KW PHI WI	33.14	96263093	CPMPH2GT
Champion accessories			
CHAMPION NM AIMING DEVICE	3.10	96262065	CPAIM
CHAMPION NM AJ VS FRONT	1.40	96261970	CPVF
CHAMPION NM VS REAR	0.43	96261971	CPVSR
CHAMPION NM WG	1.05	96261969	CPWG

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Contrast C

Sports



www.thornlighting.co.uk/CCSP

Floodlight based on Contrast C size 2, with an optical system specially adapted for sports lighting applications



- Parabolic reflector with asymmetric distribution, adjustable in 3 positions (narrow, medium and wide angle) and equipped with a deflector

Materials/Finish

Body: die-cast aluminium, textured grey powder coated finish (close to RAL 9007). Alternative RAL colours on request.

Front lenses: 4mm toughened glass. Attachment retaining screws: nickel plated brass.

Reflector: specular (HIT) or satin (HST) anodised aluminium.

Installation/Mounting

Floodlight is fully adjustable on a short stirrup. Stirrup fixed to mount by central bolt hole $\varnothing 22\text{mm}$ and 2 x $\varnothing 15\text{mm}$ holes at 100mm either side of centre. Aiming simplified by indicator on stirrup, locked via central $\varnothing 8\text{mm}$ Allen screw. Easy access to lamp via two Allen screws. Lamp replacement possible without removing attachments. Control gear compartment, with rear access panel, fixed below body. Entry via two Allen screws. Cable gland for $\varnothing 7.5\text{-}13\text{mm}$ cable. Additional knock out provided for through wiring.

Specification

To specify state:

Sports lighting unit with parabolic reflector, and integral gear for 250W/400W HST/HIT lamps, with capacity for attachments which can remain in place during lamp access. Adjustable system for variable distribution format Sealed to IP65. As Thorn Contrast C Sports

Mundial C



www.thornlighting.co.uk/MUNC

A high power and high performance floodlight for all sport applications and large area illumination



- Choice of lamps giving flexibility in lumen package, Ra index and colour temperature
- Easy installation and maintenance with rear access and automatic power interruption
- Hot Restrike version suitable for sports and any applications where prolonged lack of lighting is not permitted
- Computer optimised optical systems - cylindrical reflector for side lighting with variable lampholder position for choice of distribution (standard and "extensive" extra wide). Baffle for asymmetrical distribution.

Materials/Finish

Body and frame: die-cast aluminium EN AC-44300
Front glass: thermal resistant 4mm clear glass.
Stirrup: unpainted galvanised steel.
Visor and louvre: black aluminium.
Wiring box for electrical connection: polyamid.
For Hot restrike Irem version - ignitor box including timer unit: polyester.
Cable protection for cables used to connect the HR ignitor on Mundial: rigid black PVC in spiral.

Installation/Mounting

Stirrup fixed by single M20 bolt through 22mm Ø central hole, or twin bolts through 15mm Ø holes. Cable clamp supplied for 7.5-13mm Ø flexible cable. Gearless floodlight (geartray to be ordered separately). Hood accessory fixed via 4 screws.

Specification

To specify state:
Standard/Hot restrike floodlight for 1/1.5/2kW linear metal halide lamps, in die-cast aluminium with asymmetric/symmetric optical system with three lamp positions (narrow, medium and wide photometric distribution). Rear access to the lamp with automatic power disconnection. IP65. Class II insulation. Class I for HR version.
As Thorn Mundial C.



Hot restrike version



Easy aiming facility



Easy access to lamp

Lamps

	HIT-DE (MD)	Cable	1000-2000W
	HIT-DE OSS (MD)	Cable	2000W
	HIT-DE PHL (MD)	Cable	2040W
	HST (ST)	E40	1000W
	HIT (MT)	E40	1000W

Standards

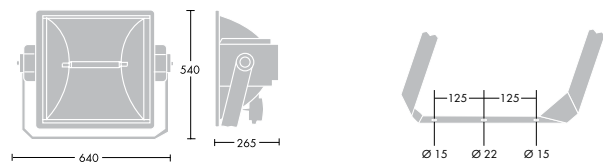


Ordering Guide

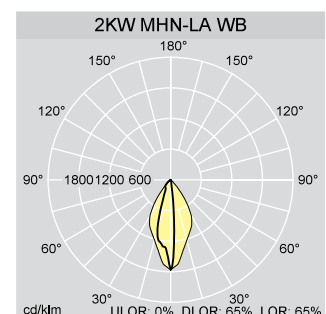
For complete package order floodlight and gear set.
Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Mundial C 1 kW			
MUNDIAL 1KW HST S/S WB WI E40/L	15.80	96546799	MUCST1S
MUNDIAL 1KW S/S HQI-TS WB WI/L	15.30	96546796	MUCMD1S
MUNDIAL 1KW S/S WB E40 WI HQIT/L	15.80	96546790	MUCMT1S
MUNDIAL 1.5KW S/S WB WI MBIL/H/L	12.00	96546800	MUCMD15S
Mundial C 2 kW			
MUNDIAL 2KW S/S EXT WB WI MHN-LA/L	16.75	96546791	MUCMPD2EXS
MUNDIAL 2KW S/S WB WI HQITS L958	16.08	96240073	MUCMOD2S
MUNDIAL 2KW S/S WB WI MBILH/L	16.50	96546789	MUCMGD2S
MUNDIAL 2KW S/S WB WI MHNLA/L	16.54	96546788	MUCMPD2S
Mundial C Gears			
GT 1K5W 380/400V HIT-DE NI	14.00	96102387	MUM15GT
GT 1KW 230/240V HIT/OS NI	13.90	96012078	MUM1GT
GT 1KW 230/240V HST NI	13.12	96102388	MUS1GT
GT 2KW 380-415V HIT-DE/OS NI	13.92	96002280	MUMO2GT
GT 2KW 380-415V HIT-DE/PH NI	13.72	96002379	MUMP2GT
Mundial C Attachments and accessories			
MUNDIAL LV	3.92	96008489	MUCLV
MUNDIAL VS	5.00	96011307	MUCV

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Scx: 0.25m²



Troika



www.thornlighting.co.uk/TRKA

An asymmetric 'flat glass' floodlight for 250-600W discharge lamps with adjustable lampholder



- Ideal for sports, functional and architectural applications
- Light output is finely controlled to minimise light pollution
- Four different light distributions for each lamp option. Troika Variable (60°-70°) uses a reflector in conjunction with a variable position lampholder, providing three distributions varying in intensity, beam width and peak angle intensity (I peak).
- Broad selection of attachments, including a Lux Guillotine. This adjustable vertical light shield enables the light beam to be cut-off exactly where required and is therefore suitable for areas of extreme sensitivity to light spill

Materials/Finish

Body: re-cyclable pressure die-cast aluminium (LM2) EN AC 46100, powdered paint Azko Nobel dark sandy grey 900 (close to RAL 9007). Alternative white colour finish for indoor and swimming pools available on special request.
Gear tray cover: re-cyclable technopolymer (Polyamide reinforced with 20% glass fibre).
Glass: toughened, 5mm thick
Stirrup: galvanised steel, painted in grey.
Bolts and screws: stainless steel.
Glass fixing toggles: re-cyclable technopolymer (Polyamide reinforced with 20% glass fibre).
Reflector: ultra specular pre-anodised high grade aluminium.
Accessories frame: aluminium.

Installation/Mounting

Access to lamp via hinged glass released by four retained Allen screws and sliding toggles. Lamp replacement possible without removing attachments. Installation of gear tray and access to gear compartment via removable gear cover released by four retained Allen screws. Cable gland for Ø7.5-13mm cable. Additional knock out prepared for through wiring. Aiming is simplified by indicator on floodlight body. Stirrup fixed by bolts through central Ø22mm hole and two further Ø15mm holes positioned 100mm either side of the central hole. The 600W option may be used for interiors if the control gear is housed remotely from the fitting.

Specification

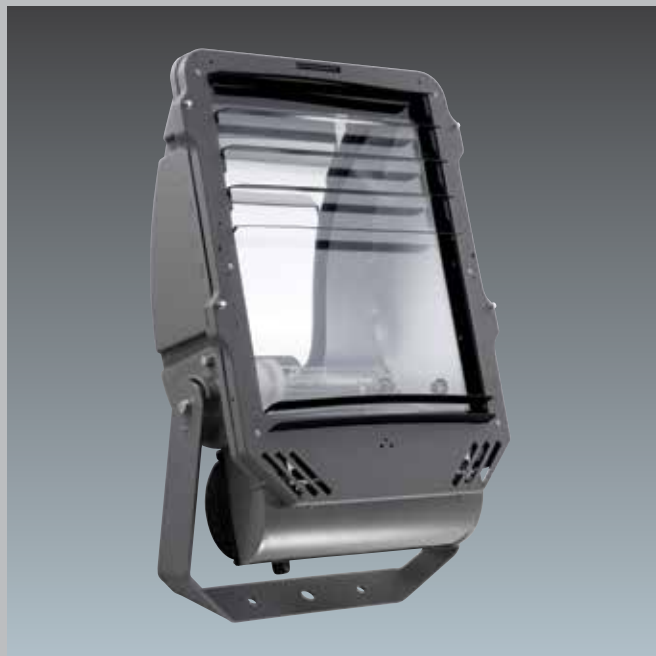
To specify state:
'Flat glass' asymmetric floodlight in die-cast aluminium with high grade technopolymer gear tray cover and adjustable lamp holder mechanism, sealed to IP65 (optical and gear compartment). Access to lamp via hinged glass with four retained fixing points. Installation of, and access to, gear tray via removable cover with integral respirator. Suitable for 250W/400W/600W HST, HST-DE and 250W/400W HIT, HIT-DE lamps.
As Thorn Troika.



Barn doors



Colour filter

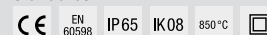


Lux Guilloine

Lamps

	HIT-DE (MD)	Fc2	250-400W
	HST (ST)	E40	400-600W
	HST-MF (ST)	E40	250W
	HIT (MT)	E40	250-400W

Standards

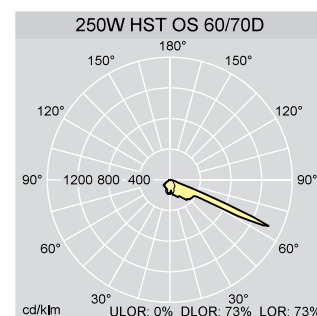
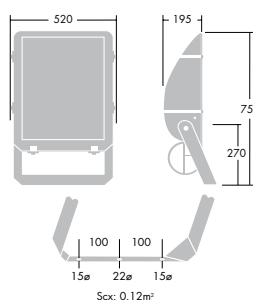


Ordering Guide

For complete fitting order body, gear tray and accessory (if required).

Description	Wt (kg)	SAP Code	Cat. No.
Troika Complete Fittings			
TROIKA 250W HIT E40 60/70D/L	20.40	96240049	TRM25060
TROIKA 250W HIT-DE FC2 PH 45D/L	20.60	96240083	TRMD25045
TROIKA 250W HIT-DE FC2 PH 60/70D/L	20.60	96240081	TRMD25060
TROIKA 250W HST E40 60/70D/L	19.30	96240044	TRS25060
TROIKA 400W HIT E40 45D/L	21.30	96240051	TRM40045
TROIKA 400W HIT E40 60/70D/L	21.30	96240050	TRM40060
TROIKA 400W HIT-DE FC2 OS 45D/L	21.50	96240084	TRMD40045
TROIKA 400W HIT-DE FC2 OS 60/70D/L	21.50	96240082	TRMD40060
TROIKA 400W HST E40 45D/L	21.20	96240047	TRS40045
TROIKA 400W HST E40 60/70D/L	21.20	96240045	TRS40060
TROIKA 600W HST E40 45D/L	23.40	96240048	TRS60045
TROIKA 600W HST E40 60/70D/L	23.40	96240046	TRS60060
Troika Attachments and Accessories			
TROIKA AGS	1.10	96008495	TRBD
TROIKA CL1 KIT	0.10	96009607	TRC1K
TROIKA FILTER BLU	1.60	96008499	TRFB
TROIKA LV	0.95	96008497	TRLV
TROIKA VS	3.32	96008494	TRV
TROIKA WG	2.00	96008496	TRWG

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OUTDOOR LIGHTING



Wall Mounted Luminaires



Avenue Deco
Wall
358



LED Avenue Wall
300 II
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Avenue F Wall
360



Dragon
361



LED Escort
362



NEW **LED** EyeKon LED/
EyeKon
363



LED Leopard
370



Oyster
373



Panther
374



Piazza II
376

Avenue Deco Wall



www.thornlighting.co.uk/AVDW

Wall versions completing the Avenue Deco lantern, bollard and column range



Lamps

HSE (SE) E27 70W

Standards

CE IP54 IK08

- Associated design with Avenue Deco post top lantern and bollard
- Variety of decorative lamp shields for lantern
- Design minimises the spread of light above the horizontal

Materials/Finish

Wall light body : cast aluminium, finished anthracite.
Diffuser : Opal polycarbonate.
Wall bracket version: cast aluminium arm in anthracite finish with clear polycarbonate bowl and lamp shield.

Installation/Mounting

Wall light : Mounts directly to wall.
5 way terminal block for 6 mm² conductors. Looping possible. For wall bracket version please consult your local sales engineer

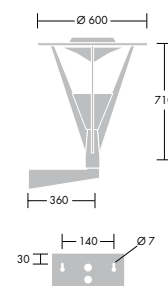
Specification

To specify state :
Wall light : Aluminium bodied, small/large, semi-conical wall light for surface/bracket mounting with polycarbonate diffuser employing 26W TC-D/50W HSE-E/1/ 70W HSE lamp.
As Thorn Avenue Deco

Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
Wall bracket			
AVENUE D 70W HSE PC MWA ANT/L	17.00	96546656	AUD70WM
AVENUE D 70W HSE RPF/CU MWA ANT/L	17.00	96546655	AUD70PWMC
AVENUE D 70W HSE RPF/RS MWA ANT/L	17.00	96546654	AUD70PWMS
AVENUE D 70W HSE RSL/CU MWA ANT/L	17.00	96546653	AUD70SWMC

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Avenue Wall 300 II



www.thornlighting.co.uk/AVW2

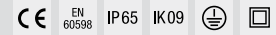
Elegant wall light, complementing the Avenue Deco post top lantern and bollard range



Lamps

LED 14W

Standards



- Sealed to IP65.
- Variety of LED lamps :- 3200K or 4200K

Materials/Finish

Body: cast aluminium, sanded grey 900
Internal reflector: anodised aluminium
Diffuser: opal polycarbonate

Installation/Mounting

Mounts directly to wall via 3 screws (provided). Glands suitable for loop-in / loop-out wiring with Ø8-12mm cable.

Specification

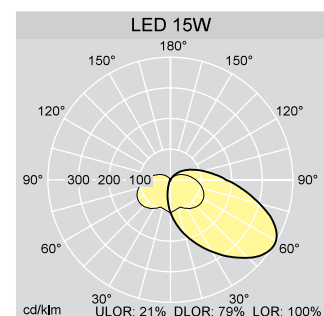
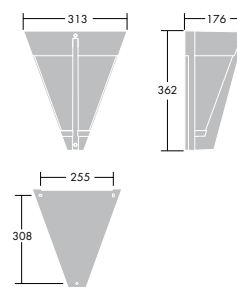
To specify state:
Aluminium bodied, semi-conical wall light for surface mounting with opal polycarbonate diffuser employing 14W LED
As Thorn Avenue Wall 300 II

Ordering Guide

Supplied complete with LED lamp

Description	Wt (kg)	SAP Code	Cat. No.
Avenue Wall 300 II			
AVENUE W300 II LED 12L35 730 CL2	3.42	96258554	AUW32K15
AVENUE W300 II LED 15W 4000K CL2	3.42	96259038	AUW42K15

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Avenue

F Wall



www.thornlighting.co.uk/AVFW

Design co-ordinated family of amenity luminaires comprising post top and wall bracket mounted lanterns and decorative columns



Lamps

	HSE (SE)	E27	70W
	HSE-I (SE/I)	E27	70W

Standards



- Lantern design minimises the spread of light above the horizontal
- Clear diffuser is enhanced by a luminous frosted band to limit glare and enhance performance
- A matching bollard and post top lantern continues the family

Materials/Finish

Wall bracket with gear: cast aluminium, anthracite, textured.
Lantern bowl: opal or clear (with sandblasted frosted ring) polycarbonate.

Installation/Mounting

Mounts directly to wall via two $\varnothing 10$ mm holes at 120mm centres.
5 way terminal block for 6mm^2 conductors. Looping possible.
Integral control gear in wall bracket.

Specification

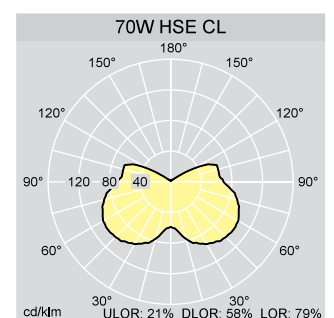
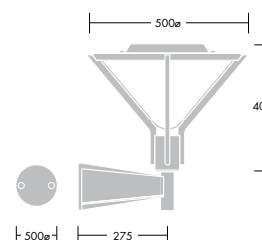
To specify state:
Aluminium bodied conical lantern for wall mounting, gear in wall bracket, with opal/clear bowl, finished textured anthracite employing 70W HSE-I lamp.
As Thorn Avenue F Wall

Ordering Guide

Lamps to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Avenue F Wall			
AVENUE F500W-F 70W HSE-I CL CL1 ANT	11.11	96011616	AUFW70C
AVENUE F500W-F 70W HSE-I OP CL1 ANT	10.00	96004445	AUFW70O

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Dragon



www.thornlighting.co.uk/DRGN

A robust, IP65 rated, general purpose bulkhead with crisp, clean lines



Lamps

	TC-L (FSD)	2G11	18W
	TC-S (FSD)	G23	11W

Standards

	EN 60598	IP65	IK08	T _a 25	850°C

OUTDOOR LIGHTING

- Strong die cast aluminium body with rounded profile
- Clear polycarbonate diffuser fixes via two cross head screws
- IP65 rated, with silicone gasket seal
- Gloss white stove enameled gear-tray doubles as reflector

Materials/Finish

Body: die-cast aluminium, painted white with gloss white stove enamelled gear-tray. Stainless steel lamp support
Diffuser: clear UV stabilised prismatic polycarbonate

Installation/Mounting

Direct wall or ceiling mounting.
4 fixing points. Knockouts and predrilling points for BESA box fixing.
Threaded holes with white cap for 20mm side entry through wiring.
Hinged gear-tray provides quick access to 3 pole terminal block with built-in fuse.
Double pole automatic isolation.
Gear-tray secures with single screw.
Safety cord between body and diffuser.

Specification

To specify state:
IP65 vandal resistant bulkhead for 11W TC-S and 18W TC-L compact fluorescent lamps with die-cast aluminium body and clear polycarbonate diffuser, internal fuse and automatic disconnection plus diffuser retaining safety cord.
As Thorn Dragon.

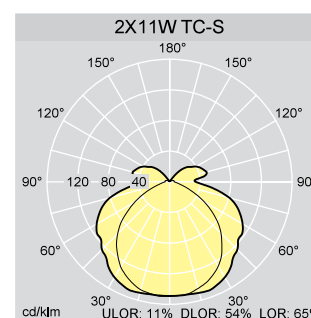
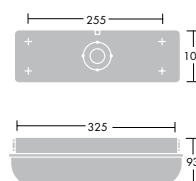
Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Dragon Luminaires			
DRAGON 2X11W TC-S L830	1.20	96230476	DR211
DRAGON 1X18W TC-L HF L840	1.10	96230475	DR118

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WALL MOUNTED LUMINAIRES



NEW

EyeKon LED



www.thornlighting.co.uk/EYKL

Energy efficient, robust and impact resistant LED bulkheads



White, with bezel



Silver grey, with cross

Lamps

LED 3-17W

Standards

CE EN 60598 IP65 IK10 T_a25 T_a35
850 °C

- Available in two sizes, four designs and four colour options
- Lumen packages from 500 to 1500 lumens giving options for wider spacing without leaving dark areas
- Presence detection that will switch on when sensor is activated, illuminating the area
- Corridor function that will dim to 10% and switch to 100% when the area is occupied, thus maximising energy savings

Materials/Finish

Housing and decorative feature (bezel, cross, halo and visor): die-cast aluminium
 Reflector in aluminium for Visor/Halo, sheet steel for Bezel/Cross
 Gaskets: extruded silicone rubber sponge

Installation/Mounting

Suitable for wall or ceiling mounting with central BESA provision and four fixing points (2 horizontal holes to aid adjustment, additional holes for security or uneven surfaces). Two cable entries to rear or side (not for conduit use) into 3 way terminal block (2x2.5mm²) (4 way for E3 versions, 6 way for E3TX versions). Looping possible. Separate gear tray secures with two screws. Tamper proof screws, torx key supplied with every luminaire.

Specification

To specify state:
 Surface mounted bulkhead with die-cast black/silver grey/anthracite/white aluminium body and opal polycarbonate diffuser. IP65, IK10 double wall design that will conceal cable from view. Round large/small with bezel/cross/halo-visor/visor. With 500lm (6W), 1000lm (12W) and 1500lm (17.5W) LED. With emergency/presence sensor/energy saving options.
 As Thorn EyeKon LED

OUTDOOR LIGHTING

WALL MOUNTED LUMINAIRES

NEW

EyeKon LED



www.thornlighting.co.uk/EYKL

Energy efficient, robust and impact resistant LED bulkheads



Black, with halo-visor



Anthracite bollard, with visor



Ordering Guide

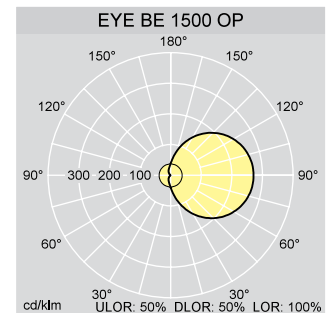
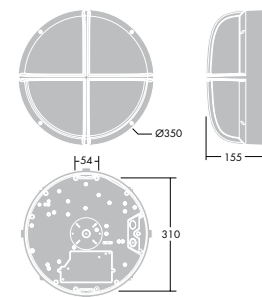
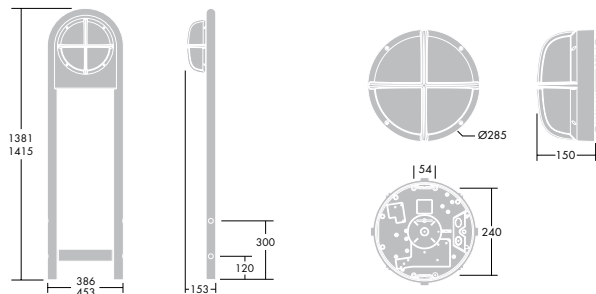
Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
EyeKon LED Small with bezel, anthracite			
EYE BE 600 LED HF CORR OP S ANT L840	2.30	96210347	EYS60CFBOA
EYE BE 600 LED HF MWS CORR OP S ANT L840	2.40	96210346	EYS60CFMWBOA
EYE BE 600 LED HF MWS OP S ANT L840	2.40	96210345	EYS60MWBBOA
EYE BE 600 LED HF OP S ANT L840	2.30	96210344	EYS60BOA
EYE BE 1100 LED HF MWS CORR OP S ANT L84	2.40	96210382	EYS110CFMWBOA
EYE BE 1100 LED HF MWS OP S ANT L840	2.40	96210381	EYS110MWBBOA
EYE BE 1100 LED HF OP S ANT L840	2.30	96210380	EYS110BOA
EyeKon LED Small with bezel, emergency, anthracite			
EYE BE 600 LED HF E3 OP S ANT L840	2.60	96210348	EYS60EBOA
EYE BE 600 LED HF E3TX OP S ANT L840	2.80	96210350	EYS60EXBOA
EYE BE 600 LED HF MWS E3 OP S ANT L840	2.90	96210349	EYS60EMWBBOA
EYE BE 1100 LED HF E3 OP S ANT L840	2.60	96210384	EYS110EBOA
EYE BE 1100 LED HF E3TX OP S ANT L840	2.80	96210386	EYS110EXBOA
EYE BE 1100 LED HF MWS E3 OP S ANT L840	2.90	96210385	EYS110EMWBBOA
EyeKon LED Small with cross, anthracite			
EYE CR 500 LED HF CORR OP S ANT L840	2.50	96210354	EYS50CFCOA
EYE CR 500 LED HF MWS CORR OP S ANT L840	2.60	96210353	EYS50CFMWCOA
EYE CR 500 LED HF MWS OP S ANT L840	2.60	96210352	EYS50MWCBOA
EYE CR 500 LED HF OP S ANT L840	2.50	96210351	EYS50COA
EYE CR 950 LED HF MWS CORR OP S ANT L84	2.60	96210389	EYS95CFMWCOA
EYE CR 950 LED HF MWS OP S ANT L840	2.60	96210388	EYS95MWCBOA
EYE CR 950 LED HF OP S ANT L840	2.50	96210387	EYS95COA
EyeKon LED Small with cross, emergency, anthracite			
EYE CR 500 LED HF E3 OP S ANT L840	2.80	96210355	EYS50ECO
EYE CR 500 LED HF E3TX OP S ANT L840	2.80	96210357	EYS50EXCOA
EYE CR 950 LED HF E3 OP S ANT L840	2.80	96210391	EYS95ECO
EYE CR 950 LED HF E3TX OP S ANT L840	2.80	96210393	EYS95EXCOA
EyeKon LED Small with cross, silver grey			
EYE CR 500 LED HF CORR OP S SIL L830	2.50	96210361	EYS50CFCOS
EYE CR 500 LED HF MWS CORR OP S SIL L830	2.60	96210360	EYS50CFMWCOS
EYE CR 500 LED HF MWS OP S SIL L830	2.60	96210359	EYS50MWCOS
EYE CR 500 LED HF OP S SIL L830	2.50	96210358	EYS50COS

Description	Wt (kg)	SAP Code	Cat. No.
EyeKon LED Small with halo-visor, anthracite			
EYE HA 400 LED HF MWS CORR OP S ANT L840	2.60	96210364	EYS40CFMWHOA
EYE HA 400 LED HF MWS OP S ANT L840	2.60	96210363	EYS40MWHOA
EYE HA 400 LED HF OP S ANT L840	2.50	96210362	EYS40HOA
EYE HA 700 LED HF MWS CORR OP S ANT L84	2.60	96210396	EYS70CFMWHOA
EYE HA 700 LED HF MWS OP S ANT L840	2.60	96210395	EYS70MWHOA
EYE HA 700 LED HF OP S ANT L840	2.50	96210394	EYS70HOA
EyeKon LED Small with halo-visor, emergency, anthracite			
EYE HA 400 LED HF E3 OP S ANT L840	2.80	96210366	EYS40EHOA
EYE HA 400 LED HF E3TX OP S ANT L840	2.80	96210368	EYS40EXHOA
EYE HA 400 LED HF MWS E3 OP S ANT L840	2.90	96210367	EYS40EMWHOA
EYE HA 700 LED HF E3 OP S ANT L840	2.80	96210398	EYS70EHOA
EYE HA 700 LED HF E3TX OP S ANT L840	2.80	96210400	EYS70EXHOA
EYE HA 700 LED HF MWS E3 OP S ANT L840	2.90	96210399	EYS70EMWHOA
EyeKon LED Small with halo-visor, silver grey			
EYE HA 400 LED HF CORR OP S SIL L830	2.50	96210372	EYS40CFHOS
EYE HA 400 LED HF MWS CORR OP S SIL L830	2.60	96210371	EYS40CFMWHOS
EYE HA 400 LED HF MWS OP S SIL L830	2.60	96210370	EYS40MWHOS
EYE HA 400 LED HF OP S SIL L830	2.50	96210369	EYS40HOS
EyeKon LED Small with visor, anthracite			
EYE VIS 400 LED HF MWS CORR OP S ANT L84	2.60	96210375	EYS40CFMWVVOA
EYE VIS 400 LED HF MWS OP S ANT L840	2.60	96210374	EYS40MWBVVOA
EYE VIS 400 LED HF OP S ANT L840	2.50	96210373	EYS40VVOA
EYE VIS 700 LED HF MWS OP S ANT L840	2.60	96210402	EYS70MWBVVOA
EYE VIS 700 LED HF OP S ANT L840	2.50	96210401	EYS70VVOA
EYE VIS 700 LED HF MWS CORR OP S ANT L840	2.60	96210403	EYS70CFMWVVOA
EyeKon LED Small with visor, emergency, anthracite			
EYE VIS 400 LED HF E3 OP S ANT L840	2.80	96210377	EYS40EVOA
EYE VIS 400 LED HF E3TX OP S ANT L840	2.80	96210379	EYS40EXVVOA
EYE VIS 700 LED HF E3 OP S ANT L840	2.80	96210405	EYS70EVOA
EYE VIS 700 LED HF E3TX OP S ANT L840	2.80	96210407	EYS70EXVVOA
EyeKon LED Large with bezel, anthracite			
EYE BE 1150 LED HF MWS CORR OP L ANT L84	3.40	96210410	EYL115CFMWBOA
EYE BE 1150 LED HF MWS OP L ANT L840	3.40	96210409	EYL115MWBBOA
EYE BE 1150 LED HF OP L ANT L840	3.30	96210408	EYL115BOA
EYE BE 1500 LED HF CORR OP L ANT L840	3.30	96210447	EYL150CFBBOA
EYE BE 1500 LED HF MWS CORR OP L ANT L84	3.40	96210446	EYL150CFMWBOA
EYE BE 1550 LED HF MWS OP L ANT L840	3.40	96210445	EYL155MWBBOA
EYE BE 1550 LED HF OP L ANT L840	3.30	96210444	EYL155BOA

Description	Wt (kg)	SAP Code	Cat. No.
Eyeikon LED Large with bezel, emergency, anthracite			
EYE BE 1150 LED HF E3 OP L ANT L840	3.60	96210412	EYL115EBOA
EYE BE 1150 LED HF E3TX OP L ANT L840	3.60	96210414	EYL115EXBOA
EYE BE 1500 LED HF E3 OP L ANT L840	3.60	96210448	EYL150EBOA
EYE BE 1550 LED HF E3TX OP L ANT L840	3.60	96210450	EYL155EXBOA
Eyeikon LED Large with cross, anthracite			
EYE CR 1000 LED HF MWS CORR OP L ANT L84	3.60	96210417	EYL100CFMWCOA
EYE CR 1000 LED HF MWS OP L ANT L840	3.60	96210416	EYL100MWCOA
EYE CR 1000 LED HF OP L ANT L840	3.50	96210415	EYL100COA
EYE CR 1300 LED HF CORR OP L ANT L840	3.50	96210454	EYL130CFCOA
EYE CR 1300 LED HF MWS CORR OP L ANT L84	3.60	96210453	EYL130CFMWCOA
EYE CR 1350 LED HF MWS OP L ANT L840	3.60	96210452	EYL135MWCOA
EYE CR 1350 LED HF OP L ANT L840	3.50	96210451	EYL135COA
Eyeikon LED Large with cross, emergency, anthracite			
EYE CR 1000 LED HF E3 OP L ANT L840	3.60	96210419	EYL100EEOA
EYE CR 1000 LED HF E3TX OP L ANT L840	3.60	96210421	EYL100EXEOA
EYE CR 1300 LED HF E3 OP L ANT L840	3.60	96210455	EYL130EEOA
EYE CR 1300 LED HF MWS E3 OP L ANT L840	3.70	96210456	EYL130EMWCOA
EYE CR 1350 LED HF E3TX OP L ANT L840	3.60	96210457	EYL135EXEOA
Eyeikon LED Large with cross, silver grey			
EYE CR 1000 LED HF CORR OP L SIL L830	3.50	96210439	EYL100CFCOS
EYE CR 1000 LED HF MWS CORR OP L SIL L83	3.60	96210438	EYL100CFMWCOS
EYE CR 1000 LED HF MWS OP L SIL L830	3.60	96210437	EYL100MWCOA
EYE CR 1000 LED HF OP L SIL L830	3.50	96210436	EYL100COS
Eyeikon LED Large with halo-visor, anthracite			
EYE HA 750 LED HF MWS CORR OP L ANT L84	3.60	96210424	EYL75CFMWHOA
EYE HA 750 LED HF MWS OP L ANT L840	3.60	96210423	EYL75MWHOA
EYE HA 750 LED HF OP L ANT L840	3.50	96210422	EYL75SHOA
EYE HA 1000 LED HF MWS CORR OP L ANT L84	3.60	96210460	EYL100CFMWHOA
EYE HA 1050 LED HF MWS OP L ANT L840	3.60	96210459	EYL105MWHOA
EYE HA 1050 LED HF OP L ANT L840	3.50	96210458	EYL105HOA
Eyeikon LED Large with halo-visor, emergency, anthracite			
EYE HA 750 LED HF E3 OP L ANT L840	3.60	96210426	EYL75EHOA
EYE HA 750 LED HF E3TX OP L ANT L840	3.60	96210428	EYL75EXHOA
EYE HA 1000 LED HF E3 OP L ANT L840	3.60	96210462	EYL100EHOA
EYE HA 1000 LED HF MWS E3 OP L ANT L840	3.70	96210463	EYL100EMWHOA
EYE HA 1050 LED HF E3TX OP L ANT L840	3.60	96210464	EYL105EXHOA
Eyeikon LED Large with halo-visor, silver grey			
EYE HA 750 LED HF CORR OP L SIL L830	3.50	96210443	EYL75CFHOS
EYE HA 750 LED HF MWS CORR OP L SIL L83	3.60	96210442	EYL75CFMWHOS
EYE HA 750 LED HF MWS OP L SIL L830	3.60	96210441	EYL75MWHOS
EYE HA 750 LED HF OP L SIL L830	3.50	96210440	EYL75HOS
Eyeikon LED Large with visor, anthracite			
EYE VIS 750 LED HF MWS OP L ANT L840	3.60	96210430	EYL75MWVOA
EYE VIS 750 LED HF OP L ANT L840	3.50	96210429	EYL75VOA
EYE VIS 750 LEDHF MWS CORR OP L ANT L84	3.60	96210431	EYL75CFMWVOA
EYE VIS 1000 LED HF CORR OP L ANT L840	3.50	96210468	EYL100CFVOA
EYE VIS 1000 LED HF MWS OP L ANT L840	3.60	96210466	EYL100MWVOA
EYE VIS 1000 LED HF OP L ANT L840	3.50	96210465	EYL100VOA
EYE VIS 1000 LEDHF MWS CORR OP L ANT L84	3.60	96210467	EYL100CFMWVOA
Eyeikon LED Large with visor, emergency, anthracite			
EYE VIS 750 LED HF E3 OP L ANT L840	3.60	96210433	EYL75EVOA
EYE VIS 750 LED HF E3TX OP L ANT L840	3.60	96210435	EYL75EXVOA
EYE VIS 1000 LED HF E3 OP L ANT L840	3.60	96210469	EYL100EVOA
EYE VIS 1000 LED HF E3TX OP L ANT L840	3.60	96210471	EYL100EXVOA
Eyeikon LED Bollards			
EYE BOLLARD LARGE ANT	9.00	96207081	EYLBOLA
EYE BOLLARD LARGE SIL	9.00	96207082	EYLBOLS
EYE BOLLARD SMALL ANT	9.00	96207085	EYSBOLA
EYE BOLLARD SMALL SIL	9.00	96207086	EYSBOLS

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.





A range of robust, vandal resistant bulkheads designed for outdoor ceiling, wall or bollard applications



- Aluminium construction, sealed to IP65
- Designed to spread light sideways, allowing wider spacing without leaving dark areas
- Emergency and/or daylight sensing options

Materials/Finish

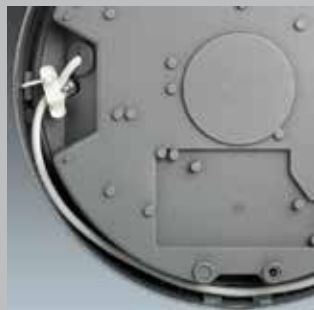
Housing and decorative feature (cross, bezel and visor): die-cast aluminium
 Diffuser: opal or clear polycarbonate
 Reflector: aluminium
 Gaskets: extruded silicone rubber sponge

Installation/Mounting

Wall or ceiling (except 38/42W E3/E3TX versions) mounting with central BESA provision and four fixing points (2 horizontal holes to aid adjustment, additional holes for security or uneven surfaces). Two cable entries to rear or side (not for conduit use) into 3 way terminal block (2x2.5mm²) (4 way for E3 versions, 6 way for E3TX versions). Looping possible. Separate gear tray secures with two screws. Vandal proof screws, torx key supplied with every luminaire

Specification

To specify state:
 Surface mounted bulkhead with die-cast black/silver grey/anthracite aluminium body and opal/clear polycarbonate diffuser. IP65. IK10/double wall design that will conceal cable from view. Round large/small with plain/cross/visor/halo visor. For compact fluorescent/metal halide lamps. With emergency/photocell options.
 As Thorn EyeKon.



Lamps

	HIT-CE (MT)	G12	70W
	TC-DDEL (FSS)	GR10q	28-38W
	TC-DDELI (FSS)	GR10q	55W
	TC-TELI (FSM)	GX24q-4	42W
	T5 (FDH)	G5	28W
	TC-DEL (FSQ)	G24q-2	18W
	TC-TEL (FSM)	GX24q-4	26-42W

Standards

	EN 60598		IP65		IK10		T _a 0 +25
	T _a -15 +35		850 °C		960 °C		

Ordering Guide

Lamp(s) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Eyeikon Small, anthracite			
EYE BE 1X18W TC-DEL HF E3 OP S ANT L840	2.40	96547597	EYS18EBOA
EYE BE 1X26W TC-TEL HF OP S ANT L840	1.70	96547522	EYS26BOA
Eyeikon Small, silver grey			
EYE BE 1X18W TC-DEL HF E3 OP S SIL L840	2.40	96547599	EYS18EBOS
EYE BE 1X26W TC-TEL HF OP S SIL L840	1.70	96547524	EYS26BOS
Eyeikon Small, black			
EYE BE 1X18W TC-DEL HF E3 OP S BL L840	2.40	96547598	EYS18EBOB
EYE BE 1X26W TC-TEL HF OP S BL L840	1.70	96547523	EYS26BOB
Eyeikon Small with cross, anthracite			
EYE CR 1X18W TC-DEL HF E3 OP S ANT L840	2.60	96547606	EYS18ECO A
EYE CR 1X26W TC-TEL HF OP S ANT L840	2.00	96547549	EYS26CO A
EYE CR 2X18W TC-DEL HF OP S ANT L840	1.90	96547492	EYS218CO A
Eyeikon Small with cross, silver grey			
EYE CR 1X18W TC-DEL HF E3 OP S SIL L840	2.60	96547608	EYS18ECOS
EYE CR 1X26W TC-TEL HF OP S SIL L840	2.00	96547551	EYS26COS
EYE CR 2X18W TC-DEL HF OP S SIL L840	1.90	96547494	EYS218COS
Eyeikon Small with cross, black			
EYE CR 1X18W TC-DEL HF E3 OP S BL L840	2.60	96547607	EYS18ECOB
EYE CR 1X26W TC-TEL HF OP S BL L840	2.00	96547550	EYS26COB
EYE CR 2X18W TC-DEL HF OP S BL L840	1.90	96547493	EYS218COB
Eyeikon Small with visor, anthracite			
EYE VS 1X18W TC-DEL HF OP S ANT L840	2.00	96547510	EYS18VOA
EYE VS 1X18W TC-DEL HF E3 OP S ANT L840	2.60	96547627	EYS18EVOA
EYE VS 1X26W TC-TEL HF OP S ANT L840	2.00	96547582	EYS26VOA
EYE VS 2X18W TC-DEL HF OP S ANT L840	1.90	96547519	EYS218VOA
Eyeikon Small with visor, silver grey			
EYE VS 1X18W TC-DEL HF OP S SIL L840	2.00	96547512	EYS18VOS
EYE VS 1X18W TC-DEL HF E3 OP S SIL L840	2.60	96547629	EYS18EVOS
EYE VS 1X26W TC-TEL HF OP S SIL L840	2.00	96547584	EYS26VOS
EYE VS 2X18W TC-DEL HF OP S SIL L840	1.90	96547521	EYS218VOS
Eyeikon Small with visor, black			
EYE VS 1X18W TC-DEL HF OP S BL L840	2.00	96547511	EYS18VOB
EYE VS 1X18W TC-DEL HF E3 OP S BL L840	2.60	96547628	EYS18EVOB
EYE VS 1X26W TC-TEL HF OP S BL L840	2.00	96547583	EYS26VOB
EYE VS 2X18W TC-DEL HF OP S BL L840	1.90	96547520	EYS218VOB

Description	Wt (kg)	SAP Code	Cat. No.
Eyeikon Small with halo-visor, anthracite			
EYE HA 1X18W TC-DEL HF OP S ANT L840	2.00	96547498	EYS18HOA
EYE HA 1X18W TC-DEL HF E3 OP S ANT L840	2.60	96547618	EYS18EHOA
EYE HA 1X26W TC-TEL HF OP S ANT L840	2.00	96547567	EYS26HOA
EYE HA 2X18W TC-DEL HF OP S ANT L840	1.90	96547507	EYS218HOA
Eyeikon Small with halo-visor, silver grey			
EYE HA 1X18W TC-DEL HF OP S SIL L840	2.00	96547500	EYS18HOS
EYE HA 1X18W TC-DEL HF E3 OP S SIL L840	2.60	96547620	EYS18EHOS
EYE HA 1X26W TC-TEL HF OP S SIL L840	2.00	96547569	EYS26HOS
EYE HA 2X18W TC-DEL HF OP S SIL L840	1.90	96547509	EYS218HOS
Eyeikon Small with halo-visor, black			
EYE HA 1X18W TC-DEL HF OP S BL L840	2.00	96547499	EYS18HOB
EYE HA 1X18W TC-DEL HF E3 OP S BL L840	2.60	96547619	EYS18EHOB
EYE HA 1X26W TC-TEL HF OP S BL L840	2.00	96547568	EYS26HOB
EYE HA 2X18W TC-DEL HF OP S BL L840	1.90	96547508	EYS218HOB
Eyeikon Small with halo-visor and clear diffuser, anthracite			
EYE HA 1X18W TC-DEL HF CL S ANT L840	2.00	96547495	EYS18HCA
EYE HA 1X18W TC-DEL HF E3 CL S ANT L840	2.60	96547615	EYS18EHCA
EYE HA 1X26W TC-TEL HF CL S ANT L840	2.00	96547564	EYS26HCA
Eyeikon Small with halo-visor and clear diffuser, silver grey			
EYE HA 1X18W TC-DEL HF CL S SIL L840	2.00	96547497	EYS18HCS
EYE HA 1X18W TC-DEL HF E3 CL S SIL L840	2.60	96547617	EYS18EHCS
EYE HA 1X26W TC-TEL HF CL S SIL L840	2.00	96547566	EYS26HCS
Eyeikon Small with halo-visor and clear diffuser, black			
EYE HA 1X18W TC-DEL HF CL S BL L840	2.00	96547496	EYS18HCB
EYE HA 1X18W TC-DEL HF E3 CL S BL L840	2.60	96547616	EYS18EHCB
EYE HA 1X26W TC-TEL HF CL S BL L840	2.00	96547565	EYS26HCB
Eyeikon Large, anthracite			
EYE BE 1X42W TC-TEL HF OP L ANT L840	2.30	96547531	EYL42BOA
EYE BE 1X55W TC-DDEL HF OP L ANT L840	2.30	96547537	EYL55BOA
EYE BE 1X70W HIT-CE OP L ANT L840	2.60	96547543	EYL70BOA
Eyeikon Large, silver grey			
EYE BE 1X42W TC-TEL HF OP L SIL L840	2.30	96547533	EYL42BOS
EYE BE 1X55W TC-DDEL HF OP L SIL L840	2.30	96547539	EYL55BOS
EYE BE 1X70W HIT-CE OP L SIL L840	2.60	96547545	EYL70BOS
Eyeikon Large, black			
EYE BE 1X42W TC-TEL HF OP L BL L840	2.30	96547532	EYL42BOB
EYE BE 1X55W TC-DDEL HF OP L BL L840	2.30	96547538	EYL55BOB
EYE BE 1X70W HIT-CE OP L BL L840	2.60	96547544	EYL70BOB



A range of robust, vandal resistant bulkheads designed for outdoor ceiling, wall or bollard applications



Description	Wt (kg)	SAP Code	Cat. No.
EyeKon Large with cross, anthracite			
EYE CR 1X28W TC-DDEL HF OP L ANT L840	2.60	96547552	EYL28COA
EYE CR 1X42W TC-TEL HF OP L ANT L840	2.50	96547558	EYL42COA
EyeKon Large with cross, silver grey			
EYE CR 1X28W TC-DDEL HF OP L SIL L840	2.60	96547554	EYL28COS
EYE CR 1X38W TC-DDEL HF OP L SIL L840	2.60	96547488	EYL38COS
EYE CR 1X42W TC-TEL HF OP L SIL L840	2.50	96547560	EYL42COS
EyeKon Large with cross, black			
EYE CR 1X28W TC-DDEL HF OP L BL L840	2.60	96547553	EYL28COB
EYE CR 1X38W TC-DDEL HF OP L BL L840	2.60	96547487	EYL38COB
EYE CR 1X42W TC-TEL HF OP L BL L840	2.50	96547559	EYL42COB
EyeKon Large with visor, anthracite			
EYE VS 1X28W TC-DDEL HF OP L ANT L840	2.80	96547585	EYL28VOA
EYE VS 1X38W TC-DDEL HF OP L ANT L840	2.80	96547513	EYL38VOA
EYE VS 1X42W TC-TEL HF OP L ANT L840	2.70	96547591	EYL42VOA
EyeKon Large with visor, silver grey			
EYE VS 1X28W TC-DDEL HF OP L SIL L840	2.80	96547587	EYL28VOS
EYE VS 1X38W TC-DDEL HF OP L SIL L840	2.80	96547515	EYL38VOS
EYE VS 1X42W TC-TEL HF OP L SIL L840	2.70	96547593	EYL42VOS
EyeKon Large with visor, black			
EYE VS 1X28W TC-DDEL HF OP L BL L840	2.80	96547586	EYL28VOB
EYE VS 1X38W TC-DDEL HF OP L BL L840	2.80	96547514	EYL38VOB
EYE VS 1X42W TC-TEL HF OP L BL L840	2.70	96547592	EYL42VOB
EyeKon Large with halo-visor, anthracite			
EYE HA 1X28W TC-DDEL HF OP L ANT L840	2.80	96547570	EYL28HOA
EYE HA 1X38W TC-DDEL HF OP L ANT L840	2.80	96547501	EYL38HOA
EYE HA 1X42W TC-TEL HF OP L ANT L840	2.70	96547576	EYL42HOA
EyeKon Large with halo-visor, silver grey			
EYE HA 1X28W TC-DDEL HF OP L SIL L840	2.80	96547572	EYL28HOS
EYE HA 1X38W TC-DDEL HF OP L SIL L840	2.80	96547503	EYL38HOS
EYE HA 1X42W TC-TEL HF OP L SIL L840	2.70	96547578	EYL42HOS
EyeKon Large with halo-visor, black			
EYE HA 1X28W TC-DDEL HF OP L BL L840	2.80	96547571	EYL28HOB
EYE HA 1X38W TC-DDEL HF OP L BL L840	2.80	96547502	EYL38HOB
EYE HA 1X42W TC-TEL HF OP L BL L840	2.70	96547577	EYL42HOB
EyeKon Large, emergency, silver grey			
EYE BE 1X42W TC-TEL HF E3TX OP L SIL L840	3.40	96547644	EYL42EXBOS

Description	Wt (kg)	SAP Code	Cat. No.
EyeKon Large, emergency, black			
EYE BE 1X42W TC-TEL HF E3TX OP L BL L840	3.40	96547643	EYL42EXBOB
EyeKon Large, emergency with cross, anthracite			
EYE CR 1X28 TC-DDEL HF E3TX OP L ANT L84	3.30	96547648	EYL28EXCOA
EYE CR 1X38 TC-DDEL HF E3TX OP L ANT L84	3.60	96547609	EYL38EXCOA
EYE CR 1X42 TC-TEL HF E3TX OP L ANT L840	3.60	96547654	EYL42EXCOA
EyeKon Large, emergency with cross, silver grey			
EYE CR 1X28 TC-DDEL HF E3TX OP L SIL L84	3.30	96547650	EYL28EXCOS
EYE CR 1X38 TC-DDEL HF E3TX OP L SIL L84	3.60	96547611	EYL38EXCOS
EYE CR 1X42 TC-TEL HF E3TX OP L SIL L840	3.60	96547656	EYL42EXCOS
EyeKon Large, emergency with cross, black			
EYE CR 1X28 TC-DDEL HF E3TX OP L BL L840	3.30	96547649	EYL28EXCOB
EYE CR 1X38 TC-DDEL HF E3TX OP L BL L840	3.60	96547610	EYL38EXCOB
EYE CR 1X42W TC-TEL HF E3TX OP L BL L840	3.60	96547655	EYL42EXCOB
EyeKon Large, emergency with visor, anthracite			
EYE VS 1X28W TC-DDEL HF E3TX OP L ANT L84	3.40	96547672	EYL28EXVOA
EYE VS 1X42W TC-TEL HF E3TX OP L ANT L840	3.80	96547678	EYL42EXVOA
EYE VS 1X38W TC-DDEL HF E3TX OP L ANT L84	3.80	96547630	EYL38EXVOA
EyeKon Large, emergency with visor, silver grey			
EYE VS 1X28W TC-DDEL HF E3TX OP L SIL L84	3.50	96547674	EYL28EXVOS
EYE VS 1X38W TC-DDEL HF E3TX OP L SIL L84	3.80	96547632	EYL38EXVOS
EYE VS 1X42W TC-TEL HF E3TX OP L SIL L840	3.80	96547680	EYL42EXVOS
EyeKon Large, emergency with visor, black			
EYE VS 1X28W TC-DDEL HF E3TX OP L BL L840	3.50	96547673	EYL28EXVOB
EYE VS 1X38W TC-DDEL HF E3TX OP L BL L840	3.80	96547631	EYL38EXVOB
EYE VS 1X42W TC-TEL HF E3TX OP L BL L840	3.80	96547679	EYL42EXVOB
EyeKon Large, emergency with halo-visor, anthracite			
EYE HA 1X28W TC-DDEL HF E3TX OP L ANT L84	3.50	96547660	EYL28EXHOA
EYE HA 1X38W TC-DDEL HF E3TX OP L ANT L84	3.80	96547621	EYL38EXHOA
EYE HA 1X42W TC-TEL HF E3TX OP L ANT L840	3.80	96547666	EYL42EXHOA
EyeKon Large, emergency with halo-visor, silver grey			
EYE HA 1X28W TC-DDEL HF E3TX OP L SIL L84	3.50	96547662	EYL28EXHOS
EYE HA 1X38W TC-DDEL HF E3TX OP L SIL L84	3.80	96547623	EYL38EXHOS
EYE HA 1X42W TC-TEL HF E3TX OP L SIL L840	3.80	96547668	EYL42EXHOS
EyeKon Large, emergency with halo-visor, black			
EYE HA 1X28W TC-DDEL HF E3TX OP L BL L840	3.50	96547661	EYL28EXHOB
EYE HA 1X38W TC-DDEL HF E3TX OP L BL L840	3.80	96547622	EYL38EXHOB
EYE HA 1X42W TC-TEL HF E3TX OP L BL L840	3.80	96547667	EYL42EXHOB

Description	Wt (kg)	SAP Code	Cat. No.
Eyeikon Large, photocell, anthracite			
EYE BE 1X28W TC-DDEL P HF OP L ANT L840	2.40	96547528	EYL28PBOA
EYE BE 1X42W TC-TEL P HF OP L ANT L840	2.30	96547534	EYL42PBOA
EYE BE 1X55W TC-DDEL P HF OP L ANT L840	2.30	96547540	EYL55PBOA
EYE BE 1X70W HIT-CE P OP L ANT L840	2.60	96547546	EYL70PBOA
Eyeikon Large, photocell, silver grey			
EYE BE 1X42W TC-TEL P HF OP L SIL L840	2.30	96547536	EYL42PBOS
EYE BE 1X55W TC-DDEL P HF OP L SIL L840	2.30	96547542	EYL55PBOS
EYE BE 1X70W HIT-CE P OP L SIL L840	2.60	96547548	EYL70PBOS
Eyeikon Large, photocell, black			
EYE BE 1X42W TC-TEL P HF OP L BL L840	2.30	96547535	EYL42PBOB
EYE BE 1X38W TC-DDEL P HF OP L BL L840	2.30	96547541	EYL38PBOB
EYE BE 1X70W HIT-CE P OP L BL L840	2.60	96547547	EYL70PBOB
Eyeikon Large, photocell with cross, anthracite			
EYE CR 1X28W TC-DDEL P HF OP L ANT L840	2.60	96547555	EYL28PCOA
EYE CR 1X38W TC-DDEL P HF OP L ANT L840	2.60	96547489	EYL38PCOA
EYE CR 1X42W TC-TEL P HF OP L ANT L840	2.50	96547561	EYL42PCOA
Eyeikon Large, photocell with cross, silver grey			
EYE CR 1X28W TC-DDEL P HF OP L SIL L840	2.60	96547557	EYL28PCOS
EYE CR 1X38W TC-DDEL P HF OP L SIL L840	2.60	96547491	EYL38PCOS
EYE CR 1X42W TC-TEL P HF OP L SIL L840	2.50	96547563	EYL42PCOS
Eyeikon Large, photocell with cross, black			
EYE CR 1X28W TC-DDEL P HF OP L BL L840	2.60	96547556	EYL28PCOB
EYE CR 1X38W TC-DDEL P HF OP L BL L840	2.60	96547490	EYL38PCOB
EYE CR 1X42W TC-TEL P HF OP L BL L840	2.50	96547562	EYL42PCOB
Eyeikon Large, photocell with visor, anthracite			
EYE VS 1X28W TC-DDEL P HF OP L ANT L840	2.80	96547588	EYL28PVOA
EYE VS 1X38W TC-DDEL P HF OP L ANT L840	2.80	96547516	EYL38PVOA
EYE VS 1X42W TC-TEL P HF OP L ANT L840	2.70	96547594	EYL42PVOA
Eyeikon Large, photocell with visor, silver grey			
EYE VS 1X28W TC-DDEL P HF OP L SIL L840	2.80	96547590	EYL28PVOS
EYE VS 1X38W TC-DDEL P HF OP L SIL L840	2.80	96547518	EYL38PVOS
EYE VS 1X42W TC-TEL P HF OP L SIL L840	2.70	96547596	EYL42PVOS
Eyeikon Large, photocell with visor, black			
EYE VS 1X28W TC-DDEL P HF OP L BL L840	2.80	96547589	EYL28PVOB
EYE VS 1X38W TC-DDEL P HF OP L BL L840	2.80	96547517	EYL38PVOB
EYE VS 1X42W TC-TEL P HF OP L BL L840	2.70	96547595	EYL42PVOB
Eyeikon Large, photocell with halo-visor, anthracite			
EYE HA 1X28W TC-DDEL P HF OP L ANT L840	2.80	96547573	EYL28PHOA
EYE HA 1X38W TC-DDEL P HF OP L ANT L840	2.80	96547504	EYL38PHOA
EYE HA 1X42W TC-TEL P HF OP L ANT L840	2.70	96547579	EYL42PHOA
Eyeikon Large, photocell with halo-visor, silver grey			
EYE HA 1X28W TC-DDEL P HF OP L SIL L840	2.80	96547575	EYL28PHOS
EYE HA 1X38W TC-DDEL P HF OP L SIL L840	2.80	96547506	EYL38PHOS
EYE HA 1X42W TC-TEL P HF OP L SIL L840	2.70	96547581	EYL42PHOS
Eyeikon Large, photocell with halo-visor, black			
EYE HA 1X28W TC-DDEL P HF OP L BL L840	2.80	96547574	EYL28PHOB
EYE HA 1X38W TC-DDEL P HF OP L BL L840	2.80	96547505	EYL38PHOB
EYE HA 1X42W TC-TEL P HF OP L BL L840	2.70	96547580	EYL42PHOB
Eyeikon Large, emergency, photocell, anthracite			
EYE BE 1X42TC-TEL P HFE3TX OP L ANT L840	3.40	96547645	EYL42EXPBOA
Eyeikon Large, emergency, photocell, silver grey			
EYE BE 1X42TC-TEL P HFE3TX OP L SIL L840	3.40	96547647	EYL42EXPBOS
Eyeikon Large, emergency, photocell, black			
EYE BE 1X42 TC-TEL P HF E3TX OP L BL L84	3.40	96547646	EYL42EXPBOB
Eyeikon Large, emergency, photocell with cross, anthracite			
EYE CR 1X28TC-DDEL P HFE3TX OP L ANT L84	3.30	96547651	EYL28EXPCOA
EYE CR 1X38TC-DDEL P HFE3TX OP L ANT L84	3.60	96547612	EYL38EXPCOA
EYE CR 1X42TC-TEL P HFE3TX OP L ANT L840	3.60	96547657	EYL42EXPCOA
Eyeikon Large, emergency, photocell with cross, silver grey			
EYE CR 1X28TC-DDEL P HFE3TX OP L SIL L84	3.30	96547653	EYL28EXPCOS
EYE CR 1X38TC-DDEL P HFE3TX OP L SIL L84	3.60	96547614	EYL38EXPCOS
EYE CR 1X42TC-TEL P HFE3TX OP L SIL L840	3.60	96547659	EYL42EXPCOS
Eyeikon Large, emergency, photocell with cross, black			
EYE CR 1X28TC-DDEL P HFE3TX OP L BL L840	3.30	96547652	EYL28EXPCOB
EYE CR 1X38TC-DDEL P HFE3TX OP L BL L840	3.60	96547613	EYL38EXPCOB
EYE CR 1X42 TC-TEL P HF E3TX OP L BL L84	3.60	96547658	EYL42EXPCOB
Eyeikon Large, emergency, photocell with visor, anthracite			
EYE VS 1X28TC-DDEL P HFE3TX OP L ANT L84	3.50	96547675	EYL28EXPVOA
EYE VS 1X38TC-DDEL P HFE3TX OP L ANT L84	3.80	96547633	EYL38EXPVOA
EYE VS 1X42TC-TEL P HFE3TX OP L ANT L840	3.80	96547681	EYL42EXPVOA

Description	Wt (kg)	SAP Code	Cat. No.
Eyeikon Large, emergency, photocell with visor, silver grey			
EYE VS 1X28TC-DDEL P HFE3TX OP L SIL L84	3.50	96547677	EYL28EXPVOS
EYE VS 1X38TC-DDEL P HFE3TX OP L SIL L84	3.80	96547635	EYL38EXPVOS
EYE VS 1X42TC-TEL P HFE3TX OP L SIL L840	3.80	96547683	EYL42EXPVOS
Eyeikon Large, emergency, photocell with visor, black			
EYE VS 1X28TC-DDEL P HFE3TX OP L BL L840	3.50	96547676	EYL28EXPVOB
EYE VS 1X38TC-DDEL P HFE3TX OP L BL L840	3.80	96547634	EYL38EXPVOB
EYE VS 1X42 TC-TEL P HF E3TX OP L BL L84	3.80	96547682	EYL42EXPVOB
Eyeikon Large, emergency, photocell with halo-visor, anthracite			
EYE HA 1X28TC-DDEL P HFE3TX OP L ANT L84	3.50	96547663	EYL28EXPHOA
EYE HA 1X38TC-DDEL P HFE3TX OP L ANT L84	3.80	96547624	EYL38EXPHOA
EYE HA 1X42TC-TEL P HFE3TX OP L ANT L840	3.80	96547669	EYL42EXPHOA
Eyeikon Large, emergency, photocell with halo-visor, silver grey			
EYE HA 1X28TC-DDEL P HFE3TX OP L SIL L84	3.50	96547665	EYL28EXPHOS
EYE HA 1X38TC-DDEL P HFE3TX OP L SIL L84	3.80	96547626	EYL38EXPHOS
EYE HA 1X42TC-TEL P HFE3TX OP L SIL L840	3.80	96547671	EYL42EXPHOS
Eyeikon Large, emergency, photocell with halo-visor, black			
EYE HA 1X28TC-DDEL P HFE3TX OP L BL L840	3.50	96547664	EYL28EXPHOB
EYE HA 1X38TC-DDEL P HFE3TX OP L BL L840	3.80	96547625	EYL38EXPHOB
EYE HA 1X42 TC-TEL P HF E3TX OP L BL L84	3.80	96547670	EYL42EXPHOB

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.

Leopard



www.thornlighting.co.uk/LPRD

Series of vandal resistant luminaires for wall or ceiling mounting, in black or white with opal or prismatic diffusers



- Sealed to IP65 for exterior applications when supplied gasket fitted
- Energy saving sensor options, luminaire is activated when movement has been detected, then will switch off
- 28W 2D integral emergency version as standard
- LED version with sensor and emergency lighting options

Materials/Finish

Bodies: polycarbonate, black or white
Diffusers: polycarbonate opal and clear honeycomb prismatic
Geartray: Pre-coated steel

Installation/Mounting

Suitable for surface mounting with rear BESA provision, side entry (25mm conduit) for through wiring with entry into 3 way terminal block suitable to accept 2 x 2.5mm. Vandal resistant screw kit available as an accessory. Sensor options have adjustments for sensitivity, daylight and activated period.
All internal components are fixed to a white pre-coated gear tray which has a unique (tool free) click fit into base.
Switch start and High Frequency ballast, 240V 50/60 Hz

Specification

To specify state:
Polycarbonate bulkhead with black/white base, tool-less gear tray fixation.
With unique honeycomb prismatic or opal diffuser.
As Thorn Leopard.



Lamps

	LED	15W
	TC-DDEL (FSS)	GR10q 16-38W
	TC-DD (FSS)	GR8 16W

Standards

	EN 60598	IP65	IK10	T _a 25	850°C

Ordering Guide

Supplied complete with lamp/LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Leopard LED			
LEOPARD 1250 LED OP RD WHI L840	1.30	96240254	LER1250ZOPW
LEOPARD 1250 LED E3 OP RD WH L840	1.60	96240256	LER1250ZEOPW
LEOPARD 1250 LED MWS OP RD WH L840	1.30	96240255	LER1250ZSOPW
LEOPARD 1250 LED MWS E3 OP RD WH L840	1.60	96240257	LER1250ZSEOPW
Leopard			
LEOPARD 1X16W TC-DD HF OP RD BLK L830	1.10	96238457	LER116ZOPB
LEOPARD 1X16W TC-DD HF OP RD WHI L830	1.10	96238458	LER116ZOPW
LEOPARD 1X16W TC-DD HF OP SQ BLK L830	1.10	96238461	LES116ZOPB
LEOPARD 1X16W TC-DD HF OP SQ WHI L830	1.10	96238462	LES116ZOPW
LEOPARD 1X16W TC-DD HF PR RD BLK L830	1.10	96238459	LER116ZPRB
LEOPARD 1X16W TC-DD HF PR RD WHI L830	1.10	96238460	LER116ZPRW
LEOPARD 1X16W TC-DD HF PR SQ BLK L830	1.10	96238463	LES116ZPRB
LEOPARD 1X16W TC-DD HF PR SQ WHI L830	1.10	96238464	LES116ZPRW
LEOPARD 1X16W TC-DD NC OP RD BLK L830	1.30	96230477	LER116SOPB
LEOPARD 1X16W TC-DD NC OP RD WHI L830	1.30	96230478	LER116SOPW
LEOPARD 1X16W TC-DD NC OP SQ BLK L830	1.30	96230479	LES116SOPB
LEOPARD 1X16W TC-DD NC OP SQ WHI L830	1.30	96230480	LES116SOPW
LEOPARD 1X16W TC-DD NC PR RD BLK L830	1.30	96230481	LER116SLPRB
LEOPARD 1X16W TC-DD NC PR RD WHI L830	1.30	96230482	LER116SLPRW
LEOPARD 1X16W TC-DD NC PR SQ BLK L830	1.30	96230483	LES116SLPRB
LEOPARD 1X16W TC-DD NC PR SQ WHI L830	1.30	96230484	LES116SLPRW
LEOPARD 1X28W TC-DDEL HF OP RD BLK L840	1.80	96230493	LER128ZOPB
LEOPARD 1X28W TC-DDEL HF OP RD WHI L840	1.80	96230494	LER128ZOPW
LEOPARD 1X28W TC-DDEL HF OP SQ BLK L840	1.80	96230495	LES128ZOPB
LEOPARD 1X28W TC-DDEL HF OP SQ WHI L840	1.80	96230496	LES128ZOPW
LEOPARD 1X28W TC-DDEL HF PR RD BLK L840	1.80	96230497	LER128ZPRB
LEOPARD 1X28W TC-DDEL HF PR RD WHI L840	1.80	96230498	LER128ZPRW
LEOPARD 1X28W TC-DDEL HF PR SQ BLK L840	1.80	96230499	LES128ZPRB
LEOPARD 1X28W TC-DDEL HF PR SQ WHI L840	1.80	96230500	LES128ZPRW
LEOPARD 1X28W TC-DDEL CP OP RD BLK L840	1.90	96233791	LER128SOPB
LEOPARD 1X28W TC-DDEL CP OP RD WHI L840	1.90	96233792	LER128SOPW
LEOPARD 1X28W TC-DDEL CP OP SQ BLK L840	1.90	96233793	LES128SOPB
LEOPARD 1X28W TC-DDEL CP OP SQ WHI L840	1.90	96233794	LES128SOPW
LEOPARD 1X28W TC-DDEL CP PR RD BLK L840	1.90	96233795	LER128SPRB
LEOPARD 1X28W TC-DDEL CP PR RD WHI L840	1.90	96233796	LER128SPRW

Description	Wt (kg)	SAP Code	Cat. No.
Leopard			
LEOPARD 1X28W TC-DDEL CP PR SQ BLK L840	1.90	96233797	LES128SPRB
LEOPARD 1X28W TC-DDEL CP PR SQ WHI L840	1.90	96233798	LES128SPRW
LEOPARD 1X38W TC-DDEL HF OP RD BLK L840	1.80	96238465	LER138ZOPB
LEOPARD 1X38W TC-DDEL HF OP RD WHI L840	1.80	96238466	LER138ZOPW
LEOPARD 1X38W TC-DDEL HF OP SQ BLK L840	1.80	96238469	LES138ZOPB
LEOPARD 1X38W TC-DDEL HF OP SQ WHI L840	1.80	96238470	LES138ZOPW
LEOPARD 1X38W TC-DDEL HF PR RD BLK L840	1.80	96238467	LER138ZPRB
LEOPARD 1X38W TC-DDEL HF PR RD WHI L840	1.80	96238468	LER138ZPRW
LEOPARD 1X38W TC-DDEL HF PR SQ BLK L840	1.80	96238471	LES138ZPRB
LEOPARD 1X38W TC-DDEL HF PR SQ WHI L840	1.80	96238472	LES138ZPRW
LEOPARD 1X38W TC-DDEL CP OP RD BLK L840	2.20	96230509	LER138SOPB
LEOPARD 1X38W TC-DDEL CP OP RD WHI L840	2.20	96230510	LER138SOPW
LEOPARD 1X38W TC-DDEL CP OP SQ BLK L840	2.20	96230511	LES138SOPB
LEOPARD 1X38W TC-DDEL CP OP SQ WHI L840	2.20	96230512	LES138SOPW
LEOPARD 1X38W TC-DDEL CP PR RD BLK L840	2.20	96230513	LER138SPRB
LEOPARD 1X38W TC-DDEL CP PR RD WHI L840	2.20	96230514	LER138SPRW
LEOPARD 1X38W TC-DDEL CP PR SQ BLK L840	2.20	96230515	LES138SPRB
LEOPARD 1X38W TC-DDEL CP PR SQ WHI L840	2.20	96230516	LES138SPRW
Leopard Emergency			
LEOPARD 1X28W TC-DDEL HF E3 OP RD BLK 40	2.80	96230485	LER128ZEOPB
LEOPARD 1X28W TC-DDEL HF E3 OP RD WHI 40	2.80	96230486	LER128ZEOPW
LEOPARD 1X28W TC-DDEL HF E3 OP SQ BLK 40	2.80	96230487	LES128ZEOPB
LEOPARD 1X28W TC-DDEL HF E3 OP SQ WHI 40	2.80	96230488	LES128ZEOPW
LEOPARD 1X28W TC-DDEL HF E3 PR RD BLK 40	2.80	96230489	LER128ZEPRB
LEOPARD 1X28W TC-DDEL HF E3 PR RD WHI 40	2.80	96230490	LER128ZEPRW
LEOPARD 1X28W TC-DDEL HF E3 PR SQ BLK 40	2.80	96230491	LES128ZEPRB
LEOPARD 1X28W TC-DDEL HF E3 PR SQ WHI 40	2.80	96230492	LES128ZEPRW

Leopard



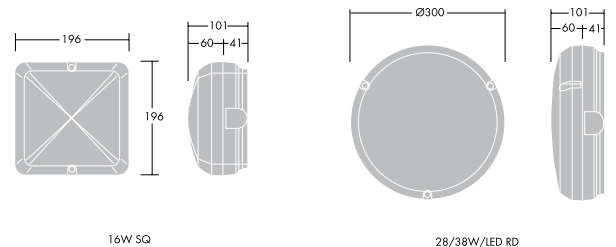
www.thornlighting.co.uk/LPRD

Series of vandal resistant luminaires for wall or ceiling mounting, in black or white with opal or prismatic diffusers



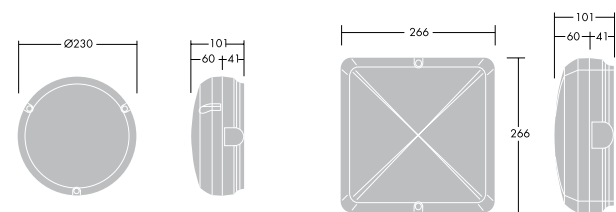
Description	Wt (kg)	SAP Code	Cat. No.
Leopard Sensor versions			
LEOPARD 1X28W TC-DDELHF MWS OPRD BLK L84	1.90	96239796	LER128ZSOPB
LEOPARD 1X28W TC-DDELHF MWS OPRD WHI L84	1.90	96239797	LER128ZSOPW
LEOPARD 1X28W TC-DDELHF MWS OPSQ BLK L84	1.90	96239799	LES128ZSOPB
LEOPARD 1X28W TC-DDELHF MWS OPSQ WHI L84	1.90	96239800	LES128ZSOPW
LEOPARD 1X28W TC-DDELHF MWS PRRD BLK L84	1.90	96239801	LER128ZSPRB
LEOPARD 1X28W TC-DDELHF MWS PRRD WHI L84	1.90	96239802	LER128ZSPRW
LEOPARD 1X28W TC-DDELHF MWS PRSQ BLK L84	1.90	96239803	LES128ZSPRB
LEOPARD 1X28W TC-DDELHF MWS PRSQ WHI L84	1.90	96239804	LES128ZSPRW
LEOPARD 1X28WTC-DDELHF MWS E3OPRD BK L84	2.90	96239805	LER128ZSEOPB
LEOPARD 1X28WTC-DDELHF MWS E3OPRD WH L84	2.90	96239806	LER128ZSEOPW
LEOPARD 1X28WTC-DDELHF MWS E3OPSQ BK L84	2.90	96239807	LES128ZSEOPB
LEOPARD 1X28WTC-DDELHF MWS E3OPSQ WH L84	2.90	96239808	LES128ZSEOPW
LEOPARD 1X28WTC-DDELHF MWS E3PRRD BK L84	2.90	96239809	LER128ZSEPRB
LEOPARD 1X28WTC-DDELHF MWS E3PRRD WH L84	2.90	96239810	LER128ZSEPRW
LEOPARD 1X28WTC-DDELHF MWS E3PRSQ BK L84	2.90	96239811	LES128ZSEPRB
LEOPARD 1X28WTC-DDELHF MWS E3PRSQ WH L84	2.90	96239812	LES128ZSEPRW
Leopard Accessories			
LEOPARD 1X28W TC-DD HF E3 CONVERSION KIT	1.50	96010367	LE128EKIT
LEOPARD PHOTOCELL KIT	0.30	96010365	LEPKIT
LEOPARD VANDAL PROOF SCREW KIT	0.10	96010366	LEVPKIT

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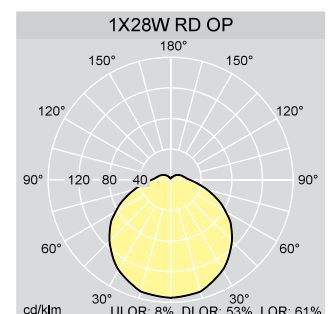
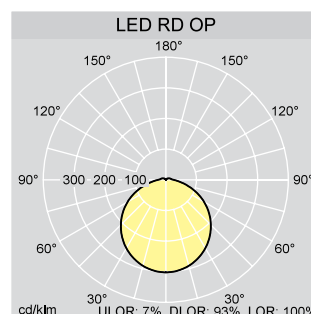
16W SQ

28/38W/LED RD



16W RD

28/38W SQ



Panther



www.thornlighting.co.uk/PNTR

A range of robust, IP65 rated, surface mounted luminaires with opal or prismatic diffusers



- Large and small body sizes, in black or white
- Photocell kit for dusk to dawn operation, suitable for 16/28/38W versions
- Prismatic or opal diffuser, sealed to IP65

Materials/Finish

Body: small - injection moulded polycarbonate, large - polycarbonate
Emergency body: polycarbonate
Body colours: black or white.
Diffuser: polycarbonate opal or clear prismatic.
Screws: triangular headed tamperproof stainless steel.

Installation/Mounting

Rear BESA provision. Conduit provision on opposite sides.
3-way terminal block that accepts 2 x 4mm² cable.
Ceiling or wall mounted.

Specification




To specify state:
Black or white polycarbonate bulkhead with opal/clear prismatic diffuser.
Vandal resistant fixing for 16W TC-DD, 28/38W TC-DDEL lamps.
As Thorn Panther.



Lamps

	TC-DDEL (FSS)	GR10q	28-38W
	TC-DD (FSS)	GR8	16-28W

Standards

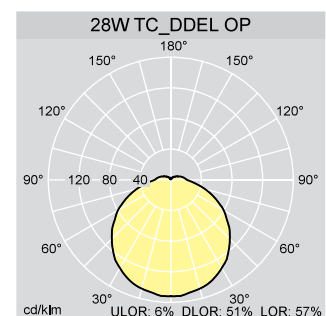
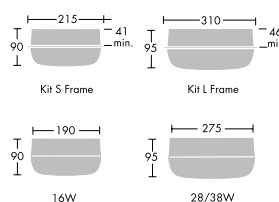
				
				

Ordering Guide

Supplied complete with lamp

Description	Wt (kg)	SAP Code	Cat. No.
Panther Luminaires			
PANTHER 1X16W TC-DD CP OP BLK L830	1.09	96232332	PT116SOPB
PANTHER 1X16W TC-DD CP OP WHI L830	1.00	96232333	PT116SOPW
PANTHER 1X16W TC-DD CP P OP BLK 830	1.08	96232334	PT116SOPB
PANTHER 1X16W TC-DD CP P OP WHI L830	1.08	96232335	PT116SOPW
PANTHER 1X16W TC-DD CP P PR BLK L830	1.08	96232336	PT116SPPRB
PANTHER 1X16W TC-DD CP P PR WHI L830	0.80	96232477	PT116SPPRW
PANTHER 1X16W TC-DD CP PR BLK L830	1.09	96232337	PT116SPRB
PANTHER 1X16W TC-DD CP PR WHI L830	1.10	96232338	PT116SPRW
PANTHER 1X28W TC-DDEL HF OP BLK L840	1.56	96232347	PT128ZOPB
PANTHER 1X28W TC-DDEL HF OP WHI L840	1.56	96232348	PT128ZOPW
PANTHER 1X28W TC-DDEL HF PR BLK L840	1.67	96232349	PT128ZPRB
PANTHER 1X28W TC-DDEL HF PR WHI L840	1.60	96232350	PT128ZPRW
PANTHER 1X28W TC-DDEL CP OP BLK L840 MK	1.97	96233805	PT128SOPB
PANTHER 1X28W TC-DDEL CP OP WHI L840 MK	1.90	96233806	PT128SOPW
PANTHER 1X28W TC-DDEL CP PR BLK L840	2.13	96233807	PT128SPRB
PANTHER 1X28W TC-DDEL CP PR WHI L840 M	2.00	96233808	PT128SPRW
PANTHER 1X38W TC-DDEL HF OP BLK L840	1.70	96232427	PT138ZOPB
PANTHER 1X38W TC-DDEL HF OP WHI L840	1.65	96232351	PT138ZOPW
PANTHER 1X38W TC-DDEL HF PR BLK L840	1.60	96232428	PT138ZPRB
PANTHER 1X38W TC-DDEL HF PR WHI L840	1.67	96232352	PT138ZPRW
Panther Emergency luminaires			
PANTHER 1X28W TC-DDEL HF E3 OP BLK L840	2.35	96232343	PT128ZEOPB
PANTHER 1X28W TC-DDEL HF E3 OP WHI L840	2.34	96232344	PT128ZEOPW
PANTHER 1X28W TC-DDEL HF E3 PR BLK L840	2.38	96232345	PT128ZEPRB
PANTHER 1X28W TC-DDEL HF E3 PR WHI L840	2.38	96232346	PT128ZEPRW
Panther Accessories			
LEOPARD PHOTOCELL KIT	0.30	96010365	LEPCKIT
PANTHER KIT L FRAME	0.45	96012751	PTLFR
PANTHER KIT S FRAME	0.30	96218347	PTSFR

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Piazza II



www.thornlighting.co.uk/PIAZ

Robust, IP65 luminaires designed to provide security, surround or accent illumination with a touch of style



- Excellent light distribution and uniformity (up to 11m spacing)
- Versions with built-in photocell or emergency lighting
- Multi-option mounting: wall or brackets for corners and poles

Materials/Finish

Body: polycarbonate, anthracite finish

Diffuser: polycarbonate. Small: smooth opal. Large: clear prismatic, smooth opal

Eyelid: polycarbonate, anthracite finish

Pole/wall mounting brackets: galvanised steel, polyester powder coated

Installation/Mounting

Wall mountable. 20mm cable entry via rear grommeted hole or top and side conduit entries. Internal or external corner installation possible with wall bracket accessory. Pole mounting brackets allow 1 to 4 large luminaires on one pole between 60mm and 76mm diameter. Recommended mounting height: Large 3-6m; Small 1-3m

Specification

To specify state: Enclosed IP65 vandal resistant wall/pole mounting luminaire for 50W HSE-E, 70W HSE-I/HST high pressure sodium, 35W HIT-CE, 70W HI/HIT-CE metal halide, 18W/26W TC-DEL, 18/26/42W TC-TEL and 85W TC-TEL compact fluorescent lamps. With polycarbonate body, small: smooth opal, large: prismatic clear/smooth opal diffuser and magnetic/electronic/E3 emergency control gear.
As Thorn Piazza II.

OUTDOOR LIGHTING



Urban Amenity Lighting



Liverpool University, UK



NEW Suncyl
380



NEW **LED** Legend
402

Bollards



NEW **LED** Adelie Bollard
410



Alumet Classic
384



Plurio
404



LED Promenade
412



Alumet Control
Direct
386



LED Plurio LED
406



Avenue Deco Bollard
414



Alumet Control
Indirect
388



Plurio Effect
408



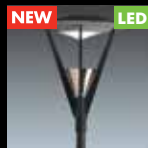
Basalt
416



LED Alumet Stage
390



Charior
417



NEW **LED** Avenue D² LED
392



NEW **LED** D-CO LED Bollard
418



LED Avenue F LED
394



NEW **LED** Tea
419



Avenue XL
396



NEW **LED** EP 145 LED
398



Gamma Basique
400

OUTDOOR LIGHTING

URBAN AMENITY LIGHTING

NEW

Suncyl

Stylish columns combining solar and wind energy for sustainable stand-alone street lighting installations



Dyana LED



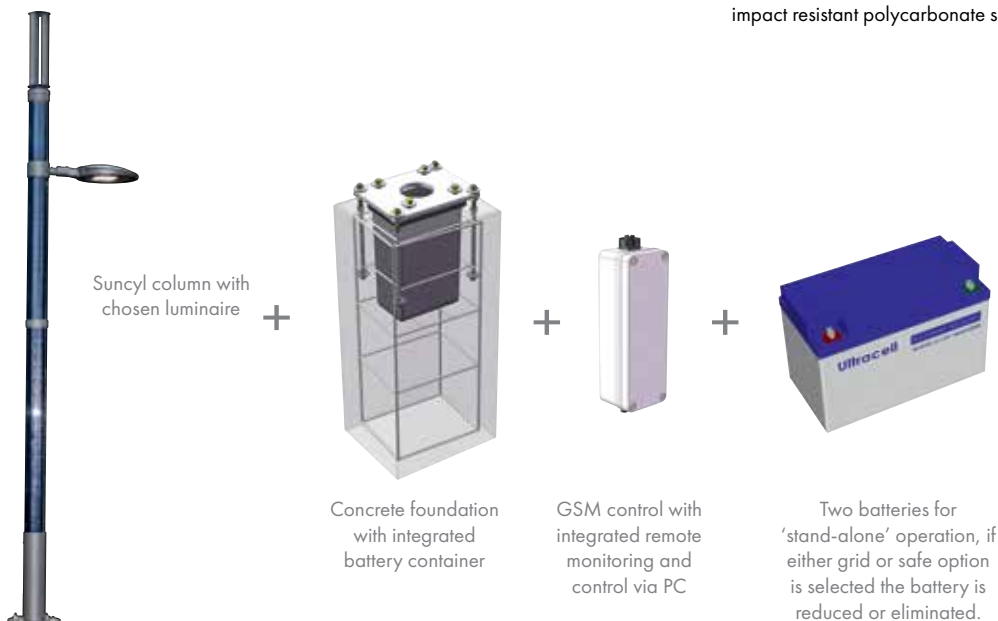
Integrating Suncyl technology into our stylish columns makes it possible to provide light by combining solar and wind energy to power sustainable stand-alone street lighting installations using LED lanterns.

Made from 100% recyclable material and offering completely CO₂ neutral operation, the sleek, architect designed column is as environmentally friendly as it is attractive to the eye.

And because Suncyl requires no cabling, the unique solution is equally suitable for the city and the countryside.

Benefits include:

- Completely CO₂ neutral
- 18% solar cells covering the entire column
- 100% recyclable materials
- Modular solution (from 0 to 3 solar modules, with or without wind turbine)
- No cabling - plug and play
- Integrated light control
- Option for presence detection
- Low maintenance: from our experience with existing installations, unlike standard solar panels, dust tends to accumulate on the edges of the metallic structure of the pole, not on the solar cell. This preserves the full efficacy of the solar cells. The solar panels are also encapsulated within an impact resistant polycarbonate shell which is easy to clean.





Alumet Direct



Avenue D2 LED



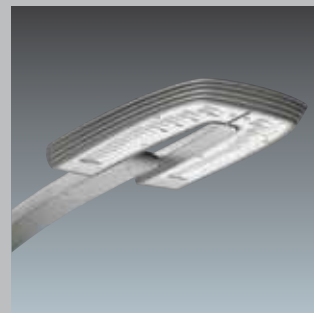
Avenue F LED



Olsys



Clan LED



StylLED

Solar Solution



**Hybrid solution
(sun + wind energy)**



Suncyl has been used in locations as diverse as Scandinavia and Dubai, so whilst the amount of daylight is important, it is not a limiting factor in locations where long hours of darkness are a fact of life.

The geographical location of the installation plays an important part in considering the battery capacity requirements to ensure that adequate power is available for reliable operation. Therefore each project has to be considered individually. In the first instance, we will investigate all the relevant factors with you in order that we can brief our design department with a full set of information.

As a result of this there is no 'standard' range. To learn more about Suncyl or if you have a project in mind, contact us for more information and assistance.



Classic

This sleek and simple lighting column, can orchestrate lighting compositions in a planned sequence while blending harmoniously with traditional and modern urban landscapes

- A sleek and minimalist shape provides distinctive lighting effects by night and decorative urban furniture during the day
- Suitable for pedestrian precincts, building surrounds, shopping centres, parks and business centres
- Exceptional visual comfort
- Electronic ballast ensures energy savings
- Ideal for creating visual guidance and safe ambience in urban spaces
- Decorative lampshield provides further design and customisation possibilities to better match architectural project and tastes



Control direct

Combines performance, lighting control and aesthetics

- The highest performing and efficient member of the Alumet family
- The glass lense prevents the direct vision of the lamp, limiting glare
- Direct lighting principle for a better control of light (ULOR < 2%)
- A shining and stylish presence ideal for enhancing and modernising a pedestrian area
- Combined with a 180° lampshield, Alumet Control Direct is an ideal solution for building surrounds and residential areas





Control Indirect

A unique optical design for outstanding control of light and aesthetic effect

- Sets of Fresnel aluminium rings contain over 97% of upward flux
- A shining and stylish presence in the city ideal for enhancing and modernising a pedestrian area
- Electronic ballast ensure energy saving capacities
- White light with good colour rendering



Stage

By day Alumet Stage is decorative and visually appealing. By night it comes into its own, enabling the designer to create a multiplicity of dramatic lighting effects

- Lighting principle: Four multi-layered directional spotlights, boosted by various optical accessories, create a wide variety of adjustable effects without the need to change the position of the luminaire
- Wide choice of light sources, beam options and colours: Either 35W metal halide (HIR-CE111) with 10°, 24° or 40° beam or 17W LED modules (warm white 3600°K or cold white 7400°K, red, blue, green, amber) with intensive or semi-intensive beam
- Adjustable optical accessories (Anti-glare louvre, asymmetrical refractor and colour filters) available to turn your vision into reality
- The fully customisable decorative lampshield accessory provides further aesthetic appeal and integration within architectural projects



Alumet Classic



www.thornlighting.co.uk/ALUC

Elegant column, which can orchestrate lighting compositions in a planned sequence while blending harmoniously with all urban landscapes



- Exceptional visual comfort during the night and decorative urban furniture during the day, ideal to create visual guidance and safe ambience in pedestrian urban spaces
- Decorative lampshield provides further design and customisation possibilities to better match architectural project and tastes

Materials/Finish

Diffuser: opal impact-resistant acrylic
Top cap: die-cast aluminium
Column: extruded aluminium
Accessories: decorative 180° lampshield with arabesque or square pattern. Other patterns available on request.
Top/Column/Lampshield: powder coated textured silver grey 150 (close to RAL 9006) Other RAL on request.

Installation/Mounting

3 or 4m high columns, flange or root mounted (MGR or MGS) Flange: 400 x 400mm, spacings: 300 x 300mm, bolts 18 x 400 (included). Total height (with lit part of 1150mm): 4.25m or 5.25m Diameter: 200mm. Fixing of the head and optional accessory by one single tool. Access to lamp and gear via 2 M6 screws. Electronic gear inside head, pre-wired with 4m cable

Specification

To specify state:
IP65 decorative lighting column for 2 x 54W T16 lamps with powder coated aluminium column.
As Thorn Alumet Classic.



Lamps

T5 (FDH) G5 54W

Standards

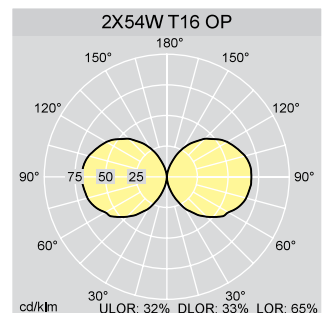
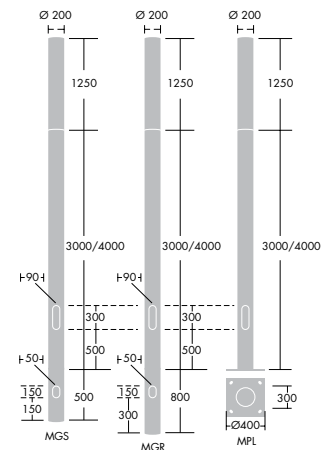


Ordering Guide

For complete fitting order head and column. Lamphield sold as accessory. Head supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Head			
ALUMET CLASSIC 2 X 54W T16/L	11.00	96240060	ALC254
Column			
ALUMET COL 3M MGR AL SIL NG	38.00	96259923	AL3RT
ALUMET COL 3M MGS AL SIL NG	35.00	96259918	AL3SPK
ALUMET COL 3M MPL AL FAI SIL NG	35.00	96259919	AL3FP
ALUMET COL 4M MGR AL SIL NG	37.20	96259920	AL4RT
ALUMET COL 4M MGS AL SIL NG	37.20	96259921	AL4SPK
ALUMET COL 4M MPL AL FAI SIL NG	36.00	96259922	AL4FP
Lamphields			
ALUMET LAMPSHIELD 180° ARABESQUE	3.45	96255210	ALALS
ALUMET LAMPSHIELD 180° SQUARE	3.60	96254469	ALSLS

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Alumet Control Direct



www.thornlighting.co.uk/ALUD

Combines performance, lighting control and style



- A shining and stylish presence in the city ideal for enhancing and modernising a pedestrian area
- Direct lighting principle for a better control of light (ULOR < 2%), and limited glare thanks to the glass lens which shields the direct view of the lamp
- Combined with a 180° lampshield, Alumet Control Direct is an ideal solution for building surrounds and residential areas
- 140W CPO, 150W HIT-CE and LED versions available on request

Materials/Finish

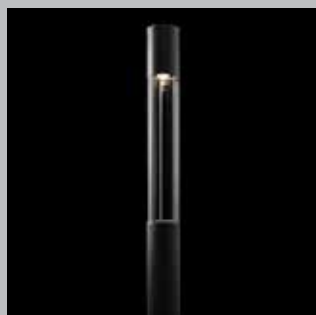
Diffuser: clear UV stabilised PC treated with anti-graffiti varnish
Reflector: anodised aluminium
Top cap: die-cast aluminium
Lens: glass
Column: extruded aluminium
Slotted optic cover: aluminium, other patterns on request.
Column/cover: powder coated textured silver grey (close to RAL 9006) Other RAL on request.

Installation/Mounting

3 or 4m high columns, flange (MPL) or root mounted (MGR) Flange: 400 x 400mm, spacings: 300 x 300mm, bolts 18 x 400 (included). Total height (with lit part of 1.25m): 4.25m or 5.25m, Diameter: 200mm. Fixing of the head and optional accessory by one single tool. Access to lamp via 2 M6 screws in the top and by lifting down the bottom optic cover. Electronic gear in IP65 box suspended on the top of the column connected to the head and pre-wired with 4m cable

Specification

To specify state:
IP65 decorative lighting column for 35/70W HIT-CE or 45/60/90W CPO lamp with Direct optic and fresnel lens and powder coated aluminium column.
As Thorn Alumet Control Direct.



Lamps

HIT-CE (MT) PGZ12 35-90W

Standards

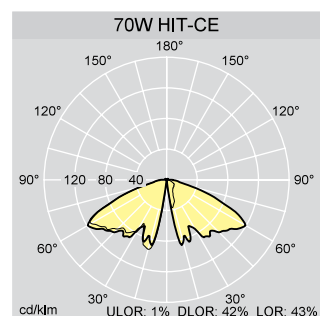
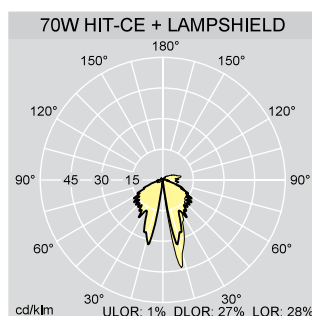
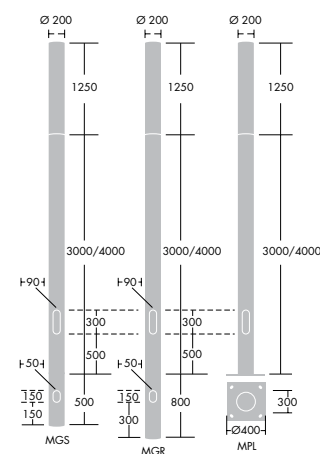
CE EN 60598 EN40 IP65 IK10

Ordering Guide

For complete fitting order head and column. Lamphshield sold as accessory. Head supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Head			
ALUMET CONTROL/D 35W CDM-T/L	13.50	96240071	ALCD35
ALUMET CONTROL/D 45W COSMOPOLIS/L	13.50	96240068	ALCD45
ALUMET CONTROL/D 60W COSMOPOLIS/L	13.50	96240069	ALCD60
ALUMET CONTROL/D 70W CDM-T/L	13.50	96240072	ALCD70
ALUMET CONTROL/D 90W COSMOPOLIS/L	13.50	96240070	ALCD90
Column			
ALUMET COL 3M MGR AL SIL NG	38.00	96259923	AL3RT
ALUMET COL 3M MGS AL SIL NG	35.00	96259918	AL3SPK
ALUMET COL 3M MPL AL FAI SIL NG	35.00	96259919	AL3FP
ALUMET COL 4M MGR AL SIL NG	37.20	96259920	AL4RT
ALUMET COL 4M MGS AL SIL NG	37.20	96259921	AL4SPK
ALUMET COL 4M MPL AL FAI SIL NG	36.00	96259922	AL4FP
Lamphshields			
ALUMET LAMP SHIELD 180° ARABESQUE	3.45	96255210	ALALS
ALUMET LAMP SHIELD 180° SQUARE	3.60	96254469	ALSLS

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Alumet Control Indirect



www.thornlighting.co.uk/ALUI

A unique optical design for outstanding control of light and aesthetic effect



Lamps

HIT-CE (MT) G12 35-150W

Standards



- Sets of Fresnel aluminium rings contain over 97% of upward flux
- A shining and stylish presence in the city ideal for enhancing and modernising a pedestrian area
- White light with good colour rendering

Materials/Finish

Diffuser: clear UV stabilised PC treated with anti-graffiti varnish
Optical Fresnel rings and reflector: anodised aluminium
Top cap: die-cast aluminium
Column: extruded aluminium
Optic cover: slotted aluminium, other patterns on request.
Top/Column/Cover: powder coated textured silver grey 150 (close to RAL 9006) Other RAL on request.

Installation/Mounting

3 or 4m high columns, flange or root mounted (MGR or MGS). Flange: 400 x 400mm, spacings: 300 x 300mm, bolts 18 x 400 (included). Total height (with lit part of 1.25m): 4.25m or 5.25m Diameter: 200mm. Fixing of the head and optional accessory by one single tool. Access to lamp via 2 M6 screws in the top and by lifting up the bottom optic cover and reflector. Electronic gear in IP65 box suspended on the top of the column connected to the head and pre-wired with 4m cable

Specification

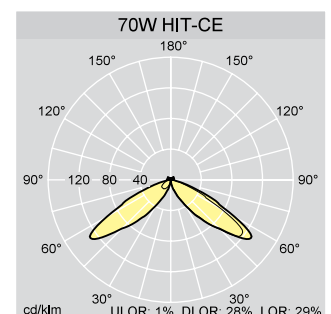
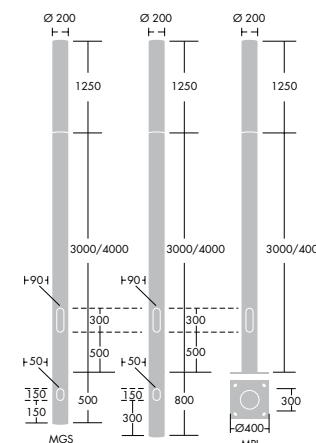
To specify state:
IP65 decorative lighting column for 35-150W HIT-CE or 45-140W CPO lamp with Fresnel optical rings and powder coated aluminium column. As Thorn Alumet Control Indirect.

Ordering Guide

For complete fitting order head and column. Head supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Head			
ALUMET CONTROL/1 35W CDM-TT/L	13.50	96240065	ALC35
ALUMET CONTROL/1 45W COSMOPOLIS/L	13.50	96240061	ALC45
ALUMET CONTROL/1 60W COSMOPOLIS/L	13.50	96240062	ALC60
ALUMET CONTROL/1 70W CDM-TT/L	13.50	96240066	ALC70
ALUMET CONTROL/1 90W COSMOPOLIS/L	13.50	96240063	ALC90
ALUMET CONTROL/1 140W COSMOPOLIS/L	13.50	96240064	ALC140
ALUMET CONTROL/1 150W CDM-TT/L	13.50	96240067	ALC150
Column			
ALUMET COL 3M MGR AL SIL NG	38.00	96259923	AL3RT
ALUMET COL 3M MGS AL SIL NG	35.00	96259918	AL3SPK
ALUMET COL 3M MPL AL FAI SIL NG	35.00	96259919	AL3FP
ALUMET COL 4M MGR AL SIL NG	37.20	96259920	AL4RT
ALUMET COL 4M MGS AL SIL NG	37.20	96259921	AL4SPK
ALUMET COL 4M MPL AL FAI SIL NG	36.00	96259922	AL4FP

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Alumet Stage



www.thornlighting.co.uk/ALUS

Elegant, slender and unobtrusive column, topped with clear cylindrical diffuser containing multi-directional spotlights



- Four multi-directional spotlights, create a wide variety of adjustable effects without the need to change the position of the luminaire
- Adjustable optical accessories include Anti-glare louvre, asymmetrical refractor and colour filters
- Wide choice of light sources, beam optics and colours: Either 35W metal halide (HIR-CE 111) with 10°, 24° or 40° beam or 17W LED modules (warm white 3600°K or cold white 7400°K, red, blue, green, amber) with intensive or semi-intensive beam
- The fully customisable decorative lampshield accessory provides further aesthetical appeal and integration within architectural projects

Materials/Finish

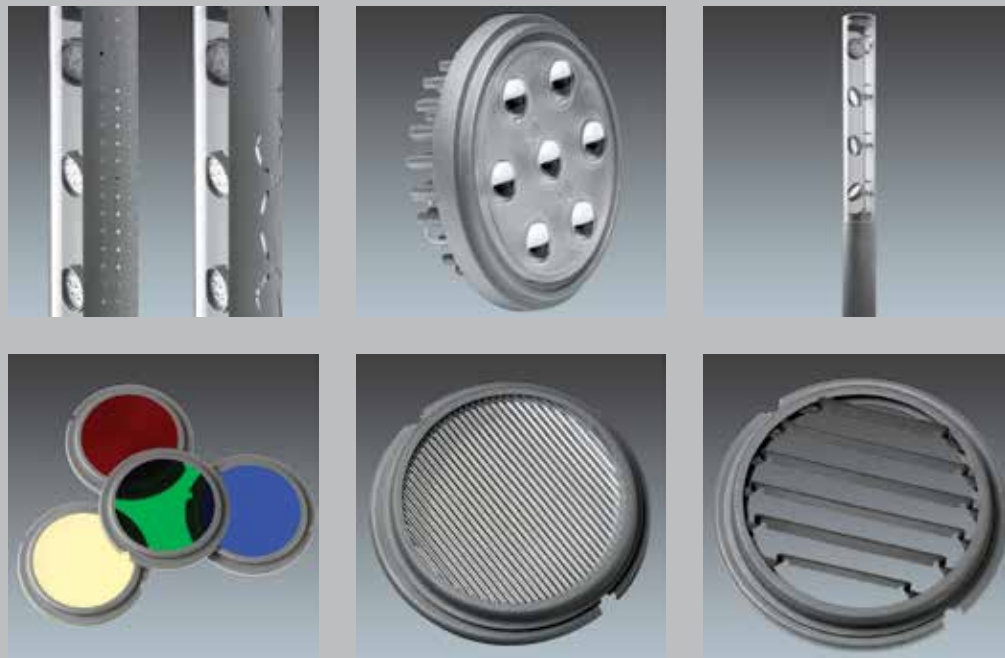
Diffuser: clear UV stabilised PC treated with anti-graffiti varnish
Top cap: die-cast aluminium
Lamp support and frame: aluminium
Spine: steel
Column: extruded aluminium
Accessory: 180° decorative lampshields in aluminium. Other patterns on request.
Optical accessories: Anti-glare louvre(LV), refractor(LR) and colour filters (red, blue, green, yellow)
Top/Column/Frame/Lampshield: powder coated textured silver grey 150 (close to RAL 9006) Other RAL on request.

Installation/Mounting

3 or 4m high columns, flange or root mounted (MGR or MGS). Flange: 400 x 400mm, spacings: 300 x 300mm, bolts 18 x 400 (included). Total height (with lit part of 1.25m): 4.25m or 5.25m Diameter: 200mm. Fixing of the head and lampshield by one single tool. Access to lamps via 2 M6 screws in the top and by removing tool free a spring behind spots frame. Easy settings of spots and accessories with one tool, possibility to combine colour filters and refractor. Electronic gear in IP65 box suspended on the top of the column connected to the head and pre-wired with 4m cable

Specification

To specify state:
IP65 decorative lighting column equipped with multi-rotational spots for 4 x 35W HIR-CE111 or 4 x 17W (84W with driver) LED modules with powder coated aluminium column. As Thorn Alumet Stage.



Lamps

	HIPAR 111 (MR)	GX8.5	35W
	LED		17W

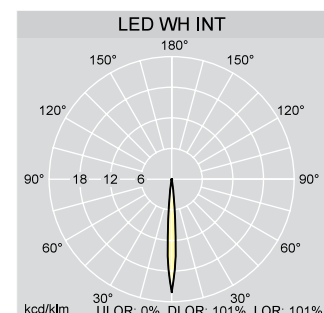
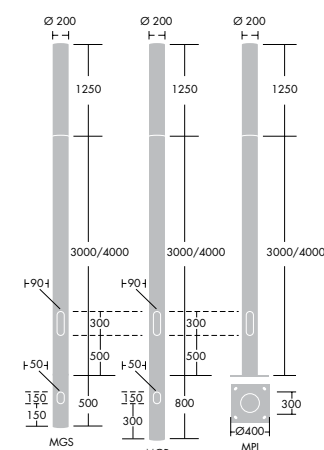
Standards

Ordering Guide

For complete fitting order head, column and LED modules. HIR-CE lamps to be ordered separately. Optical accessories and lampshield sold as accessory.

Description	Wt (kg)	SAP Code	Cat. No.
Head			
ALUMET STAGE LEDS HEAD CL2 CL	17.00	96255204	ALS417
ALUMET STAGE 4X35W HIR-CE111 CL1 CL	17.00	96255203	ALS435
LED modules			
ALUMET STAGE LED 7L70 A INT	0.29	96255224	ALSA17IN
ALUMET STAGE LED 7L70 B INT	0.29	96255221	ALSB17IN
ALUMET STAGE LED 7L70 G INT	0.29	96255222	ALSG17IN
ALUMET STAGE LED 7L70 R INT	0.29	96255223	ALSR17IN
ALUMET STAGE LED 7L70 X74 INT	0.29	96255219	ALSC17IN
ALUMET STAGE LED 7L70 X74 SINT	0.29	96255220	ALSC17SIN
ALUMET STAGE LED 7L70 X36 INT	0.29	96255217	ALSW17IN
ALUMET STAGE LED 7L70 X36 SINT	0.29	96255218	ALSW17SIN
HIR-CE lamps			
HIR111-CE-P 35W/10°/830 GX8,5 PH	0.08	24138688	
HIR111-CE-P 35W/24°/830 GX8,5 PH	0.08	24138689	
HIR111-CE-P 35W/40°/830 GX8,5 PH	0.09	96308742	
Column			
ALUMET COL 3M MGR AL SIL NG	38.00	96259923	AL3RT
ALUMET COL 3M MGS AL SIL NG	35.00	96259918	AL3SPK
ALUMET COL 3M MPL AL FAI SIL NG	35.00	96259919	AL3FP
ALUMET COL 4M MGR AL SIL NG	37.20	96259920	AL4RT
ALUMET COL 4M MGS AL SIL NG	37.20	96259921	AL4SPK
ALUMET COL 4M MPL AL FAI SIL NG	36.00	96259922	AL4FP
Lampshields			
ALUMET LAMPSHIELD 180° ARABESQUE	3.45	96255210	ALALS
ALUMET LAMPSHIELD 180° SQUARE	3.60	96254469	ALSLS
Accessories			
ALUMET STAGE FILTER B	0.08	96255211	ALSFB
ALUMET STAGE FILTER G	0.08	96255213	ALSF
ALUMET STAGE FILTER R	0.08	96255212	ALSFR
ALUMET STAGE FILTER Y	0.08	96255214	ALSFY
ALUMET STAGE LR	0.12	96255215	ALSRW
ALUMET STAGE LV	0.07	96255216	ALSLV

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NEW

Avenue

D² LED



www.thornlighting.co.uk/AVD2

An elegant and efficient LED lantern with a prismatic enclosure to prevent glare and provide a unique, comfortable light



- Choice between asymmetrical and symmetrical light distribution
- Low cost of ownership with a lifetime of 100,000 hours (25°C, L70) and a Bi-power switch as standard
- Complete family with coordinated column, bollard and wall versions

Materials/Finish

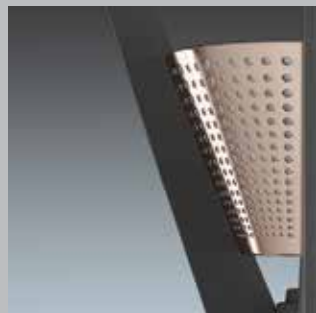
Base and arms: die cast aluminium.
Canopy: spun aluminium.
Finish: powder coated dark sandy grey 900 (close to RAL7043).
Lampshiled: metallised PC with copper or stainless steel, special varnish to prevent ageing effect and preserve the initial gloss appearance.
Diffuser: clear UV stabilised PC with anti glare prisms.
Reflector and mirrors (street distribution): high reflective anodised aluminium.
Screw fixings: stainless steel.

Installation/Mounting

Suitable for post top mounting.
Recommended height: 3/4m, coordinated 3m Avenue conical column made of aluminium. Spigot: 60mm (length: 90mm). Access to gear and LED module (replaceable) via 4 screws from the canopy.
Product supplied with connector below the lantern or pre-wired with 4m cable HO5 RN-F. Delivered ready to install, complete with factory fitted integral gear, all supplied in one box.

Specification

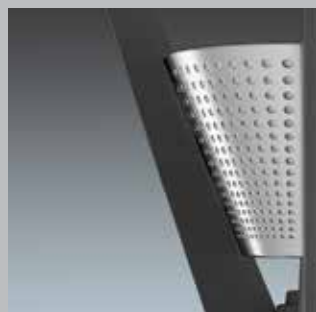
To specify state:
IP66 post top decorative aluminium lantern with 20/30/40W LED packages, powder coated dark grey finish, with prismatic diffuser and a choice of metallised PC copper or stainless steel lampshields. Street or symmetrical distributions, integrated dimming system and coordinated decorative column.
As Thorn Avenue D² LED.



Copper effect lampshield



Bi-power switch



Stainless steel effect lampshield



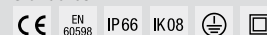
Prismatic diffuser



Lamps

LED 21-40W

Standards

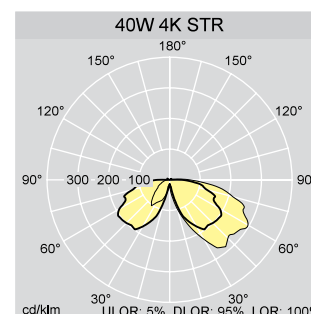
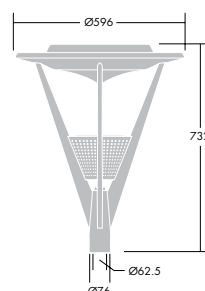
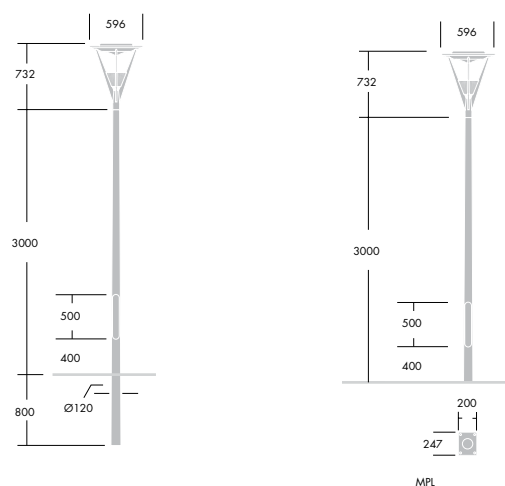


Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Avenue D² LED Symmetrical optic, copper lampshield			
AVENUE D2 LED 18L35 BP 740 CL1 R/S CU	8.60	96261392	AUD24K20B8RC
AVENUE D2 LED 18L50 BP 740 CL1 R/S CU	8.60	96261393	AUD24K30B8RC
AVENUE D2 LED 18L70 BP 740 CL1 R/S CU	8.60	96261394	AUD24K40B8RC
Avenue D² LED Symmetrical optic, stainless steel lampshield			
AVENUE D2 LED 18L35 BP 740 CL1 R/S RS	8.60	96261395	AUD24K20B8RS
AVENUE D2 LED 18L50 BP 740 CL1 R/S RS	8.60	96261396	AUD24K30B8RS
AVENUE D2 LED 18L70 BP 740 CL1 R/S RS	8.60	96261397	AUD24K40B8RS
Avenue D² LED Asymmetrical (street) optic, copper lampshield			
AVENUE D2 LED 18L35 BP 740 CL1 STR CU	8.60	96261398	AUD24K20B8SC
AVENUE D2 LED 18L50 BP 740 CL1 STR CU	8.60	96261399	AUD24K30B8SC
AVENUE D2 LED 18L70 BP 740 CL1 STR CU	8.60	96261400	AUD24K40B8SC
Avenue D² LED Asymmetrical (street) optic, stainless steel lampshield			
AVENUE D2 LED 18L35 BP 740 CL1 STR RS	8.60	96261401	AUD24K20B8SS
AVENUE D2 LED 18L50 BP 740 CL1 STR RS	8.60	96261402	AUD24K30B8SS
AVENUE D2 LED 18L70 BP 740 CL1 STR RS	8.60	96261403	AUD24K40B8SS
Avenue D² LED Columns			
AVENUE 2 COL 3M CCO AL MGR GRY	20.00	96261609	AUD2CC3RT
AVENUE 2 COL 3M CCO AL MPL FAI GRY	20.00	96261608	AUD2CC3FPAB
AVENUE 2 COL 3M CCO AL MPL GRY	20.00	96261607	AUD2CC3FP

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Avenue

F LED



www.thornlighting.co.uk/AVFL

Post top lantern with prismatic crown for reduced glare and distinctive appearance



- State of the art LED system providing comfort, performance and unique light signature
- Choice between asymmetrical and symmetrical light distribution
- Standard dimming to optimise energy consumption
- Complete family with coordinated columns and wall version

Materials/Finish

Base and arms: die cast aluminium (LM6)
Canopy: spun aluminium
Finish: powder coated dark sandy grey 900 (close to RAL7043) for external parts, white RAL9016 for inner parts
Diffuser: clear UV stabilised PC
Mirrors (street distribution): high reflective anodised aluminium
Screw fixings: stainless steel

Installation/Mounting

Post top mounting, spigot Ø60mm (length: 75mm). Recommended height: 3/4m. Dedicated range of columns and brackets. Access to LEDs and gear via 3 screws below the bowl. Pre-wired versions available with connector or 4m H05 VVF cable. Delivered ready to install, complete with factory fitted integral gear, all supplied in one carton.

Specification

To specify state:
IP66 post top decorative lantern with 20/30/40W LED, powder coated dark grey finish, with street or symmetrical optics, integrated dimming system and coordinated decorative columns.
As Thorn Avenue F LED.



Lamps

LED 20-40W

Standards

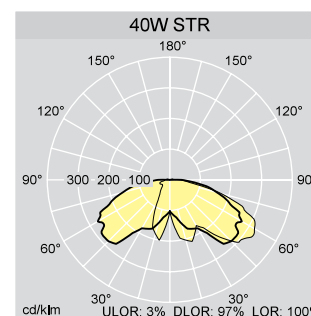
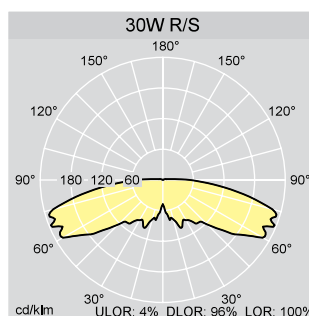
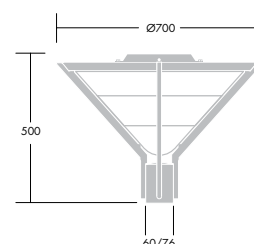
CE EN 60598 IP66 IK08

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Avenue F LED with power reduction			
AVENUE F2 LED 18L35 BP8 740 CL1 D60	9.00	96260128	AUF20B860
AVENUE F2 LED 18L50 BP8 740 CL1 D60	9.00	96260127	AUF30B860
AVENUE F2 LED 18L70 BP8 740 CL1 D60	9.00	96260059	AUF40B860
AVENUE F2 LED 18L70 BP8 740 CL1 D76	9.10	96260021	AUF40B876
AVENUE F2 LED 18L70 BP8 740 CL1 PM D76	9.10	96260022	AUF40B8M76
Avenue F LED with power reduction, street optic			
AVENUE F2 LED 18L35 BP8 740 CL1 STR D60	9.30	96260231	AUF20B8S60
AVENUE F2 LED 18L50 BP8 740 CL1 STR D60	9.30	96260232	AUF30B8S60
AVENUE F2 LED 18L70 BP8 740 CL1 PM STR D76	9.30	96260034	AUF40B8MS76
AVENUE F2 LED 18L70 BP8 740 CL1 STR D60	9.30	96260096	AUF40B8S60
AVENUE F2 LED 18L70 BP8 740 CL1 STR D76	9.20	96260033	AUF40B8S76

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Avenue XL



www.thornlighting.co.uk/AVNX

An elegant post top mounted amenity lantern, with associated columns



- Flat canopy minimises the spread of light above the horizontal
- Variety of perforated lamp shields
- Choice of three matching columns
- Decorative column has choice of copper or steel finished sleeve to match lamp shields

Materials/Finish

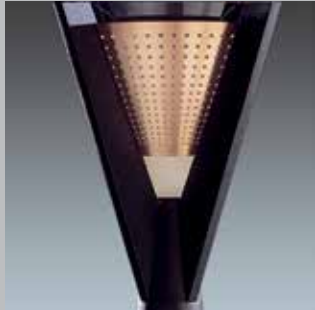
Lantern body: Cast aluminium, powder coated anthracite.
Lantern canopy: Aluminium, powder coated anthracite, reflector powder-coated white.
Lantern bowl: Clear polycarbonate.
Diffuser/lamp shields: Copper-plated steel or stainless steel.
Tapered column: Aluminium, powder coated anthracite.
108mm Ø column: Aluminium, anthracite finish.
Decorative column: Aluminium, anthracite finish, fitted with a 0.9m sleeve, finished in untreated polished copper or satin stainless steel.

Installation/Mounting

Lanterns: Recommended mounting height 3.5m. Suitable for 60mm Ø spigot.
Column: Root or flange plate mounted. Latter supplied with four fixing bolts (JT16/14 x 300).

Specification

To specify lantern state:
Aluminium bodied conical lantern for post top mounting with clear bowl and copper/stainless steel/slotted/holed/lamp shield, finished anthracite.
As Thorn Avenue XL.
To specify column state:
3.5m tapered/108mm Ø/
decorative aluminium column with copper/stainless steel finished sleeve. Supplied for root/flange mounting.
As Thorn Avenue XL column.



Lamps

QPAR (HAPAR) E27 70W

Standards

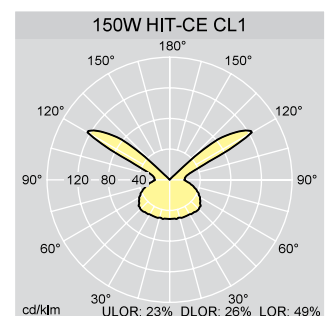
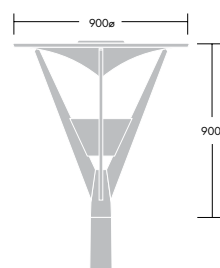
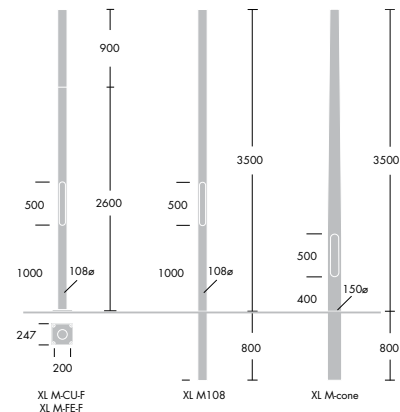
CE EN 60598 IP54 IK08

Ordering Guide

For complete fitting order head, gear tray and column.
Lamp to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Columns			
AVENUE XL COL 3.5M AL MGR CU ANT	20.00	96004421	AUX35RTC
AVENUE XL COL 3.5M AL MGR RS ANT	20.00	96004419	AUX35RTS
AVENUE XL COL 3.5M CU MPL ANT	18.00	96004422	AUX35FPC
AVENUE XL COL 3.5M D108 LN MGR ANT	15.00	96004415	AUX35RT
AVENUE XL COL 3.5M D150 AL MGR CCO ANT	20.00	96004417	AUXCC35RT
AVENUE XL COL 3.5M D150 AL MPL CCO ANT	15.00	96004418	AUXCC35FP
AVENUE XL COL 3.5M RS MPL ANT	18.00	96004420	AUX35FPS
Gears			
AVENUE D/XL TOP 70W HID 2,5KV CL2 ANT	2.36	96253494	AUDX70GT
Heads			
AVENUE XL HEAD E27 RPF/CU CL2 ANT	34.20	96005373	AUXPSC
AVENUE XL HEAD E27 RPF/RS CL2 ANT	34.20	96005371	AUXPSS

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NEW

EP 145 LED



www.thornlighting.co.uk/EPLD

A 19th Century style lantern equipped with LEDs to refurbish traditional streets and historic areas with a durable energy efficient solution



- Traditional black or copper lantern with coordinated columns and brackets to seamlessly integrate into the environment
- Efficient patented glare-free removable LED street optic® with dimming and 3000K / 4000K colour temperatures as standard
- Up to 80,000 hours lamp life (25°C, L80) and low cost of ownership with no lamp maintenance for 20 years
- Quick installation with choice of suspended and post top mountings to cover applications ranging from residential streets to city squares

Materials/Finish

Lantern body: stainless steel, finish black (RAL 9005) or copper with special treatment against corrosion. Lantern top: GRP/Polyester - black and copper finish. Gasket: EPDM Enclosure: tempered glass, 5mm

Installation/Mounting

Post top or suspended mountings. Recommended height: up to 8m.

Post top:

For Wy and 121 consoles through Ø 27G threaded tube.

On steel Meleze columns Ø 60mm with adaptor (code 96006044).

On die-cast columns with threaded spigot.

Suspended:

Fixing on Andely, Le Mail, Beaugency, Wy, 121 brackets through Ø 27G threaded tube.

Suspended pulley for chain attachment (code 96009610) delivered without chain.

Suspended by a black painted steel chain, length: 1.12m (code 96006037).

Universal joint, code 96262636 ensures perpendicular orientation where bracket fixation may not be truly vertical.

Access to replaceable LED plate (driver and led module) via 2 screws after opening the hinged canopy.

Pre-wired 4000lm (56W) with 5 m cables H07-RNF as standard for post top version, 6 m cable on request. Delivered ready to install, complete with factory fitted integral gear, all supplied in one box.

Specification

To specify state:

IP66 post top and suspended 19th century styled stainless steel or copper lantern up to 84W LED 6000lm package, black or copper finish, with street distribution, dimming system, constant light output (CLO) option, and coordinated columns and brackets. As Thorn EP 145 LED.

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
EP 145 LED Post top lantern - Stainless steel black painted			
EP 145 LED 24L35 BP 730 RS/MTP F5M	8.60	96263886	EP3K26B8WPTB
EP 145 LED 24L35 730 RS/MTP F5M	8.60	96263887	EP3K26WPTB
EP 145 LED 24L35 BP 740 RS/MTP F5M	8.60	96263878	EP4K26B8WPTB
EP 145 LED 24L35 740 RS/MTP F5M	8.60	96263879	EP4K26WPTB
EP 145 LED 24L50 BP 730 RS/MTP F5M	8.60	96263902	EP3K38B8WPTB
EP 145 LED 24L50 730 RS/MTP F5M	8.60	96263903	EP3K38WPTB
EP 145 LED 24L50 BP 740 RS/MTP F5M	8.60	96263894	EP4K38B8WPTB
EP 145 LED 24L50 740 RS/MTP F5M	8.60	96263895	EP4K38WPTB
EP 145 LED 24L70 BP 730 RS/MTP F5M	8.60	96263870	EP3K56B8WPTB
EP 145 LED 24L70 730 RS/MTP F5M	8.60	96263871	EP3K56WPTB
EP 145 LED 24L70 BP 740 RS/MTP F5M	9.10	96262079	EP4K56B8WPTB
EP 145 LED 24L70 740 RS/MTP F5M	9.10	96262234	EP4K56WPTB
EP 145 LED 36L70 BP 730 RS/MTP	8.60	96263918	EP3K84B8PTB
EP 145 LED 36L70 730 RS/MTP	8.60	96263919	EP3K84PTB
EP 145 LED 36L70 BP 740 RS/MTP	8.60	96263910	EP4K84B8PTB
EP 145 LED 36L70 740 RS/MTP	8.60	96263911	EP4K84PTB
EP 145 LED Post top lantern - Copper			
EP 145 LED 24L35 BP 730 CU/MTP F5M	10.10	96263889	EP3K26B8WPTC
EP 145 LED 24L35 730 CU/MTP F5M	10.10	96263888	EP3K26WPTC
EP 145 LED 24L35 BP 740 CU/MTP F5M	10.10	96263881	EP4K26B8WPTC
EP 145 LED 24L35 740 CU/MTP F5M	10.10	96263880	EP4K26WPTC
EP 145 LED 24L50 BP 730 CU/MTP F5M	10.10	96263905	EP3K38B8WPTC
EP 145 LED 24L50 730 CU/MTP F5M	10.10	96263904	EP3K38WPTC
EP 145 LED 24L50 BP 740 CU/MTP F5M	10.10	96263897	EP4K38B8WPTC
EP 145 LED 24L50 740 CU/MTP F5M	10.10	96263896	EP4K38WPTC
EP 145 LED 24L70 BP 730 CU/MTP F5M	10.10	96263873	EP3K56B8WPTC
EP 145 LED 24L70 730 CU/MTP F5M	10.10	96263872	EP3K56WPTC
EP 145 LED 24L70 BP 740 CU/MTP F5M	10.60	96262236	EP4K56B8WPTC
EP 145 LED 24L70 740 CU/MTP F5M	10.60	96262235	EP4K56WPTC
EP 145 LED 36L70 BP 730 CU/MTP	10.10	96263921	EP3K84B8PTC
EP 145 LED 36L70 730 CU/MTP	10.10	96263920	EP3K84PTC
EP 145 LED 36L70 BP 740 CU/MTP	10.10	96263913	EP4K84B8PTC
EP 145 LED 36L70 740 CU/MTP	10.10	96263912	EP4K84PTC
EP 145 LED Suspended lantern - Stainless steel black painted			
EP 145 LED 24L35 BP 730 RS/MSU	10.30	96263885	EP3K26B8SB
EP 145 LED 24L35 730 RS/MSU	10.30	96263890	EP3K26SB
EP 145 LED 24L35 BP 740 RS/MSU	10.30	96263877	EP4K26B8SB
EP 145 LED 24L35 740 RS/MSU	10.30	96263882	EP4K26SB
EP 145 LED 24L50 BP 730 RS/MSU	10.30	96263901	EP3K38B8SB
EP 145 LED 24L50 730 RS/MSU	10.30	96263906	EP3K38SB
EP 145 LED 24L50 BP 740 RS/MSU	10.30	96263893	EP4K38B8SB
EP 145 LED 24L50 740 RS/MSU	10.30	96263898	EP4K38SB



How to order EP 145 LED with a bowl



Lamps

LED 26-84W

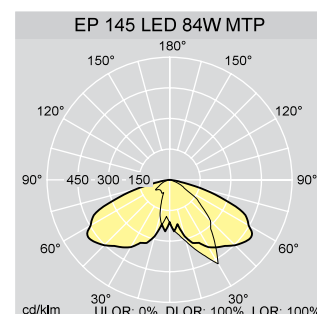
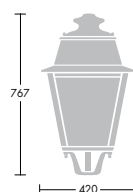
Standards

CE EN 60598 IP66 IK08 T_a25

Description	Wt (kg)	SAP Code	Cat. No.
EP 145 LED Suspended lantern - Stainless steel black painted			
EP 145 LED 24L70 BP 730 RS/MSU	10.30	96263869	EP3K56B8SB
EP 145 LED 24L70 730 RS/MSU	10.30	96263874	EP3K56SB
EP 145 LED 24L70 BP 740 RS/MSU	10.80	96262078	EP4K56B8SB
EP 145 LED 24L70 740 RS/MSU	10.80	96262237	EP4K56SB
EP 145 LED 36L70 BP 730 RS/MSU	10.30	96263917	EP3K84B8SB
EP 145 LED 36L70 730 RS/MSU	10.30	96263922	EP3K84SB
EP 145 LED 36L70 BP 740 RS/MSU	10.30	96263909	EP4K84B8SB
EP 145 LED 36L70 740 RS/MSU	10.30	96263914	EP4K84SB
EP 145 LED Suspended lantern - Copper			
EP 145 LED 24L35 730 CU/MSU	11.80	96263891	EP3K26SC
EP 145 LED 24L35 BP 740 CU/MSU	11.80	96263884	EP4K26B8SC
EP 145 LED 24L35 740 CU/MSU	11.80	96263883	EP4K26SC
EP 145 LED 24L50 BP 730 CU/MSU	11.80	96263908	EP3K38B8SC
EP 145 LED 24L50 730 CU/MSU	11.80	96263907	EP3K38SC
EP 145 LED 24L50 BP 740 CU/MSU	11.80	96263900	EP4K38B8SC
EP 145 LED 24L50 740 CU/MSU	11.80	96263899	EP4K38SC
EP 145 LED 24L70 BP 730 CU/MSU	11.80	96263876	EP3K56B8SC
EP 145 LED 24L70 730 CU/MSU	11.80	96263875	EP3K56SC
EP 145 LED 24L70 BP 740 CU/MSU	12.40	96262239	EP4K56B8SC
EP 145 LED 24L70 740 CU/MSU	12.40	96262238	EP4K56SC
EP 145 LED 36L70 BP 730 CU/MSU	11.80	96263924	EP3K84B8SC
EP 145 LED 36L70 730 CU/MSU	11.80	96263923	EP3K84SC
EP 145 LED 36L70 BP 740 CU/MSU	11.80	96263916	EP4K84B8SC
EP 145 LED 36L70 740 CU/MSU	11.80	96263915	EP4K84SC
EP 145 LED 24L35 BP 730 CU/MSU	11.80	96263892	EP3K26B8SC
EP 145 LED Accessories			
EP 145 LED ECL/AC	2.10	59005231	EPCB
EP 145 LED EDM/AC	1.60	59005230	EPDB
EP CHAIN 1M12/CH	0.70	96006037	EPCH
EP OSCILLATING JOINT COUPLING BLK S27G	0.50	96262636	EPCP
EP PULLEY FIX	0.30	96009610	EPPU
EP76 COL/ADAPTOR	0.80	96227666	EP76
MA D60/27G GALVA + NUT	0.70	96006044	EP60
Andely Single Arm			
ANDELY ARMx1 0,5M D34 S27G		96215489	EPADA534
ANDELY ARMX1 0,5M D42 S27G		96213920	EPADA542
ANDELY ARMX1 0,75M D49 S27G		96215482	EPADA7549
Andely Double Arm			
ANDELY ARMx2 0,50M D42 S27G		96217581	EPADA2542
ANDELY ARMx2 0,75M D49 S27G		96215488	EPADA27527
Andely Single Bracket			
ANDELY BRAX1 0,745M MWA S27G		96002209	EPADB74534
ANDELY BRAX1 0,92M MWA S27G		96215479	EPADB9249

Description	Wt (kg)	SAP Code	Cat. No.
Le Mail Single Arm			
LE MAIL ARMX1 0,65M D49 S27G		96215483	EPLMA6549
LE MAIL ARMX1 0,8M D49 S27G		96215484	EPLMA849
Le Mail Double Arm			
LE MAIL ARMX2 0,65M D49 S27G		96215485	EPLMA26549
LE MAIL ARMX2 0,8M D49 S27G		96215486	EPLMA2849
Le Mail Single Bracket			
LE MAIL BRAX1 0,9M MWA S27G		96215480	EPLMB935
LE MAIL ARMX1 1M MWA S27G		96215481	EPLMB140
Beaugency Brackets			
BEAUGENCY BRA 0,7M MWA S27G		96002210	EPBEB727
BEAUGENCY BRA 0,7M MWA S34G		96012153	EPBEB734
BEAUGENCY BRA 1M MWA S27G		96002211	EPBEB127
Wy Brackets			
WY BRA 0,5M MWA S27G		96002212	EPWYB527
WY BRA 0,5M MWA S34G		96213946	EPWYB534
WY BRA 0,75M MWA S27G		96002208	EPWYB7527
WY BRA 0,75M MWA S34G		96213945	EPWYB7534
WY BRA 1M MWA S27G		96002213	EPWYB127
WY BRA 1M MWA S34G		96213944	EPWYB134
121 Brackets			
121 BRA 1M MWA S27G		96219259	EP12B127

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Gamma

Basique



www.thornlighting.co.uk/GAMB

A robust, classically styled, post-top urban lantern range, ideally suited to residential areas, car parks and precincts



- Vandal resistant version for high risk areas - delivered fully assembled. 40 joules impact resistance
- Sealed to IP65 with hinged gear tray for quick and easy installation

Materials/Finish

Bowl/Diffuser: Injection moulded 5 joules acrylic (vandal resistant version - Polycarbonate) Opal reeded or clear reeded finish (vandal resistant version - clear reeded only)
Base: Die-cast aluminium, dark grey powder coat textured finish
Canopy: Spun aluminium, dark grey powder coat finish with white underside.
Column: 3.2 m galvanised steel column, flange type or 5 m steel column, rooted type.

Installation/Mounting

Post top mounting $\text{Ø}76\text{mm} \times 76\text{mm}$ long spigot and dedicated accessory available to allow $\text{Ø}60\text{mm} \times 100\text{mm}$ long spigot mounting. Recommended mounting height: 4 to 5 metres. Fixes to shaft with 3 x M8 stainless steel screws (supplied). Vandal resistant version supplied fully assembled, complete with clear reeded bowl and small canopy. Flange mounting with 4 anchoring bolts (18 x 400mm).
Root mounting : subterranean cable port is 75 x 150mm, top of port is 500mm below ground level.

Specification

To specify state:
Amenity post top lantern made with die-cast aluminium base in grey power coat, 5 joules acrylic opal/clear reeded bowl/diffuser and canopy in spun aluminium with dark grey powder coat.
As Thorn Gamma Basique.

NEW

Legend



www.thornlighting.co.uk/LGNC

A modern heritage post-top or suspended lantern upgraded with high performance light engines



Lit top effect possible on post top variant



- Beautiful aesthetics with the post top and suspended versions now almost identical for consistency
- Available with LEDs (3800/5000lm) for retrofits and more CPO versions
- Compatible with Bi power, DALI and Telea, providing advanced dimming and control to reduce energy consumption
- The post top lantern is now D60 as standard and available with or without an illuminated top cap

Materials/Finish

Body: die-cast aluminium, powder coated grey 900 textured finish (close to RAL 7043)
Enclosure: flat toughened glass
Reflector: highly reflective anodised aluminium

Installation/Mounting

Post-top mounted (MTP) version on shaft through 3xM8 stainless steel screws on poles with D60mm x 100mm spigot. Suspended (MSU) version fixed through with a 3/4 threaded tube. Recommended mounting heights: 4 to 6m.

Specification

To specify state:
Post-top or suspended 4 arm lantern in die-cast aluminium painted in dark grey, flat toughened glass, with aluminium reflector embodied in an IP65 compartment. Decorative light emission on the top of the lantern / ULOR 0.
As Thorn Legend.



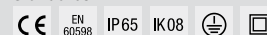
Suspended version



Lamps

	CPO-TW (MT)	PGZ12	45-140W
	HIT-CE (MT)	E40	60-150W
	HIT-CE E27 (MT)	E27	70W
	LED		58-84W

Standards



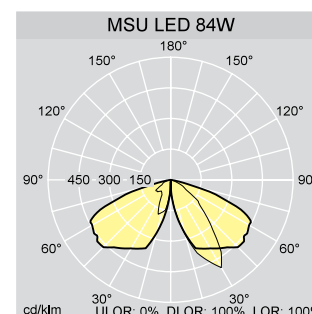
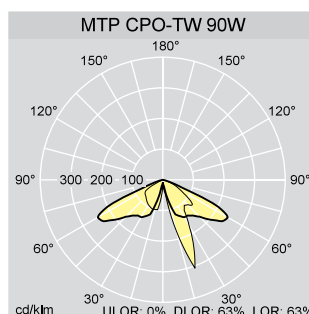
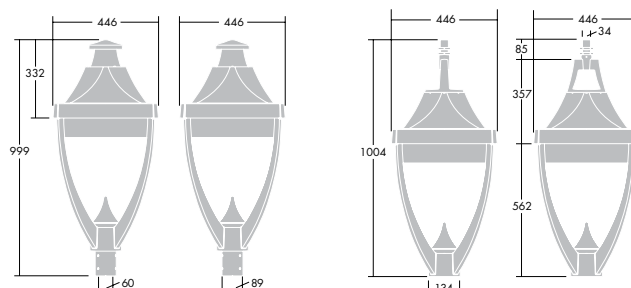
Ordering Guide

All LED versions supplied with LEDs. Class I versions supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Legend Suspended HID			
LEGEND MSU CPO 45W BP8 PM CL1 LI	15.95	96262552	LG45B8M
LEGEND MSU CPO 45W CL1 LI	15.65	96262548	LG45
LEGEND MSU CPO 60W BP8 PM CL1 LI	15.95	96262553	LG60B8M
LEGEND MSU HIT 70W CL1 LI	16.25	96262545	LG70
LEGEND MSU CPO 90W BP8 PM CL1 LI	15.95	96262554	LG90B8M
LEGEND MSU CPO 90W CL1 LI	15.65	96262550	LG90
LEGEND MSU HIT 100W CL1 LI	16.55	96262546	LG100
LEGEND MSU CPO 140W BP8 PM CL1 LI	15.95	96262555	LG140B8M
LEGEND MSU CPO 140W CL1 LI	15.65	96262551	LG140
LEGEND MSU HIT 150W CL1 LI	16.95	96262547	LG150
Legend Suspended, LED			
LEGEND MSU LED 36L50 730 BP8 CL1	16.50	96262559	LG3K58B8
LEGEND MSU LED 36L50 730 BP8 PM CL1	16.50	96262561	LG3K58B8M
LEGEND MSU LED 36L50 730 CL1	16.50	96262557	LG3K58
LEGEND MSU LED 36L50 740 BP8 CL1	16.50	96262558	LG4K58B8
LEGEND MSU LED 36L50 740 BP8 PM CL1	16.50	96262560	LG4K58B8M
LEGEND MSU LED 36L50 740 CL1	16.50	96262556	LG4K58
LEGEND MSU LED 36L70 730 BP8 CL1	16.50	96262565	LG3K84B8
LEGEND MSU LED 36L70 730 BP8 PM CL1	16.50	96262567	LG3K84B8M
LEGEND MSU LED 36L70 730 CL1	16.50	96262563	LG3K84
LEGEND MSU LED 36L70 740 BP8 CL1	16.50	96262564	LG4K84B8
LEGEND MSU LED 36L70 740 BP8 PM CL1	16.50	96262566	LG4K84B8M
LEGEND MSU LED 36L70 740 CL1	16.50	96262562	LG4K84
Legend Post top, closed optic, LED			
LEGEND MTP LED 36L50 730 BP8 CL1 D60	17.50	96262576	LG3K58B8PT
LEG MTP LED 36L50 730 BP8 PM CL1 D60	17.50	96262578	LG3K58B8MPT
LEGEND MTP LED 36L50 740 BP8 CL1 D60	17.50	96262577	LG4K58B8PT
LEG MTP LED 36L50 740 BP8 PM CL1 D60	17.50	96262579	LG4K58B8MPT
LEGEND MTP LED 36L70 730 BP8 CL1 D60	17.50	96262580	LG3K84B8PT
LEG MTP LED 36L70 730 BP8 PM CL1 D60	17.50	96262582	LG3K84B8MPT
LEGEND MTP LED 36L70 740 BP8 CL1 D60	17.50	96262581	LG4K84B8PT
LEG MTP LED 36L70 740 BP8 PM CL1 D60	17.50	96262583	LG4K84B8MPT
Legend Post top, perforated optic, HID			
LEGEND MTP CPO 45W BP8 PM RPF CL1 D60	16.60	96262572	LG45B8MPT
LEGEND MTP CPO 45W BP8 RPF CL1 D60 LI	16.60	96262568	LG45B8PT
LEGEND MTP CPO 60W BP8 RPF CL1 D60 LI	16.60	96262569	LG60B8PT
LEGEND MTP CPO 90W BP8 RPF CL1 D60 LI	16.60	96262570	LG90B8PT
LEGEND MTP CPO 140W BP8 RPF CL1 D60 LI	16.60	96262571	LG140B8PT

Description	Wt (kg)	SAP Code	Cat. No.
Legend LED retrofits, closed optic			
LEGEND GT LED 36L50 730 BP8 CL1	3.10	96262736	LG3K58GTBP
LEGEND GT LED 36L50 730 CL1	3.10	96262732	LG3K58GT
LEGEND GT LED 36L50 740 BP8 CL1	3.10	96262735	LG4K58GTBP
LEGEND GT LED 36L50 740 CL1	3.10	96262731	LG4K58GT
LEGEND GT LED 36L70 730 BP8 CL1	3.10	96262738	LG3K84GTBP
LEGEND GT LED 36L70 730 CL1	3.10	96262734	LG3K84GT
LEGEND GT LED 36L70 740 BP8 CL1	3.10	96262737	LG4K84GTBP
LEGEND GT LED 36L70 740 CL1	3.10	96262733	LG4K84GT

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Plurio



www.thornlighting.co.uk/PLRO

Family of post top lanterns with a wide range of styles and performance features, including avoiding obtrusive light



- Multifaceted optic versions give outstanding illuminance and uniformity
- Canopy avoids obtrusive light (ULOR down to 0% with ULOR 0% accessory). Aluminium lampshield (120°) for 'residential' cut-off available
- Glare avoidance (prisms on clear bowl and optional lamp cowl accessory)
- Sealed to IP66 with aluminium canopy

Materials/Finish

Canopies, base and optic: aluminium
Optics: aluminium multifaceted reflector

Bowl: UV stabilized polycarbonate clear with anti glare prisms

Powder coating: silver grey 150 textured (close to RAL 9006), with dark sandy grey 900 (close to RAL 7043) on bi-colour version

Accessories: Lamp cowl, lampshield 120° made of anodized aluminium, ULOR 0% accessory made of aluminium with a matt black finish

Installation/Mounting

Post top mounting. Spigot: Ø76mm, length 100mm. Recommended height 3/4m. Dedicated range of columns and brackets. Access to lamp and gear via 3 screws below the bowl. Pre-wired versions available with 4m cable (HO5-VVF or HO7-RNF).

Specification

To specify state:

Full IP66 aluminium decorative lantern, powder-coated silver-grey finish, with multifaceted aluminium reflector for 50-100W sodium, 57W compact fluorescent, 70-100W metal halide lamps. Options for mini photocell (with 76mm version), anti-glare and upward light control accessories, bi-colour canopy, dimming system (ZRMU6M) are available.
As Thorn Plurio



Lamps

	HIT-CE (MT)	E40	100W
	HIT-CE E27 (MT)	E27	70W
	HST-MF (ST)	E40	70-100W
	TC-TEL (FSM)	GX24q-5	57W

Standards

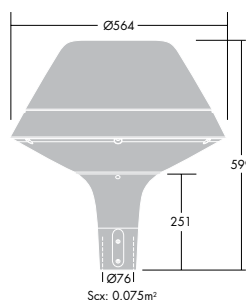
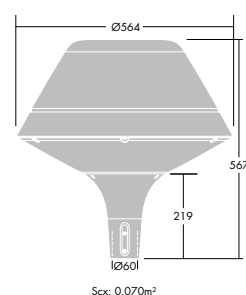
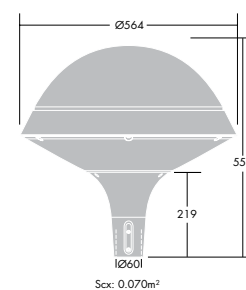
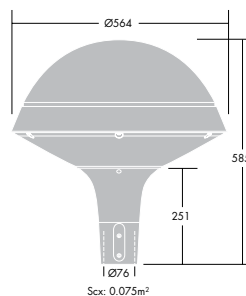


Ordering Guide

Lantern complete with gear in one box. Supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Original canopy, Facetted reflector			
PLURIO OR 57W TC-TEL CL1 ECL D76/L	7.70	96547081	PLF57
PLURIO OR 57W TC-TEL PM CL1 ECL D76/L	8.00	96547086	PLF57M
PLURIO OR 70W HIT 240V PM CL1 ECL D76/L	9.20	96547078	PLM70M
PLURIO OR 70W HST 240V PM CL1 ECL D76/L	9.20	96547223	PLS70M
PLURIO OR 100W HIT 240V CL1 ECL D76/L	9.30	96547075	PLM100
PLURIO OR 100W HIT 240V PM CL1 ECL D76/L	9.60	96547077	PLM100M
PLURIO OR 100W HST 240V CL1 ECL D76/L	9.30	96547221	PLS100
PLURIO OR 100W HST 240V PM CL1 ECL D76/L	9.60	96547222	PLS100M
Round canopy, Facetted reflector			
PLURIO RR 57W TC-TEL CL1 ECL D76/L	7.70	96547071	PLF57R
PLURIO RR 57W TC-TEL PM CL1 ECL D76/L	8.00	96547076	PLF57RM
PLURIO RR 70W HIT 240V PM CL1 ECL D76/L	9.20	96547088	PLM70RM
PLURIO RR 70W HST 240V PM CL1 ECL D76/L	9.20	96547229	PLS70RM
PLURIO RR 100W HIT 240V CL1 ECL D76/L	9.30	96547080	PLM100R
PLURIO RR 100W HIT 240V PM CL1 ECL D76/L	9.60	96547087	PLM100RM
PLURIO RR 100W HST 240V CL1 ECL D76/L	9.30	96547224	PLS100R
PLURIO RR 100W HST 240V PM CL1 ECL D76/L	9.60	96547228	PLS100RM
Accessories			
PLURIO LAMP COWL	0.30	96254522	PLLC
PLURIO LAMP SHIELD 120°	0.50	96254524	PLS120
PLURIO ULOR 0%	0.30	96254523	PLLOR

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Plurio

LED



www.thornlighting.co.uk/PLRL

Post top LED lanterns combining high performance with obtrusive light avoidance; ideal for residential and urban areas



- Outstanding performance and efficiency for renovation of urban and residential areas: up to 86% energy savings vs former solutions!
- No obtrusive light thus preserving the nightscape and the intimacy of inhabitants (ULOR 0% + Street distribution)
- Low cost of ownership: lifetime 100,000h (25°C, L70), integrated dimming (activated by a simple switch by the installer) for further energy savings, easy installation and maintenance
- Coordinates well with the Clan family for a complete urban offer

Materials/Finish

Base and canopy: aluminium (LM6) powder coated silver grey 150 textured (close to RAL 9006) with dark sandy grey 900 (close to RAL 7043) on bicolor version
Diffuser: clear UV stabilized polycarbonate with anti glare prisms on the outer part
Internal reflector and cable pipe: white highly reflective ABS (plastic)
Mirrors (asymmetrical version): high reflective anodised aluminium
Screw fixings: stainless steel

Installation/Mounting

Post top mounting
Spigot: 76mm (length: 100mm)
Recommended height: 3-4m
Dedicated range of columns and brackets
Access to LEDs and gear via 3 screws below the bowl
Pre-wired versions available with 4m cable (HO5VVF2x1.5)
Internal switch to activate power reduction
Delivered in one carton ready to install, complete with factory fitted integral gear.

Specification

To specify lantern state:
IP66 post top decorative aluminium LED lantern with 20/30/40W LED packages, ULOR 0%, powder coated silver grey finish, with street or symmetrical optics and integrated dimming system with internal switch. As Thorn Plurio LED.



Lamps

LED 20-40W

Standards

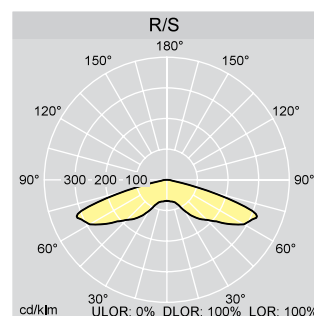
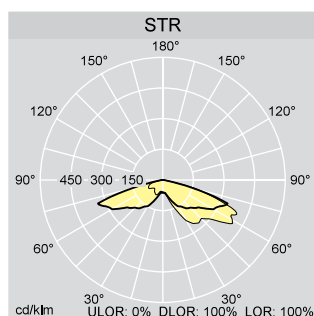
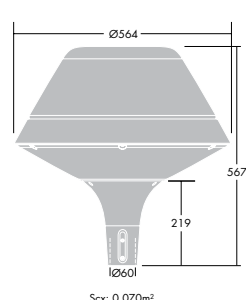
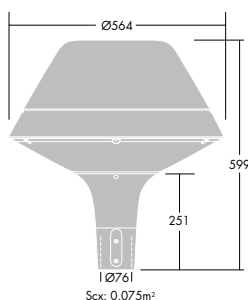
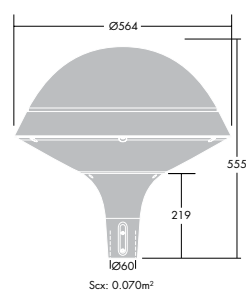
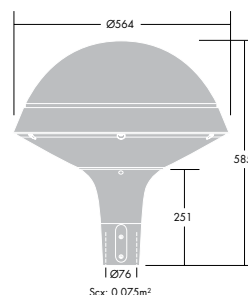
CE EN 60598 IP66 IK08

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Plurio LED Symmetrical optic, original canopy			
PLURIO O LED 4K 20W/BP8 CL1 R/S D60	7.20	96260708	PL20B860
PLURIO O LED 4K 20W/BP8 CL1 R/S D76	7.50	96260709	PL20B876
PLURIO O LED 4K 30W/BP8 CL1 R/S D60	7.20	96260722	PL30B860
PLURIO O LED 4K 30W/BP8 CL1 R/S D76	7.50	96260723	PL30B876
PLURIO O LED 18L70 BP 740 CL1 R/S D60	7.20	96260674	PL40B860
PLURIO O LED 18L70 BP 740 CL1 R/S D76	9.80	96260676	PL40B876
Plurio LED Symmetrical optic, original bi-colour canopy			
PLU O LED 18L70 BP 740 CL1 R/S D76 S/G	7.50	96260684	PL40B876S
PLU O LED 18L70 BP 740 CL1 R/S S/G D60	7.20	96260682	PL40B860S
Plurio LED Symmetrical optic, round canopy			
PLURIO R LED 4K 20W/BP8 CL1 R/S D76	7.50	96260716	PL20RB876
PLURIO R LED 4K 30W/BP8 CL1 R/S D76	7.50	96260730	PL30RB876
PLURIO R LED 18L70 BP 740 CL1 R/S D60	7.20	96260690	PL40RB860
PLURIO R LED 18L70 BP 740 CL1 R/S D76	7.50	96260698	PL40RB876
Plurio LED Street optic, original canopy			
PLURIO O LED 4K 20W/BP8 CL1 STR D76	7.50	96260710	PL20B8S76
PLURIO O LED 4K 30W/BP8 CL1 STR D76	7.50	96260724	PL30B8S76
PLURIO O LED 18L70 BP 740 CL1 STR D60	7.20	96260675	PL40B8S60
PLURIO O LED 18L70 BP 740 CL1 STR D76	7.50	96260677	PL40B8S76
Plurio LED Street optic, original bi-colour canopy			
PLU O LED 18L70 BP 740 CL1 STR D76 S/G	7.50	96260685	PL40B8S76S
PLU O LED 18L70 BP 740 CL1 STR S/G D60	7.20	96260683	PL40B8S60S
Plurio LED Street optic, round canopy			
PLURIO R LED 4K 20W/BP8 CL1 STR D60	7.20	96260715	PL20RB8S60
PLURIO R LED 4K 20W/BP8 CL1 STR D76	7.50	96260717	PL20RB8S76
PLURIO R LED 4K 30W/BP8 CL1 STR D60	7.20	96260729	PL30RB8S60
PLURIO R LED 4K 30W/BP8 CL1 STR D76	7.50	96260731	PL30RB8S76
PLURIO R LED 18L70 BP 740 CL1 STR D60	7.20	96260691	PL40RB8S60
PLURIO R LED 18L70 BP 740 CL1 STR D76	7.50	96260699	PL40RB8S76

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Plurio

Effect



www.thornlighting.co.uk/PLRE

Original architectural lantern to create a soft ambience in parks, promenades and plazas



- At night time, light is visible through the transparent white rings on the canopy creating a welcoming and stylish ambience - ideal for parks or promenades to reveal tree foliage and to provide users with a feeling of safety
- Custom canopy patterns for corporate promotions or special events on request
- No obtrusive light, ULOR < 4%
- Sealed to IP66

Materials/Finish

Canopy: transparent polycarbonate painted externally in grey silver (RAL9006) with internal grey layered printed white filter.

Base: cast aluminium powder coated silver grey textured Akzo 150 (close to RAL9006)

Bowl: clear with external anti glare prisms or opal UV stabilised polycarbonate.

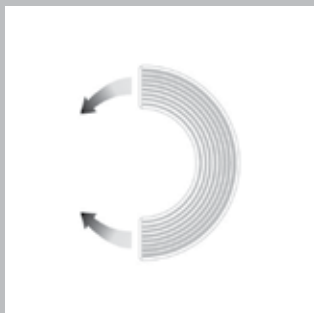
Installation/Mounting

Post top mounting. Spigot Ø60mm x 75mm long. Recommended height 3/4m. Dedicated range of columns and brackets. Access to lamp and gear via 3 screws below the bowl.

Specification

To specify state:

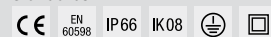
IP66 architectural post top lantern for 70-100W high pressure sodium, 70-100W metal halide lamp made in transparent polycarbonate painted externally in grey silver with internal grey layered printed white PC filter, prismatic bowl and cast aluminium base in coated silver grey. For 60mm spigot, 76mm spigot without adaptor possible on request. Options for anti glare and dimming system with 70W (ZRMU6M) available.
As Thorn Plurio Effect.



Lamps

	HSE (SE)	E27	70W
	HSE/HIE-CE (SE/ME)	E27	70-100W
	HST/HIT-CE (ST/MT)	E27	70W
	TC-TEL (FSM)	GX24q-5	42-57W

Standards

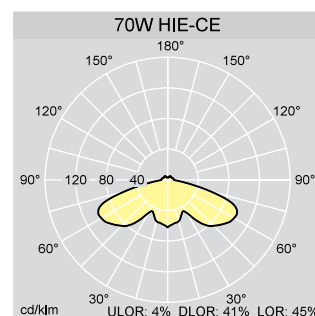
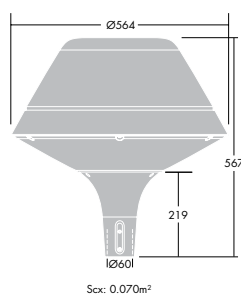


Ordering Guide

Lantern complete with gear in one box. Lamp (preferably powdered ovoide with clear diffuser or clear tubular with lamp cowl) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Plurio Effect			
PLURIO E 26/32/42W TC-TEL CL2 ECL	6.20	96255376	PLEF2642
PLURIO E 57W TC-TEL CL2 ECL	6.20	96254026	PLEF57
PLURIO E 70W HIDE CL1 ECL	6.77	96254032	PLESM70
PLURIO E 70W HID 2,5KV 230V CL1 ECL	7.40	96254031	PLESM70
PLURIO E 70W/BP HSE 230V CL2 ECL	7.60	96254025	PLES70
PLURIO E 100W HID 230V CL1 ECL	7.80	96254033	PLESM100

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NEW

Adelie Bollard



www.thornlighting.co.uk/ADLB

Elegant bollard offering a comfortable light as well as dimming and presence detection options



- Bi power dimming and presence detection options reduce energy consumption
- Available in two sizes – slim and wide – with the wide version also suitable for use as street furniture
- Optional decorative RGB colour band
- Durable and vandal resistant (IK10 60 joules)
- Complements the distinctive Adelie post top lantern

Materials/Finish

Column and base: aluminium (EN AW 6060)

Canopy: die-cast aluminium (EN AC 47100)

Diffuser: clear anti UV Polycarbonate

Reflector: white Polycarbonate

Gear Box: Polypropylene

Canopy and Column colour: powder coated dark grey (close to 7043)

Installation/Mounting

SLIM version: suitable for Root and Flange mounting: 4 x anchor bolts M14 (to be ordered separately)

WIDE version: suitable for Flange mounting: 4 x anchor bolts M14 (to be ordered separately)

Ready to install : prewired fittings to be connected with a connection box (to be ordered separately) through the anti vandal access door (via Torx hollow T30)

For RGB and Bi power versions choose the colour of the decorative led band or deactivate the Bi Power function at installation through the access door.

Gear box (including the driver) and head (including the LEDs) are easily replaceable as spares

Specification

To specify lantern state :

Elegant and vandal resistant bollard offering asymmetric and symmetric distributions, combining both direct and indirect comfortable light, with decorative colour and dimming / presence detection.

As Thorn Adelie Bollard.

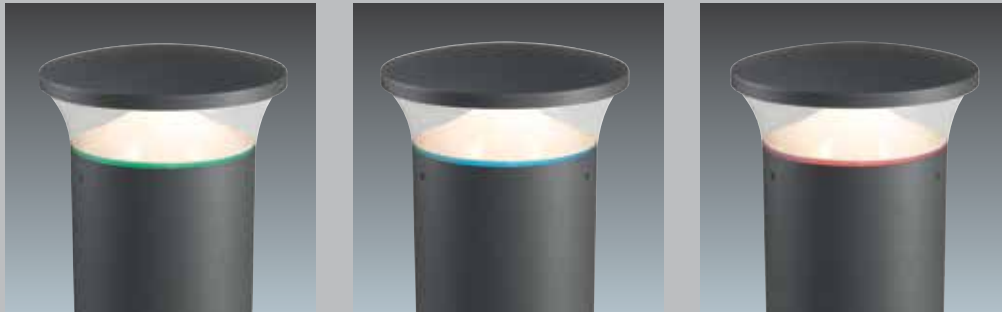
Ordering Guide

Supplied complete with LED

Description	Wt (Kg)	SAP Code	Cat. No.
Adelie Bollard Slim 500mA - Lit band - Flange mounted			
ADELIE B S 10L50 BP8 740 RGB R/S CL1 MPL	7.7	96264197	ADS4K20FB8RSRGB
ADELIE B S 10L50 BP8 740 RGB ASY CL1 MPL	7.7	96264198	ADS4K20FB8ARGB
ADELIE B S 10L50 BP8 730 RGB R/S CL1 MPL	7.7	96264199	ADS3K20FB8RSRGB
ADELIE B S 10L50 BP8 730 RGB ASY CL1 MPL	7.7	96264200	ADS3K20FB8ARGB
Adelie Bollard Slim 500mA - No Lit band - Flange mounted			
ADELIE B S 10L50 BP8 740 R/S CL1 MPL	7.7	96264193	ADS4K20FB8RS
ADELIE B S 10L50 BP8 740 ASY CL1 MPL	7.7	96264194	ADS4K20FB8A
ADELIE B S 10L50 BP8 730 R/S CL1 MPL	7.7	96264195	ADS3K20FB8RS
ADELIE B S 10L50 BP8 730 ASY CL1 MPL	7.7	96264196	ADS3K20FB8A
Adelie Bollard Slim 500mA - Lit Band - Root mounted			
ADELIE B S 10L50 BP8 740 RGB R/S CL1 MGR	9.3	96264213	ADS4K20RB8RSRGB
ADELIE B S 10L50 BP8 740 RGB ASY CL1 MGR	9.3	96264214	ADS4K20RB8ARGB
ADELIE B S 10L50 BP8 730 RGB R/S CL1 MGR	9.3	96264215	ADS3K20RB8RSRGB
ADELIE B S 10L50 BP8 730 RGB ASY CL1 MGR	9.3	96264216	ADS3K20RB8ARGB
Adelie Bollard Slim 500mA - No Lit Band - Root mounted			
ADELIE B S 10L50 BP8 740 R/S CL1 MGR	9.3	96264209	ADS4K20RB8RS
ADELIE B S 10L50 BP8 740 ASY CL1 MGR	9.3	96264210	ADS4K20RB8A
ADELIE B S 10L50 BP8 730 R/S CL1 MGR	9.3	96264211	ADS3K20RB8RS
ADELIE B S 10L50 BP8 730 ASY CL1 MGR	9.3	96264212	ADS3K20RB8A
Adelie Bollard Slim 250mA - Lit Band - Flange mounted			
ADELIE B S 10L25 740 RGB R/S CL1 MPL	7.7	96264229	ADS4K9FRSRGB
ADELIE B S 10L25 740 RGB ASY CL1 MPL	7.7	96264230	ADS4K9FARGB
ADELIE B S 10L25 730 RGB R/S CL1 MPL	7.7	96264231	ADS3K9FRSRGB
ADELIE B S 10L25 730 RGB ASY CL1 MPL	7.7	96264232	ADS3K9FARGB
Adelie Bollard Slim 250mA - No Lit Band - Flange mounted			
ADELIE B S 10L25 740 R/S CL1 MPL	7.7	96264225	ADS4K9FRS
ADELIE B S 10L25 740 ASY CL1 MPL	7.7	96264226	ADS4K9FA
ADELIE B S 10L25 730 R/S CL1 MPL	7.7	96264227	ADS3K9FRS
ADELIE B S 10L25 730 ASY CL1 MPL	7.7	96264228	ADS3K9FA
Adelie Bollard Slim 250mA - Lit Band - Root mounted			
ADELIE B S 10L25 740 RGB R/S CL1 MGR	9.3	96264245	ADS4K9RRSRGB
ADELIE B S 10L25 740 RGB ASY CL1 MGR	9.3	96264246	ADS4K9RARGB
ADELIE B S 10L25 730 RGB R/S CL1 MGR	9.3	96264247	ADS3K9RRSRGB
ADELIE B S 10L25 730 RGB ASY CL1 MGR	9.3	96264248	ADS3K9RARGB



On relevant variants: Rotate switch to choose the colour of the decorative band, accessible through an anti-vandal access door.



Lamps

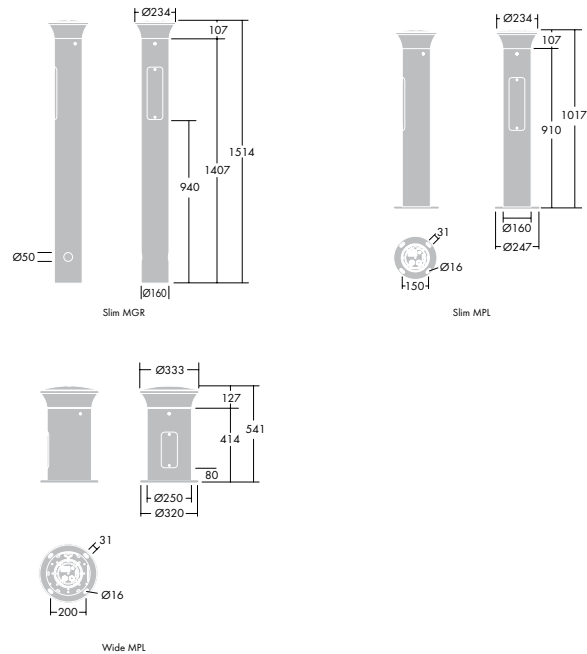
LED 75 Llm/W

Standards



Description	Wt (Kg)	SAP Code	Cat. No.
Adelle Bollard Slim 250mA - No Lit Band - Root mounted			
ADELIE B S 10L25 740 R/S CL1 MGR	9.3	96264241	ADS4K9RRS
ADELIE B S 10L25 740 ASY CL1 MGR	9.3	96264242	ADS4K9RA
ADELIE B S 10L25 730 R/S CL1 MGR	9.3	96264243	ADS3K9RRS
ADELIE B S 10L25 730 ASY CL1 MGR	9.3	96264244	ADS3K9RA
Adelle Bollard Slim - Presence Detection Master - Flange mounted			
ADELIE B S 10L25 MAS 740 RGB R/S CL1 MPL	7.9	96265399	ADS4K9FPMRSRGRB
ADELIE B S 10L25 MAS 740 RGB ASY CL1 MPL	7.9	96265400	ADS4K9FPMARGB
ADELIE B S 10L25 MAS 730 RGB R/S CL1 MPL	7.9	96265401	ADS3K9FPMRSRGRB
ADELIE B S 10L25 MAS 730 RGB ASY CL1 MPL	7.9	96265402	ADS3K9FPMARGB
Adelle Bollard Slim - Presence Detection Master - Root mounted			
ADELIE B S 10L25 MAS 740 RGB R/S CL1 MGR	9.5	96265407	ADS4K9RPMRSRGRB
ADELIE B S 10L25 MAS 740 RGB ASY CL1 MGR	9.5	96265408	ADS4K9RPMARGB
ADELIE B S 10L25 MAS 730 RGB R/S CL1 MGR	9.5	96265409	ADS3K9RPMRSRGRB
ADELIE B S 10L25 MAS 730 RGB ASY CL1 MGR	9.5	96265410	ADS3K9RPMARGB
Adelle Bollard Slim - Presence Detection Slave - Flange mounted			
ADELIE B S 10L25 SLA 740 RGB R/S CL1 MPL	7.7	96265415	ADS4K9FPSRSRGRB
ADELIE B S 10L25 SLA 740 RGB ASY CL1 MPL	7.7	96265416	ADS4K9FPSARGB
ADELIE B S 10L25 SLA 730 RGB R/S CL1 MPL	7.7	96265417	ADS3K9FPSRSRGRB
ADELIE B S 10L25 SLA 730 RGB ASY CL1 MPL	7.7	96265418	ADS3K9FPSARGB
Adelle Bollard Slim - Presence Detection Slave - Root mounted			
ADELIE B S 10L25 SLA 740 RGB R/S CL1 MGR	9.3	96265423	ADS4K9RPSRSRGRB
ADELIE B S 10L25 SLA 740 RGB ASY CL1 MGR	9.3	96265424	ADS4K9RPSARGB
ADELIE B S 10L25 SLA 730 RGB R/S CL1 MGR	9.3	96265425	ADS3K9RPSRSRGRB
ADELIE B S 10L25 SLA 730 RGB ASY CL1 MGR	9.3	96265426	ADS3K9RPSARGB
Adelle Bollard Wide - Lit Band - Flange mounted			
ADELIE B W 10L25 740 RGB R/S CL1 MPL	9.0	96264261	ADW4K9FRSRGRB
ADELIE B W 10L25 740 RGB ASY CL1 MPL	9.0	96264262	ADW4K9FARGB
ADELIE B W 10L25 730 RGB R/S CL1 MPL	9.0	96264263	ADW3K9FRSRGRB
ADELIE B W 10L25 730 RGB ASY CL1 MPL	9.0	96264264	ADW3K9FARGB
Adelle Bollard Wide - No Lit Band - Flange mounted			
ADELIE B W 10L25 740 R/S CL1 MPL	9.0	96264257	ADW4K9FRS
ADELIE B W 10L25 740 ASY CL1 MPL	9.0	96264258	ADW4K9FA
ADELIE B W 10L25 730 R/S CL1 MPL	9.0	96264259	ADW3K9FRS
ADELIE B W 10L25 730 ASY CL1 MPL	9.0	96264260	ADW3K9FA
Anchor Bolts - Flange mounting			
FA M14X200/50	0.28	96009822	BSAB

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Promenade



www.thornlighting.co.uk/PMLD

Elegant, robust circular bollard and parapet luminaire for various lamp types, including white and coloured LEDs



- Expresses safety, strength and harmony in urban lighting applications
- Optimised output ensures no obtrusive light
- Low voltage LEDs for energy savings, long life and reduced maintenance. Other lamp types available
- LED module available for retrofitting within an existing bollard

Materials/Finish

Head and body: powder coated die-cast aluminium LM6, anthracite (close to RAL 7024)
Top cone: opal polycarbonate
Diffuser: clear polycarbonate with internal sand blasted anti-glare band

Installation/Mounting

Flange mounting plate or support root or spike mounting. LED module and power supply can be retrofitted into an existing bollard. Looping possible, fixing bolts not supplied, terminal block 5x6mm².

Specification

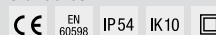
To specify state:
Decorative aluminium bollard with clear diffuser including a sand blasted band and with a small luminous cone. Employs 70W HSE-I, 42W TC-TEL lamps or complete with 18 x 1.2W LEDs. Parapet/flange/root/spike mounted.
As Thorn Promenade.



Lamps

	HSE-I (SE/I)	E27	70W
	LED		20W
	TC-TEL (FSM)	GX24q-4	42W

Standards

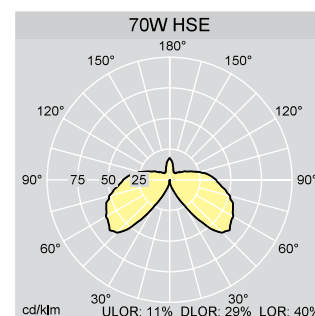
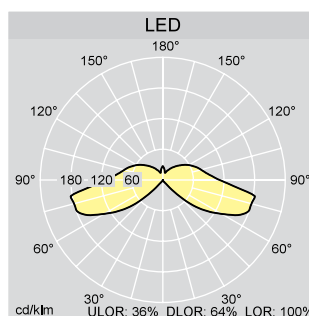
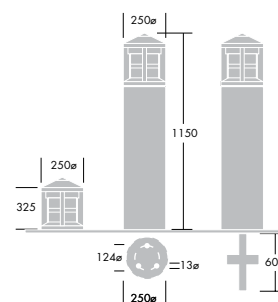


Ordering Guide

Supplied complete with lamps/LEDs. For root mounting select flange mount bollard and spike accessory

Description	Wt (kg)	SAP Code	Cat. No.
Promenade Flange mounted			
PROMENADE BOL LED WHI/AMB 1150MM MPL ANT	12.00	96250884	PMFAFP
PROMENADE BOL LED WHI/BLU 1150MM MPL ANT	12.00	96250887	PMFBFP
PROMENADE BOL LED WHI/GRN 1150MM MPL ANT	12.00	96250886	PMFGFP
PROMENADE BOL LED WHI/RED 1150MM MPL ANT	12.00	96250885	PMFRFP
PROMENADE BOL LED WHI/WHI 1150MM MPL ANT	12.00	96252596	PMFFP
PROMENADE 42W TC-TEL HF 1150MM MPL ANT/L	15.00	96547091	PMF42FP
PROMENADE 70W HSE-I 1150MM MPL ANT/L	15.00	96547090	PMF70FP
Promenade Parapet mounted			
PROMENADE BOL LED WHI/AMB 325MM MPL ANT	7.40	96231685	PMPAFP
PROMENADE BOL LED WHI/BLU 325MM MPL ANT	7.40	96231682	PMPBFP
PROMENADE BOL LED WHI/GRN 325MM MPL ANT	7.40	96231683	PMPGFP
PROMENADE BOL LED WHI/RED 325MM MPL ANT	7.40	96231684	PMPRFP
PROMENADE BOL LED WHI/WHI 325MM MPL ANT	7.40	96252597	PMPPF
PROMENADE 42W TC-TEL HF L325 ANT/L	7.20	96547089	PMP42
Promenade Root mounted attachments			
MGR BASE PROM/AVENUE/MADISON/DCO	10.00	96100253	PMB1RT
MGR SPIKE PROM/AVENUE/MADISON/DCO	10.00	96005367	PMB2RT
Promenade Gears and parts for retrofit			
PROMENADE GT 1150MM LED WHI/AMB	1.70	96231680	PMAGT
PROMENADE GT 1150MM LED WHI/BLU	1.70	96231677	PMBGT
PROMENADE GT 1150MM LED WHI/GRN	1.70	96231679	PMGGT
PROMENADE GT 1150MM LED WHI/RED	1.70	96231678	PMRGT

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Avenue Deco Bollard



www.thornlighting.co.uk/AVDB

Elegant bollard, complementing the Avenue Deco lantern and column range



Lamps

TC-D (FSQ) G24d-3 26W

Standards



- Bollard versions for flange, root or parapet mounting
- Characteristic cross design divides the light from the cone
- Sealed to IP54 with aluminium body

Materials/Finish

Bollard: top and column of cast/extruded aluminium, powder-coated anthracite (close to RAL 7024). Diffuser: sandblasted polycarbonate.

Installation/Mounting

Root mounted version 450mm into the ground via ground spike to be ordered separately. Flange mounted version uses bollard base as flange plate - fixes via four Ø10 mm holes at 140mm x 140mm centres. Anchor bolts 8x120mm to be ordered separately. 5 way terminal block for 6 mm² conductors. Looping possible. Integral control gear.

Specification

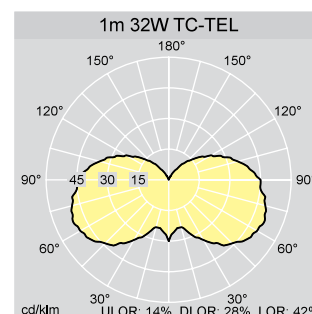
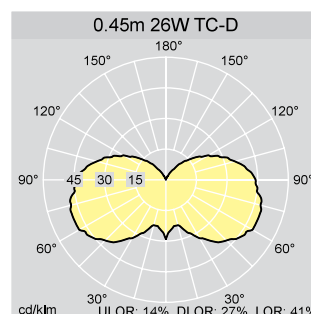
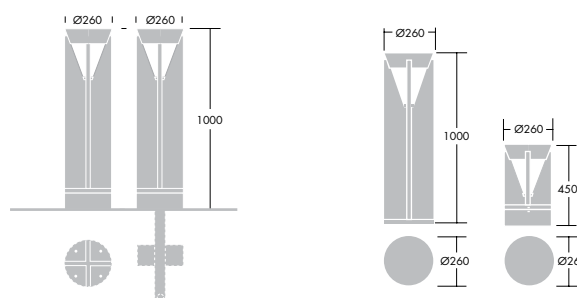
To specify state :
Aluminium bollard for root/flange mounting with conical sandblasted diffuser employing 26W TC-D, 26/32W TC-TEL lamp.
As Thorn Avenue Deco Bollard.

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Avenue Deco Bollard (1m)			
AVENUE BOL 26W TC-D LO 1M CL1 MPL ANT/L	16.50	96546643	AU26BOL1FP
Avenue Deco Parapet (0.45m)			
AVENUE BOL 26W TC-D 240V CL1 450MM MPL/L	11.00	96546644	AU26BOL4FP
Avenue Deco Attachment			
MGR BASE PROM/AVENUE/MADISON/DCO	10.00	96100253	PMB1RT
MGR SPIKE PROM/AVENUE/MADISON/DCO	10.00	96005367	PMB2RT

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Basalt



www.thornlighting.co.uk/BSLT

Complementary, unobtrusive and robust bollards



Lamps

HSE (SE) E27 50-70W

Standards

CE EN 60598 IP54 IK10

- Aluminium castings and polycarbonate visor
- Sealed to IP54
- Head retained by recessed tamper-resistant bolt
- Low glare

Materials/Finish

Body: extruded LM6 aluminium, powder coated black finish (RAL 9005)

Head: LM6 aluminium castings, powder coated black finish

Optics: anodised high purity aluminium concentric louvres protected by UV stabilised polycarbonate sleeve

Retaining bolt: small triangular headed bolt in recess, supplied with special key
Gear tray: zinc plated steel.

Installation/Mounting

Standard version is root and flange mounted and has an underground cable entry slot. Termination bar has provision for looping and includes an earthing point. Gear tray has plug and socket connection. Lamp and head unit secured by triangular headed tamper-resistant bolt. 250mm flange plate version fixes via four Ø15mm holes at 150mm centres (bolts Ø14 x 200mm not supplied - code 96009822) with a Ø60mm central hole for wiring.

Specification

To specify state:

Circular section bollard of high vandal resistance with polycarbonate sleeves covering high purity anodised aluminium louvre optical system, with single triangular tamper resistant bolt for access to lamp and gear. Sealed to IP54.

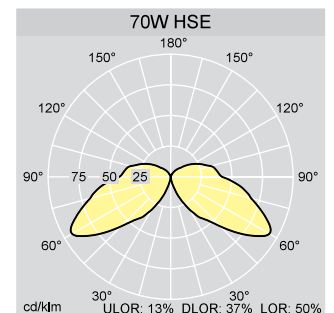
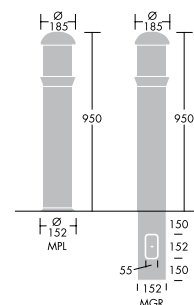
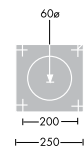
As Thorn Basalt

Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Basalt H Bollard			
BASALT H 1295MM MGR	7.30	96012109	BSRT
BASALT H 840MM MPL	6.30	96012108	BSFP
FA M14X200/50	0.28	96009822	BSAB
Basalt Gear			
BASALT GT 50W 240V HSE-E/L	1.80	96546658	BS50
BASALT GT 70W 240V HSE-E/L	1.80	96546657	BS70

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Lamps

	HSE (SE)	E27	50W
	TC-D (FSQ)	G24d-2	18W

Standards



- Simple design that appears unobtrusive in the landscape
- Choice of fresnel lens or louvre optic to optimise comfort and performance
- Robust construction

Materials/Finish

Head: die-cast aluminium, painted textured grey close to RAL7043). Optic: fresnel lens in clear polycarbonate or aluminised plastic louvres protected by clear polycarbonate sleeve. Post: Aluminium, finished textured grey.

Installation/Mounting

Flange or root mounting, latter option embeds 450mm into the ground. 250mm flange plate version fixes via four Ø15mm holes at 200mm centres. Ø60mm central hole for wiring. Three way terminal block for 2 x 4mm² cable.

Specification

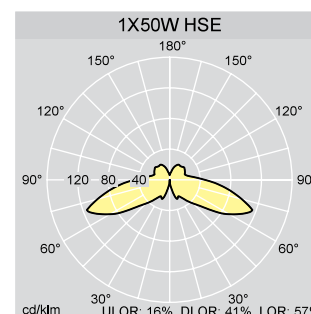
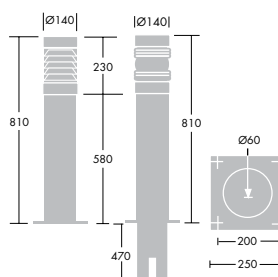
To specify state:
Circular section aluminium bollard with louvred/fresnel lens head.
Root/flange mounted.
As Thorn Chartor.

Ordering Guide

Order head, gear and post for complete fitting. Supplied complete with lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Heads			
CHARTOR HEAD LF	1.35	96011221	CAFL
CHARTOR HEAD LV	1.62	96011222	CALV
Gears			
CHARTOR GT 18W TC-D/L		96546803	CA18
CHARTOR 50W HSE AE/L		96546804	CA50
Posts			
CHARTOR MGR	3.44	96011247	CABOLRT
CHARTOR MPL	3.01	96011220	CABOLFP

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NEW

Tea



www.thornlighting.co.uk/TEA1

Stylish yet robust bollard enhancing urban areas



Lamps

LED 12-19W

Standards

CE EN 60598 IP65 650°C

OUTDOOR LIGHTING

- Contemporary design which is easy to integrate into urban environments
- Robust, solid shape provides vandal resistant solution
- A choice of two distribution versions (performance and visual guidance) with an optimised ULOR of 0 and asymmetric optic which reduces obtrusive light and glare
- LEDs offer low energy consumption, long lifetime and reduced maintenance

Materials/Finish

Body and bezel: stainless steel, electro-plated zinc
 Diffuser: clear 5mm polycarbonate plate
 Body and bezel colours: black (RAL 9005)

Installation/Mounting

Flange mounted. 500mm root to be fixed into concrete base. 800mm root to be fixed into the ground.
 Access door for connection box (not provided).

Specification

To specify state:
 Decorative steel bollard with clear diffuser and asymmetrical light distribution. Employs 5x2.4W LEDs (15W) / 8x2W (19W). Flange or root mounted.
 As Thorn Tea.

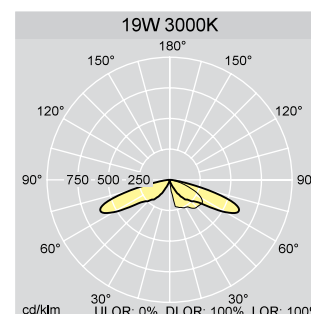
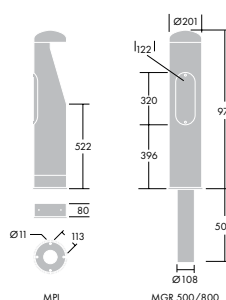
Ordering Guide

Supplied complete with LEDs. For flange mounting order the body and MPL base. For root mounting order the body and the MGR 500 or MGR 800 base.

Description	Wt (kg)	SAP Code	Cat. No.
Tea Body			
TEA BODY LED 5L70 830 BK CLI	12.00	96210188	TE3K15
TEA BODY LED 8L70 730 BK CLI	12.00	96210181	TE3K19
TEA BODY LED 8L70 740 BK CLI	12.00	96220726	TE4K19
Tea Base			
TEA BASE MGR 500	0.10	96210183	TE5RT
TEA BASE MGR 800	9.65	96210184	TE8RT
TEA BASE MPL	0.10	96210182	TEFP

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URBAN AMENITY LIGHTING



OUTDOOR LIGHTING



Street Lighting



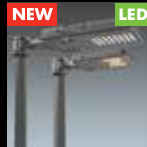
CA 5000
422



Jet
456



Celest
423



NEW **LED** Olsys Street
458



Civic
425



Oracle
460



LED Clan C
436



Orus
464



LED Clan O
440



LED Oxane
466



Dyana
444



NEW **LED** Oxane L
468



NEW **LED** Dyana LED
446



LED StyLED
470



LED Indra
448



NEW Isaro
450



NEW **LED** Isaro LED
453

Olivet, France

CA 5000



www.thornlighting.co.uk/CA5K

A rectangular luminaire with outstanding lighting performance.



Lamps

HST (ST) E40 150-250W

Standards

CE EN 60598 IP54 IK07

- Timeless rectangular shape design with easy integration in the urban landscape
- Suitable for a wide range of applications, such as: secondary roads, city streets, roundabouts, car parks, cycle paths and pedestrian areas
- Flat glass design eliminates upward light
- Post top, side entry or wall mounting possibilities

Materials/Finish

Body: Extruded aluminium sides, sheet aluminium top, finished in black. Lens: Toughened soda lime glass.

Optical system: One piece, high purity, anodised aluminium reflector with adjustable lamp holder. Gear tray: Hinged, extruded aluminium, finished black polyester powder coat.

Mounting block: LM6 aluminium with stainless steel bolts and grey polypropylene cover.

Installation/Mounting

Post top or side entry mounting. Adjustable support casting allows post top mounting on 60mm Ø x 100mm long min. or side entry on 60mm Ø x 290mm long min. arm. Recommended height 5-10m.

Specification

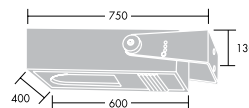
To specify state: Aluminium bodied rectangular lantern with one piece, high performance, anodised aluminium reflector and flat glass lens. As Thorn CA5000.

Ordering Guide

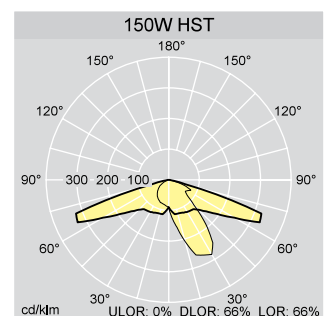
For complete fitting order body and gear tray. Lamps to be ordered separately.

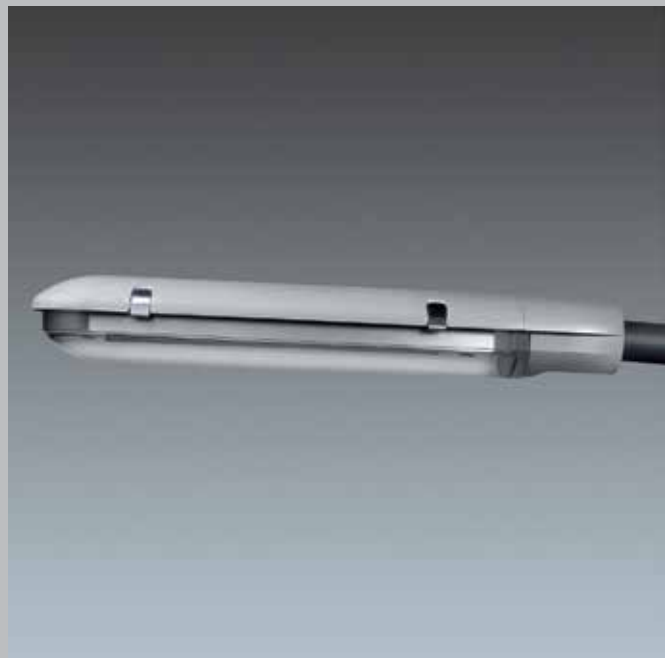
Description	Wt (kg)	SAP Code	Cat. No.
CA 5000 Body			
CA5000 5D MTP BLK	9.80	96009889	C5PT
CA 5000 Gear trays			
CA5000 5D GT 150W HST 240V CL1 BLK	2.70	96215818	C5150GT
CA5000 5D GT 250W HST 240V CL1 BLK	4.10	96215819	C5250GT

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Scx: 0.26m²





Lamps

TC-L (FSDH) 2G11 36-80W

Standards



EN 60598



IP66

IK08

IK10



- High performance optic optimises TC-L technology (operating from electronic gear) with high energy savings. Suitable for a variety of applications including: secondary roads, bicycle paths, building surroundings, large spaces and vehicle parks
- Modern and compact lantern engineered to last in any setting and designed with environmental respect and sustainability
- Full IP66 protection of all components with durability and vandal resistance through aluminium and stainless steel construction with polycarbonate enclosure
- Supplied complete and ready to install

Materials/Finish

Body/Spigot/Spigot canopy: die-cast aluminium powder coated RAL9006

Enclosure: UV stabilised polycarbonate

Reflector: high purity anodised aluminium

Gear plate: galvanised steel

Enclosure gasket: neoprene

Nema socket gasket: silicone

Installation/Mounting

Integral tool-free rotating spigot secured by 2 screws with safety bolts. Lateral side entry Ø34-60mm x 120mm long spigot. Tilted to 0°. Post-top mounting: Ø60/76mm x 80mm long spigot. Tilted to 5°. Cable gland for 8mm to 13mm cable. Tool-free access to lamp and gear after opening the enclosure via 2 stainless steel clips. Gear is removed tool-free with retaining straps leaving hands free for wiring. All connections are plug and socket. Delivered ready to install, complete with factory fitted integral gear, all supplied in a single carton (lamp included).

Specification

To specify state:
Full IP66 aluminium streetlighting lantern for 36 to 80W TC-L lamps. From 34mm side entry to 76mm post-top mounting aided by integral rotating spigot. Tool-free maintenance of gear and lamp. With options for photocells and outdoor lighting controls.
As Thorn Celest



Range of aluminium bodied, IP66 rated, high performance road lanterns; in two sizes for 50-250W lamps



Lamps

	CPO-TW (MT)	PGZ12	60-140W
	HIT-CE (MT)	E40	70-150W
	HIT-CE E27 (MT)	E27	70W
	HST (ST)	E40	70-250W
	HST-MF (ST)	E27	50-70W
	TC-TELI (FSM)	GX24q-5	57W
	HIT (MT)	E40	250W

Standards



- Compact luminaire with separate lamp and gear compartments for optimised thermal and sealing management
- Special vandal resistance features against shocks and tamper attempts
- Economical in use with easy installation, fast maintenance and energy savings programs
- Two sizes, two enclosures (flat glass or shallow PC bowl)

Specification

To specify state:
Double rated IP66 aluminium road lighting fitting. For 50W to 250W lamps. From Ø34mm side to Ø76mm top mounting with integral rotating spigot. Tool free access to and removal of lamp and gear tray. With options for photocells, electronic gears, dimming and lighting management system. With vandal resistant extra features. As Thorn Civic

Ordering Guide

Supplied complete with lamps

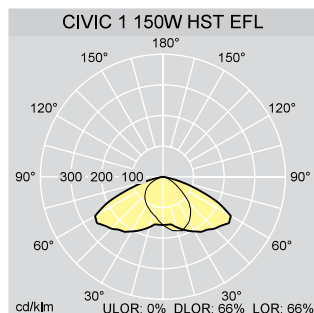
Description	Wt (kg)	SAP Code	Cat. No.
Civic Size 1, flat glass			
CIVIC 1 70W HIT 240V CL1 EFL PN/L	8.40	96259417	CV1M70FGN
CIVIC 1 70W HIT 240V CL1 EFL/L	6.60	96259410	CV1M70FG
CIVIC 1 70W HST 240V CL1 EFL PN/L	8.40	96259503	CV1S70FGN
CIVIC 1 70W HST 240V CL1 EFL/L	6.60	96259498	CV1S70FG
CIVIC 1 100W HIT 240V CL1 EFL PN/L	7.60	96259430	CV1M100FGN
CIVIC 1 100W HST 240V CL1 EFL PN/L	7.60	96259508	CV1S100FGN
CIVIC 1 150W HIT 240V CL1 EFL PN/L	8.10	96259413	CV1M150FGN
CIVIC 1 150W HIT 240V CL1 EFL/L	8.40	96259406	CV1M150FG
CIVIC 1 150W HST 240V CL1 EFL PN/L	8.10	96259500	CV1S150FGN
CIVIC 1 150W HST 240V CL1 EFL/L	8.40	96259494	CV1S150FG
Civic Size 1, flat glass, electronic gear			
CIVIC 1 60W CPO-TW CL1 EFL PM/L	6.60	96259473	CV160FGZM
CIVIC 1 70W HST DGE CL1 EFL PM/L	6.20	96259436	CV1S70FGZM
CIVIC 1 70W HST DGE CL1 EFL PN/L	6.50	96259467	CV1S70FGZN
CIVIC 1 70W HST DGE CL1 EFL/L	7.20	96259415	CV1S70FGZ
CIVIC 1 70W HIT DGE CL1 EFL PN/L	6.50	96259443	CV1M70FGZN
CIVIC 1 70W HIT DGE CL1 EFL/L	7.00	96259421	CV1M70FGZ
CIVIC 1 100W HIT DGE CL1 EFL PN/L	6.80	96259431	CV1M100FGZN
CIVIC 1 100W HIT DGE CL1 EFL/L	7.50	96259420	CV1M100FGZ
CIVIC 1 100W HST DGE CL1 EFL PN/L	6.80	96259509	CV1S100FGZN
CIVIC 1 100W HST DGE CL1 EFL/L	7.50	96259505	CV1S100FGZ
CIVIC 1 150W HIT DGE CL1 EFL PM/L	6.60	96259429	CV1M150FGZM
CIVIC 1 150W HIT DGE CL1 EFL PN/L	6.80	96259446	CV1M150FGZN
CIVIC 1 150W HIT DGE CL1 EFL/L	6.50	96259425	CV1M150FGZ
CIVIC 1 150W HST DGE CL1 EFL/L	6.50	96259506	CV1S150FGZ
CIVIC 1 150W HST-DGE CL1 EFL PM/L	6.40	96259449	CV1S150FGZM
CIVIC 1 150W HST-DGE CL1 EFL PN/L	6.70	96259445	CV1S150FGZN
Civic Size 1, shallow bowl			
CIVIC 1 50W HST 240V CL1 ESH PN RES/L	6.40	96259419	CV1S50NR
CIVIC 1 50W HST 240V CL1 ESH PN/L	6.40	96259454	CV1S50N
CIVIC 1 50W HST 240V CL1 ESH RES/L	6.40	96259438	CV1S50R
CIVIC 1 50W HST 240V CL1 ESH/L	6.10	96259453	CV1S50
CIVIC 1 70W HIT 240V CL1 ESH PM RES VR/L	5.90	96259478	CV1M70VMR
CIVIC 1 70W HIT 240V CL1 ESH PN RES/L	7.10	96259427	CV1M70NR
CIVIC 1 70W HIT 240V CL1 ESH PN/L	8.00	96259416	CV1M70N
CIVIC 1 70W HIT 240V CL1 ESH RES VR/L	6.80	96259414	CV1M70VR
CIVIC 1 70W HIT 240V CL1 ESH/L	7.50	96259409	CV1M70
CIVIC 1 70W HST 240V CL1 ESH PN RES/L	7.10	96259507	CV1S70NR

Materials/Finish

Body, canopy and spigot: die-cast aluminium
Enclosures: UV stabilised polycarbonate or toughened glass
Screws and clip: stainless steel
Finish: powder coated grey (RAL 9006), other RAL colours available on request

Installation/Mounting

Integral tool free rotating spigot secured by two screws with safety bolts.
Post-top mounting: Ø60/76mm x 80mm long spigot, tilted to 5°. Lateral mounting: CL1 - Ø34/42/49/60mm x 120mm long spigot; CL2 - Ø49/60mm x 120mm long spigot, tilted to 0°. Cable gland for Ø8-13mm cable. Access from above to gear and below to optic system after quick release of the stainless steel clip. Delivered ready to install, complete with factory fitted integral gear tray, all in a single carton





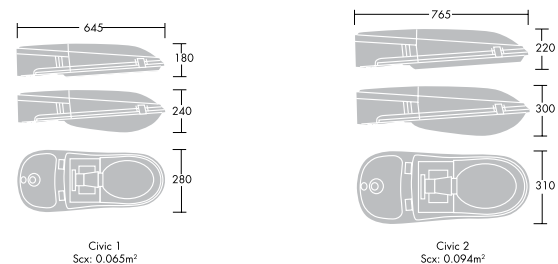
Range of aluminium bodied, IP66 rated, high performance road lanterns; in two sizes for 50-250W lamps



Description	Wt (kg)	SAP Code	Cat. No.
Civic Size 1, shallow bowl			
CIVIC 1 70W HST 240V CL1 ESH PN/L	8.00	96259502	CV1S70N
CIVIC 1 70W HST 240V CL1 ESH RES VR/L	6.80	96259501	CV1S70VR
CIVIC 1 70W HST 240V CL1 ESH/L	7.50	96259497	CV1S70
CIVIC 1 100W HIT 240V CL1 ESH PN/L	8.10	96259418	CV1M100N
CIVIC 1 100W HIT 240V CL1 ESH/L	8.00	96259407	CV1M100
CIVIC 1 100W HST 240V CL1 ESH PN/L	8.10	96259504	CV1S100N
CIVIC 1 100W HST 240V CL1 ESH/L	7.80	96259495	CV1S100
CIVIC 1 150W HIT 240V CL1 ESH PN/L	7.70	96259412	CV1M150N
CIVIC 1 150W HIT 240V CL1 ESH/L	8.30	96259408	CV1M150
CIVIC 1 150W HST 240V CL1 ESH PN/L	7.70	96259499	CV1S150N
CIVIC 1 150W HST 240V CL1 ESH/L	8.10	96259496	CV1S150
Civic Size 1, shallow bowl, electronic gear			
CIVIC 1 57W TC-TEL CL1 ESH PM RES VR/L	6.00	96259433	CV1S7VZMR
CIVIC 1 57W TC-TEL CL1 ESH PN RES/L	6.30	96259440	CV1S7ZNR
CIVIC 1 57W TC-TEL CL1 ESH RES VR/L	6.00	96259434	CV1S7VZR
CIVIC 1 57W TC-TEL CL1 ESH/L	6.00	96259444	CV1S7Z
CIVIC 1 60W CPO-TW CL1 ESH PM RES VR/L	6.20	96259422	CV160VZMR
CIVIC 1 60W CPO-TW CL1 ESH PM RES/L	6.20	96259475	CV160ZMR
CIVIC 1 60W CPO-TW CL1 ESH PM/L	6.20	96259479	CV160ZM
CIVIC 1 60W CPO-TW CL1 ESH RES VR/L	6.10	96259477	CV160VZR
CIVIC 1 60W CPO-TW CL1 ESH RES/L	6.10	96259476	CV160ZR
CIVIC 1 60W CPO-TW CL1 ESH/L	6.10	96259474	CV160Z
CIVIC 1 70W HST DGE CL1 ESH PM/L	5.90	96259426	CV1S70ZM
CIVIC 1 70W HST DGE CL1 ESH PN RES/L	6.10	96259469	CV1S70ZNR
CIVIC 1 70W HST DGE CL1 ESH PN/L	6.10	96259432	CV1S70ZN
CIVIC 1 70W HST DGE CL1 ESH RES VR/L	6.10	96259441	CV1S70VZR
CIVIC 1 70W HST DGE CL1 ESH RES/L	6.10	96259428	CV1S70ZR
CIVIC 1 70W HST DGE CL1 ESH/L	6.40	96259411	CV1S70Z
CIVIC 1 70W HIT DGE CL1 ESH PN/L	6.10	96259423	CV1M70ZN
CIVIC 1 70W HIT DGE CL1 ESH RES VR/L	5.80	96259424	CV1M70VZR
CIVIC 1 100W HIT DGE CL1 ESH/L	6.20	96259439	CV1M100Z
CIVIC 1 100W HST DGE CL1 ESH/L	6.20	96259510	CV1S100Z
CIVIC 1 140W CPO-TW CL1 ESH/L	6.10	96259437	CV1140Z
CIVIC 1 150W HIT DGE CL1 ESH PN/L	6.40	96259448	CV1M150ZN
CIVIC 1 150W HIT DGE CL1 ESH/L	6.10	96259442	CV1M150Z
CIVIC 1 150W HST DGE CL1 ESH/L	6.50	96259511	CV1S150Z
CIVIC 1 150W HST-DGE CL1 ESH PN/L	6.50	96259435	CV1S150ZN

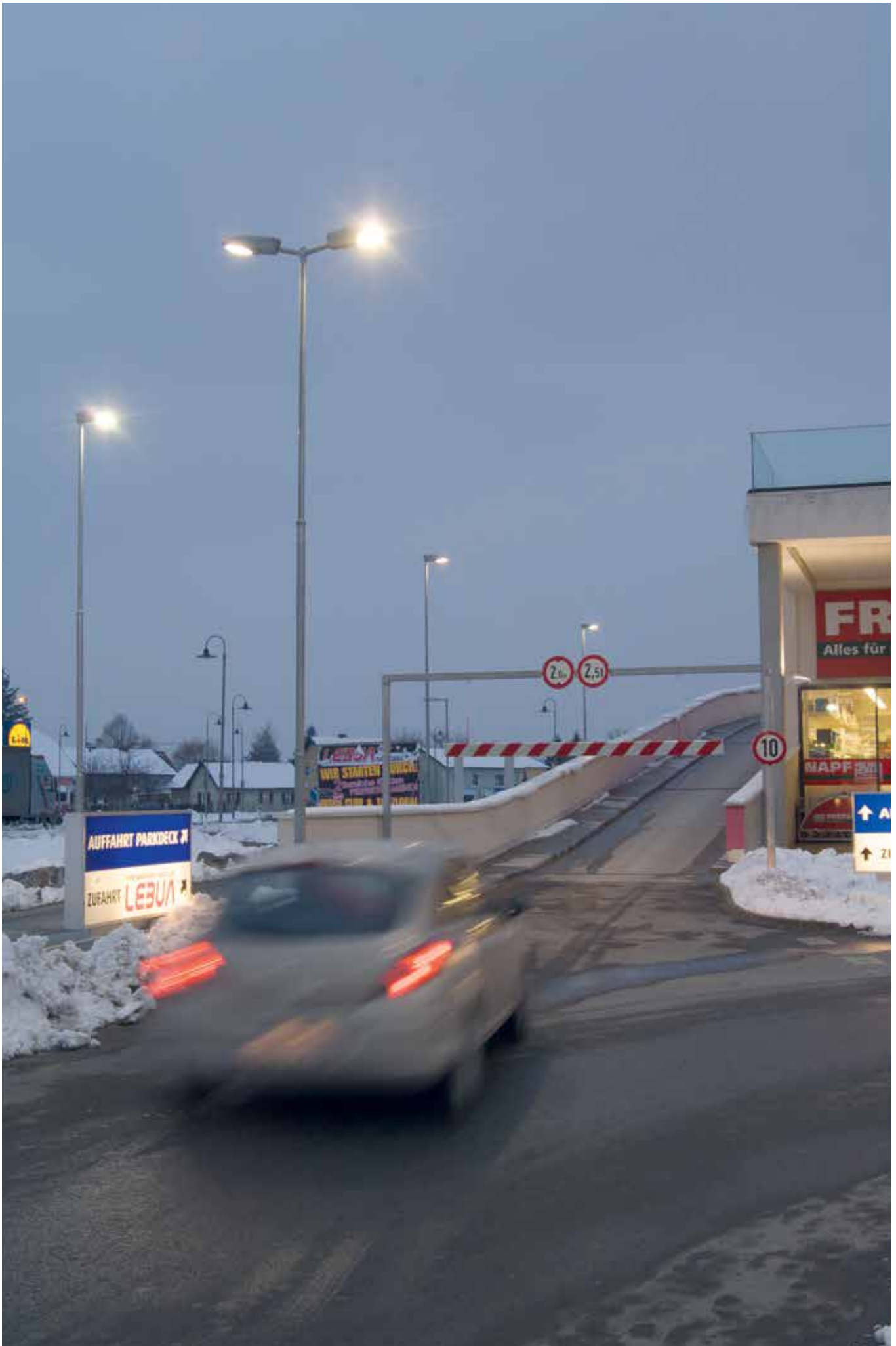
Description	Wt (kg)	SAP Code	Cat. No.
Civic Size 2, flat glass			
CIVIC 2 150W HIT 240V CL1 EFL/L	9.70	96259482	CV2M150FG
CIVIC 2 150W HST 240V CL1 EFL/L	9.70	96259518	CV2S150FG
CIVIC 2 250W HIT 240V CL1 EFL PN/L	12.40	96259486	CV2M50FGN
CIVIC 2 250W HIT 240V CL1 EFL/L	13.20	96259481	CV2M50FG
CIVIC 2 250W HST 240V CL1 EFL PN/L	8.34	96259522	CV2S50FGN
CIVIC 2 250W HST 240V CL1 EFL/L	13.20	96259517	CV2S50FG
Civic Size 2, flat glass, electronic gear			
CIVIC 2 150W HIT DGE CL1 EFL/L	8.30	96259488	CV2M150FGZ
Civic Size 2, shallow bowl			
CIVIC 2 150W HIT 240V CL1 ESH PN/L	9.60	96259487	CV2M150N
CIVIC 2 150W HIT 240V CL1 ESH/L	10.10	96259485	CV2M150
CIVIC 2 150W HST 240V CL1 ESH/L	9.60	96259521	CV2S150
CIVIC 2 250W HIT 240V CL1 ESH PN/L	10.90	96259484	CV2M50N
CIVIC 2 250W HIT 240V CL1 ESH/L	11.20	96259480	CV2M50
CIVIC 2 250W HST 240V CL1 ESH PN/L	10.10	96259520	CV2S50N
CIVIC 2 250W HST 240V CL1 ESH/L	11.20	96259516	CV2S50
Civic Size 2, shallow bowl, electronic gear			
CIVIC 2 150W HIT DGE CL1 ESH PN/L	8.20	96259483	CV2M150ZN
CIVIC 2 150W HST DGE CL1 ESH PN/L	8.20	96259519	CV2S150ZN

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Civic 1
Soc: 0.065m²

Civic 2
Soc: 0.094m²



Clan Range

Bringing harmony to urban and residential environments



- Elegant complete lighting packages
- 6 aesthetic combinations (brackets/luminaires)
- Offers a comprehensive urban lighting solution in combination with Plurio, Alumat, Mica, E/Fact ideal for city rejuvenation projects
- State of the art LED versions with Street and Asymmetric optics

Applications

- Urban street lighting
- Urban pedestrian streets and cycle paths
- Residential
- Car parks
- Parks
- Building surrounds



Clan Range

Bringing harmony to urban and residential environments



A visual coherence in the urban environment

Clan presents a portfolio linked by a single consistent design theme to give great scope to the landscape architect and designer.

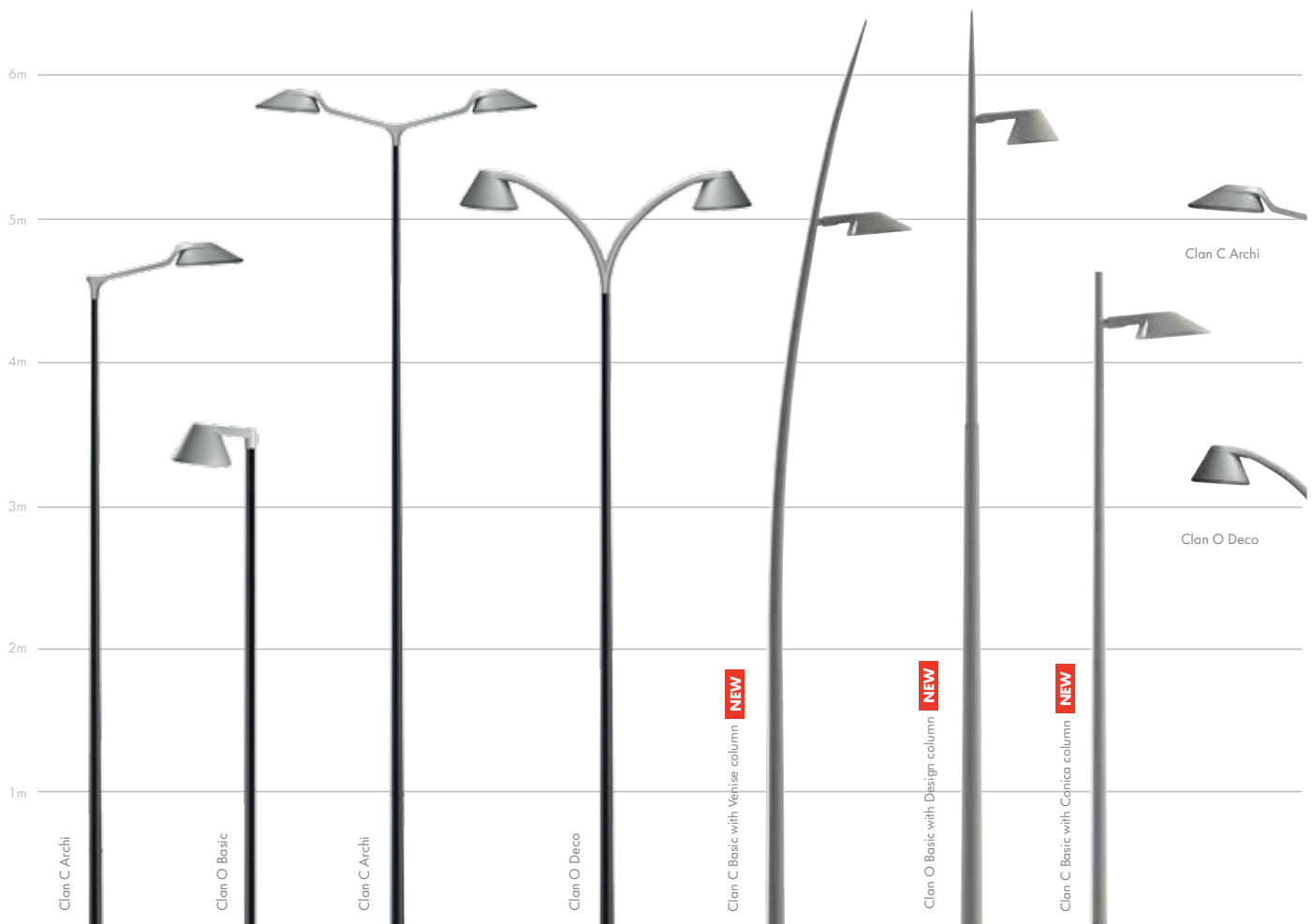
Clan compliments a variety of Thorn products (Plurio, Alumet, E-Fact, Mica...).

Together they are an essential element in achieving a harmonious lighting plan for all the areas of a city, from the centre to the suburbs. Equipped with the latest technologies and durable materials they are key to building a successful, coherent and sustainable lighting design.

Efficient operation

With Clan featuring new generations of optical systems, light sources, gears and lighting controls, you can achieve up to 50% energy savings on current aged installations without compromising on lighting levels and the quality of light according to the relevant lighting standards (e.g EN13 201).

The dimming function available with 70W HID, Cosmopolis® lamps and LEDs enables further savings up to 50% with LEDs compared with conventional lamps.





Optical performance and flexibility

Clan allows you to provide 2 lighting distributions from a single, consistent design theme :

- Street (LED and conventional lamps)
- Area (LED and conventional lamps)

The optics have been designed around new generations of light sources (Cosmopolis® lamps, LEDs) to ensure light is delivered where it is needed without upward or backward spill light and using fewer lanterns.

Optimised lifetime of LED system

Performance and efficiency are the key elements to optimise energy consumption and ensure the safety of end users. The challenge, of course, is to maintain this over time and to reduce maintenance costs. Clan LED has been designed for a 80,000h lifetime (L70, 25°) without dimming or 50,000h lifetime (L80, 25°C) without dimming. In a typical night time burning situation, this can equate to over 20 years, but the ambient operating temperature has an important effect on the life expectancy of the LED luminaire.

Gain 20% lifetime with dimming

All Clan LED lanterns are available with integrated dimming at no extra cost. Dimming can increase the lifetime of an installation by 20%. For example at 10°C, instead of 80,000hrs, the dimmable Clan LEDs can achieve over 100,000hrs, i.e about 25 years!

3 bracket collections

Deco



Archi



Basic



2 lanterns

Clan O - Original

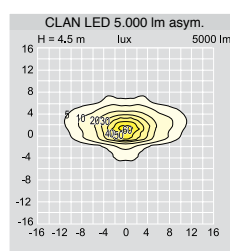


Clan C - Compact

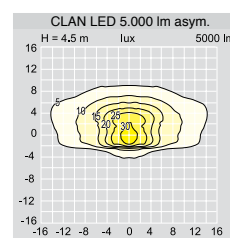


2 optics

Street lighting



Area lighting



2 lamp technologies

Conventional (HIT-CE/CPO/HST)



LEDs



Clan Range

Bringing harmony to urban and residential environments



Archi brackets





Deco brackets

Basic brackets



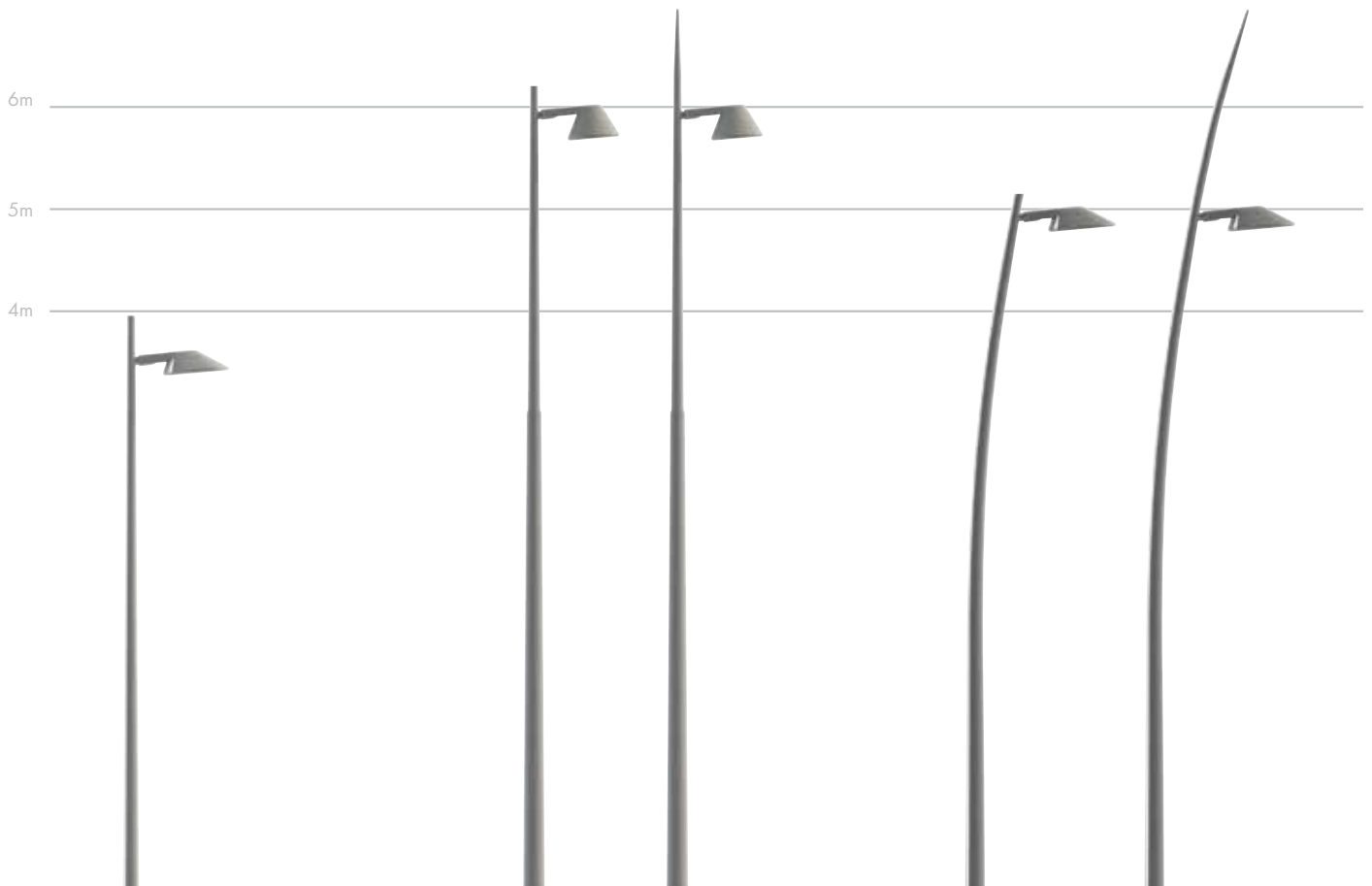
Clan Lateral Columns

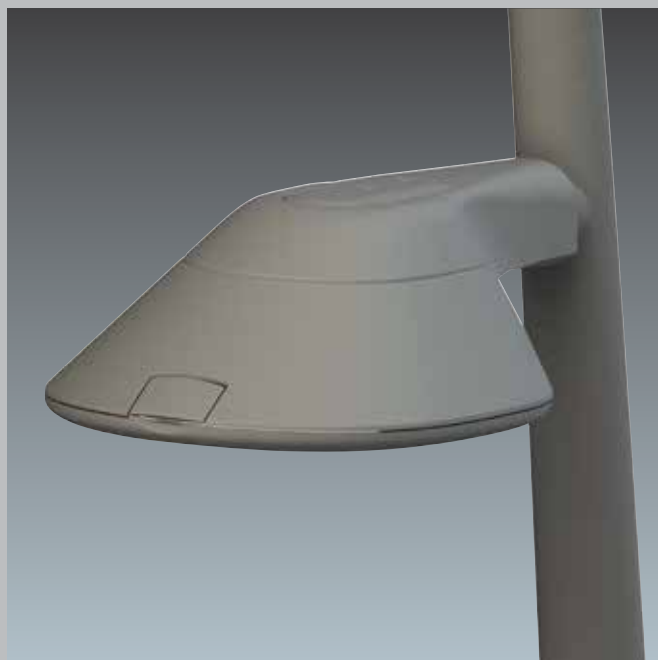


Conica column

Design column

Venise column





How to order

To order complete unit, please order a luminaire, mounting accessory and column.

Lantern



Clan C Lantern



Clan O Lantern

Basic bracket



CLAN BASIC/C MLE	96261303	CNCBBSM
CLAN BASIC/C MLE PM/LDRF	96261304	CNCMBBSM

CLAN BASIC/O MLE	96261305	CNOBBSM
CLAN BASIC/O MLE PM/LDRF	96261306	CNOMBBSM

Column



Conica Column

CLAN CONICA COL 4M D60 ST FAI GRY	96263008	CNCONCOL4
CLAN CONICA COL 5M D60 ST FAI GRY	96263009	CNCONCOL5
CLAN CONICA COL 6M D60 ST FAI GRY	96263010	CNCONCOL6



Design Column

CLAN DESIGN COL 4M D60 ST FAI GRY	96263011	CNDESCOL4
CLAN DESIGN COL 4M TOP D60 ST FAI GRY	96263012	CNDESCOL4TOP
CLAN DESIGN COL 5M D60 ST FAI GRY	96263013	CNDESCOL5
CLAN DESIGN COL 5M TOP D60 ST FAI GRY	96263014	CNDESCOL5TOP
CLAN DESIGN COL 6M D60 ST FAI GRY	96263015	CNDESCOL6
CLAN DESIGN COL 6M TOP D60 ST FAI GRY	96263016	CNDESCOL6TOP



Venise Column

CLAN VENISE COL 4M D60 ST FAI GRY	96263018	CNVENCOL4
CLAN VENISE COL 4M TOP D60 ST FAI GRY	96263019	CNVENCOL4TOP
CLAN VENISE COL 5M D60 ST FAI GRY	96263020	CNVENCOL5
CLAN VENISE COL 5M TOP D60 ST FAI GRY	96263021	CNVENCOL5TOP
CLAN VENISE COL 6M D60 ST FAI GRY	96263022	CNVENCOL6
CLAN VENISE COL 6M TOP D60 ST FAI GRY	96263023	CNVENCOL6TOP

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Clan C

Bringing harmony to urban lighting



www.thornlighting.co.uk/CLNC



- 3 bracket collections, 2 optics, 13 lamps, and dimming option to match a wide scope of applications and optimise energy consumption
- Street and area high performance optics to light urban spaces to achieve a visual harmony
- State of the art LED versions complying with EN13201 with an expected lifetime of 50,000h (Ta: 25°C, L80) and proposed with integrated dimming for further energy savings
- Coordinated with Plurio and Alumet for a complete urban offer ideal for cityscape rejuvenation projects

Materials/Finish

Body: cast aluminium (LM6) powder coated sandy silver grey (close to RAL 9006)

Enclosure: toughened glass

Reflector and mirrors (LED version): high reflective anodised aluminium

Screw fixings and clip: stainless steel

Brackets: powder coated sandy silver grey (close to RAL 9006). Any RAL on request.

Cylindro conical columns: galvanised steel, powder coated sandy grey, 3 to 6m.

Straight (Conica), bi-section (Design) and curved (Venise) columns: galvanised steel, sandy silver grey, 4 to 6m.

Installation/Mounting

Fixation of the lantern to dedicated brackets via 2 screws with safety bolts on the top. Recommended heights: from 3m (with Basic bracket) to 6m, height of column to be chosen according to the height of the bracket. Dedicated range of brackets and columns, cannot be mounted with other brackets.

Tilt: 5°, given by bracket

Cable gland for Ø8mm to 13 mm cable
Conventional lamp versions: available prewired with 7m HO5-VV F cable, other lengths and cable types (e.g: HO7RN-F) on request.

LED versions prewired with 7m cable (2x 1,5mm² HO5-VV F or HO7RN-F)
Tool-free access and replacement of lamp and gear with handle and circuit test key after opening of the hinged enclosure. All connections are socket type with springs.

Delivered ready to install, complete with factory fitted integral gear.

Brackets:

Post top brackets (Basic) for 60mm spigot column, 76mm possible with an adaptor with Basic brackets only
Fixation all brackets but Basic by 4 screws M10, and 2 screws M8 for Basic.

Tilt angle: 5°

All brackets are dedicated to Clan C lanterns, they also cannot accept other lanterns. Basic lateral fixing can accept any 60mm bracket on the market.

Specification

To specify state:

IP66 compact aluminium urban lantern with street, or area optics and integral control gear for 35W to 150W lamps and up to 6000lm LED packages. Mounted exclusively on Clan decorative brackets. Tool-free access to lamp and gear with handle and circuit test key. Optional dimming and minicell.

As Thorn Clan C



Clan C Archi



Clan C Basic



Clan C Deco



Lamps

	HIT-CE (MT)	G12	35-150W
	HIT-CE E27 (MT)	E27	70W
	LED		39-84W

Standards



Ordering Guide

For complete fitting, order luminaire, bracket and column.
Supplied complete with lamp/LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Clan C LED lanterns, street optic			
CLAN C LED 24L50 BP NR 740 CL1 W7M	9.70	96258135	CNC39BP
CLAN C LED 36L50 BP NR 740 CL1 W7M	9.70	96258136	CNC58BP
CLAN C LED 36L70 BP NR 740 CL1 W7M	9.70	96263309	CNC84BP
Clan C LED lanterns, asymmetric optic			
CLAN C LED 24L50 BP WS 740 CL1 W7M	9.70	96258147	CNC39BPA
CLAN C LED 36L50 BP WS 740 CL1 W7M	9.70	96258148	CNC58BPA
CLAN C LED 36L70 BP WS 740 CL1 W7M	9.70	96263312	CNC84BPA
Clan C LED lanterns, street optic with basic bracket			
CLAN C LED 24L50 BP NR 740 CL1 W7M MTP	11.30	96258123	CNC39BPPT
CLAN C LED 36L50 BP NR 740 CL1 W7M MTP	11.30	96258124	CNC58BPPT
CLAN C LED 36L70 BP NR 740 CL1 W7M MTP	11.30	96263305	CNC84BPPT
Clan C lanterns, street optic, electronic gear			
CLAN C 35W HIT-CE G12 CL1/L	5.60	96239985	CNC35
CLAN C 45W CPO CL1/L	6.30	96239986	CNC45
CLAN C 60W CPO CL1/L	6.30	96239988	CNC60
CLAN C 70W HIT DGE E27 CL1/L	6.20	96239992	CNC70
CLAN C 70W HIT-CE G12 CL1/L	6.10	96239994	CNCG70
CLAN C 90W CPO CL1/L	6.40	96239996	CNC90
CLAN C 100W HIT-CE G12 CL1/L	6.20	96239975	CNC100
CLAN C 140W CPO CL1/L	6.40	96239976	CNC140
CLAN C 150W HIT-CE G12 CL1/L	6.20	96239980	CNC150
Clan C lanterns, street optic, power reduction gear			
CLAN C 60W CPO/BP CL1/L	6.30	96239990	CNC60BP
CLAN C 90W CPO/BP CL1/L	6.40	96239998	CNC90BP
CLAN C 140W CPO/BP CL1/L	6.40	96239978	CNC140BP
Clan C lanterns, asymmetric optic, electronic gear			
CLAN C 45W CPO CL1 A/S/L	6.20	96239987	CNC45A
CLAN C 60W CPO CL1 A/S/L	6.20	96239989	CNC60A
CLAN C 70W HIT DGE E27 CL1 A/S/L	6.10	96239993	CNC70A
CLAN C 90W CPO CL1 A/S/L	6.30	96239997	CNC90A
CLAN C 140W CPO CL1 A/S/L	6.30	96239977	CNC140A
Clan C lanterns, asymmetric optic, power reduction gear			
CLAN C 60W CPO/BP CL1 A/S/L	6.20	96239991	CNC60BPA
CLAN C 90W CPO/BP CL1 A/S/L	6.30	96239999	CNC90BPA
CLAN C 140W CPO/BP CL1 A/S/L	6.30	96239979	CNC140BPA

Description	Wt (kg)	SAP Code	Cat. No.
Clan C brackets			
CLAN ADAPTOR 76MM	0.90	96257409	CNCMA
CLAN ARCHI/C BRAX1 MLE	3.30	96257396	CNCABSM
CLAN ARCHI/C BRAX1 MTP D60	6.30	96257393	CNCABPT
CLAN ARCHI/C BRAX1 MWA	3.00	96257395	CNCABWM
CLAN ARCHI/C BRAX2 MTP D60	10.40	96257394	CNCABPT2
CLAN BASIC/C BRAX1 MLE D60 PM/LDRF	1.50	96261304	CNCMBBSM
CLAN BASIC/C BRAX1 MTP D60	1.70	96258254	CNCBBPT
CLAN BASIC/C BRAX1 MTP D60 PM/LDRF	1.70	96259079	CNCMBBPT
CLAN BASIC/C BRAX2 MTP D60	2.50	96261307	CNCBBPT2
CLAN BASIC/C BRAX2 MTP D60 PM/LDRF	2.50	96261308	CNCMBBPT2
CLAN BASIC/C MLE	1.50	96261303	CNCBBSM
CLAN DECO/C BRAX1 MLE	4.00	96257400	CNCDBSM
CLAN DECO/C BRAX1 MTP D60	6.50	96257397	CNCDBPT
CLAN DECO/C BRAX1 MWA	3.60	96257399	CNCDBWM
CLAN DECO/C BRAX2 MTP D60 SIL	9.20	96257398	CNCDBPT2
Clan C accessory			
CLAN C LVBACK	0.10	96257632	CNCBLV
Clan C Columns, cylindro conical, sandy grey			
CLAN COL 3,5M CCO D60 ST MPL FAI GRY	26.00	96258615	CNCCC35
CLAN COL 3M CCO D60 ST MPL FAI GRY	22.00	96258614	CNCCC3
CLAN COL 4,5M CCO D60 ST MPL FAI GRY	34.00	96258624	CNCCC45
CLAN COL 4M CCO D60 ST MPL FAI GRY	30.00	96258620	CNCCC4
CLAN COL 5,5M CCO D60 ST MPL FAI GRY	44.30	96258626	CNCCC55
CLAN COL 5M CCO D60 ST MPL FAI GRY	37.50	96258625	CNCCC5
CLAN COL 6M CCO D60 ST MPL FAI GRY	49.00	96258629	CNCCC6
Clan C Columns, Conica, Design, Venise, sandy silver grey			
CLAN CONICA COL 4M D60 ST FAI SIL	31.00	96263008	CNCONCOL4
CLAN CONICA COL 5M D60 ST FAI SIL	40.00	96263009	CNCONCOL5
CLAN CONICA COL 6M D60 ST FAI SIL	50.00	96263010	CNCONCOL6
CLAN DESIGN COL 4M D60 ST FAI SIL	37.00	96263011	CNDESCOL4
CLAN DESIGN COL 4M TOP D60 ST FAI SIL	40.00	96263012	CNDESCOL4TOP
CLAN DESIGN COL 5M D60 ST FAI SIL	47.00	96263013	CNDESCOL5
CLAN DESIGN COL 5M TOP D60 ST FAI SIL	50.00	96263014	CNDESCOL5TOP
CLAN DESIGN COL 6M D60 ST MLE FAI SIL	59.00	96263015	CNDESCOL6
CLAN DESIGN COL 6M TOP D60 ST FAI SIL	62.00	96263016	CNDESCOL6TOP
CLAN VENISE COL 4M D60 ST FAI SIL	35.00	96263018	CNVENCOL4
CLAN VENISE COL 4M TOP D60 ST FAI SIL	38.00	96263019	CNVENCOL4TOP
CLAN VENISE COL 5M D60 ST FAI SIL	50.00	96263020	CNVENCOL5
CLAN VENISE COL 5M TOP D60 ST FAI SIL	53.00	96263021	CNVENCOL5TOP
CLAN VENISE COL 6M D60 ST FAI SIL	68.00	96263022	CNVENCOL6
CLAN VENISE COL 6M TOP D60 ST FAI SIL	70.00	96263023	CNVENCOL6TOP

Clan C

Bringing harmony to urban lighting



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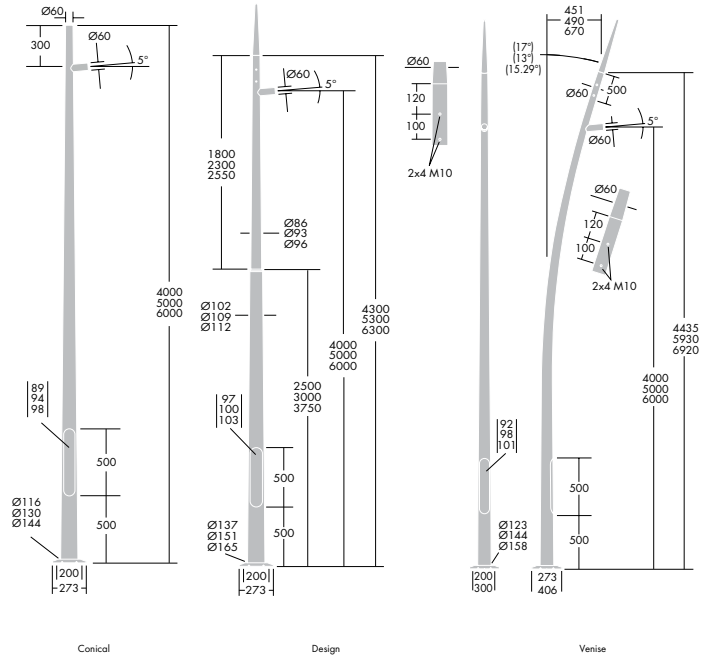
Design + Top



Venise + Top



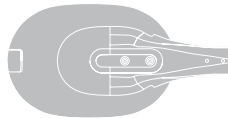
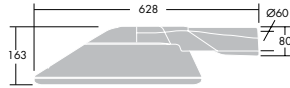
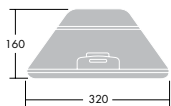
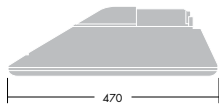
Venise



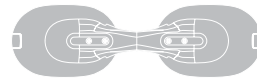
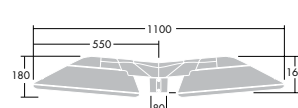
Conical

Design

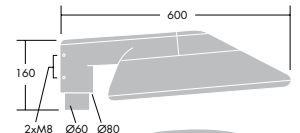
Venise



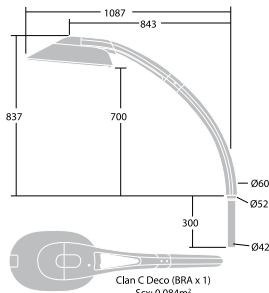
Clan C Basic MLE
Sc: 0,045m²



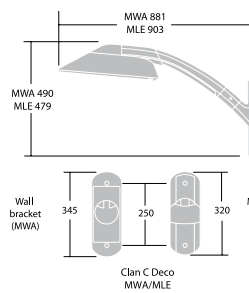
Clan C Basic (BRA x 2)
Sc: 0,093m²



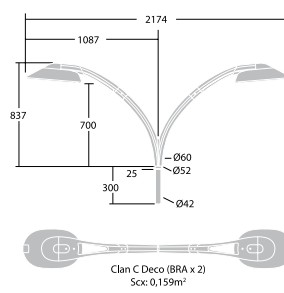
Clan C Basic MPT
Sc: 0,065m²



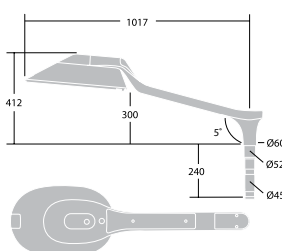
Clan C Deco (BRA x 1)
Sc: 0,084m²



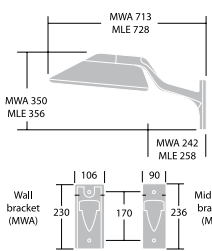
Clan C Deco
MWA/MLE



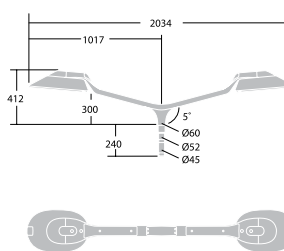
Clan C Deco (BRA x 2)
Sc: 0,159m²



Clan C Archi (BRA x 1)
Sc: 0,067m²

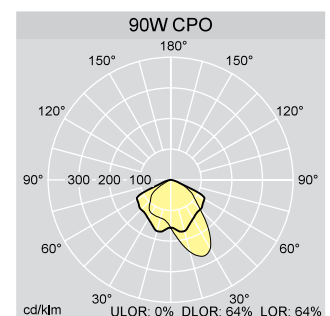


Clan C Archi
MWA/MLE



Clan C Archi (BRA x 2)
Sc: 0,113m²

Height of CCO column (m)	Height including luminaire (m)		
	Deco	Archi	Basic
3.0	3.7	3.3	2.9
3.5	4.2	3.8	3.3
4.0	4.7	4.3	3.8
4.5	5.2	4.8	4.3
5.0	5.7	5.3	4.8
5.5	6.2	5.8	5.3
6.0	6.7	6.3	5.8







www.thornlighting.co.uk/CLNO



- 3 bracket collections, 3 optics, 13 lamps and dimming option to match a wide scope of applications and optimise energy consumption
- Street and area high performance optics to light urban spaces to achieve a visual harmony
- State of the art LED versions complying with EN13201 with an expected lifetime of 50,000h (Ta: 25°C, L80) and proposed with integrated dimming for further energy savings
- Coordinated with Plurio and Alumet for a complete urban offer ideal for cityscape rejuvenation projects

Materials/Finish

Body: cast aluminium (LM6) powder coated sandy silver grey (close to RAL 9006)

Enclosure: toughened glass

Reflector and mirrors (LED version): high reflective anodised aluminium

Screw fixings and clip: stainless steel

Brackets: powder coated sandy silver grey (close to RAL 9006). Any RAL on request.

Cylindro conical columns: galvanised steel, powder coated sandy grey, 3 to 6m.

Straight (Conica), bi-section (Design) and curved (Venise) columns: galvanised steel, sandy silver grey, 4 to 6m.

Installation/Mounting

Fixation of the lantern to dedicated brackets via 2 screws with safety bolts on the top. Recommended heights: from 3m (with Basic bracket) to 6m, height of column to be chosen according to the height of the bracket.

Dedicated range of brackets and columns, cannot be mounted with other brackets. Tilt: 5°, given by bracket

Cable gland for Ø8mm to 13 mm cable

Conventional lamp versions: available prewired with 7m HO5-VV F cable, other lengths and cable types (e.g: HO7RN-F) on request.

LED versions prewired with 7m cable (2x 1,5mm² HO5-VV F or HO7RN-F)

Tool-free access and replacement of lamp and gear with handle and circuit test key after opening of the hinged enclosure. All connections are socket type with springs.

Delivered ready to install, complete with factory fitted integral gear.

Brackets:
Post top brackets (Basic) for 60mm spigot column, 76mm possible with an adaptor with Basic brackets only

Fixation all brackets but Basic by 4 screws M10, and 2 screws M8 for Basic. Tilt angle: 5°

All brackets are dedicated to Clan O lanterns, they also cannot accept other lanterns. Basic lateral fixing can accept any 60mm bracket on the market.

Specification

To specify state:
IP66 compact aluminium urban lantern with street or area optics and integral control gear for 35W to 150W lamps and up to 6000lm LED packages. Mounted exclusively on Clan decorative brackets. Tool-free access to lamp and gear with handle and circuit test key. With dimming and minicell options. As Thorn Clan O

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Clan O Archi



Clan O Deco



Clan O Basic



Lamps

	HIT-CE (MT)	G12	35-150W
	HIT-CE E27 (MT)	E27	70W
	HST/HIT-CE (ST/MT)	E27	70W
	LED		39-84W

Standards



Ordering Guide

For complete fitting, order luminaire, bracket and column.
Supplied complete with lamp/LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Clan O LED lanterns, street optic			
CLAN O LED 24L50 BP NR 740 CL1 W7M	10.60	96258141	CNO39BP
CLAN O LED 36L50 BP NR 740 CL1 W7M	10.60	96258142	CNO58BP
CLAN O LED 36L70 BP NR 740 CL1 W7M	10.60	96263300	CNO84BP
Clan O LED lanterns, asymmetric optic			
CLAN O LED 24L50 BP WS 740 CL1 W7M	10.60	96258153	CNO39BPA
CLAN O LED 36L50 BP WS 740 CL1 W7M	10.60	96258154	CNO58BPA
CLAN O LED 36L70 BP WS 740 CL1 W7M	10.60	96263303	CNO84BPA
Clan O LED lanterns, street optic with basic bracket			
CLAN O LED 24L50 BP NR 740 CL1 W7M MTP	12.50	96258129	CNO39BPPT
CLAN O LED 36L50 BP NR 740 CL1 W7M MTP	12.50	96258130	CNO58BPPT
CLAN O LED 36L70 BP NR 740 CL1 W7M MTP	12.50	96263297	CNO84BPPT
Clan O lanterns, street optic, electronic gear			
CLAN O 35W HIT-CE G12 CL1/L	6.20	96240016	CNO35
CLAN O 45W CPO CL1/L	6.90	96240017	CNO45
CLAN O 60W CPO CL1/L	6.90	96240019	CNO60
CLAN O 70W HIT-CE E27 CL1/L	6.80	96240023	CNOE70
CLAN O 70W HIT-CE G12 CL1/L	6.80	96240025	CNO70
CLAN O 90W CPO CL1/L	7.00	96240031	CNO90
CLAN O 100W HIT-CE G12 CL1/L	6.80	96240003	CNO100
CLAN O 140W CPO CL1/L	7.00	96240005	CNO140
CLAN O 150W HIT-CE G12 CL1/L	6.80	96240010	CNO150
Clan O lanterns, street optic, power reduction gear			
CLAN O 60W CPO/BP CL1/L	6.90	96240021	CNO60BP
CLAN O 90W CPO/BP CL1/L	7.00	96240034	CNO90BP
CLAN O 140W CPO/BP CL1/L	7.00	96240008	CNO140BP
Clan O lanterns, asymmetric optic, electronic gear			
CLAN O 45W CPO CL1 A/S/L	6.90	96240018	CNO45A
CLAN O 60W CPO CL1 A/S/L	6.90	96240020	CNO60A
CLAN O 70W HIT DGE E27 CL1 A/S/L	6.80	96240024	CNOE70A
CLAN O 90W CPO CL1 A/S/L	7.00	96240033	CNO90A
CLAN O 140W CPO CL1 A/S/L	7.00	96240007	CNO140A
Clan O lanterns, asymmetric optic, power reduction gear			
CLAN O 60W CPO/BP CL1 A/S/L	6.90	96240022	CNO60BPA
CLAN O 90W CPO/BP CL1 A/S/L	7.00	96240035	CNO90BPA
CLAN O 140W CPO/BP CL1 A/S/L	7.00	96240009	CNO140BPA

Description	Wt (kg)	SAP Code	Cat. No.
Clan O brackets			
CLAN ADAPTOR 76MM	0.90	96257409	CNCMA
CLAN ARCHI/O BRAX1 MLE	3.70	96257404	CNOABSM
CLAN ARCHI/O BRAX1 MTP D60	5.90	96257401	CNOABPT
CLAN ARCHI/O BRAX1 MWA	3.40	96257403	CNOABWM
CLAN ARCHI/O BRAX2 MTP D60	9.50	96257402	CNOABPT2
CLAN BASIC/O BRAX1 MLE D60 PM/LDRF	1.80	96261306	CNOMBBSM
CLAN BASIC/O BRAX1 MTP D60	1.90	96258255	CNOBBPT
CLAN BASIC/O BRAX1 MTP D60 PM/LDRF	1.90	96259080	CNOMBBPT
CLAN BASIC/O BRAX2 MTP D60	3.00	96261309	CNOBBPT2
CLAN BASIC/O BRAX2 MTP D60 PM/LDRF	3.00	96261310	CNOMBBPT2
CLAN BASIC/O MLE	1.80	96261305	CNOBBSM
CLAN DECO/O BRAX1 MLE	4.30	96257408	CNODBBSM
CLAN DECO/O BRAX1 MTP D60	6.20	96257405	CNODBPT
CLAN DECO/O BRAX1 MWA	3.90	96257407	CNODBWM
CLAN DECO/O BRAX2 MTP D60	8.60	96257406	CNODBPT2
Clan O accessory			
CLAN O LVBACK	0.12	96257631	CNOBLV
Clan O Columns, cilindro conical, sandy grey			
CLAN COL 3,5M CCO D60 ST MPL FAI GRY	26.00	96258615	CNCCC35
CLAN COL 3M CCO D60 ST MPL FAI GRY	22.00	96258614	CNCCC3
CLAN COL 4,5M CCO D60 ST MPL FAI GRY	34.00	96258624	CNCCC45
CLAN COL 4M CCO D60 ST MPL FAI GRY	30.00	96258620	CNCCC4
CLAN COL 5,5M CCO D60 ST MPL FAI GRY	44.30	96258626	CNCCC55
CLAN COL 5M CCO D60 ST MPL FAI GRY	37.50	96258625	CNCCC5
CLAN COL 6M CCO D60 ST MPL FAI GRY	49.00	96258629	CNCCC6
Clan O Columns, Conica, Design, Venise, sandy silver grey			
CLAN CONICA COL 4M D60 ST FAI SIL	31.00	96263008	CNCONCOL4
CLAN CONICA COL 5M D60 ST FAI SIL	40.00	96263009	CNCONCOL5
CLAN CONICA COL 6M D60 ST FAI SIL	50.00	96263010	CNCONCOL6
CLAN DESIGN COL 4M D60 ST FAI SIL	37.00	96263011	CNDESCOL4
CLAN DESIGN COL 4M TOP D60 ST FAI SIL	40.00	96263012	CNDESCOL4TOP
CLAN DESIGN COL 5M D60 ST FAI SIL	47.00	96263013	CNDESCOL5
CLAN DESIGN COL 5M TOP D60 ST FAI SIL	50.00	96263014	CNDESCOL5TOP
CLAN DESIGN COL 6M D60 ST MLE FAI SIL	59.00	96263015	CNDESCOL6
CLAN DESIGN COL 6M TOP D60 ST FAI SIL	62.00	96263016	CNDESCOL6TOP
CLAN VENISE COL 4M D60 ST FAI SIL	35.00	96263018	CNVENCOL4
CLAN VENISE COL 4M TOP D60 ST FAI SIL	38.00	96263019	CNVENCOL4TOP
CLAN VENISE COL 5M D60 ST FAI SIL	50.00	96263020	CNVENCOL5
CLAN VENISE COL 5M TOP D60 ST FAI SIL	53.00	96263021	CNVENCOL5TOP
CLAN VENISE COL 6M D60 ST FAI SIL	68.00	96263022	CNVENCOL6
CLAN VENISE COL 6M TOP D60 ST FAI SIL	70.00	96263023	CNVENCOL6TOP



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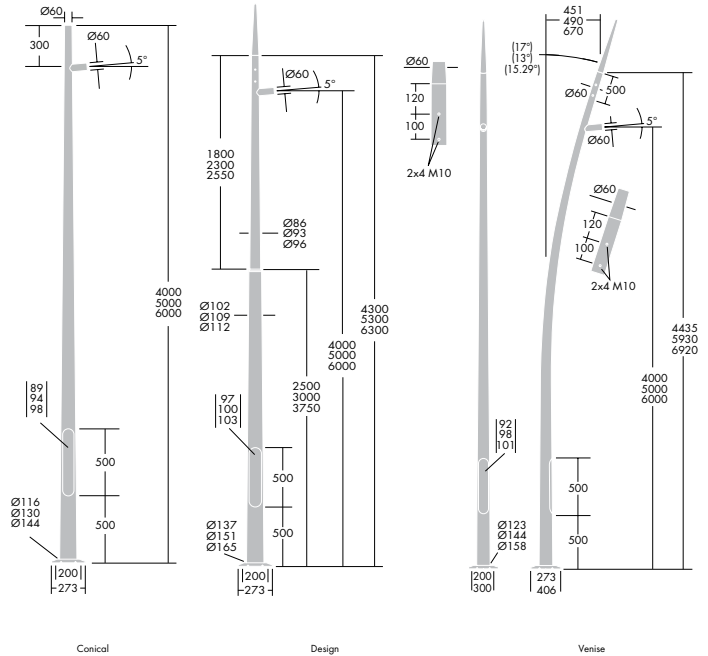
Design + Top



Venise + Top



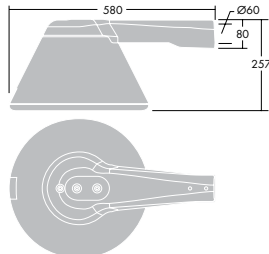
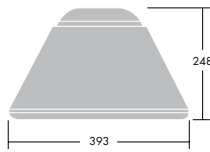
Venise



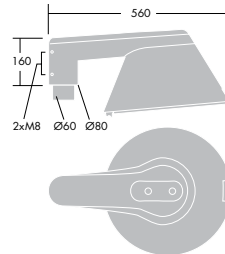
Conical

Design

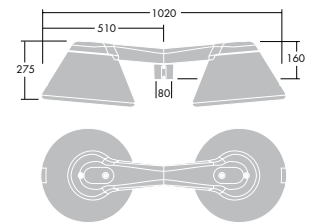
Venise



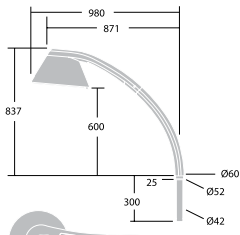
Clan O Basic MLE
Scx: 0,062m²



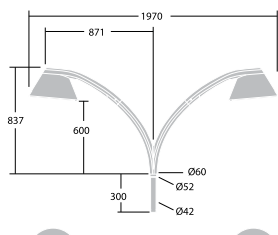
Clan O Basic MTP
Scx: 0,087m²



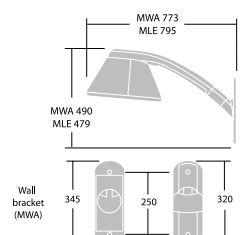
Clan O Basic (BRA x 2)
Scx: 0,142m²



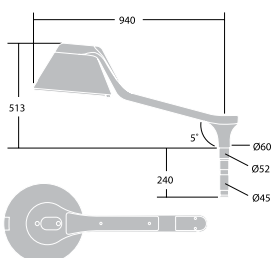
Clan O Deco (BRA x 1)
Scx: 0,098m²



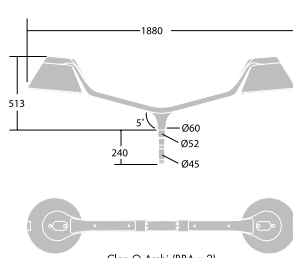
Clan O Deco (BRA x 2)
Scx: 0,189m²



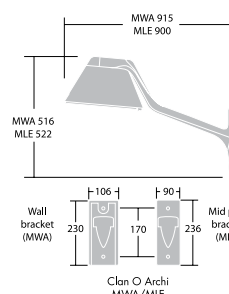
Clan O Deco
MWA/MLE



Clan O Archi (BRA x 1)
Scx: 0,089m²

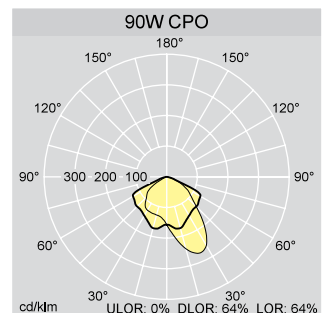


Clan O Archi (BRA x 2)
Scx: 0,164m²



Clan O Archi
MWA/MLE

Height of CCO column (m)	Height including luminaire (m)		
	Deco	Archi	Basic
3.0	3.6	3.2	2.7
3.5	4.1	3.7	3.2
4.0	4.6	4.2	3.7
4.5	5.1	4.7	4.2
5.0	5.6	5.2	4.7
5.5	6.1	5.7	5.2
6.0	6.6	6.2	5.7





Dyana



www.thornlighting.co.uk/DYNA

Stylish, IP66 aluminium road lantern, in two sizes, with a sleek, rounded form and choice of lamps, gear and controls



- Sleek aesthetic for modern or traditional applications, including: high density housing, open spaces, paths and city roads
- Sealed to IP66 in high quality and fully recyclable materials
- The lantern - using a flexible optical engine - comes in two sizes for post top or side mounting at 6 - 10 metres, with a choice of complementary brackets
- Offers glare-free white light for a more pleasant urban environment with electronic and dimmable gear for reduced energy consumption and maintenance

Materials/Finish

Body: die-cast aluminium powder coated texturised grey (Akzo 900, close to RAL 9007)

Spigot: die-cast aluminium powder coated texturised grey (Akzo 900)

Canopy: spun aluminium powder coated texturised grey (Akzo 900)

Enclosure: toughened glass

Reflector: high purity anodised aluminium

Gear plate: galvanised steel

Gasket: silicon

Installation/Mounting

Lateral mounting: Ø60mm x 100mm long spigot tilted to 0°, secured by 2 screws with safety bolts.

Top mounting: Ø60mm spigot tilted to 10°, secured by 4 stainless steel headless screws. Cable gland for 8 - 13mm cable.

Tool-free access - to lamp after opening the optical housing via 2 x 1/4 lockers and to gear after release of the retaining leg. Gear is tool-free removable with retained screws. All connections are plug and socket. Delivered ready to install in a single carton, complete with factory fitted integral gear and adjusted lamp settings.

Specification

To specify state:

Full IP66 aluminium streetlighting fitting for 70 to 250W lamps. Side entry or top mounting onto 60mm diameter. Tool-free maintenance of gear and lamp.

As Thorn Dyana



Lamps

	CPO-TW (MT)	PGZ12	140W
	HIT-CE (MT)	G12	45-150W
	HIT-CE E27 (MT)	E27	70W
	HST-MF (ST)	E40	70-250W
	HIT (MT)	E40	250W

Standards

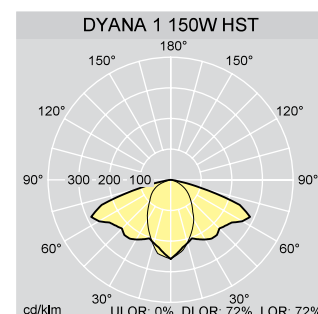
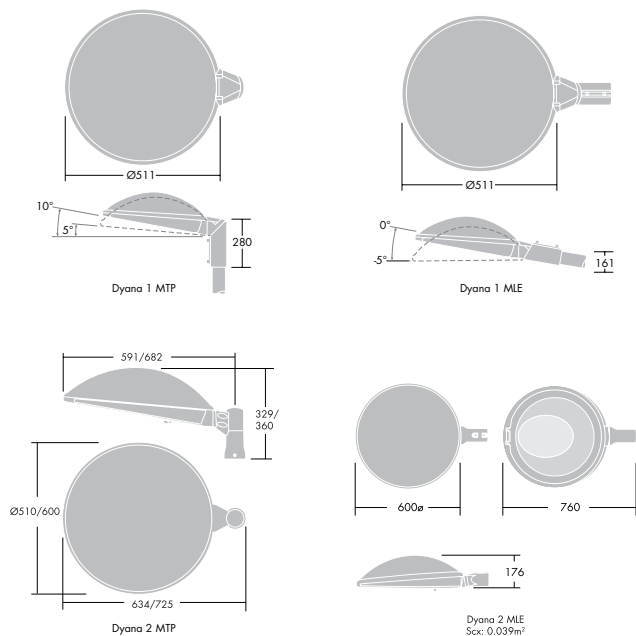


Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Dyana Size 1, electronic			
DYANA 1 70W HIT-CE DGE CL1 MLE60/LI	10.37	96261114	DY1M70
DYANA 1 70W HST DGE CL1 MLE60/LI	10.31	96261099	DY1S70
DYANA 1 100W HIT-CE DGE CL1 MLE60/LI	10.59	96261117	DY1M100
DYANA 1 100W HST DGE CL1 MLE60/LI	10.59	96261104	DY1S100
DYANA 1 150W HIT-CE DGE CL1 MLE60/LI	10.61	96261121	DY1M150
DYANA 1 150W HST DGE CL1 MLE60/LI	10.46	96261111	DY1S150
Dyana Size 1, electronic, bi-power			
DYANA 1 60W CPO/BP8 CL1 MLE60/LI	10.61	96261097	DY1C60B8
DYANA 1 70W/BP7 HIT-CE DGE CL1 MLE60/LI	10.63	96261116	DY1M70B7
DYANA 1 70W/BP7 HST DGE CL1 MLE60/LI	10.57	96261100	DY1S70B7
DYANA 1 90W CPO/BP8 CL1 MLE60/LI	10.71	96261103	DY1C90B8
DYANA 1 100W/BP7 HST DGE CL1 MLE60/LI	10.86	96261106	DY1S100B7
DYANA 1 100W/BP7 HIT-CE DGE CL1 MLE60/LI	10.86	96261119	DY1M100B7
DYANA 1 140W CPO/BP8 CL1 MLE60/LI	10.85	96261107	DY1C140B8
DYANA 1 150W/BP7 HIT-CE DGE CL1 MLE60/LI	10.86	96261120	DY1M150B7
DYANA 1 150W/BP7 HST DGE CL1 MLE60/LI	10.71	96261110	DY1S150B7
Dyana Size 1, electronic, photocell			
DYANA 1 45W CPO-TW CL1 MLE60 PM/LI	10.61	96261095	DY1C45M
DYANA 1 60W CPO-TW CL1 MLE60 PM/LI	10.59	96261096	DY1C60M
DYANA 1 70W HIT-CE DGE CL1 MLE60 PM/LI	10.49	96261115	DY1M70M
DYANA 1 70W HST DGE CL1 MLE60 PM/LI	10.43	96261101	DY1S70M
DYANA 1 90W CPO-TW CL1 MLE60 PM/LI	10.71	96261102	DY1C90M
DYANA 1 100W HIT-CE DGE CL1 MLE60 PM/LI	10.72	96261118	DY1M100M
DYANA 1 100W HST DGE CL1 MLE60 PM/LI	10.71	96261105	DY1S100M
DYANA 1 140W CPO CL1 MLE60 PM/LI	10.90	96261109	DY1C140M
DYANA 1 150W HIT-CE DGE CL1 MLE60 PM/LI	10.86	96261113	DY1M150M
DYANA 1 150W HST DGE CL1 MLE60 PM/LI	10.71	96261112	DY1S150M
Dyana Size 2, side entry			
DYANA 2 250W HIT CL1 MLE/L		96240053	DY2M250
DYANA 2 250W HST CL1 MLE/L		96240052	DY2S250
Dyana Size 2, side entry, electronic			
DYANA 2 100W HIT DGE CL1 MLE/L		96240057	DY2M100
DYANA 2 100W HST DGE CL1 MLE/L		96240054	DY2S100
DYANA 2 140W CPO-TW CL1 MLE/L		96240055	DY2C140
DYANA 2 150W HIT DGE CL1 MLE/L		96240058	DY2M150
DYANA 2 150W HST DGE CL1 MLE/L		96240056	DY2S150

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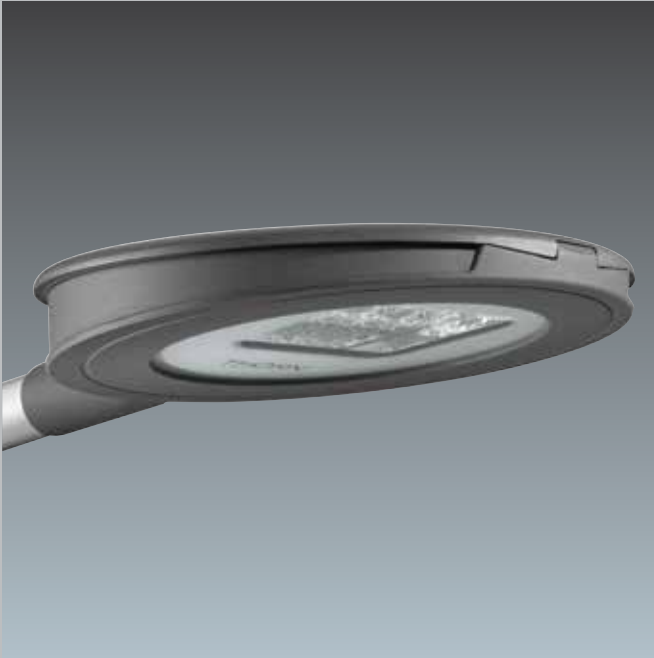
NEW

Dyana LED



www.thornlighting.co.uk/DYNL

A high quality LED luminaire to enhance efficiently, urban roads and streets up to ME2



- Flexibility of use: 11 lumen outputs (up to 14000 lm), two sizes, top or lateral mountings and two optics to cover a wide range of lighting projects from S to ME2 classes
- High performance Thorn R-PEC road and street lighting LED optic with high efficiency (up to 92 llm/W)
- Coordinated with new brackets and columns for a full harmonised architectural project
- Durable IP66 and IK10 luminaire made of high quality die-cast aluminium

Materials/Finish

Body, spigot and canopy (size 1): die-cast aluminium, power coating textured dark grey finish. Canopy (size 2): spun aluminium, textured anthracite finish.
Flat glass cover: 5mm thick toughened glass.
Gasket (size 1): Ethylene Propylene Diamine rubber (EPDM), (size 2) silicon.

Installation/Mounting

Optimised street optic for good control and comfort.
Dedicated range of columns and brackets. Opening from above.
Side-entry mounting Ø 60 mm, tilt = 0°, -5°.
Post-top mounting Ø 60 mm, tilt = 5°, 10°.
Option for Ø 76 mm PT mounting with spigot accessory.
End cap secured by 2 screws.
Slim section: only 92mm thick.
Supplied complete and ready to install, in a single box.
Weight: 12kg max.

Specification

To specify state:
IP 66 aluminium decorative streetlighting lantern in 2 sizes. Post top or side entry mounting onto a 60mm spigot (76mm available) with tilting capability of 5° and 10° (PT) or -5° (SE). With options for dimming, CLO (constant light output) and presence detection.
As Thorn Dyana LED.

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Dyana LED, Size 1			
DYANA LED 36L105 NR 740 CL1 MLE60 PM	11.70	96264393	DY122MRSM
DYANA LED 36L105 NR 740 CL1 MLE60	11.60	96264391	DY122RSM
DYANA LED 36L50 NR 740 CL1 HT MLE60	11.70	96263154	DY59RSM
DYANA LED 60L70 NR 740 CL1 MLE60	12.20	96264403	DY138RSM
DYANA LED 60L70 NR 740 CL1 MLE60 PM	10.05	96264405	DY138MRSM
Dyana LED, Bi-power, size 1			
DYANA LED 12L70 NR 740 BP CL1 MA76	10.24	96263159	DY288BRMA
DYANA LED 12L70 NR 740 BP CL1 MA76 PM	10.30	96263162	DY288MRMA
DYANA LED 24L70 NR 740 BP CL1 MA76	10.27	96263160	DY558BRMA
DYANA LED 24L70 NR 740 BP CL1 MA76 PM	10.33	96263163	DY558MRMA
DYANA LED 36L70 NR 740 BP CL1 MA76	10.28	96263161	DY828BRMA
DYANA LED 36L70 NR 740 BP CL1 MA76 PM	10.34	96263164	DY828MRMA
DYANA LED 36L105 NR 740 BP CL1 MLE60 PM	11.70	96264392	DY122BMRSM
DYANA LED 36L105 NR 740 BP CL1 MA76	11.70	96264394	DY122B8RMA
DYANA LED 36L105 NR 740 CL1 MA76 PM	11.80	96264395	DY122B8MRMA
DYANA LED 36L105 NR 740 BP CL1 MLE60	11.60	96264390	DY122BRSM
DYANA LED 36L50 NR 740 BP CL1 HT MLE60	11.70	96263156	DY598RSM
DYANA LED 60L70 NR 740 BP CL1 MA76	12.20	96264406	DY138B8RMA
DYANA LED 60L70 NR 740 BP CL1 MA76 PM	12.30	96264407	DY138B8MRMA
DYANA LED 60L70 NR 740 BP CL1 MLE60	12.20	96264402	DY138B8RSM
DYANA LED 60L70 NR 740 BP CL1 MLE60 PM	12.20	96264404	DY138B8MRSM
Dyana LED, Size 2			
DYANA2 LED 48L50 NR 740 CL1 HT MLE	13.90	96264365	DY81RSM
DYANA2 LED 48L50 NR 740 CL1 HT MTP	13.90	96264827	DY81RPT
DYANA2 LED 48L50 WS 740 CL1 HT MLE	13.90	96264350	DY81SSM



Lamps

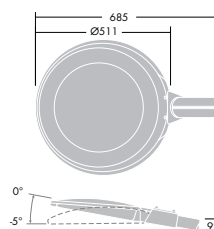
LED 28-138W

Standards

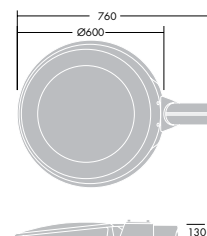
CE EN 60598 IP66 IK10 T₂₅

Description	Wt (kg)	SAP Code	Cat. No.
Dyana LED, Bi-power, Size 2			
DYANA2 LED 72L50 NR 740 BP CL1 MLE	14.70	96264384	DY123B8RSM
DYANA2 LED 72L50 NR 740 BP CL1 MLE PM	14.80	96264385	DY123B8MRSM
DYANA2 LED 72L50 NR 740 BP CL1 MTP	14.70	96264828	DY123B8RPT
DYANA2 LED 72L50 NR 740 BP CL1 MTP PM	14.70	96264829	DY123B8MRPT
DYANA2 LED 72L50 WS 740 BP CL1 MLE	14.70	96264377	DY123B8SSM
DYANA2 LED 72L50 WS 740 BP CL1 MLE PM	14.80	96264378	DY123B8MSSM
DYANA2 LED 48L50 NR 740 BP CL1 HT MLE	13.90	96264363	DY81B8RSM
DYANA2 LED 48L50 WS 740 BP CL1 HT MLE	13.90	96264348	DY81B8SSM
DYANA2 LED 72L70 NR 740 BP CL1 MLE	14.70	96264361	DY167B8RSM
DYANA2 LED 72L70 NR 740 BP CL1 MLE PM	14.80	96264362	DY167B8MRSM
DYANA2 LED 72L70 NR 740 BP CL1 MTP	16.80	96264830	DY167B8RPT
DYANA2 LED 72L70 NR 740 BP CL1 MTP PM	14.80	96264831	DY167B8MRPT
DYANA2 LED 72L70 WS 740 BP CL1 MLE	14.70	96264346	DY167B8SSM
DYANA2 LED 72L70 WS 740 BP CL1 MLE PM	14.80	96264347	DY167B8MSSM
Brackets			
DYANA 1XBRA 0,8 MTP D60 GRY		96264454	DY8PTB1
DYANA 1XBRA 1,2 MTP D60 GRY		96264455	DY12PTB1
DYANA 2XBRA 0,8 MTP D60 GRY		96264456	DY8PTB2
DYANA 2XBRA 1,2 MTP D60 GRY		96264457	DY12PTB2
DYANA MWA 0,4 GRY		96264458	DYBWM
Columns packages			
DYANA COL 5M 1xBRA 0,8 D60 GRY		96264459	DYCOL5B1
DYANA COL 6M 1xBRA 0,8 D60 GRY		96264460	DYCOL6B1
DYANA COL 7M 1xBRA 0,8 D60 GRY		96264461	DYCOL7B1
DYANA COL 7M 2xBRA 0,8 D60 GRY		96264462	DYCOL7B2
DYANA COL 7M 1xBRA 0,8 D60 MWA GRY		96264463	DYCOL7B1WM
DYANA COL 8M 1xBRA 1,2 D60 GRY		96264464	DYCOL8B1
DYANA COL 8M 2xBRA 1,2 D60 GRY		96264465	DYCOL8B2
DYANA COL 8M 1xBRA 1,2 D60 MWA GRY		96264466	DYCOL8B1WM
DYANA COL 9M 1xBRA 1,2 D60 GRY		96264467	DYCOL9B1
DYANA COL 9M 2xBRA 1,2 D60 GRY		96264468	DYCOL9B2
DYANA COL 9M 1xBRA 1,2 D60 MWA GRY		96264469	DYCOL9B1WM
DYANA COL 10M 1xBRA 1,2 D60 GRY		96264470	DYCOL10B1
DYANA COL 10M 2xBRA 1,2 D60 GRY		96264471	DYCOL10B2
DYANA COL 10M 1xBRA 1,2 D60 MWA GRY		96264472	DYCOL10B1WM
Adapter			
DYANA2 MTP76	Post top mounting on a 76mm spigot	96265718	DYPT76

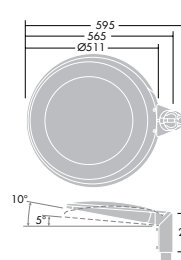
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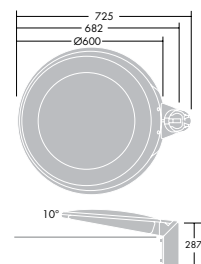
LED MLE Size 1 Scx 0,03m²



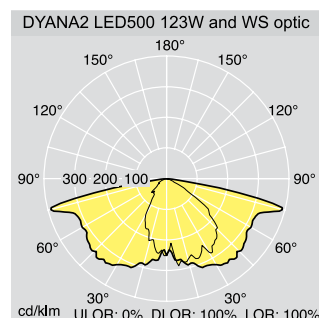
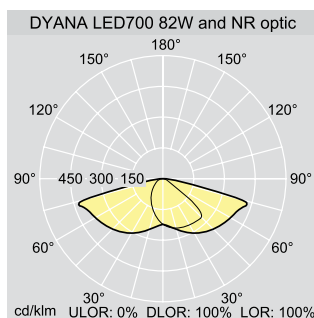
LED MLE Size 2 Scx 0,049m²



LED MTP Size 1 Scx 0,02m²



LED MTP Size 2 Scx 0,059m²





- Designed for use with high-efficiency LEDs in 33W (2600 lm), 49W (3800 lm), 98W (7800 lm) or 134W (12700 lm) configurations
- Post-top or side entry mounting, with adjustable +/- 15° tilting (Ø60 mm or Ø76 mm in 5° and 15° steps respectively)
- The heat sink and optic are protected to prevent gathering of dirt and dust and contoured to maximise airflow and minimise wind loading
- Optimised heat dissipation extends LED lifetime (>60,000 hrs, L70, 25°C Ta)

Materials/Finish

Body: powder coated die-cast aluminium, RAL 9006
Bracket: plain die-cast aluminium
Enclosure: PMMA

Installation/Mounting

Mounting of the luminaire on Ø60 mm or Ø76 mm (to be specified at order) side entry or post top. Variable tilting setting: Ø60 mm -15° to +15° in 5° steps and Ø76 mm -15° to +15° in 15° steps

Specification

To specify state:
A road lighting LED luminaire for lighting classes up to ME2. All around slim surfaces for performance longevity through optimised heat dissipation. The tilting of the lantern can be adjusted to optimise the light distribution for varying road geometries. With photocell options. As Thorn Indra.



Indra S



Indra S lateral mounting



Indra S top



Indra L



Indra L post-top mounting



Indra S without mounting adaptor

Lamps

LED 33-134W

Standards

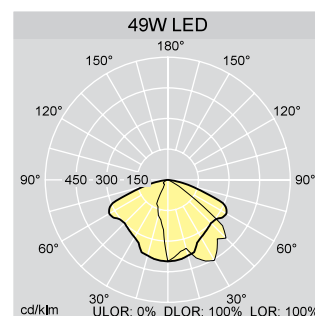
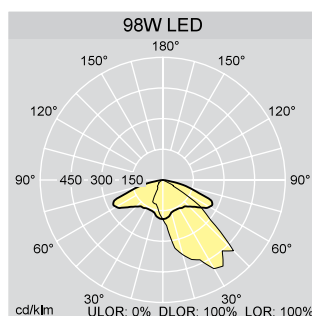
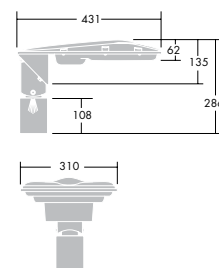
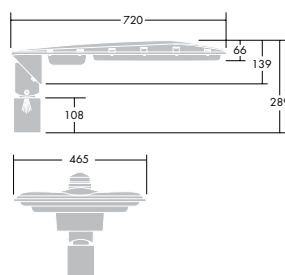
CE EN 60598 IP65 IP66 IK09

Ordering Guide

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Indra S			
INDRA S 20L50 BPL CL1 MA60	3.60	96262212	INS33BPL60
INDRA S 20L50 BPL CL1 MA76	3.80	96262213	INS33BPL76
INDRA S 20L50 CL1 PN MA60	3.70	96262214	INS33N60
INDRA S 20L50 CL1 PN MA76	3.70	96262215	INS33N76
INDRA S 30L50 BPL CL1 MA60	4.60	96259900	INS49BPL60
INDRA S 30L50 BPL CL1 MA76	4.80	96259901	INS49BPL76
INDRA S 30L50 CL1 PN MA60	4.80	96259902	INS49N60
INDRA S 30L50 CL1 PN MA76	4.90	96259903	INS49N76
Indra L			
INDRA L 60L50 BPL CL1 MA60	7.90	96259905	INL98BPL60
INDRA L 60L50 BPL CL1 MA76	8.10	96259906	INL98BPL76
INDRA L 60L50 CL1 PN MA60	7.90	96259907	INL98N60
INDRA L 60L50 CL1 PN MA76	8.10	96259908	INL98N76
INDRA L 90L50 BPL CL1 MA60	7.30	96262218	INL134BPL60
INDRA L 90L50 BPL CL1 MA76	7.30	96262219	INL134BPL76
INDRA L 90L50 CL1 PN MA60	7.40	96263993	INL134N60
INDRA L 90L50 CL1 PN MA76	7.40	96263995	INL134N76

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NEW

Isaro



www.thornlighting.co.uk/ISRO

High performance, accurately controlled lighting for minor and major roads



- High optical performance with adjustable tilting -20° to $+10^{\circ}$ for accurate lighting control
- Timeless simple style offers an excellent refurbishment solution and reduces daytime visual impact
- Designed for easy installation and maintenance with safe access to the lamp and gear tray from above with automatic disconnection
- Durable and re-cyclable full aluminium construction, protected to IP66

Materials/Finish

Body: die-cast aluminium powder coated grey RAL 9006 (other RAL colours on request)
 Bracket: plain die-cast aluminium or powder coated grey, RAL 9006 (other RAL colours on request)
 Enclosure: UV stabilised polycarbonate or toughened glass
 Screws and clip: stainless steel
 Reflector: anodised aluminium

Installation/Mounting

Suitable for mounting on top $\varnothing 76$ mm and side $\varnothing 42/60$ mm.
 Variable tilting setting: 0° to $+10^{\circ}$ on post top mounting and -20° to 0° on lateral mounting in 5° steps.
 Cable gland for $\varnothing 8$ to 12mm cable.
 Access from above to the gear and optic system after quick release of the stainless steel front clip and secure by an automatic disconnection.
 Delivered ready to install, complete with factory fitted integral gear tray and lamp, all supplied in a single carton.

Specification

To specify state:
 IP66 compact aluminium road lantern offering low cost of ownership due to easy installation and fast maintenance and its energy saving programs. Post-top and lateral mounting in $\varnothing 42/60/76$ mm with adjustable tilting $-20^{\circ}/+10^{\circ}$. For 45 to 150W lamps with photocell, electronic gear and dimming options. As Thorn Isaro.



Side mounted, flat glass version



Post top, flat glass version



Side mounted, shallow PC version



Post top, shallow PC version

Lamps

	CPO-TW (MT)	PGZ12	45-140W
	HST-MF (ST)	E40	50-150W

Standards



Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Isaro flat glass, magnetic			
ISARO 50W HST 240V CL1 EFL MA42 /L	6.30	96262940	ISS50FG42
ISARO 50W HST 240V CL1 EFL MA60 /L	6.25	96261721	ISS50FG60
ISARO 70W HST 240V CL1 EFL MA42/L	6.30	96262958	ISS70FG42
ISARO 70W HST 240V CL1 EFL MA60/L	6.25	96261763	ISS70FG60
ISARO 70W HST 240V CL1 EFL MA76 /L	6.30	96261766	ISS70FG76
ISARO 100W HST 240V CL1 EFL MA42 /L	6.41	96262931	ISS100FG42
ISARO 100W HST 240V CL1 EFL MA60 /L	6.35	96261731	ISS100FG60
ISARO 100W HST 240V CL1 EFL MA76 /L	6.41	96261736	ISS100FG76
ISARO 150W HST 240V CL1 EFL MA42 /L	6.11	96262952	ISS150FG42
ISARO 150W HST 240V CL1 EFL MA60 /L	6.06	96261741	ISS150FG60
ISARO 150W HST 240V CL1 EFL MA76 /L	6.11	96261746	ISS150FG76
Isaro flat glass, electronic			
ISARO 45W HIT-DGE CL1 EFL MA42 /L	5.62	96262955	ISM45FGZ42
ISARO 45W HIT-DGE CL1 EFL MA60 /L	5.56	96261681	ISM45FGZ60
ISARO 45W HIT-DGE CL1 EFL MA76 /L	5.62	96261684	ISM45FGZ76
ISARO 50W HST DGE CL1 EFL MA42 /L	5.59	96262943	ISS50FGZ42
ISARO 50W HST DGE CL1 EFL MA60 /L	5.53	96261674	ISS50FGZ60
ISARO 50W HST DGE CL1 EFL MA76 /L	5.59	96261677	ISS50FGZ76
ISARO 60W HIT-DGE CL1 EFL MA42 /L	5.62	96262937	ISM60FGZ42
ISARO 60W HIT-DGE CL1 EFL MA60 /L	5.56	96261687	ISM60FGZ60
ISARO 60W HIT-DGE CL1 EFL MA76 /L	5.62	96261690	ISM60FGZ76
ISARO 70W HST DGE CL1 EFL MA42 /L	5.09	96262932	ISS70FGZ42
ISARO 70W HST DGE CL1 EFL MA60 /L	5.03	96261666	ISS70FGZ60
ISARO 70W HST DGE CL1 EFL MA76 /L	5.09	96261670	ISS70FGZ76
ISARO 90W HIT-DGE CL1 EFL MA42 /L	5.62	96262928	ISM90FGZ42
ISARO 90W HIT-DGE CL1 EFL MA60 /L	5.57	96261626	ISM90FGZ60
ISARO 90W HIT-DGE CL1 EFL MA76 /L	5.62	96261637	ISM90FGZ76
ISARO 100W HST-DGE CL1 EFL MA42 /L	4.84	96262941	ISS100FGZ42
ISARO 100W HST-DGE CL1 EFL MA60 /L	4.79	96261648	ISS100FGZ60
ISARO 100W HST-DGE CL1 EFL MA76 /L	4.84	96261653	ISS100FGZ76
ISARO 140W HIT-DGE CL1 EFL MA42 /L	6.11	96262942	ISM140FGZ42
ISARO 140W HIT-DGE CL1 EFL MA60 /L	5.60	96261621	ISM140FGZ60
ISARO 140W HIT-DGE CL1 EFL MA76 /L	6.11	96261636	ISM140FGZ76
ISARO 150W HST-DGE CL1 EFL MA42 /L	5.41	96262959	ISS150FGZ42
ISARO 150W HST-DGE CL1 EFL MA60 /L	5.35	96261656	ISS150FGZ60
ISARO 150W HST-DGE CL1 EFL MA76 /L	5.41	96261661	ISS150FGZ76

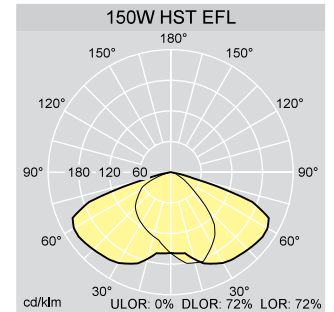
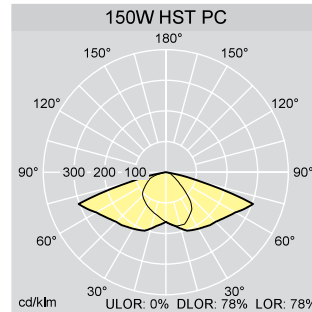
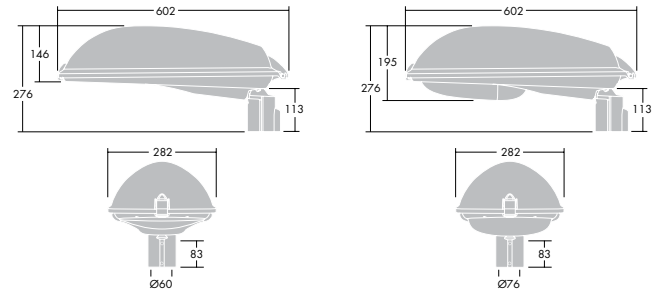
Description	Wt (kg)	SAP Code	Cat. No.
Isaro polycarbonate bowl, magnetic			
ISARO 50W HST 240V CL1 PC MA42 /L	6.07	96262944	ISS5042
ISARO 50W HST 240V CL1 PC MA60 /L	6.01	96261722	ISS5060
ISARO 50W HST 240V CL1 PC MA76 /L	6.07	96261727	ISS5076
ISARO 50W HST 240V CL1 PC PN MA42 /L	6.23	96262945	ISS50N42
ISARO 50W HST 240V CL1 PC PN MA60 /L	6.17	96261723	ISS50N60
ISARO 50W HST 240V CL1 PC PN MA76 /L	6.23	96261728	ISS50N76
ISARO 70W HST 240V CL1 PC MA42/L	6.07	96262962	ISS7042
ISARO 70W HST 240V CL1 PC MA60/L	6.01	96261764	ISS7060
ISARO 70W HST 240V CL1 PC MA76/L	6.07	96261767	ISS7076
ISARO 70W HST 240V CL1 PC PN MA42/L	6.23	96262963	ISS70N42
ISARO 70W HST 240V CL1 PC PN MA60/L	6.17	96261765	ISS70N60
ISARO 100W HST 240V CL1 PC MA42 /L	6.17	96262933	ISS10042
ISARO 100W HST 240V CL1 PC MA60 /L	6.12	96261732	ISS10060
ISARO 100W HST 240V CL1 PC MA76 /L	6.17	96261737	ISS10076
ISARO 100W HST 240V CL1 PC PN MA42 /L	6.33	96262934	ISS100N42
ISARO 100W HST 240V CL1 PC PN MA60 /L	6.28	96261733	ISS100N60
ISARO 100W HST 240V CL1 PC PN MA76 /L	6.33	96261738	ISS100N76
ISARO 150W HST 240V CL1 PC MA42 /L	5.88	96262953	ISS15042
ISARO 150W HST 240V CL1 PC MA60 /L	5.82	96261742	ISS15060
ISARO 150W HST 240V CL1 PC MA76 /L	5.88	96261747	ISS15076
ISARO 150W HST 240V CL1 PC PN MA42 /L	6.04	96262954	ISS150N42
ISARO 150W HST 240V CL1 PC PN MA60 /L	5.98	96261743	ISS150N60
ISARO 150W HST 240V CL1 PC PN MA76 /L	6.04	96261748	ISS150N76



High performance, accurately controlled lighting for minor and major roads

Description	Wt (kg)	SAP Code	Cat. No.
Isaro polycarbonate bowl, electronic			
ISARO 45W HIT-DGE CL1 PC MA42 /L	5.38	96262957	ISM45Z42
ISARO 45W HIT-DGE CL1 PC MA60 /L	5.32	96261680	ISM45Z60
ISARO 45W HIT-DGE CL1 PC MA76 /L	5.38	96261683	ISM45Z76
ISARO 45W HIT-DGE CL1 PC PN MA42 /L	5.54	96262956	ISM45ZN42
ISARO 45W HIT-DGE CL1 PC PN MA60 /L	5.48	96261679	ISM45ZN60
ISARO 45W HIT-DGE CL1 PC PN MA76 /L	5.54	96261682	ISM45ZN76
ISARO 50W HST DGE CL1 PC MA42 /L	5.35	96262950	ISS50Z42
ISARO 50W HST DGE CL1 PC MA60 /L	5.30	96261673	ISS50Z60
ISARO 50W HST DGE CL1 PC MA76 /L	5.35	96261676	ISS50Z76
ISARO 50W HST DGE CL1 PC PN MA42 /L	5.21	96262951	ISS50ZN42
ISARO 50W HST DGE CL1 PC PN MA60 /L	5.45	96261675	ISS50ZN60
ISARO 50W HST DGE CL1 PC PN MA76 /L	5.21	96261678	ISS50ZN76
ISARO 60W HIT-DGE CL1 PC MA42 /L	5.38	96262939	ISM60Z42
ISARO 60W HIT-DGE CL1 PC MA60 /L	5.32	96261686	ISM60Z60
ISARO 60W HIT-DGE CL1 PC MA76 /L	5.38	96261689	ISM60Z76
ISARO 60W HIT-DGE CL1 PC PN MA42 /L	5.54	96262938	ISM60ZN42
ISARO 60W HIT-DGE CL1 PC PN MA60 /L	5.48	96261685	ISM60ZN60
ISARO 60W HIT-DGE CL1 PC PN MA76 /L	5.54	96261688	ISM60ZN76
ISARO 70W HST DGE CL1 PC MA42 /L	4.85	96262935	ISS70Z42
ISARO 70W HST DGE CL1 PC MA60 /L	4.79	96261664	ISS70Z60
ISARO 70W HST DGE CL1 PC MA76 /L	4.85	96261669	ISS70Z76
ISARO 70W HST DGE CL1 PC PN MA42 /L	5.01	96262936	ISS70ZN42
ISARO 70W HST DGE CL1 PC PN MA60 /L	4.95	96261667	ISS70ZN60
ISARO 70W HST DGE CL1 PC PN MA76 /L	5.01	96261671	ISS70ZN76
ISARO 90W HIT-DGE CL1 PC MA42 /L	5.39	96262930	ISM90Z42
ISARO 90W HIT-DGE CL1 PC MA60 /L	5.33	96261618	ISM90Z60
ISARO 90W HIT-DGE CL1 PC MA76 /L	5.39	96261634	ISM90Z76
ISARO 90W HIT-DGE CL1 PC PN MA42 /L	5.54	96262929	ISM90ZN42
ISARO 90W HIT-DGE CL1 PC PN MA60 /L	5.49	96261617	ISM90ZN60
ISARO 90W HIT-DGE CL1 PC PN MA76 /L	5.54	96261633	ISM90ZN76
ISARO 100W HST-DGE CL1 PC MA42 /L	4.61	96262948	ISS100Z42
ISARO 100W HST-DGE CL1 PC MA60 /L	4.55	96261647	ISS100Z60
ISARO 100W HST-DGE CL1 PC MA76 /L	4.61	96261652	ISS100Z76
ISARO 100W HST-DGE CL1 PC PN MA42 /L	4.76	96262947	ISS100ZN42
ISARO 100W HST-DGE CL1 PC PN MA60 /L	4.70	96261646	ISS100ZN60
ISARO 100W HST-DGE CL1 PC PN MA76 /L	4.76	96261651	ISS100ZN76
ISARO 140W HIT-DGE CL1 PC MA42 /L	5.42	96262946	ISM140Z42
ISARO 140W HIT-DGE CL1 PC MA60 /L	5.36	96261613	ISM140Z60
ISARO 140W HIT-DGE CL1 PC MA76 /L	5.42	96261632	ISM140Z76
ISARO 140W HIT-DGE CL1 PC PN MA42 /L	5.57	96262949	ISM140ZN42
ISARO 140W HIT-DGE CL1 PC PN MA60 /L	5.52	96261620	ISM140ZN60
ISARO 140W HIT-DGE CL1 PC PN MA76 /L	5.57	96261635	ISM140ZN76
ISARO 150W HST-DGE CL1 PC MA42 /L	5.17	96262961	ISS150Z42
ISARO 150W HST-DGE CL1 PC MA60 /L	5.11	96261659	ISS150Z60
ISARO 150W HST-DGE CL1 PC MA76 /L	5.17	96261662	ISS150Z76
ISARO 150W HST-DGE CL1 PC PN MA42 /L	5.32	96262960	ISS150ZN42
ISARO 150W HST-DGE CL1 PC PN MA60 /L	5.27	96261655	ISS150ZN60
ISARO 150W HST-DGE CL1 PC PN MA76 /L	5.32	96261660	ISS150ZN76
Isaro Accessories			
ISARO LV FRONT+LV BACK	0.12	96261769	ISLV
ISARO MA34-42	0.30	96261772	IS3442
ISARO MA60	0.50	59004810	IS60
ISARO MA76	0.40	59004809	IS76

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NEW

Isaro LED



www.thornlighting.co.uk/ISRL

Economic, accurately controlled LED lighting for minor and major roads



Lamps

LED 15-84W

Standards

CE EN 60598 IP66 IK08 IK10

- Excellent heat dissipation and a long life time for low maintenance and a minimum total cost of ownership
- High optical performance with adjustable tilting -20° to +10° for accurate lighting control
- Timeless simple style offers an excellent refurbishment solution and reduces daytime visual impact
- Stand alone dimming for optimised energy usage

Materials/Finish

Body: die-cat aluminium powder coated grey, RAL 9006 (other RAL colours on request)
 Bracket: plain die-cast aluminium or powder coated grey, RAL 9006 (other RAL colours on request)
 Enclosures: UV stabilised polycarbonate or toughened glass
 Screws: stainless steel

Installation/Mounting

Suitable for mounting on top Ø76mm and side Ø60mm and Ø42mm.
 Variable tilting setting: 0° to +10° on post top mounting and -20° to 0° on lateral mounting, in 5° steps.
 Cable gland for Ø8 to 12mm cable.
 Delivered ready to install, complete with factory fitted integral gear tray, all supplied in a single carton.

Specification

To specify state:
 A cost effective road LED luminaire combining performance and energy savings for minor and major roads. Choice of photometries with adjustable tilting from -20° to +10° for accurate lighting control. Designed for long service life with excellent heat dissipation by optimising the path between the heat source and the exterior. Intergrated dimming system and photocell options.
 As Thorn Isaro LED.

OUTDOOR LIGHTING

STREET LIGHTING

NEW

Isaro LED



www.thornlighting.co.uk/ISRL

Economic, accurately controlled LED lighting for minor and major roads



Ordering Guide

Supplied complete with LEDs

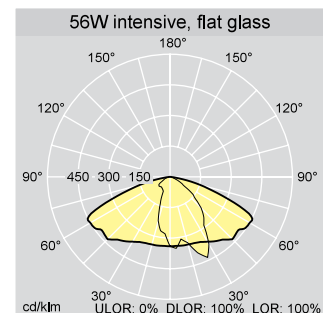
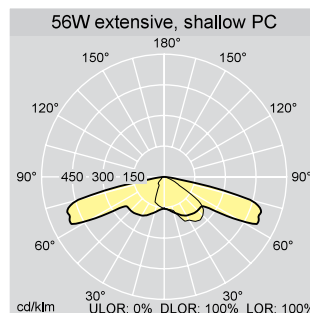
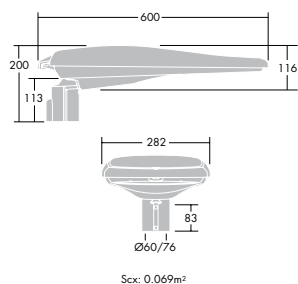
Description	Wt (kg)	SAP Code	Cat. No.
Isaro LED flat glass, narrow road distribution			
ISARO 24L35 NR EFL 740 CL1 MA42	5.36	96265109	IS26FG42
ISARO 24L35 NR EFL 740 CL1 MA60	5.47	96265110	IS26FG60
ISARO 24L35 NR EFL 740 CL1 MA76	5.52	96265111	IS26FG76
ISARO 24L50 NR EFL 740 CL1 MA42	5.36	96265117	IS39FG42
ISARO 24L50 NR EFL 740 CL1 MA60	5.47	96265118	IS39FG60
ISARO 24L50 NR EFL 740 CL1 MA76	5.52	96265119	IS39FG76
ISARO 36L35 NR EFL 740 CL1 MA42	5.36	96265205	IS38FG42
ISARO 36L35 NR EFL 740 CL1 MA60	5.47	96265224	IS38FG60
ISARO 36L35 NR EFL 740 CL1 MA76	5.52	96265216	IS38FG76
ISARO 24L70 NR EFL 740 CL1 MA42	5.36	96265128	IS56FG42
ISARO 24L70 NR EFL 740 CL1 MA60	5.47	96265129	IS56FG60
ISARO 24L70 NR EFL 740 CL1 MA76	5.52	96265130	IS56FG76
ISARO 36L50 NR EFL 740 CL1 MA42	5.40	96265202	IS58FG42
ISARO 36L50 NR EFL 740 CL1 MA60	5.51	96265220	IS58FG60
ISARO 36L50 NR EFL 740 CL1 MA76	5.57	96265208	IS58FG76
ISARO 36L70 NR EFL 740 CL1 MA42	5.35	96265194	IS84FG42
ISARO 36L70 NR EFL 740 CL1 MA60	5.51	96265206	IS84FG60
ISARO 36L70 NR EFL 740 CL1 MA76	5.57	96265197	IS84FG76
Isaro LED flat glass, narrow road distribution, photocell			
ISARO 24L50 NR EFL 740 CL1 PN MA42	5.52	96265120	IS39FGN42
ISARO 24L50 NR EFL 740 CL1 PN MA60	5.62	96265121	IS39FGN60
ISARO 24L50 NR EFL 740 CL1 PN MA76	5.68	96265122	IS39FGN76
ISARO 24L70 NR EFL 740 CL1 PN MA42	5.52	96265131	IS56FGN42
ISARO 24L70 NR EFL 740 CL1 PN MA60	5.62	96265132	IS56FGN60
ISARO 24L70 NR EFL 740 CL1 PN MA76	5.68	96265133	IS56FGN76
ISARO 36L50 NR EFL 740 CL1 PN MA42	5.36	96265219	IS58FGN42
ISARO 36L50 NR EFL 740 CL1 PN MA60	5.46	96265227	IS58FGN60
ISARO 36L50 NR EFL 740 CL1 PN MA76	5.72	96265222	IS58FGN76
ISARO 36L70 NR EFL 740 CL1 PN MA42	5.56	96265203	IS84FGN42
ISARO 36L70 NR EFL 740 CL1 PN MA60	5.67	96265221	IS84FGN60
ISARO 36L70 NR EFL 740 CL1 PN MA76	5.72	96265212	IS84FGN76

Description	Wt (kg)	SAP Code	Cat. No.
Isaro LED flat glass, narrow road distribution, bi-power			
ISARO 12L35 BP SW NR EFL 740 CL1 MA42	5.32	96265055	IS14FGB842
ISARO 12L35 BP SW NR EFL 740 CL1 MA60	5.43	96265056	IS14FGB860
ISARO 12L35 BP SW NR EFL 740 CL1 MA76	5.48	96265057	IS14FGB876
ISARO 12L50 BP SW NR EFL 740 CL1 MA42	5.32	96265062	IS20FGB842
ISARO 12L50 BP SW NR EFL 740 CL1 MA60	5.43	96265063	IS20FGB860
ISARO 12L50 BP SW NR EFL 740 CL1 MA76	5.48	96265064	IS20FGB876
ISARO 12L70 BP SW NR EFL 740 CL1 MA42	5.32	96265068	IS28FGB842
ISARO 12L70 BP SW NR EFL 740 CL1 MA60	5.43	96265069	IS28FGB860
ISARO 12L70 BP SW NR EFL 740 CL1 MA76	5.48	96265070	IS28FGB876
ISARO 24L35 BP NR EFL 740 CL1 MA42	5.36	96265113	IS26FGB842
ISARO 24L35 BP NR EFL 740 CL1 MA60	5.47	96265114	IS26FGB860
ISARO 24L35 BP NR EFL 740 CL1 MA76	5.57	96265115	IS26FGB876
ISARO 24L50 BP NR EFL 740 CL1 MA42	5.36	96265124	IS39FGB842
ISARO 24L50 BP NR EFL 740 CL1 MA60	5.47	96265125	IS39FGB860
ISARO 24L50 BP NR EFL 740 CL1 MA76	5.52	96265126	IS39FGB876
ISARO 36L35 BP NR EFL 740 CL1 MA42	5.40	96265209	IS38FGB842
ISARO 36L35 BP NR EFL 740 CL1 MA60	5.51	96265226	IS38FGB860
ISARO 36L35 BP NR EFL 740 CL1 MA76	5.57	96265218	IS38FGB876
ISARO 24L70 BP NR EFL 740 CL1 MA42	5.36	96265138	IS56FGB842
ISARO 24L70 BP NR EFL 740 CL1 MA60	5.47	96265139	IS56FGB860
ISARO 24L70 BP NR EFL 740 CL1 MA76	5.52	96265140	IS56FGB876
ISARO 36L50 BP NR EFL 740 CL1 MA42	5.40	96265204	IS58FGB842
ISARO 36L50 BP NR EFL 740 CL1 MA60	5.51	96265223	IS58FGB860
ISARO 36L50 BP NR EFL 740 CL1 MA76	5.57	96265214	IS58FGB876
ISARO 36L70 BP NR EFL 740 CL1 MA42	5.40	96265196	IS84FGB842
ISARO 36L70 BP NR EFL 740 CL1 MA60	5.51	96265213	IS84FGB860
ISARO 36L70 BP NR EFL 740 CL1 MA76	5.57	96265199	IS84FGB876
Isaro LED flat glass, narrow road distribution, bi-power, photocell			
ISARO 12L70 BP SW NR EFL 740 CL1 PN MA42	5.48	96265071	IS28FGB8N42
ISARO 12L70 BP SW NR EFL 740 CL1 PN MA60	5.59	96265072	IS28FGB8N60
ISARO 12L70 BP SW NR EFL 740 CL1 PN MA76	5.64	96265073	IS28FGB8N76
ISARO 24L70 BP NR EFL 740 CL1 PN MA42	5.52	96265137	IS56FGB8N42
ISARO 24L70 BP NR EFL 740 CL1 PN MA60	5.62	96265141	IS56FGB8N60
ISARO 24L70 BP NR EFL 740 CL1 PN MA76	5.68	96265142	IS56FGB8N76
ISARO 36L70 BP NR EFL 740 CL1 PN MA42	5.56	96265207	IS84FGB8N42
ISARO 36L70 BP NR EFL 740 CL1 PN MA60	5.67	96265225	IS84FGB8N60
ISARO 36L70 BP NR EFL 740 CL1 PN MA76	5.72	96265217	IS84FGB8N76

Description	Wt (kg)	SAP Code	Cat. No.
Isaro LED polycarbonate bowl, wide street distribution			
ISARO 24L35 WS PC 740 CL1 MA42	5.19	96265152	IS2642
ISARO 24L35 WS PC 740 CL1 MA60	5.30	96265153	IS2660
ISARO 24L35 WS PC 740 CL1 MA76	5.31	96265154	IS2676
ISARO 24L50 WS PC 740 CL1 MA42	5.20	96265161	IS3942
ISARO 24L50 WS PC 740 CL1 MA60	5.26	96265162	IS3960
ISARO 24L50 WS PC 740 CL1 MA76	5.31	96265163	IS3976
ISARO 36L35 WS PC 740 CL1 MA42	5.19	96265247	IS3842
ISARO 36L35 WS PC 740 CL1 MA60	5.30	96265263	IS3860
ISARO 36L35 WS PC 740 CL1 MA76	5.31	96265257	IS3876
ISARO 24L70 WS PC 740 CL1 MA42	5.15	96265173	IS5642
ISARO 24L70 WS PC 740 CL1 MA60	5.26	96265174	IS5660
ISARO 24L70 WS PC 740 CL1 MA76	5.31	96265175	IS5676
ISARO 36L50 WS PC 740 CL1 MA42	5.19	96265245	IS5842
ISARO 36L50 WS PC 740 CL1 MA60	5.30	96265261	IS5860
ISARO 36L50 WS PC 740 CL1 MA76	5.36	96265252	IS5876
ISARO 36L70 WS PC 740 CL1 MA42	5.19	96265236	IS8442
ISARO 36L70 WS PC 740 CL1 MA60	5.30	96265249	IS8460
ISARO 36L70 WS PC 740 CL1 MA76	5.36	96265238	IS8476
Isaro LED polycarbonate bowl, wide street distribution, photocell			
ISARO 24L50 WS PC 740 CL1 PN MA42	5.31	96265164	IS39N42
ISARO 24L50 WS PC 740 CL1 PN MA60	5.41	96265165	IS39N60
ISARO 24L50 WS PC 740 CL1 PN MA76	5.47	96265166	IS39N76
ISARO 24L70 WS PC 740 CL1 PN MA42	5.32	96265176	IS56N42
ISARO 24L70 WS PC 740 CL1 PN MA60	5.41	96265177	IS56N60
ISARO 24L70 WS PC 740 CL1 PN MA76	5.47	96265178	IS56N76
ISARO 36L50 WS PC 740 CL1 PN MA42	5.17	96265260	IS58N42
ISARO 36L50 WS PC 740 CL1 PN MA60	5.27	96265268	IS58N60
ISARO 36L70 WS PC 740 CL1 PN MA42	5.36	96265244	IS84N42
ISARO 36L70 WS PC 740 CL1 PN MA60	5.45	96265262	IS84N60
ISARO 36L50 WS PC 740 CL1 PN MA76	5.51	96265264	IS58N76
ISARO 36L70 WS PC 740 CL1 PN MA76	5.51	96265250	IS84N76

Description	Wt (kg)	SAP Code	Cat. No.
Isaro LED polycarbonate bowl, wide street distribution, bi-power			
ISARO 12L35 BP SW WS PC 740 CL1 MA42	5.27	96265085	IS14B842
ISARO 12L35 BP SW WS PC 740 CL1 MA60	5.22	96265086	IS14B860
ISARO 12L35 BP SW WS PC 740 CL1 MA76	5.27	96265087	IS14B876
ISARO 12L50 BP SW WS PC 740 CL1 MA42	5.11	96265092	IS20B842
ISARO 12L50 BP SW WS PC 740 CL1 MA60	5.22	96265093	IS20B860
ISARO 12L50 BP SW WS PC 740 CL1 MA76	5.27	96265094	IS20B876
ISARO 12L70 BP SW WS PC 740 CL1 MA42	4.66	96265098	IS28B842
ISARO 12L70 BP SW WS PC 740 CL1 MA60	5.22	96265099	IS28B860
ISARO 12L70 BP SW WS PC 740 CL1 MA76	5.27	96265100	IS28B876
ISARO 12L70 BP SW WS PC 740 CL1 PN MA42	5.27	96265101	IS28B8N42
ISARO 12L70 BP SW WS PC 740 CL1 PN MA60	5.38	96265102	IS28B8N60
ISARO 12L70 BP SW WS PC 740 CL1 PN MA76	5.43	96265103	IS28B8N76
ISARO 24L35 BP WS PC 740 CL1 MA42	5.19	96265156	IS26B842
ISARO 24L35 BP WS PC 740 CL1 MA60	5.30	96265157	IS26B860
ISARO 24L35 BP WS PC 740 CL1 MA76	5.31	96265158	IS26B876
ISARO 24L50 BP WS PC 740 CL1 MA42	5.36	96265168	IS39B842
ISARO 24L50 BP WS PC 740 CL1 MA60	5.26	96265169	IS39B860
ISARO 24L50 BP WS PC 740 CL1 MA76	5.31	96265170	IS39B876
ISARO 36L35 BP WS PC 740 CL1 MA42	5.19	96265251	IS38B842
ISARO 36L50 BP WS PC 740 CL1 MA42	5.19	96265246	IS58B842
ISARO 36L35 BP WS PC 740 CL1 MA60	5.30	96265267	IS38B860
ISARO 36L35 BP WS PC 740 CL1 MA76	5.31	96265259	IS38B876
ISARO 24L70 BP WS PC 740 CL1 MA42	5.15	96265181	IS56B842
ISARO 24L70 BP WS PC 740 CL1 MA60	5.26	96265182	IS56B860
ISARO 24L70 BP WS PC 740 CL1 MA76	5.31	96265183	IS56B876
ISARO 36L50 BP WS PC 740 CL1 MA60	5.30	96265265	IS58B860
ISARO 36L50 BP WS PC 740 CL1 MA76	5.36	96265255	IS58B876
ISARO 36L70 BP WS PC 740 CL1 MA42	5.19	96265237	IS84B842
ISARO 36L70 BP WS PC 740 CL1 MA60	5.30	96265256	IS84B860
ISARO 36L70 BP WS PC 740 CL1 MA76	5.36	96265241	IS84B876
Isaro LED polycarbonate bowl, wide street distribution, bi-power, photocell			
ISARO 24L70 BP WS PC 740 CL1 PN MA42	5.31	96265184	IS56B8N42
ISARO 24L70 BP WS PC 740 CL1 PN MA60	5.41	96265185	IS56B8N60
ISARO 24L70 BP WS PC 740 CL1 PN MA76	5.47	96265186	IS56B8N76
ISARO 36L70 BP WS PC 740 CL1 PN MA42	5.35	96265248	IS84B8N42
ISARO 36L70 BP WS PC 740 CL1 PN MA60	5.46	96265266	IS84B8N60
ISARO 36L70 BP WS PC 740 CL1 PN MA76	5.51	96265258	IS84B8N76
Isaro LED Adapters & Adapter shim			
ISARO LV FRONT+LV BACK		96261769	ISLV
ISARO MA34-42		96261772	IS3442
ISARO MA76		59004809	IS76
ISARO MA60		59004810	IS60

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Jet



www.thornlighting.co.uk/JETA

Compact, aluminium bodied road lantern in two sizes with high optical performance and product durability; sealed to IP66



- Simple, robust and fully recyclable construction with gear and optics contained within the same IP66 housing
- Wide range of lamp options suitable for many applications including: car parks, minor and major roads, public spaces and residential areas via a "soft" cut-off optic
- Easy adjustable lamp settings allow perfect light distribution control.
- Delivered ready to install in a single carton, complete with factory fitted integral gear tray

Materials/Finish

Body: die cast LM24 aluminium, powder coated finish (RAL 9006)
Enclosure: UV stabilised polycarbonate
Gaskets: neoprene, black finish
Gear tray / lampholder: galvanised steel
Reflector: high purity punched aluminium
Screw fixings: stainless steel
Clip: stainless steel

Installation/Mounting

Suitable for side entry $\text{\O}42\text{-}60\text{mm}$.
Cable gland for $\text{\O}8\text{-}13\text{mm}$ cable.
Mounting accessory post top $\text{\O}60$ or 76mm with $5^\circ / 10^\circ / 15^\circ$ step tilting angle. Spigot depth: 100mm . Access to lamp from below via hinged enclosure released by single stainless steel toggle clip. Replacement of lamp possible in seconds without tools. Access to integral gear tray via enclosure. Gear tray secured to body by two screws. Delivered ready to install, complete with factory fitted integral gear tray, all supplied in a single carton

Specification

To specify state:
Aluminium IP66 compact street lantern for $50\text{-}150\text{W}$ HST high pressure tubular / $50\text{-}150\text{W}$ HIT-CE ceramic metal halide / $42\text{-}70\text{W}$ TC-TEL compact fluorescent lamps.
For side entry mounting $\text{\O}42\text{-}60\text{mm}$, with zero tilt, or post-top $\text{\O}60$ or 76mm (mounting accessory) with $5^\circ / 10^\circ / 15^\circ$ optional tilt angle.
As Thorn Jet



Lamps

	HIT-CE E27 (MT)	E27	70W
	HST-MF (ST)	E27	50-70W
	TC-TELI (FSM)	GX24q-5	57W

Standards

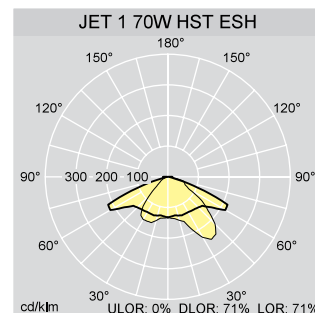
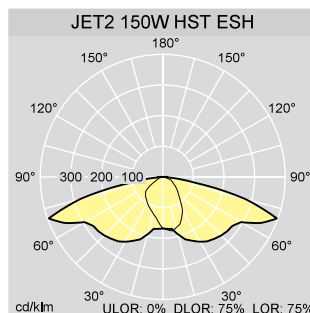
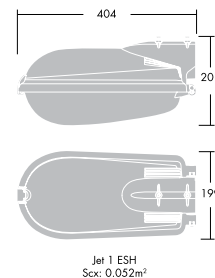
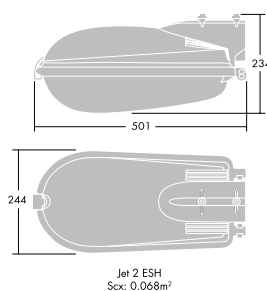
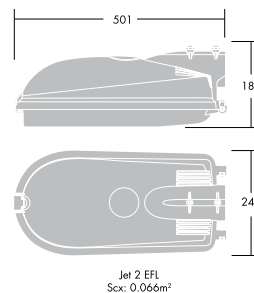


Ordering Guide

Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Jet Size 1, electronic, shallow bowl			
JET1 CL1 57W TC-TEL ESH IP66/L	3.50	96259316	JES7
JET1 CL1 57W TC-TEL PN ESH/L	2.90	96259318	JES7N
Jet Size 1, conventional, shallow bowl			
JET1 CL1 50W 240V HST PN ESH/L	3.50	96259317	JES50N
JET1 CL1 70W 240V HIT CE PN ESH/L	4.00	96259314	JEM70N
JET1 CL1 70W 240V HIT CE ESH IP66/L		96259312	JEM70
JET1 CL1 70W 240V HST ESH IP66/L	3.80	96259313	JES70
JET1 CL1 70W 240V HST PN ESH/L	3.70	96259315	JES70N
Jet Accessories			
JET MTP BRA D60	0.60	96219232	JEMA60
JET MTP BRA D76	0.60	96219665	JEMA76

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NEW

Olsys Street



www.thornlighting.co.uk/OSYR

Versatile street lantern employing a state-of-the-art LED engine for performance and efficiency



- State-of-the-art LED engine in line with EN13201 and European recommendations (ULOR 0%, above 70lm/W in 4000K) to cover projects up to ME3
- Complete with power reduction to reduce energy consumption during the night
- Exceptionally low cost of ownership with an optimised heat management system to provide a lifetime up to 80,000 hours (L70, 25°) without dimming
- Discreet design is coordinated with other Olsys luminaires and available with a wide choice of mounting types and column packages

Materials/Finish

Body: die-cast aluminium (AS9U) powder coated silver grey 9006 finish

Enclosure: size 1 clear UV stabilised PC size 2: tempered glass

Optics: size 1 PC, size 2 micro reflectors in highly reflective anodised aluminium

Screws: stainless steel

Brackets and mounting accessories: aluminium

Installation/Mounting

Fitting and mounting accessories delivered separately.

Product supplied pre-wired with connector

Recommended mounting heights:

Olsys Street 1: 4m

Olsys Street 2: 6 to 8m

Coordinated columns and brackets:

cylindro-conical or curved

Access to gear (replaceable) via 4 screws from the canopy

Specification

To specify state:

IP66 LED street lantern with 24/45/70/90W (up to 7000lm)

LED packages, powder coated silver grey 9006, integrated dimming system and coordinated decorative columns and brackets.

As Thorn Olsys Street.

Ordering Guide

To order a complete fitting, please select a luminaire, a mounting attachment and a column when relevant. Complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Olsys 1 street			
OLSYS1 10L70 730 CL1 BP5 PM STR	2.80	96262316	OY1S3K24B5M
OLSYS1 10L70 730 CL1 BP5 STR	2.80	96262314	OY1S3K24B5
OLSYS1 10L70 740 CL1 BP5 PM STR	2.80	96262315	OY1S4K24B5M
OLSYS1 10L70 740 CL1 BP5 STR	2.80	96262313	OY1S4K24B5
OLSYS1 20L70 730 CL1 BP5 PM STR	2.80	96262320	OY1S3K45B5M
OLSYS1 20L70 730 CL1 BP5 STR	2.80	96262318	OY1S3K45B5
OLSYS1 20L70 740 CL1 BP5 PM STR	2.80	96262319	OY1S4K45B5M
OLSYS1 45W/BP5 LED CL1 4000K STR	2.80	96262317	OY1S4K45B5
Olsys 1 street, mounting accessories			
OLSYS1 BRA 500MM MTP	3.90	96262300	OY1SB5
OLSYS1 BRx2 1000MM MTP	6.90	96262301	OY1SDB10
OLSYS1 MLE 47MA	1.00	96262302	OY1SMA47
OLSYS1 MLE 60MA	1.20	96262297	OY1SMA60
OLSYS1 MPT 60/76 x2	2.10	96262299	OY1SDPT6076
OLSYS1 MTP 60/76	1.40	96262298	OY1SPT6076
Olsys 1 street, cylindro-conical columns			
OLSYS COL 4M CCO BRAX2 MPL FAI SIL	40.00	96262333	OY1SCC4FPDB
OLSYS COL 4M CCO MPL FAI SIL	40.00	96262360	OY1SCC4FP
Olsys 1 street, curved columns			
OLSYS COL 4M CURV MPL FAI SIL	96.00	96262365	OY1SCOL4FP
OLSYS COLX2 4M CURV MPL FAI SIL	120.00	96262366	OY1SDCOL4FP



Double long bracket



Double long bracket



Post top bracket



Side entry with curved pole

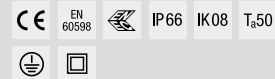


Double post top bracket

Lamps

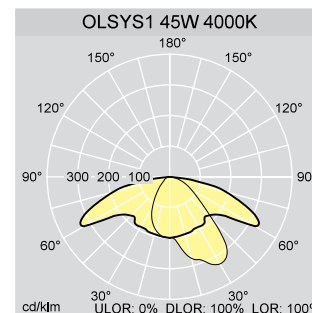
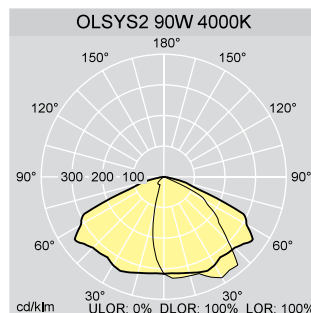
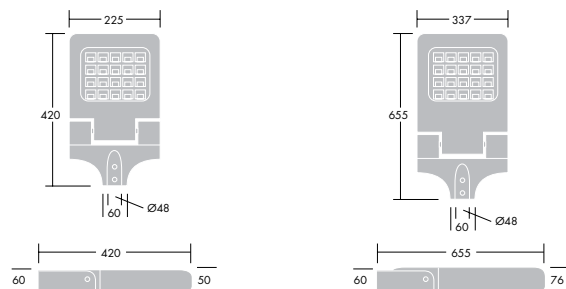
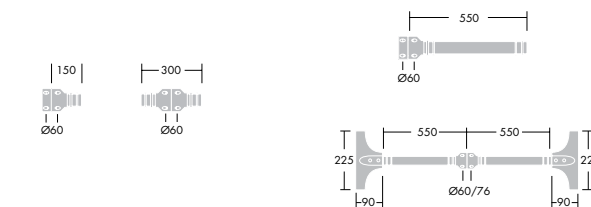
LED 24-90W

Standards



Description	Wt (kg)	SAP Code	Cat. No.
Olsys 2 street			
OLSYS2 30L70 730 CL1 BP8 PM STR	8.45	96262328	OY2S3K70B8M
OLSYS2 30L70 730 CL1 BP8 STR	8.45	96262326	OY2S3K70B8
OLSYS2 30L70 740 CL1 BP8 PM STR	8.45	96262327	OY2S4K70B8M
OLSYS2 30L70 740 CL1 BP8 STR	8.45	96262325	OY2S4K70B8
OLSYS2 40L70 730 CL1 BP8 PM STR	8.45	96262332	OY2S3K90B8M
OLSYS2 40L70 730 CL1 BP8 STR	8.45	96262330	OY2S3K90B8
OLSYS2 40L70 740 CL1 BP8 PM STR	8.45	96262331	OY2S4K90B8M
OLSYS2 40L70 740 CL1 BP8 STR	8.45	96262329	OY2S4K90B8
Olsys 2 street, mounting accessories			
OLSYS2 BRA 500MM MTP	5.30	96262306	OY2SB5
OLSYS2 BRx2 1000MM MTP	10.00	96262307	OY2SDB10
OLSYS2 MLE 47MA	2.50	96262308	OY2SMA47
OLSYS2 MLE 60MA	2.60	96262303	OY2SMA60
OLSYS2 MPT 60/76	2.90	96262304	OY2APT60
OLSYS2 MPT 60/76 x2	5.00	96262305	OY2SDPT6076
Olsys 2 street, cylindro-conical columns			
OLSYS COL 6M CCO BRAX2 MPL FAI SIL	92.00	96262335	OY2SCC6FPDB
OLSYS COL 6M CCO MPL FAI SIL	60.00	96262361	OY2SCC6FP
OLSYS COL 8M CCO + BRA 4M MPL FAI SIL	82.00	96262363	OY2SCC8FPB
OLSYS COL 8M CCO BRAX2 MPL FAI SIL	120.00	96262665	OY2SCC8FPDB
OLSYS COL 8M CCO MPL FAI SIL	80.00	96262362	OY2SCC8FP
Olsys 2 street, curved columns			
OLSYS COL 6M CURV MPL FAI SIL	127.00	96262367	OY2SCOL6FP
OLSYS COL 8M CURV MPL FAI SIL	124.00	96262369	OY2SCOL8FP
OLSYS COL 8M CURV+ BRA 4M MPL FAI SIL	131.00	96262371	OY2SCOL8FPB
OLSYS COLX2 6M CURV MPL FAI SIL	146.00	96262368	OY2SDCOL6FP
OLSYS COLX2 8M CURV MPL FAI SIL	162.00	96262370	OY2SDCOL8FP

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Oracle



www.thornlighting.co.uk/ORCL

Range of high performance, IP66, road lanterns with future-proof eco credentials; in three sizes for 35-600W lamps



- Choice of different optics and enclosures and versatility of mounting ensure optimised performances
- Long lasting construction and vandal resistance features for extended life time
- Economical in use with easy installation, fast maintenance and energy savings programs
- Minimised environmental footprint through product design and life cycle requirements

Materials/Finish

Body and spigot: die-cast aluminium
Enclosures: UV stabilised polycarbonate or toughened glass
Screws and clip: stainless steel, finish powder-coated
Size 1&2: (RAL 9006) Size S: texturised light grey (Akzo Futura 150, close to RAL 9006)

Installation/Mounting

Integral tool free rotating spigot secured by 2 screws with safety bolts. Post-top mounting: Ø60/76mm x 80mm long spigot. Tilted to 5°. Lateral mounting: CL1 - Ø34/42/49/60mm x 120mm / CL2 - Ø49/60mm x 120mm long spigot. Tilted to 0°. Cable gland for Ø8-13mm cable. Access from above to gear and optic system after quick release of the stainless steel front clip. Delivered ready to install, complete with factory fitted integral gear tray, all supplied in a single carton

Specification

To specify state:
Double rated IP66 aluminium traffic lighting fitting. For 35 to 600W lamps. From 34mm side to 76mm top mounting, integral rotating spigot. Tool free access to and removal of lamp and gear tray. With options for photocells, electronic gears, dimming and lighting management system.
As Thorn Oracle



Lamps

	(ST/MT)	E27	70W
	CPO-TW (MT)	PGZ12	60-140W
	HIT-CE (MT)	E40	45-150W
	HIT-CE E27 (MT)	E27	70W
	HST/HIT (ST/MT)	E40	70-400W
	HST/HIT-CE (ST/MT)	E40	100-150W
	HST-MF (ST)	E40	70-400W
	TC-TELI (FSM)	GX24q-5	42-57W
	HIT (MT)	E40	150-400W

Standards



Ordering Guide

Supplied complete with lamps

Description	SAP Code	Cat. No.
Oracle Size S, flat glass, electronic		
ORACLE S 45W HIT-CE CL1 EFL PN/L	96259301	ORSM45FGZN
ORACLE S 45W HIT-CE CL1 EFL/L	96259302	ORSM45FGZ
ORACLE S 60W HIT-CE CL1 EFL PN/L	96259285	ORSM60FGZN
ORACLE S 60W HIT-CE CL1 EFL/L	96259286	ORSM60FGZ
ORACLE S 70W HIT-DGE CL1 EFL/L	96259339	ORSM70FGZ
ORACLE S 70W HIT-DGE EFL CL1 PN/L	96259282	ORSM70FGZN
ORACLE S 70W HST-DGE CL1 EFL/L	96259338	ORSS70FGZ
ORACLE S 70W HST-DGE EFL CL1 PN/L	96259279	ORSS70FGZN
ORACLE S 90W HIT-CE CL1 EFL PN/L	96259305	ORSM90FGZN
ORACLE S 90W HIT-CE CL1 EFL/L	96259306	ORSM90FGZ
ORACLE S 100W HIT-DGE CL1 EFL PN/L	96259275	ORSM100FGZN
ORACLE S 100W HIT-DGE CL1 EFL/L	96259276	ORSM100FGZ
ORACLE S 100W HST-DGE CL1 EFL PN/L	96259359	ORSS100FGZN
ORACLE S 100W HST-DGE CL1 EFL/L	96259360	ORSS100FGZ
ORACLE S 140W HIT-CE CL1 EFL PN/L	96259271	ORSM140FGZN
ORACLE S 140W HIT-CE CL1 EFL/L	96259272	ORSM140FGZ
ORACLE S 150W HIT-DGE CL1 EFL PN/L	96259267	ORSM150FGZN
ORACLE S 150W HIT-DGE CL1 EFL/L	96259268	ORSM150FGZ
ORACLE S 150W HST-DGE CL1 EFL PN/L	96259355	ORSS150FGZN
ORACLE S 150W HST-DGE CL1 EFL/L	96259356	ORSS150FGZ
Oracle Size S, flat glass, conventional		
ORACLE S 70W HIT 240V CL1 EFL PN/L	96259291	ORSM70FGN
ORACLE S 70W HIT 240V CL1 EFL/L	96259297	ORSM70FG
ORACLE S 70W HST 240V CL1 EFL PN/L	96259365	ORSS70FGN
ORACLE S 70W HST 240V CL1 EFL/L	96259371	ORSS70FG
ORACLE S 100W HIT 240V CL1 EFL PN/L	96259289	ORSM100FGN
ORACLE S 100W HST 240V CL1 EFL PN/L	96259363	ORSS100FGN
ORACLE S 150W HIT 240V CL1 EFL/L	96259293	ORSM150FG
ORACLE S 150W HIT 240V CL1 EFL PN/L	96259287	ORSM150FGN
ORACLE S 150W HST 240V CL1 EFL PN/L	96259361	ORSS150FGN
ORACLE S 150W HST 240V CL1 EFL/L	96259367	ORSS150FG

Description	SAP Code	Cat. No.
Oracle Size S, shallow glass, electronic		
ORACLE S 45W HIT-CE CL1 GL PN/L	96259335	ORSM45SGZN
ORACLE S 45W HIT-CE CL1 GL/L	96259349	ORSM45SGZ
ORACLE S 60W HIT-CE CL1 GL PN/L	96259331	ORSM60SGZN
ORACLE S 60W HIT-CE CL1 GL/L	96259344	ORSM60SGZ
ORACLE S 70W HIT-DGE CL1 GL PN/L	96259329	ORSM70SGZN
ORACLE S 70W HIT-DGE CL1 GL/L	96259330	ORSM70SGZ
ORACLE S 70W HST-DGE CL1 GL PN/L	96259328	ORSS70SGZN
ORACLE S 70W HST-DGE CL1 GL/L	96259343	ORSS70SGZ
ORACLE S 90W HIT-CE CL1 GL PN/L	96259336	ORSM90SGZN
ORACLE S 90W HIT-CE CL1 GL/L	96259348	ORSM90SGZ
ORACLE S 100W HIT-DGE CL1 GL PN/L	96259327	ORSM100SGZN
ORACLE S 100W HIT-DGE CL1 GL/L	96259342	ORSM100SGZ
ORACLE S 100W HST-DGE CL1 GL PN/L	96259376	ORSS100SGZN
ORACLE S 100W HST-DGE CL1 GL/L	96259381	ORSS100SGZ
ORACLE S 140W HIT-CE CL1 GL/L	96259341	ORSM140SGZ
ORACLE S 140W HIT-CE CL1 GL PN/L	96259326	ORSM140SGZN
ORACLE S 150W HIT-DGE CL1 GL PN/L	96259311	ORSM150SGZN
ORACLE S 150W HIT-DGE CL1 GL/L	96259340	ORSM150SGZ
ORACLE S 150W HST-DGE CL1 GL PN/L	96259375	ORSS150SGZN
ORACLE S 150W HST-DGE CL1 GL/L	96259380	ORSS150SGZ
Oracle Size S, shallow glass, conventional		
ORACLE S 70W HIT 240V CL1 GL PN/L	96259334	ORSM70SGN
ORACLE S 70W HIT 240V CL1 GL/L	96259347	ORSM70SG
ORACLE S 70W HST 240V CL1 GL PN/L	96259379	ORSS70SGN
ORACLE S 100W HIT 240V CL1 GL PN/L	96259333	ORSM100SGN
ORACLE S 100W HIT 240V CL1 GL/L	96259346	ORSM100SG
ORACLE S 100W HST 240V CL1 GL PN/L	96259378	ORSS100SGN
ORACLE S 100W HST 240V CL1 GL/L	96259383	ORSS100SG
ORACLE S 150W HIT 240V CL1 GL PN/L	96259332	ORSM150SGN
ORACLE S 150W HIT 240V CL1 GL/L	96259345	ORSM150SG
ORACLE S 150W HST 240V CL1 GL PN/L	96259377	ORSS150SGN
ORACLE S 150W HST 240V CL1 GL/L	96259382	ORSS150SG



Range of high performance, IP66, road lanterns with future-proof eco credentials; in three sizes for 35-600W lamps

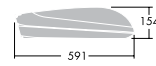
Description	SAP Code	Cat. No.
Oracle Size S, shallow polycarbonate, electronic		
ORACLE S 45W HIT-CE CL1 PC PN/L	96259299	ORSM45ZN
ORACLE S 45W HIT-CE CL1 PC/L	96259300	ORSM45Z
ORACLE S 60W HIT-CE CL1 PC PN/L	96259283	ORSM60ZN
ORACLE S 60W HIT-CE CL1 PC/L	96259284	ORSM60Z
ORACLE S 70W HIT-DGE CL1 PC PN/L	96259280	ORSM70ZN
ORACLE S 70W HIT-DGE CL1 PC/L	96259281	ORSM70Z
ORACLE S 70W HST-DGE CL1 PC PN/L	96259277	ORSS70ZN
ORACLE S 70W HST-DGE CL1 PC/L	96259278	ORSS70Z
ORACLE S 90W HIT-CE CL1 PC PN/L	96259303	ORSM90ZN
ORACLE S 90W HIT-CE CL1 PC/L	96259304	ORSM90Z
ORACLE S 100W HIT-DGE CL1 PC PN/L	96259273	ORSM100ZN
ORACLE S 100W HIT-DGE CL1 PC/L	96259274	ORSM100Z
ORACLE S 100W HST-DGE CL1 PC/L	96259358	ORSS100Z
ORACLE S 140W HIT-CE CL1 PC PN/L	96259269	ORSM140ZN
ORACLE S 140W HIT-CE CL1 PC/L	96259270	ORSM140Z
ORACLE S 150W HIT-DGE CL1 PC PN/L	96259265	ORSM150ZN
ORACLE S 150W HIT-DGE CL1 PC/L	96259266	ORSM150Z
ORACLE S 150W HST-DGE CL1 PC/L	96259354	ORSS150Z
Oracle Size S, shallow polycarbonate, conventional		
ORACLE S 70W HIT 240V CL1 PC PN/L	96259292	ORSM70N
ORACLE S 70W HIT 240V CL1 PC/L	96259298	ORSM70
ORACLE S 70W HST 240V CL1 PC PN/L	96259366	ORSS70N
ORACLE S 70W HST 240V CL1 PC/L	96259372	ORSS70
ORACLE S 100W HIT 240V CL1 PC PN/L	96259290	ORSM100N
ORACLE S 100W HIT 240V CL1 PC/L	96259296	ORSM100
ORACLE S 100W HST 240V CL1 PC PN/L	96259364	ORSS100N
ORACLE S 100W HST 240V CL1 PC/L	96259370	ORSS100
ORACLE S 150W HIT 240V CL1 PC PN/L	96259288	ORSM150N
ORACLE S 150W HIT 240V CL1 PC/L	96259294	ORSM150
ORACLE S 150W HST 240V CL1 PC PN/L	96259362	ORSS150N
ORACLE S 150W HST 240V CL1 PC/L	96259368	ORSS150
Oracle Size 1, flat glass, electronic		
ORACLE 1C 42W TC-TEL CL1 EFL PM/L	96546853	OR1C42FGZM
ORACLE 1C 42W TC-TEL CL1 EFL PN/L	96546859	OR1C42FGZN
ORACLE 1C 42W TC-TEL CL1 EFL/L	96546842	OR1C42FGZ
ORACLE 1W 42W TC-TEL CL1 EFL PN/L	96546953	OR1W42FGZN
ORACLE 1W 42W TC-TEL CL1 EFL/L	96546983	OR1W42FGZ
ORACLE 1C 57W TC-TEL CL1 EFL PN/L	96546880	OR1C57FGZN
ORACLE 1W 57W TC-TEL CL1 EFL PN/L	96546937	OR1W57FGZN
ORACLE 1W 57W TC-TEL CL1 EFL/L	96546825	OR1W57FGZ
ORACLE 1C 70W HIT DGE EFL CL1 PM/L	96547012	OR1CM70FGZM
ORACLE 1C 70W HIT DGE EFL CL1 PN/L	96546824	OR1CM70FGZN
ORACLE 1C 100W HIT DGE CL1 EFL PM/L	96546885	OR1CM100FGZM
ORACLE 1C 100W HIT DGE CL1 EFL PN/L	96546884	OR1CM100FGZN
ORACLE 1C 100W HST DGE CL1 EFL PM/L	96546927	OR1CS100FGZM
ORACLE 1C 100W HST DGE CL1 EFL PN/L	96546926	OR1CS100FGZN
ORACLE 1C 100W HST DGE CL1 EFL/L	96546819	OR1CS100FGZ
ORACLE 1W 100W HIT DGE CL1 EFL PM/L	96546992	OR1WM100FGZM
ORACLE 1W 100W HIT DGE CL1 EFL PN/L	96546982	OR1WM100FGZN
ORACLE 1W 100W HIT DGE CL1 EFL/L	96546827	OR1WM100FGZ
ORACLE 1W 100W HST DGE CL1 EFL PM/L	96546976	OR1WS100FGZM
ORACLE 1W 100W HST DGE CL1 EFL PN/L	96546975	OR1WS100FGZN
ORACLE 1W 100W HST DGE CL1 EFL/L	96546817	OR1WS100FGZ
ORACLE 1C 140W CPO-TW CL1 EFL PM/L	96546931	OR1C140FGZM
ORACLE 1C 140W CPO-TW CL1 EFL PN/L	96546917	OR1C140FGZN
ORACLE 1C 140W CPO-TW CL1 EFL/L	96546919	OR1C140FGZ
ORACLE 1C 150W HIT DGE CL1 EFL PM/L	96546930	OR1CM150FGZM
ORACLE 1C 150W HIT DGE CL1 EFL PN/L	96546894	OR1CM150FGZN
ORACLE 1C 150W HIT DGE CL1 EFL/L	96546820	OR1CM150FGZ
ORACLE 1C 150W HST DGE CL1 EFL/L	96547125	OR1CS150FGZ
ORACLE 1W 150W HIT DGE CL1 EFL/L	96546833	OR1WM150FGZ
ORACLE 1W 150W HST DGE CL1 EFL PM/L	96546998	OR1WS150FGZM
ORACLE 1W 150W HST DGE CL1 EFL PN/L	96546997	OR1WS150FGZN
Oracle Size 1, flat glass, conventional		
ORACLE 1C 70W HID 240V CL1 EFL	96220513	OR1C70FG
ORACLE 1C 70W HID 240V CL1 EFL PN	96220523	OR1C70FGN
ORACLE 1W 70W HID 240V CL1 EFL	96220483	OR1W70FG
ORACLE 1W 70W HID 240V CL1 EFL PN	96220493	OR1W70FGN
ORACLE 1C 100W HID 240V CL1 EFL	96220516	OR1C100FG
ORACLE 1C 100W HID 240V CL1 EFL PM	96250021	OR1C100FGM
ORACLE 1C 100W HID 240V CL1 EFL PN	96220526	OR1C100FGN
ORACLE 1W 100W HID 240V CL1 EFL	96220486	OR1W100FG
ORACLE 1C 150W HID 240V CL1 EFL	96220519	OR1C150FG

Description	SAP Code	Cat. No.
Oracle Size 1, shallow glass, electronic		
ORACLE 1C 42W TC-TEL CL1 GL PN/L	96546850	OR1C42SGZN
ORACLE 1C 42W TC-TEL CL1 GL/L	96546851	OR1C42SGZ
ORACLE 1W 42W TC-TEL CL1 GL PM/L	96546951	OR1W42SGZM
ORACLE 1W 42W TC-TEL CL1 GL PN/L	96546950	OR1W42SGZN
ORACLE 1W 42W TC-TEL CL1 GL/L	96546952	OR1W42SGZ
ORACLE 1C 57W TC-TEL CL1 GL PN/L	96546878	OR1C57SGZN
ORACLE 1C 57W TC-TEL CL1 GL/L	96546879	OR1C57SGZ
ORACLE 1W 57W TC-TEL CL1 GL PN/L	96546935	OR1W57SGZM
ORACLE 1W 57W TC-TEL CL1 GL/L	96546936	OR1W57SGZ
ORACLE 1C 60W CPO-TW CL1 GL/L	96546876	OR1C60SGZ
ORACLE 1C 100W HIT DGE CL1 GL PM/L	96546918	OR1CM100SGZM
ORACLE 1C 100W HIT DGE CL1 GL PN/L	96546920	OR1CM100SGZN
ORACLE 1C 100W HIT DGE CL1 GL/L	96546883	OR1CM100SGZ
ORACLE 1C 100W HST DGE CL1 GL PM/L	96546924	OR1CS100SGZM
ORACLE 1C 100W HST DGE CL1 GL PN/L	96546923	OR1CS100SGZN
ORACLE 1C 100W HST DGE CL1 GL/L	96546925	OR1CS100SGZ
ORACLE 1W 100W HIT DGE CL1 GL PM/L	96546980	OR1WM100SGZM
ORACLE 1W 100W HIT DGE CL1 GL PN/L	96546979	OR1WM100SGZN
ORACLE 1W 100W HIT DGE CL1 GL/L	96546981	OR1WM100SGZ
ORACLE 1W 100W HST DGE CL1 GL PM/L	96547001	OR1WS100SGZM
ORACLE 1W 100W HST DGE CL1 GL PN/L	96547002	OR1WS100SGZN
ORACLE 1W 100W HST DGE CL1 GL/L	96546974	OR1WS100SGZ
ORACLE 1C 140W CPO-TW CL1 GL PN/L	96546915	OR1C140SGZM
ORACLE 1C 140W CPO-TW CL1 GL/L	96546916	OR1C140SGZ
ORACLE 1C 150W HIT DGE CL1 GL PM/L	96546858	OR1CM150SGZM
ORACLE 1C 150W HIT DGE CL1 GL PN/L	96546855	OR1CM150SGZN
ORACLE 1C 150W HIT DGE CL1 GL/L	96546837	OR1CM150SGZ
ORACLE 1C 150W HST DGE CL1 GL PN/L	96547132	OR1CS150SGZM
ORACLE 1C 150W HST DGE CL1 GL/L	96547129	OR1CS150SGZ
ORACLE 1W 150W HST DGE CL1 GL PM/L	96546995	OR1WS150SGZM
ORACLE 1W 150W HST DGE CL1 GL PN/L	96546994	OR1WS150SGZN
ORACLE 1W 150W HIT DGE CL1 GL/L	96546996	OR1WM150SGZ
Oracle Size 1, shallow glass, conventional		
ORACLE 1C 70W HID 240V CL1 GL	96220514	OR1C70SG
ORACLE 1C 70W HID 240V CL1 GL PN	96220524	OR1C70SGN
ORACLE 1W 70W HID 240V CL1 GL	96220484	OR1W70SG
ORACLE 1W 70W HID 240V CL1 GL PN	96220494	OR1W70SGN
ORACLE 1C 100W HID 240V CL1 GL	96220517	OR1C100SG
ORACLE 1C 100W HID 240V CL1 GL PM	96250022	OR1C100SGM
ORACLE 1C 100W HID 240V CL1 GL PN	96220527	OR1C100SGN
ORACLE 1W 100W HID 240V CL1 GL	96220487	OR1W100SG
ORACLE 1C 150W HID 240V CL1 GL	96220520	OR1C150SG
ORACLE 1C 150W HID 240V CL1 GL PN	96220530	OR1C150SGN
ORACLE 1W 150W HID 240V CL1 GL	96220490	OR1W150SG
ORACLE 1W 150W HID 240V CL1 GL PN	96220500	OR1W150SGN
Oracle Size 1, shallow polycarbonate, electronic		
ORACLE 1C 42W TC-TEL CL1 PC PN/L	96546848	OR1C42ZN
ORACLE 1C 42W TC-TEL CL1 PC/L	96546849	OR1C42Z
ORACLE 1W 42W TC-TEL CL1 PC PM/L	96546948	OR1W42ZM
ORACLE 1W 42W TC-TEL CL1 PC PN/L	96546947	OR1W42ZN
ORACLE 1W 42W TC-TEL CL1 PC/L	96546949	OR1W42Z
ORACLE 1W 57W TC-TEL CL1 PC PN/L	96546933	OR1W57ZN
ORACLE 1W 57W TC-TEL CL1 PC/L	96546934	OR1W57Z
ORACLE 1C 150W HIT DGE CL1 PC PM/L	96546856	OR1CM150ZM
ORACLE 1C 100W HIT DGE CL1 PC PM/L	96546929	OR1CM100ZM
ORACLE 1C 100W HIT DGE CL1 PC PN/L	96546928	OR1CM100ZN
ORACLE 1C 100W HIT DGE CL1 PC/L	96546896	OR1CM100Z
ORACLE 1C 100W HST DGE CL1 PC PM/L	96546922	OR1CS100ZM
ORACLE 1C 100W HST DGE CL1 PC PN/L	96546921	OR1CS100ZN
ORACLE 1C 100W HST DGE CL1 PC/L	96546832	OR1CS100Z
Oracle Size 1, shallow polycarbonate, conventional		
ORACLE 1W 100W HIT DGE CL1 PC PM/L	96546978	OR1WM100ZM
ORACLE 1W 100W HIT DGE CL1 PC PN/L	96546977	OR1WM100ZN
ORACLE 1W 100W HIT DGE CL1 PC/L	96546840	OR1WM100Z
ORACLE 1W 100W HST DGE CL1 PC PN/L	96547011	OR1WS100ZN
ORACLE 1W 100W HST DGE CL1 PC/L	96546984	OR1WS100Z
ORACLE 1C 140W CPO-TW CL1 PC PN/L	96546913	OR1C140ZN
ORACLE 1C 140W CPO-TW CL1 PC/L	96546914	OR1C140Z
ORACLE 1C 150W HIT DGE CL1 PC/L	96546807	OR1CM150Z
ORACLE 1C 150W HST DGE CL1 PC PN/L	96546818	OR1CS150ZN
ORACLE 1C 150W HST DGE CL1 PC/L	96547123	OR1CS150Z
ORACLE 1W 150W HIT DGE CL1 PC/L	96546808	OR1WM150Z
ORACLE 1W 150W HST DGE CL1 PC PM/L	96546993	OR1WS150ZM
ORACLE 1W 150W HST DGE CL1 PC PN/L	96546839	OR1WS150ZN
ORACLE 1C 57W TC-TEL CL1 PC PN/L	96546877	OR1C57ZN
ORACLE 1C 57W TC-TEL CL1 PC/L	96546810	OR1C57Z

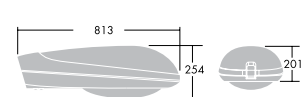
Description	SAP Code	Cat. No.
Oracle Size 1, shallow polycarbonate, conventional		
ORACLE 1W 70W HID 240V CL1 PC	96220482	OR1W70
ORACLE 1W 70W HID 240V CL1 PC PM	96249856	OR1W70M
ORACLE 1W 70W HID 240V CL1 PC PN	96220492	OR1W70N
ORACLE 1C 100W HID 240V CL1 PC	96220515	OR1C100
ORACLE 1C 100W HID 240V CL1 PC PM	96250023	OR1C100M
ORACLE 1C 100W HID 240V CL1 PC PN	96220525	OR1C100N
ORACLE 1W 150W HID 240V CL1 PC PM	96250186	OR1W150M
Oracle Size 2, flat glass, electronic		
ORACLE 2W 150W HIT DGE.X CL1 EFL PM/L	96547051	OR2WM150FGZM
ORACLE 2W 150W HIT DGE.X CL1 EFL PN/L	96547050	OR2WM150FGZN
ORACLE 2W 150W HIT DGE.X CL1 EFL/L	96547016	OR2WM150FGZ
ORACLE 2W 150W HST DGE.X CL1 EFL PM/L	96547205	OR2WS150FGZM
ORACLE 2W 150W HST DGE.X CL1 EFL PN/L	96547204	OR2WS150FGZN
ORACLE 2W 150W HST DGE.X CL1 EFL/L	96547170	OR2WS150FGZ
ORACLE 2C 150W HIT DGE.X CL1 EFL PM/L	96547041	OR2CM150FGZM
ORACLE 2C 150W HIT DGE.X CL1 EFL PN/L	96547039	OR2CM150FGZN
ORACLE 2C 150W HIT DGE.X CL1 EFL/L	96547027	OR2CM150FGZ
ORACLE 2C 150W HST DGE CL1 EFL PM/L	96547195	OR2CS150FGZM
ORACLE 2C 150W HST DGE.X CL1 EFL PN/L	96547193	OR2CS150FGZN
ORACLE 2C 150W HST DGE.X CL1 EFL/L	96547181	OR2CS150FGZ
Oracle Size 2, flat glass, conventional		
ORACLE 2C 150W HIT 240V CL1 EFL PM/L	96547043	OR2CM150FGM
ORACLE 2C 150W HIT 240V CL1 EFL/L	96547042	OR2CM150FG
ORACLE 2C 150W HST 240V CL1 EFL PM/L	96547197	OR2CS150FGM
ORACLE 2C 150W HST 240V CL1 EFL/L	96547196	OR2CS150FG
ORACLE 2W 150W HIT 240V CL1 EFL PM/L	96547058	OR2WM150FGM
ORACLE 2W 150W HIT 240V CL1 EFL PN/L	96547059	OR2WM150FGN
ORACLE 2W 150W HIT 240V CL1 EFL/L	96547057	OR2WM150FG
ORACLE 2W 150W HST 240V CL1 EFL PM/L	96547212	OR2WS150FGM
ORACLE 2W 150W HST 240V CL1 EFL PN/L	96547213	OR2WS150FGN
ORACLE 2W 150W HST 240V CL1 EFL/L	96547211	OR2WS150FG
ORACLE 2C 250W HIT 240V CL1 EFL PM/L	96547022	OR2CM250FGM
ORACLE 2C 250W HIT 240V CL1 EFL PN/L	96547031	OR2CM250FGN
ORACLE 2C 250W HIT 240V CL1 EFL/L	96547017	OR2CM250FG
ORACLE 2C 250W HST 240V CL1 EFL PM/L	96547176	OR2CS250FGM
ORACLE 2C 250W HST 240V CL1 EFL PN/L	96547185	OR2CS250FGN
ORACLE 2C 250W HST 240V CL1 EFL/L	96547171	OR2CS250FG
ORACLE 2W 250W HIT 240V CL1 EFL PM/L	96547055	OR2WM250FGM
ORACLE 2W 250W HIT 240V CL1 EFL PN/L	96547024	OR2WM250FGN
ORACLE 2W 250W HIT 240V CL1 EFL/L	96547049	OR2WM250FG
ORACLE 2W 250W HST 240V CL1 EFL PM/L	96547209	OR2WS250FGM
ORACLE 2W 250W HST 240V CL1 EFL PN/L	96547178	OR2WS250FGN
ORACLE 2W 250W HST 240V CL1 EFL/L	96547203	OR2WS250FG
ORACLE 2C 400W HIT 240V CL1 EFL PN/L	96547028	OR2CM400FGN
ORACLE 2C 400W HIT 240V CL1 EFL/L	96547018	OR2CM400FG
ORACLE 2C 400W HST 240V CL1 EFL PN/L	96547182	OR2CS400FGN
ORACLE 2C 400W HST 240V CL1 EFL/L	96547172	OR2CS400FG
ORACLE 2W 400W HIT 240V CL1 EFL PN/L	96547054	OR2WM400FGN
ORACLE 2W 400W HIT 240V CL1 EFL/L	96547025	OR2WM400FG
ORACLE 2W 400W HST 240V CL1 EFL PN/L	96547208	OR2WS400FGN
ORACLE 2W 400W HST 240V CL1 EFL/L	96547179	OR2WS400FG
Oracle Size 2, shallow glass, electronic		
ORACLE 2C 150W HIT DGE.X CL1 GL PM/L	96547033	OR2CM150SGZM
ORACLE 2C 150W HIT DGE.X CL1 GL PN/L	96547032	OR2CM150SGZN
ORACLE 2C 150W HIT DGE.X CL1 GL/L	96547015	OR2CM150SGZ
ORACLE 2C 150W HST DGE.X CL1 GL PM/L	96547187	OR2CS150SGZM
ORACLE 2C 150W HST DGE.X CL1 GL PN/L	96547186	OR2CS150SGZN
ORACLE 2C 150W HST DGE.X CL1 GL/L	96547169	OR2CS150SGZ
ORACLE 2W 150W HIT DGE.X CL1 GL PM/L	96547047	OR2WM150SGZM
ORACLE 2W 150W HIT DGE.X CL1 GL PN/L	96547048	OR2WM150SGZN
ORACLE 2W 150W HIT DGE.X CL1 GL/L	96547060	OR2WM150SGZ
ORACLE 2W 150W HST DGE.X CL1 GL PM/L	96547201	OR2WS150SGZM
ORACLE 2W 150W HST DGE.X CL1 GL PN/L	96547202	OR2WS150SGZN
ORACLE 2W 150W HST DGE.X CL1 GL/L	96547214	OR2WS150SGZ

Description	SAP Code	Cat. No.
Oracle Size 2, shallow glass, conventional		
ORACLE 2C 150W HIT 240V CL1 GL PM/L	96547044	OR2CM150SGM
ORACLE 2C 150W HIT 240V CL1 GL/L	96547014	OR2CM150SG
ORACLE 2C 150W HST 240V CL1 GL PM/L	96547198	OR2CS150SGM
ORACLE 2C 150W HST 240V CL1 GL/L	96547168	OR2CS150SG
ORACLE 2W 150W HIT 240V CL1 GL PM/L	96547063	OR2WM150SGM
ORACLE 2W 150W HIT 240V CL1 GL PN/L	96547061	OR2WM150SGN
ORACLE 2W 150W HST 240V CL1 GL PM/L	96547217	OR2WS150SGM
ORACLE 2W 150W HST 240V CL1 GL PN/L	96547215	OR2WS150SGN
ORACLE 2C 250W HIT 240V CL1 GL PM/L	96547030	OR2CM250SGM
ORACLE 2C 250W HIT 240V CL1 GL PN/L	96547029	OR2CM250SGN
ORACLE 2C 250W HIT 240V CL1 GL/L	96547021	OR2CM250SG
ORACLE 2C 250W HST 240V CL1 GL PM/L	96547184	OR2CS250SGM
ORACLE 2C 250W HST 240V CL1 GL PN/L	96547183	OR2CS250SGN
ORACLE 2C 250W HST 240V CL1 GL/L	96547175	OR2CS250SG
ORACLE 2W 250W HIT 240V CL1 GL PM/L	96547052	OR2WM250SGM
ORACLE 2W 250W HIT 240V CL1 GL PN/L	96547053	OR2WM250SGN
ORACLE 2W 250W HIT 240V CL1 GL/L	96547019	OR2WM250SG
ORACLE 2W 250W HST 240V CL1 GL PM/L	96547206	OR2WS250SGM
ORACLE 2W 250W HST 240V CL1 GL PN/L	96547207	OR2WS250SGN
ORACLE 2W 250W HST 240V CL1 GL/L	96547173	OR2WS250SG
ORACLE 2C 400W HIT 240V CL1 GL PN/L	96547062	OR2CM400SGN
ORACLE 2C 400W HIT 240V CL1 GL/L	96547020	OR2CM400SG
ORACLE 2C 400W HST 240V CL1 GL PN/L	96547216	OR2CS400SGN
ORACLE 2C 400W HST 240V CL1 GL/L	96547174	OR2CS400SG
ORACLE 2W 400W HIT 240V CL1 GL PN/L	96547056	OR2WM400SGN
ORACLE 2W 400W HIT 240V CL1 GL/L	96547026	OR2WM400SG
ORACLE 2W 400W HST 240V CL1 GL PN/L	96547210	OR2WS400SGN
ORACLE 2W 400W HST 240V CL1 GL/L	96547180	OR2WS400SG

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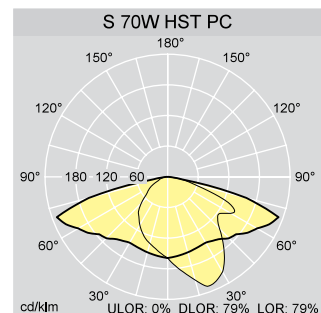
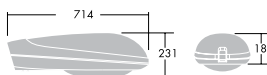
Oracle 5



Oracle 2



Oracle 1





An advanced road lighting luminaire with innovative Flat Beam® technology for low level mounting providing a unique light distribution



- Excellent uniformity with no glare provides accurate and efficient performance
- Remarkable performances within EN13201 requirements at only 0.9m mounting height
- Delivers improved visibility and creates visual guidance compared to conventional solutions
- Sturdy construction with vandal resistance features
- Perfect complementary tool for lighting schemes where the use of columns is difficult or inefficient

Materials/Finish

Body: die-cast aluminium
 Bollard: 3mm steel powder coated grey (RAL 9006) or concrete, textured dark grey
 Enclosure: UV stabilised polycarbonate protected against graffiti and with extra scratch resistant treatment
 Reflector: pure aluminium with high reflectance coating
 Tamper-proof screws and bolts: stainless steel
 Gaskets: silicon
 Stirrup: die-cast aluminium

Installation/Mounting

Height position of lamp has to be 0.9m from lit surface and luminaire tilted at 0° or less (designed slots for use of spirit level). Plug and socket connections to lamp and gear into tamperproof compartments. Cable glands for Ø8 to 13mm cable. Delivered complete, ready to install.
 Stirrup version: rear access to gear components. Ready for through wiring via 2 cable glands. Possibility to fit the luminaire with armoured cable sleeve and metal glands. 180° rotating stirrup around luminaire. Stirrup fixed through 2 x M10 tempered bolts.
 Bollard version: access to gear components after release of the head, hangable onto the bollard. Flange mounting for steel version, invisible flange for bollard version. Head fixed to bollard through 2 x M10 tempered bolts.

Specification

To specify state:
 Innovative road lighting luminaire for 35-70W HIT-CE lamps, incorporating Flat Beam® technology, in die-cast aluminium reaching lighting standards at 0.9m high. Sealed to IP66 with unique lighting distribution and choice of mounting options.
 As Thorn Orus.



Steel bollard



Concrete bollard



Steel bollard

Lamps

	HIT G12 (MT)	G12	35-70W
	HIT-CE (MT)	PGZ12	60W

Standards

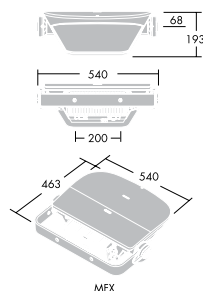
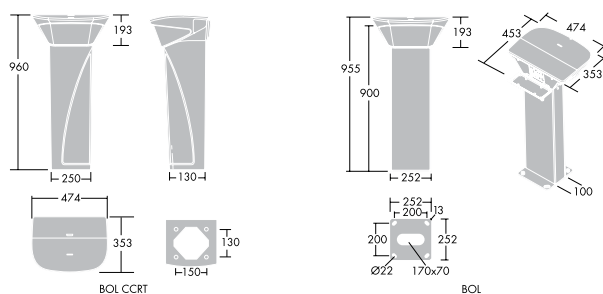


Ordering Guide

Supplied complete with lamps

Description	SAP Code	Cat. No.
Orus Stirrup version		
ORUS 35W HIT DGE CL1 MFX ROAD /L	96547064	OSSM35R
ORUS 35W HIT DGE CL1 MFX STREET L	96547067	OSSM35S
ORUS 70W HIT DGE CL1 MFX ROAD/L	96239834	OSSM70R
ORUS 70W HIT DGE CL1 MFX STREET/L	96239833	OSSM70S
Orus Bollard Version		
ORUS 35W CL1 BOL CCRT ROAD FAI ANT/L	96239836	OSBM35CR
ORUS 35W CL1 BOL CCRT STREET FAI ANT/L	96239835	OSBM35CS
ORUS 35W HIT DGE CL1 BOL ROAD /L	96547065	OSBM35R
ORUS 35W HIT DGE CL1 BOL STREET L	96547069	OSBM35S
ORUS 60W CL1 BOL CCRT ROAD FAI ANT/L	96239838	OSBM60CR
ORUS 60W CL1 BOL CCRT STREET FAI ANT/L	96239837	OSBM60CS
ORUS 60W CPO-TW CL1 BOL ROAD /L	96547066	OSBC60R
ORUS 60W CPO-TW CL1 BOL STREET L	96547070	OSBC60S
ORUS 70W CL1 BOL CCRT ROAD FAI ANT/L	96239840	OSBM70CR
ORUS 70W CL1 BOL CCRT STREET FAI ANT/L	96239839	OSBM70CS
ORUS 70W HIT DGE CL1 BOL ROAD/L	96239832	OSBM70R
ORUS 70W HIT DGE CL1 BOL STREET L	96547068	OSBM70S
Orus Accessories		
ORUS BRAID	96251381	OSB

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Oxane



www.thornlighting.co.uk/OXAN

A stylish road lantern at the forefront of LED technology designed to deliver excellent lighting performance



- High efficiency road lighting lantern available in several ratings from 14W (1140 lm) to 84W (6400 lm) covering lighting classes up to ME3
- Stand alone dimming, minicell and remote monitoring capabilities for optimised energy usage
- Fully maintainable luminaire for a long service life

Materials/Finish

Body & spigot: die-cast aluminium, powder coated Akzo texturised 150 light grey
Enclosures: toughened glass, self cleaning treatment on request
Screws: stainless steel

Installation/Mounting

Rotating spigot secured by 2 screws with safety bolts. Post-top mounting: Ø60/76 mm x 80 mm long spigot. Tilted to 5°. Lateral mounting: CL1 - Ø34/42/49/60 mm, CL2 - Ø49/60 mm x 120 mm long spigot. Tilted to 0°. Cable gland for Ø8-13 mm cable. Delivered ready to install in 1 single box.

Specification

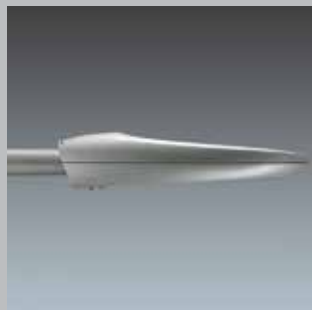
To specify state:
Easy to install and fully maintainable LED luminaire designed to offer effective and reliable lighting performances with combined thermal and optical system. Suitable for main road lighting applications up to ME3.
As Thorn Oxane



Oxane lateral mounting underneath and front



Oxane rear side



Oxane lateral mounting profile



Oxane underneath



Oxane top



Oxane gear and optic

Lamps

LED 43-173W

Standards



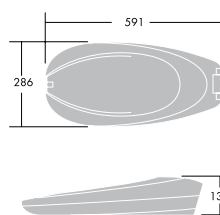
Ordering Guide

Supplied complete with LEDs

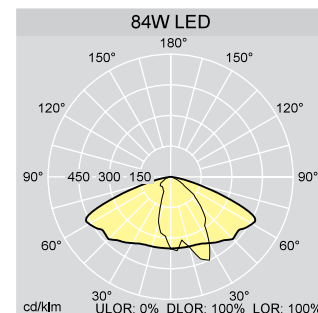
Description	Wt (kg)	SAP Code	Cat. No.
Oxane S flat glass, narrow road distribution			
OXANE S 24L35 NR EFL 740 CL1	6.85	96265559	OXS26IN
OXANE S 24L50 NR EFL 740 CL1	6.76	96265565	OXS39IN
OXANE S 24L70 NR EFL 740 CL1	6.78	96265571	OXS56IN
OXANE S 36L35 NR EFL 740 CL1	6.78	96265595	OXS38IN
OXANE S 36L50 NR EFL 740 CL1	6.78	96265601	OXS58IN
OXANE S 36L70 NR EFL 740 CL1	6.78	96265607	OXS84IN
Oxane S flat glass, narrow road distribution, photocell			
OXANE S 24L35 NR EFL 740 CL1 PM	6.76	96265560	OXS26MIN
OXANE S 24L50 NR EFL 740 CL1 PM	6.76	96265566	OXS39MIN
OXANE S 24L70 NR EFL 740 CL1 PM	6.78	96265572	OXS56MIN
OXANE S 36L35 NR EFL 740 CL1 PM	6.87	96265596	OXS38MIN
OXANE S 36L50 NR EFL 740 CL1 PM	6.87	96265602	OXS58MIN
OXANE S 36L70 NR EFL 740 CL1 PM	6.87	96265608	OXS84MIN
Oxane S flat Glass, narrow road distribution, bi-power			
OXANE S 12L50 BP SW NR EFL 740 CL1	6.45	96265537	OXS20B8IN
OXANE S 12L70 BP SW NR EFL 740 CL1	6.36	96265542	OXS28B8IN
OXANE S 24L35 BP NR EFL 740 CL1	6.85	96265562	OXS26B8IN
OXANE S 24L50 BP NR EFL 740 CL1	6.76	96265568	OXS39B8IN
OXANE S 24L70 BP NR EFL 740 CL1	6.78	96265574	OXS56B8IN
OXANE S 36L35 BP NR EFL 740 CL1	6.78	96265598	OXS38B8IN
OXANE S 36L50 BP NR EFL 740 CL1	6.78	96265604	OXS58B8IN
OXANE S 36L70 BP NR EFL 740 CL1	6.78	96265610	OXS84B8IN
Oxane S flat Glass, narrow road distribution, bi-power, photocell			
OXANE S 12L35 BP SW NR EFL 740 CL1 PM	6.47	96265533	OXS14B8MIN
OXANE S 12L50 BP SW NR EFL 740 CL1 PM	6.34	96265538	OXS20B8MIN
OXANE S 12L70 BP SW NR EFL 740 CL1 PM	6.34	96265543	OXS28B8MIN
OXANE S 24L35 BP NR EFL 740 CL1 PM	6.76	96265563	OXS26B8MIN
OXANE S 24L50 BP NR EFL 740 CL1 PM	6.78	96265569	OXS39B8MIN
OXANE S 24L70 BP NR EFL 740 CL1 PM	6.74	96265575	OXS56B8MIN
OXANE S 36L35 BP NR EFL 740 CL1 PM	6.87	96265599	OXS38B8MIN
OXANE S 36L50 BP NR EFL 740 CL1 PM	6.87	96265605	OXS58B8MIN
OXANE S 36L70 BP NR EFL 740 CL1 PM	6.87	96265611	OXS84B8MIN
Oxane S shallow glass, wide street distribution			
OXANE S 24L50 WS GL 740 CL1	6.74	96265577	OXS39EX
OXANE S 24L70 WS GL 740 CL1	6.78	96265589	OXS56EX
OXANE S 36L35 WS GL 740 CL1	6.87	96265613	OXS38EX
OXANE S 36L50 WS GL 740 CL1	6.87	96265619	OXS58EX
OXANE S 36L70 WS GL 740 CL1	6.87	96265625	OXS84EX

Description	Wt (kg)	SAP Code	Cat. No.
Oxane S shallow glass, wide street distribution, photocell			
OXANE S 24L35 WS GL 740 CL1 PM	6.74	96265578	OXS26MEX
OXANE S 24L50 WS GL 740 CL1 PM	6.78	96265584	OXS39MEX
OXANE S 24L70 WS GL 740 CL1 PM	6.87	96265590	OXS56MEX
OXANE S 36L35 WS GL 740 CL1 PM	6.78	96265614	OXS38MEX
OXANE S 36L50 WS GL 740 CL1 PM	6.78	96265620	OXS58MEX
OXANE S 36L70 WS GL 740 CL1 PM	6.78	96265626	OXS84MEX
Oxane S shallow glass, wide street distribution, bi-power			
OXANE S 12L35 BP SW WS GL 740 CL1	6.36	96265547	OXS14B8EX
OXANE S 12L50 BP SW WS GL 740 CL1	6.36	96265551	OXS20B8EX
OXANE S 12L70 BP SW WS GL 740 CL1	6.36	96265555	OXS28B8EX
OXANE S 24L35 BP WS GL 740 CL1	6.74	96265580	OXS26B8EX
OXANE S 24L50 BP WS GL 740 CL1	6.78	96265586	OXS39B8EX
OXANE S 24L70 BP WS GL 740 CL1	6.78	96265592	OXS56B8EX
OXANE S 36L35 BP WS GL 740 CL1	6.87	96265616	OXS38B8EX
OXANE S 36L50 BP WS GL 740 CL1	6.87	96265622	OXS58B8EX
OXANE S 36L70 BP WS GL 740 CL1	6.87	96265628	OXS84B8EX
Oxane S shallow glass, wide street distribution, bi-power, photocell			
OXANE S 12L35 BP SW WS GL 740 CL1 PM	6.36	96265548	OXS14B8MEX
OXANE S 12L50 BP SW WS GL 740 CL1 PM	6.36	96265552	OXS20B8MEX
OXANE S 12L70 BP SW WS GL 740 CL1 PM	6.36	96265556	OXS28B8MEX
OXANE S 24L35 BP WS GL 740 CL1 PM	6.78	96265581	OXS26B8MEX
OXANE S 24L50 BP WS GL 740 CL1 PM	6.78	96265587	OXS39B8MEX
OXANE S 24L70 BP WS GL 740 CL1 PM	6.85	96265593	OXS56B8MEX
OXANE S 36L35 BP WS GL 740 CL1 PM	6.78	96265617	OXS38B8MEX
OXANE S 36L50 BP WS GL 740 CL1 PM	6.78	96265623	OXS58B8MEX
OXANE S 36L70 BP WS GL 740 CL1 PM	6.78	96265629	OXS84B8MEX

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S_{cx}: 0.057m²



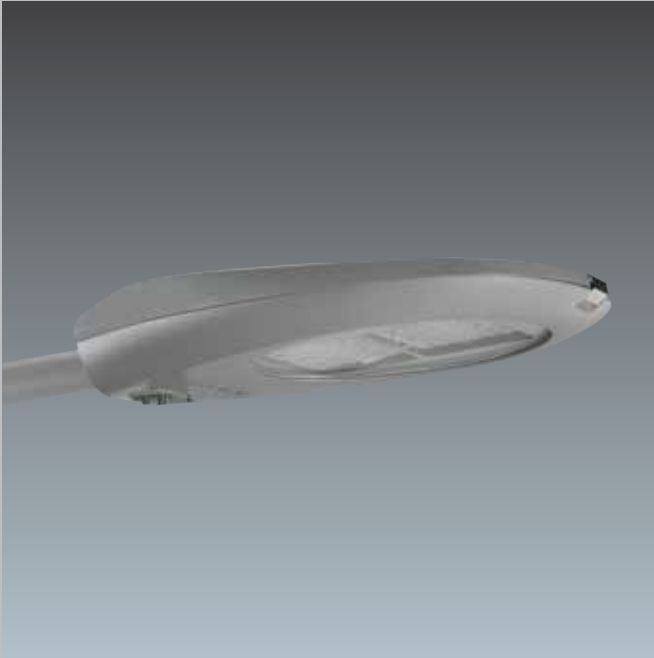
NEW

Oxane L



www.thornlighting.co.uk/OXAL

A powerful, modular road lantern at the forefront of LED technology to offer excellent lighting and through-life performance



- Highly efficient road lantern available in two light distributions and ratings from 43W (3700lm) to 173W (14000lm), covering lighting classes up to ME1
- The same LED module across the range (72 LEDs) at 350mA, 500mA and 700mA (other mA settings and LED numbers on request)
- Standalone dimming, minicell and remote monitoring capabilities for optimised energy use
- Modularity allows through-life performance by simply changing the optical engine and driver as even more efficient systems emerge
- Low and easy maintenance luminaire for a long service life with self-cleaning shape, wide and tool-free canopy opening, and fully removable gear
- Blends perfectly with Oracle HID to meet application and budget requirements
- Dynamic thermal management to withstand up to 50°C operating conditions

Materials/Finish

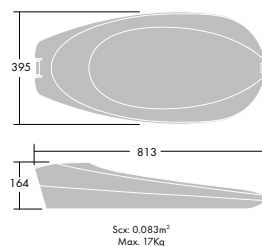
Body and Spigot: die-cast aluminium, powder coated texturised light grey (close to RAL9006)
Enclosures: toughened glass, self-cleaning treatment on request
Screws and closing set: stainless steel

Installation/Mounting

Rotating spigot secured by 2 screws with safety bolts.
Post-top mounting: Ø60/76mm x 80mm long spigot. Tilted to 5°
Lateral mounting: Ø34/42/49/60mm x 120mm long spigot. Tilted to 0°
Cable gland for Ø8 to 13mm cable.
Delivered ready to install in 1 box.

Specification

To specify state:
Easy to install and maintain LED luminaire designed to offer effective and reliable lighting performances with combined thermal and optical system. Ratings from 43W (3700lm) to 173W (14000lm), suitable for main road lighting applications up to ME2. As Thorn Oxane L.



Ordering Guide

Supplied complete with LEDs

Description	Wt (Kg)	SAP Code	Cat. No.
Oxane L Narrow Road distribution CL1			
OXANE L 48L35 NR EFL 740 CL1	16.8	96263614	OXL58IN
OXANE L 36L50 NR EFL 740 CL1	16.8	96263574	OXL62IN
OXANE L 60L35 NR EFL 740 CL1	16.9	96263654	OXL72IN
OXANE L 48L50 NR EFL 740 CL1	16.8	96263602	OXL82IN
OXANE L 72L35 NR EFL 740 CL1	16.9	96263694	OXL86IN
OXANE L 36L70 NR EFL 740 CL1	16.8	96263563	OXL87IN
OXANE L 60L50 NR EFL 740 CL1	17.6	96263642	OXL103IN
OXANE L 48L70 NR EFL 740 CL1	17.5	96263591	OXL115IN
OXANE L 72L50 NR EFL 740 CL1	17.6	96263682	OXL123IN
OXANE L 72L70 NR EFL 740 CL1	17.6	96263671	OXL173IN
Oxane L Narrow Road distribution CL1 with minicell			
OXANE L 48L35 NR EFL 740 CL1 PM	17.1	96263615	OXL58MIN
OXANE L 36L50 NR EFL 740 CL1 PM	17.1	96263575	OXL62MIN
OXANE L 60L35 NR EFL 740 CL1 PM	17.2	96263655	OXL72MIN
OXANE L 48L50 NR EFL 740 CL1 PM	17.1	96263603	OXL82MIN
OXANE L 72L35 NR EFL 740 CL1 PM	17.2	96263695	OXL86MIN
OXANE L 36L70 NR EFL 740 CL1 PM	17.1	96263564	OXL87MIN
OXANE L 60L50 NR EFL 740 CL1 PM	17.9	96263643	OXL103MIN
OXANE L 48L70 NR EFL 740 CL1 PM	17.8	96263592	OXL115MIN
OXANE L 72L50 NR EFL 740 CL1 PM	17.9	96263683	OXL123MIN
OXANE L 72L70 NR EFL 740 CL1 PM	17.9	96263672	OXL173MIN
Oxane L Narrow Road distribution stepdim CL1			
OXANE L 48L35 BP NR EFL 740 CL1	16.8	96263620	OXL58B8IN
OXANE L 36L50 BP NR EFL 740 CL1	16.8	96263580	OXL62B8IN
OXANE L 60L35 BP NR EFL 740 CL1	16.9	96263660	OXL72B8IN
OXANE L 48L50 BP NR EFL 740 CL1	16.8	96263608	OXL82B8IN
OXANE L 72L50 BP NR EFL 740 CL1	16.9	96263700	OXL86B8IN
OXANE L 36L70 BP NR EFL 740 CL1	16.8	96263568	OXL87B8IN
OXANE L 60L70 BP NR EFL 740 CL1	17.6	96263648	OXL103B8IN
OXANE L 48L70 BP NR EFL 740 CL1	17.5	96263596	OXL115B8IN
OXANE L 72L50 BP NR EFL 740 CL1	17.6	96263688	OXL123B8IN
OXANE L 60L70 BP NR EFL 740 CL1	17.6	96263636	OXL144B8IN
OXANE L 72L70 BP NR EFL 740 CL1	17.6	96263676	OXL173B8IN



Fully removable optical engine for ease of maintenance



Lamps

LED 43-173W

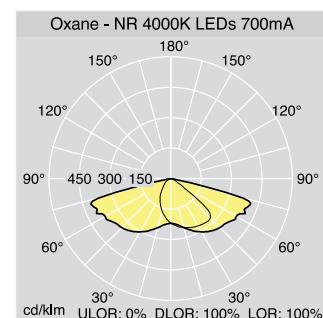
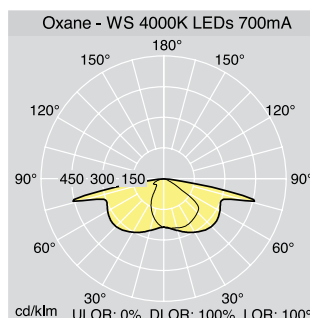
Standards

CE EN 60598 IP66 IK08 T_a-25/+35

Description	Wt (Kg)	SAP Code	Cat. No.
Oxane L Narrow Road distribution stepdim CL1 with minicell			
OXANE L 48L35 BP NR EFL 740 CL1 PM	17.1	96263621	OXL58B8MIN
OXANE L 36L50 BP NR EFL 740 CL1 PM	17.1	96263581	OXL62B8MIN
OXANE L 60L35 BP NR EFL 740 CL1 PM	17.2	96263661	OXL72B8MIN
OXANE L 48L50 BP NR EFL 740 CL1 PM	17.1	96263609	OXL82B8MIN
OXANE L 72L35 BP NR EFL 740 CL1 PM	17.2	96263701	OXL86B8MIN
OXANE L 36L70 BP NR EFL 740 CL1 PM	17.1	96263569	OXL87B8MIN
OXANE L 60L50 BP NR EFL 740 CL1 PM	17.9	96263649	OXL103B8MIN
OXANE L 48L70 BP NR EFL 740 CL1 PM	17.8	96263597	OXL115B8MIN
OXANE L 72L50 BP NR EFL 740 CL1 PM	17.9	96263689	OXL123B8MIN
OXANE L 60L70 BP NR EFL 740 CL1 PM	17.9	96263637	OXL144B8MIN
OXANE L 72L70 BP NR EFL 740 CL1 PM	17.9	96263677	OXL173B8MIN
Oxane L Wide Street distribution CL1			
OXANE L 48L35 WS EFL 740 CL1	16.8	96263611	OXL58EX
OXANE L 36L50 WS EFL 740 CL1	16.8	96263571	OXL62EX
OXANE L 60L35 WS EFL 740 CL1	16.9	96263651	OXL72EX
OXANE L 48L50 WS EFL 740 CL1	16.8	96263599	OXL82EX
OXANE L 72L35 WS EFL 740 CL1	16.9	96263691	OXL86EX
OXANE L 36L70 WS EFL 740 CL1	16.8	96263559	OXL87EX
OXANE L 60L50 WS EFL 740 CL1	17.6	96263639	OXL103EX
OXANE L 48L70 WS EFL 740 CL1	17.6	96263587	OXL115EX
OXANE L 72L50 WS EFL 740 CL1	17.6	96263679	OXL123EX
OXANE L 72L70 WS EFL 740 CL1	17.6	96263667	OXL173EX
Oxane L Wide Street distribution CL1 with minicell			
OXANE L 48L35 WS EFL 740 CL1 PM	17.1	96263612	OXL58MEX
OXANE L 36L50 WS EFL 740 CL1 PM	17.1	96263572	OXL62MEX
OXANE L 60L35 WS EFL 740 CL1 PM	17.2	96263652	OXL72MEX
OXANE L 48L50 WS EFL 740 CL1 PM	17.1	96263600	OXL82MEX
OXANE L 72L35 WS EFL 740 CL1 PM	17.2	96263692	OXL86MEX
OXANE L 36L70 WS EFL 740 CL1 PM	17.1	96263560	OXL87MEX
OXANE L 60L50 WS EFL 740 CL1 PM	17.9	96263640	OXL103MEX
OXANE L 48L70 WS EFL 740 CL1 PM	17.9	96263588	OXL115MEX
OXANE L 72L50 WS EFL 740 CL1 PM	17.9	96263680	OXL123MEX
OXANE L 72L70 WS EFL 740 CL1 PM	17.9	96263668	OXL173MEX

Description	Wt (Kg)	SAP Code	Cat. No.
Oxane L Wide Street distribution stepdim CL1			
OXANE L 48L35 BP WS EFL 740 CL1	16.8	96263617	OXL58B8EX
OXANE L 36L50 BP WS EFL 740 CL1	16.8	96263577	OXL62B8EX
OXANE L 60L35 BP WS EFL 740 CL1	16.9	96263657	OXL72B8EX
OXANE L 48L50 BP WS EFL 740 CL1	16.8	96263605	OXL82B8EX
OXANE L 72L35 BP WS EFL 740 CL1	16.9	96263697	OXL86B8EX
OXANE L 36L70 BP WS EFL 740 CL1	16.8	96263562	OXL87B8EX
OXANE L 60L50 BP WS EFL 740 CL1	17.6	96263645	OXL103B8EX
OXANE L 48L70 BP WS EFL 740 CL1	17.6	96263590	OXL115B8EX
OXANE L 72L50 BP WS EFL 740 CL1	17.6	96263685	OXL123B8EX
OXANE L 60L70 BP WS EFL 740 CL1	17.6	96263630	OXL144B8EX
OXANE L 72L70 BP WS EFL 740 CL1	17.6	96263670	OXL173B8EX
Oxane L Wide Street distribution stepdim CL1 with minicell			
OXANE L 48L35 BP WS EFL 740 CL1 PM	17.1	96263618	OXL58B8MEX
OXANE L 36L50 BP WS EFL 740 CL1 PM	17.1	96263578	OXL62B8MEX
OXANE L 60L35 BP WS EFL 740 CL1 PM	17.2	96263658	OXL72B8MEX
OXANE L 48L50 BP WS EFL 740 CL1 PM	17.1	96263606	OXL82B8MEX
OXANE L 72L35 BP WS EFL 740 CL1 PM	17.2	96263698	OXL86B8MEX
OXANE L 36L70 BP WS EFL 740 CL1 PM	17.1	96263567	OXL87B8MEX
OXANE L 60L50 BP WS EFL 740 CL1 PM	17.9	96263646	OXL103B8MEX
OXANE L 48L70 BP WS EFL 740 CL1 PM	17.9	96263595	OXL115B8MEX
OXANE L 72L50 BP WS EFL 740 CL1 PM	17.9	96263686	OXL123B8MEX
OXANE L 60L70 BP WS EFL 740 CL1 PM	17.9	96263635	OXL144B8MEX
OXANE L 72L70 BP WS EFL 740 CL1 PM	17.9	96263675	OXL173B8MEX

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StyLED



www.thornlighting.co.uk/STYL

A range of versatile, built to last, LED lanterns with outstanding optics (EQFlux®) for lighting major and minor roads



- EQFlux® system offers 15 pre-set light distributions to suit differing applications
- Dimming of stand alone and monitorable versions optimises energy use according to need
- Light engine and controller housed in two separate, IP66 rated, compartments for optimised thermal management
- Stain resistant and easily cleanable heat dissipator and light diffuser

Materials/Finish

Body and bracket: die-cast aluminium, powder coated texturised light grey (Akzo 150)
Enclosure: toughened glass, self-cleaning treatment available on request

Installation/Mounting

Luminaire mounts to bracket (short or long) via 2 screws inside the arm. Bracket (short or long) mounts to Ø60x 90mm long spigot. Junction secured by 2 rows of 3 screws at 120°. Cable gland for Ø8 to 13mm cable. Access to gear possible on site after screw release. Access to optic system possible at the workshop after screw release. Delivered ready to install with pre-set light distribution. Luminaire and bracket arm delivered in separate boxes.

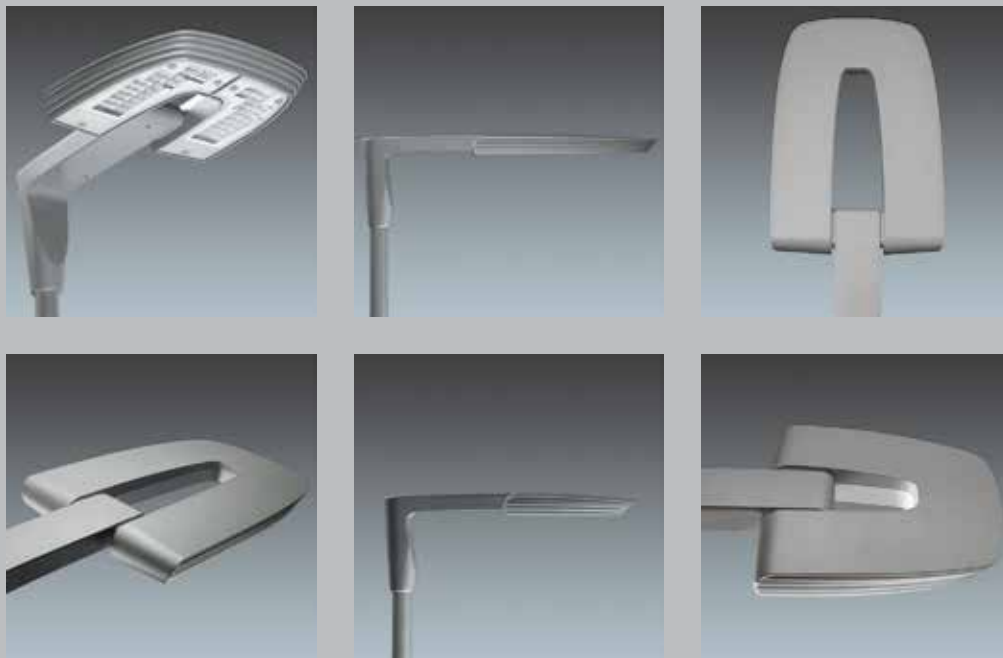
Specification

To specify state:
An LED road-lighting luminaire for lighting classes up to ME2. Available in 2 outlines with slim surfaces, performance longevity through optimised heat dissipation. With options for photocells, dimming and lighting management system.
As Thorn StyLED

Ordering Guide

Supplied complete with LEDs. Luminaires to be ordered with complementary bracket

Description	Wt (kg)	SAP Code	Cat. No.
StyLED Short			
STYLED S 24L50 EXT55 CL1	12.90	96258215	ST39EX
STYLED S 24L50 EXT55WB CL1	12.90	96258210	ST39EXB
STYLED S 24L50 INT55 CL1	13.00	96258220	ST39IN
STYLED S 32L50 EXT55 CL1	13.20	96258200	ST52EX
STYLED S 32L50 EXT55WB CL1	13.20	96258195	ST52EXB
STYLED S 32L50 INT55 CL1	13.20	96258205	ST52IN
StyLED Short with Minicell			
STYLED S 24L50 EXT55 CL1 PM	13.00	96258216	ST39MEX
STYLED S 24L50 EXT55WB CL1 PM	13.00	96258211	ST39MEXB
STYLED S 24L50 INT55 CL1 PM	12.90	96258221	ST39MIN
STYLED S 32L50 EXT55 CL1 PM	13.30	96258201	ST52MEX
STYLED S 32L50 EXT55WB CL1 PM	13.30	96258196	ST52MEXB
STYLED S 32L50 INT55 CL1 PM	13.30	96258206	ST52MIN
StyLED Long			
STYLED L 48L50 EXT55 CL1	16.00	96258187	ST77EX
STYLED L 48L50 EXT55WB CL1	16.00	96258183	ST77EXB
STYLED L 48L50 INT55 CL1	16.00	96258191	ST77IN
STYLED L 64L50 EXT55 CL1	16.10	96258175	ST103EX
STYLED L 64L50 EXT55WB CL1	16.20	96258171	ST103EXB
STYLED L 64L50 INT55 CL1	16.10	96258179	ST103IN
STYLED L 80L50 EXT55 CL1	16.20	96258163	ST129EX
STYLED L 80L50 EXT55WB CL1	16.30	96258159	ST129EXB
STYLED L 80L50 INT55 CL1	16.20	96258167	ST129IN



Lamps

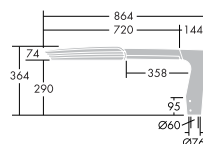
LED 39-129W

Standards

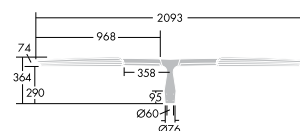
CE EN 60598 EN40 IP66 IK08

Description	Wt (kg)	SAP Code	Cat. No.
StyLED Long with Micicell			
STYLED L 77W EXT55 CL1 PM	16.10	96258188	ST77MEX
STYLED L 77W EXT55WB CL1 PM	16.10	96258184	ST77MEXB
STYLED L 77W INT55 CL1 PM	16.10	96258192	ST77MIN
STYLED L 103W EXT55 CL1 PM	16.20	96258176	ST103MEX
STYLED L 103W EXT55WB CL1 PM	16.20	96258172	ST103MEXB
STYLED L 103W INT55 CL1 PM	16.20	96258180	ST103MIN
STYLED L 129W EXT55 CL1 PM	16.30	96258164	ST129MEX
STYLED L 129W EXT55WB CL1 PM	16.30	96258160	ST129MEXB
STYLED L 129W INT55 CL1 PM	16.30	96258168	ST129MIN
StyLED Brackets			
STYLED BRA COL (-2M)	4.40	96258746	STB2
STYLED BRA COL (-4M)	3.80	96259649	STB4
STYLED BRA MWA	2.50	96258744	STWMB
STYLED BRAX1 MA60 1.00M	7.40	96258739	STLPTB1
STYLED BRAX1 MA60 MTP	3.70	96258737	STPTB1
STYLED BRAX2 MA60 1.00M	12.30	96258740	STLPTB2
STYLED BRAX2 MA60 MTP	4.10	96258738	STPTB2

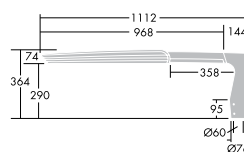
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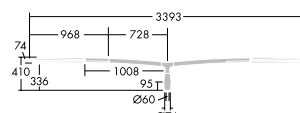
StyLED S + BRAX1 MTP
Scx: 0.078m²



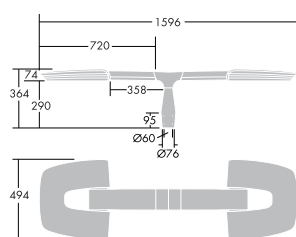
StyLED L + BRAX2 MTP



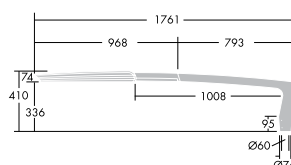
StyLED L + BRAX1 MTP
Scx: 0.095m²



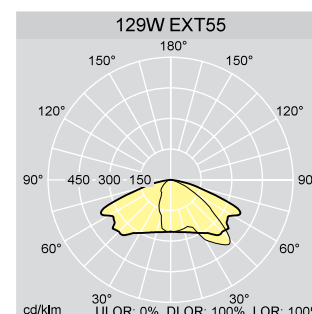
StyLED L + BRAX2 1M



StyLED S + BRAX2 MTP



StyLED L + BRAX1 1M
Scx: 0.141m²



OUTDOOR LIGHTING



Tunnel Lighting



T-Forbindingen, Haugesund, Norway



LED GTLED
474



Titus Tunnel
476

GTLED



www.thornlighting.co.uk/GTLD

An advanced LED tunnel luminaire delivering energy savings and outstanding lighting comfort



- Light control by lenses and reflectors, providing tunnel specific light distribution with high road luminance levels of $2\text{cd}/\text{m}^2$ or more and low energy consumption
- Advanced LED design for low glare
- Colour temperature 4100K to create a comfortable environment for users
- Unique design with IP66 rating for reliable quality

Materials/Finish

Body: extruded aluminium, powder coated white

Installation/Mounting

Suitable for surface mounting on to the ceiling or wall with bracket 96209279, special brackets available on request.

Specification

To specify state:
An advanced LED tunnel luminaire, 42/56/70/84 Wattages available. LEDs with low-glare light distribution to comply with both CIE88 and EN 13201. IP66. As Thorn GTLED.



Lamps

LED 45-90W

Standards

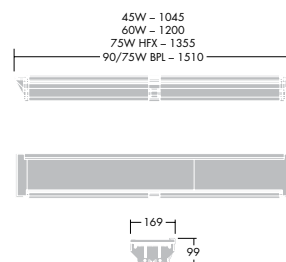
CE EN 60598 IP66 T_a50

Ordering Guide

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
GTLED Luminaires			
GTLED 45 4100K 1,5M	9.60	96209117	GT45
GTLED 60 4100K 1,5M	11.10	96209286	GT60
GTLED 75 4100K 1,5M	12.50	96209287	GT75
GTLED 75 4100K 1,5M BPL	14.10	96209198	GT75BPL
GTLED 75 4100K 1,5M HFX	12.50	96209059	GT75DALI
GTLED 90 4100K 1,5M	14.10	96209288	GT90
GTLED Accessories			
GTLED ADJ.BRACKET KIT (PAIR) HDG	1.00	96209279	GTB

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Titus Tunnel



www.thornlighting.co.uk/TTUT

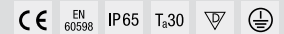
Titus Tunnel is suitable for traffic and pedestrian tunnels



Lamps

T5 (FDH) G5 49W

Standards



- Also highly suitable for car parks and outdoor locations requiring a tough, durable luminaire resistant to aggressive environments. An acid proof stainless steel version is available to order for extreme environments
- Toughened 4mm glass - 6J (IK08)
- High performance optics and reflector, symmetrical or asymmetrical
- Patent pending mounting brackets allow stepless tilting up to 50°

Materials/Finish

Body: matt grey powder painted galvanised steel

Reflector: high quality aluminium, Miro treated

Protective glass: 4mm toughened glass with EPDM gasket, locked by four 570mm long pressure plates to ensure consistent gasket seal.

Halogen free internal leads

Installation/Mounting

Surface mounted or mounted on a cable ladder. Mounting brackets included which allow tilting up to 50°. No twisting momentum is imposed on the mounting surface/wire since the centre of gravity is positioned directly below the fastening point.

Through-wiring version with 5 x 6mm² terminal blocks at each end. IP67 cable gland for 12 to 20mm diameter cable

Specification

To specify state:

Dedicated tunnel luminaire for 49W T16 linear fluorescent lamps, for surface or suspended mounting with brackets included which allow tilting up to 50°.

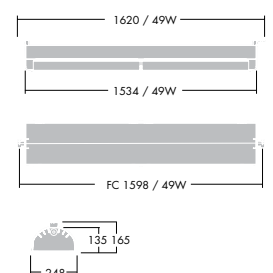
As Thorn Titus Tunnel.

Ordering Guide

Lamps to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Luminaires			
TITUS TUNNEL 1X49W TW AS L840	11.80	96240075	TTT149ZAS
TITUS TUNNEL 1X49W TW L840	11.80	96240074	TTT149Z
TITUS TUNNEL 2X49W TW AS L840	12.10	96240077	TTT249ZAS
TITUS TUNNEL 2X49W TW L840	12.10	96240076	TTT249Z

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OUTDOOR LIGHTING

TUNNEL LIGHTING

OUTDOOR LIGHTING



Columns and Brackets



Aluminium
Columns
481



Steel
Columns
485

Combination Tables
496

Suitability Tables
500

Arendal Idrettspark, Norway

Aluminium Brackets and Spigots

Three designs of bracket arm are available for use with 60mm diameter lantern spigots

- Brackets can be mounted singly on walls via wall mounting plate (QCB WMP)
- Brackets can be mounted singly or twin on columns via spigots (QBC S1 or QBC S2 respectively)



Ordering Guide

Description		Cat No.	SAP Code	Diagram Ref
CITY QCB BRA MWA PL	WALL MOUNTING PLATE	QCA1BW	96227947	1
CITY QCB MTP 1xBRA	SINGLE ARM SPIGOT	QCA1BP1	96227933	2
CITY QCB MTP 2xBRA	TWIN ARM SPIGOT	QCA1BP2	96227934	3
CITY QCB BRA 0.6M MA60 REFLEX	REFLEX STYLE BRACKET	QCA1BR	96227948	4
CITY QCB BRA 0.5M MA60 PARALLEL	PARALLEL STYLE BRACKET	QCA1BP	96227950	5
CITY QCB BRA 0.6M MA60 CURVE	CURVE STYLE BRACKET	QCA1BC	96227952	6

Notes:

1. SAP codes 96227933 & 96227934 only for use with 60mm spigot range of columns.
2. Brackets only for use with spigots or wall plate.

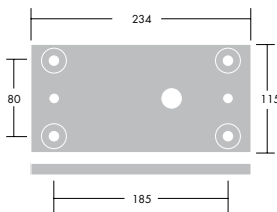
Materials/Finish

Supplied primed for painting on site

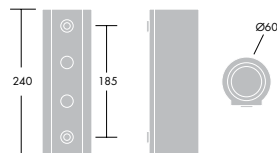
Specification

To specify state:

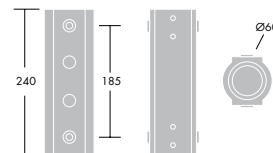
Aluminium bracket arm with 60mm diameter spigot for wall or column mounting of amenity lighting lanterns. As Thorn Reflex/Parallel/Curve bracket arm.



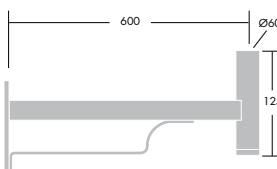
Diag. 1



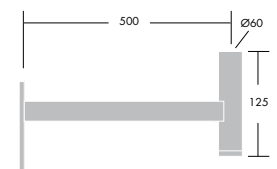
Diag. 2



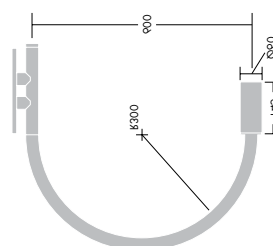
Diag. 3



Diag. 4



Diag. 5



Diag. 6

Aluminium Columns

Thorn offer aluminium columns primarily for amenity lighting applications with the following benefits:



ACT



ACS



QCMT

- Proof against corrosion even in harsh marine environments
- Does not need painting, so maintenance free
- Paint applied for aesthetic purposes adheres securely
- Light weight for easy handling
- Durable
- Flush fitting door design
- High passive safety factor in event of vehicle impact
- Highly recyclable
- Three ranges are offered
- ACS – simple stepped design from 4-6m
- ACT – tapered range from 4-6m
- QCMT – Cityscape decorative range from 3-6m
- It is recommended that these ranges are used with their associated aluminium brackets, see page 480



Aluminium Decorative Columns

A unique collection of 3, 4 and 5m columns with complementary brackets and accessories, for Cityscape lanterns



Columns are crafted from aluminium in the parallel sided, step shaft design and have two elements - the finial, and the shaft - thus enabling different styles to be created. The 145mm diameter base is available in a smooth modern design and can be supplied for direct embedment into the ground. The top detail of the shaft can be supplied in 2 forms.

The shaft

Made from parallel-sided tubular aluminium in 76mm Ø brushed finished. A 60mm Ø x 70mm long reducing spigot option allows bracket mounting spigots (with a 76mm outside Ø) to be fitted flush with the shaft.

The Base

The smooth modern base is made from 145mm Ø aluminium tubing

- Flush fitting door presents an uninterrupted profile
- Tamper-resistant locking mechanism
- Wooden baseboard for electrical equipment connections

Ordering Guide

Description		Cat No.	SAP Code	Nominal Height (m)	Spigot Dia (mm)	Diagram ref
Single 76mm post tops only range						
CITY QCMT COL 3M MGR AL LN MA76 MODERN T	3M ROOTED ALUMINIUM COLUMN 76MM SHAFT	QCA1C3M76	96227847	2.7	76	1
CITY QCMT COL 4M MGR AL LN MA76 MODERN T	4M ROOTED ALUMINIUM COLUMN 76MM SHAFT	QCA1C4M76	96227923	3.7	76	2
CITY QCMT COL 5M MGR AL LN MA76 MODERN	5M ROOTED ALUMINIUM COLUMN 76MM SPIGOT	QCA1C5M76	96227925	4.6	76	3
Single 60mm post tops or via cityscape brackets range						
CITY QCMT COL 4M MGR AL LN MA60 MODERN T	4M ROOTED ALUMINIUM COLUMN 60MM SPIGOT	QCA1C4M60	96227924	4	60	4
CITY QCMT COL 5M MGR AL LN MA60 MODERN	5M ROOTED ALUMINIUM COLUMN 60MM SPIGOT	QCA1C5M60	96227926	5	60	5

Notes:

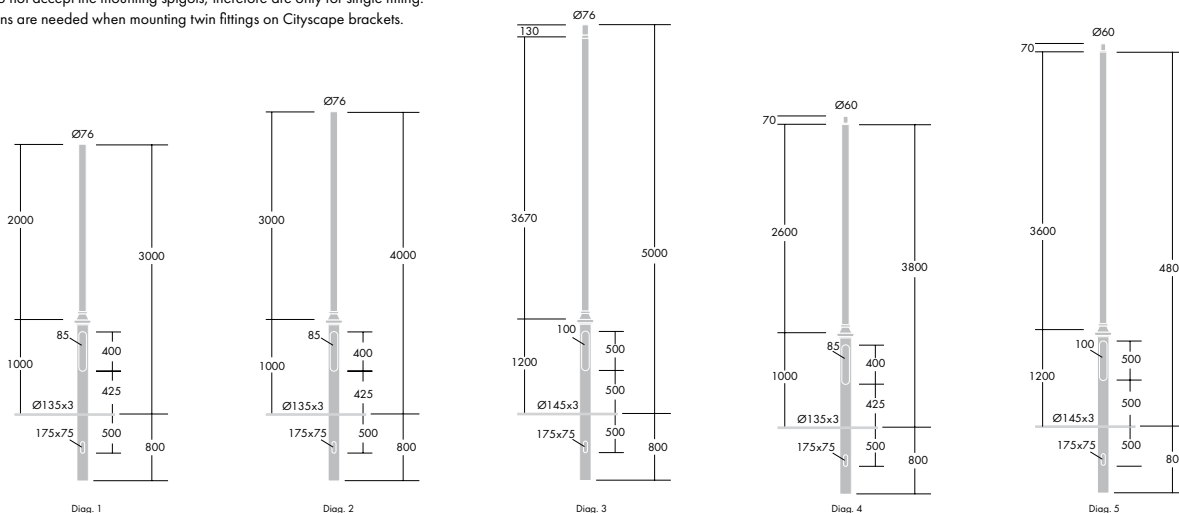
1. All column heights are nominal. Columns are designed so that the lantern centre is at approximately 3m, 4m or 5m, from the ground.
2. Refer to the combination table to ensure that the column is suitable for the proposed number of lanterns (pages 496-497).
3. 76/76 allows direct fix 76mm single post tops only.
4. 76/76 do not accept the mounting spigots, therefore are only for single fitting.
5. 60 versions are needed when mounting twin fittings on Cityscape brackets.

Materials/Finish

High corrosion-resistant aluminium alloy. All columns are supplied brushed finish. Finials are cast aluminium. Roots are plastic protective coated. The shaft and finial are attached in the factory. Bases have flush-fitting doors with a tamper-resistant locking mechanism.

Specification

To specify state:
3m, 4m and 5m parallel-sided amenity lighting column in high-grade aluminium in brushed finish, with a 145mm Ø base and 76mm shaft diameter.
As Thorn Cityscape Aluminium Columns.



Aluminium Tapered Columns

Tapered columns are designed to add visual interest and as an alternative to conventional stepped designs



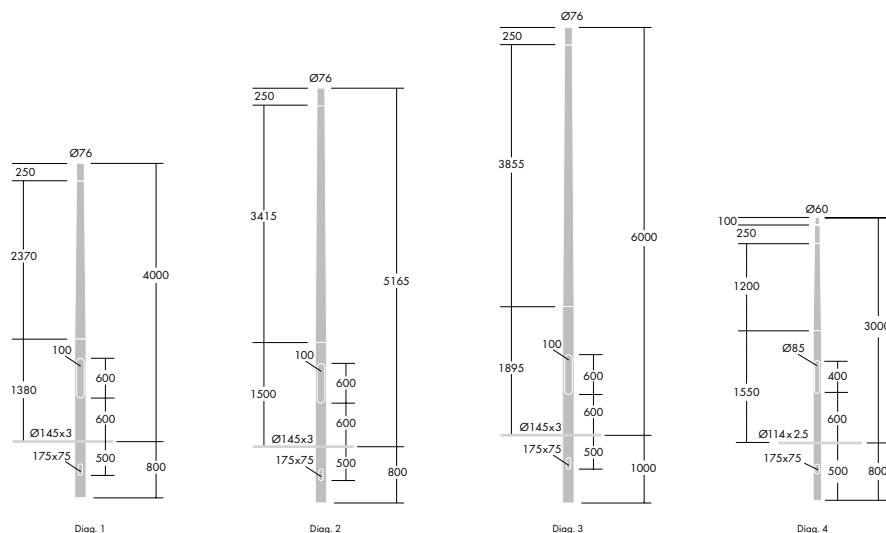
These columns are in extruded series 6000 aluminium alloy, finished to a high standard. This finish is protected by individual wrapping on each column to prevent transit damage. Enhanced weight/windage capacity is achieved by the construction technique which uses a double thickness form at the lower end. Root sections are thermoplastic coated to give protection against corrosive elements. Cable entry below ground, has the entry lined with a plastic coating to avoid chafing of the cable. Inside the column is a hardwood back board with adjustable vertical position, for mounting cable termination and isolation switches. Earth studs are included, one inside the column base, the other on the door. The flush mounting door is secured by two locks, positioned at top and bottom of the door. The key format makes unauthorised entry extremely difficult. The standard finish is brushed aluminium.

Ordering Guide

Description		Cat No.	SAP Code	Nominal Height (m)	Spigot Dia (mm)	Diagram ref
Post top single only range						
TAPERED COL 4M MGR D145 MA76	4M ROOTED TAPERED ALUMINIUM COLUMN 76MM SPIGOT X 250MM	QCA2C4M76	96503703	4	76	1
TAPERED COL 5M MGR D145 MA76	5M ROOTED TAPERED ALUMINIUM COLUMN 76MM SPIGOT X 250MM	QCA2C5M76	96227896	5	76	2
TAPERED COL 6M MGR D145 MA76	6M ROOTED TAPERED ALUMINIUM COLUMN 76MM SPIGOT X 250MM	QCA2C6M76	96227898	6	76	3
ACT Avenue range						
ACT COL 3M MGR AL CCO D114 MA60	3M ROOTED TAPERED ALUMINIUM COLUMN 60MM SPIGOT FOR AVENUE LANTERN	QCA2C3M60	96235757	3	60	4
Accessories						
DOOR KEY FOR TAPERED OR STEPPED AL COL		QCA2KEY	96227645			

Note:

1. Refer to the combination table to ensure that the column is suitable for the proposed number of lanterns (pages 496-497).



Aluminium Tubular Columns

Stepped columns are drawn from a single tube, with no welded joints. Giving enhanced carrying capacity, as well as a smoother line to the column



These columns are in extruded series 6000 aluminium alloy, finished to a high standard. This finish is protected by individual wrapping on each column to prevent transit damage. Enhanced weight/windage capacity is achieved by the construction technique which uses a double thickness form at the lower end. Root sections are thermoplastic coated to give protection against corrosive elements. Cable entry below ground, has the entry lined with a plastic coating to avoid chafing of the cable. Inside the column is a hardwood back board with adjustable vertical position, for mounting cable termination and isolation switches. Earth studs are included, one inside the column base, the other on the door. The flush mounting door is secured by two locks, positioned at top and bottom of the door. The key format makes unauthorised entry extremely difficult. The standard finish is brushed aluminium.

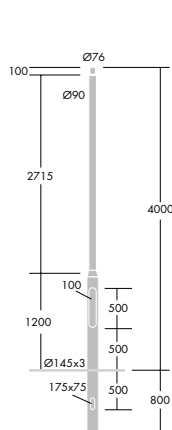
- The upper shaft is constant regardless of the top spigot diameter

Ordering Guide

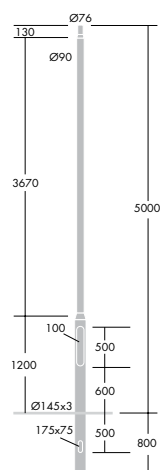
Description		Cat No.	SAP Code	Nominal Height (m)	Spigot Dia (mm)	Diagram ref
Post top single only range						
TAPERED COL 4M MGR D 145 MA76	4M ROOTED STEPPED TUBULAR ALUMINIUM COLUMN 76MM SPIGOT x100mm	QCA3C4M	96227885	4	76	1
TAPERED COL 5M MGR D 145 MA76	5M ROOTED STEPPED TUBULAR ALUMINIUM COLUMN 76MM SPIGOT x130mm	QCA3C5M	96227886	5	76	2
TAPERED COL 6M MGR D 145 MA76	6M ROOTED STEPPED TUBULAR ALUMINIUM COLUMN 76MM SPIGOT x130mm	QCA3C6M	96227888	6	76	3
Accessories						
DOOR KEY FOR TAPERED OR STEPPED AL COL		QCA2KEY	96227645			

Note:

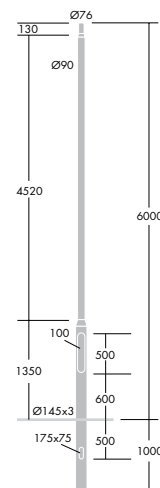
1. Refer to the combination table to ensure that the column is suitable for the proposed number of lanterns (pages 496-497).



Diag. 1



Diag. 2



Diag. 3

Steel Columns

Thorn offer steel columns for amenity, street and floodlighting applications with the following benefits



QC-7C

- Large range of heights
- Greater weight capacity than aluminium
- Possibility to create heritage style (QCZR range)
- Four ranges are offered
- QCZR – simple design for amenity/street/flood 4-10m
- QCTC – architectural design and stronger than QCZR for amenity/street/flood 4-12m
- QCTH – sports floodlighting columns 8-16m
- QCFH – raise and lower design for large floodlights 8-20m
- It is strongly recommended that these ranges are used with their associated steel brackets
- It is recommended that the weight and windage capabilities are assessed, see page 501



QCFH

Steel Amenity/Street Brackets and Adaptors

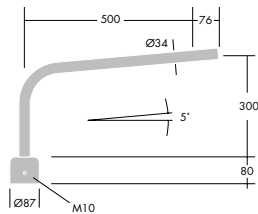
- Some brackets are dedicated to specific fitting, whilst others are multi purpose
- These brackets are for use with steel columns
- For compatible columns and fittings see page 490-493.

Materials/Finish

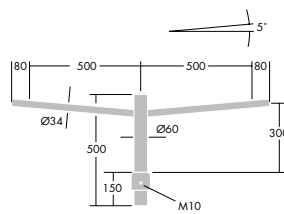
Brackets are hot dipped, galvanised steel.

Ordering Guide

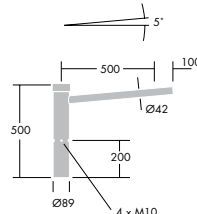
Description		Cat No.	SAP Code	Diagram Ref
34mm side entry with 5 degree tilt				
BRAX1 0.5M MTP MA76 D34	SINGLE ARM 0.5M PROJECTION 5 DEGREE TILT 34MM SIDE ENTRY FOR ANY COLUMN WITH 76MM SPIGOT	QCS1B51	96227640	1
BRAX2 0.5M MTP MA76 D34	TWIN ARM 0.5M PROJECTION 5 DEGREE TILT 34MM SIDE ENTRY FOR ANY COLUMN WITH 76MM SPIGOT	QCS1B52	96227641	2
42 mm side entry with 5 degree tilt				
CZR BRA MTP 0.5M D42 FOR CZR COL 8M	SINGLE ARM 0.5M PROJECTION 5 DEGREE TILT 42MM SIDE ENTRY FOR QCZR8	QCS1B8M1	96227860	3
CZR BRAX2 MTP 0.5M D42 FOR CZR COL 8M	TWIN ARM 0.5M PROJECTION 5 DEGREE TILT 42MM SIDE ENTRY FOR QCZR8	QCS1B8M2	96227861	4
CZR BRA MTP 0.5M D42 FOR CZR COL 10M	SINGLE ARM 0.5M PROJECTION 5 DEGREE TILT 42MM SIDE ENTRY FOR QCZR8HD & QCZR10	QCS1B10M1	96227864	5
CZR BRAX2 MTP 0.5M D42 FOR CZR COL 10M	TWIN ARM 0.5M PROJECTION 5 DEGREE TILT 42MM SIDE ENTRY FOR QCZR8HD & QCZR10	QCS1B10M2	96227865	6
Adaptors/reducers				
CS7660 MTP MA76/60	POST TOP SPIGOT ADAPTOR TO CONVERT ANY COLUMN WITH 76MM SPIGOT TO 60MM SPIGOT x 100MM LONG	QCS1M6076	96227639	7
CZR MA60 FOR CZR COL 8M	POST TOP ADAPTOR WITH 60MM SPIGOT x 100MM LONG FOR QCZR8	QCS1M8M60	96227863	8
CZR MA76 FOR CZR COL 8M	POST TOP ADAPTOR WITH 76MM x 76MM LONG SPIGOT FOR QCZR8	QCS1M8M76	96227644	9
CZR MA60 FOR CZR COL 10M	POST TOP ADAPTOR WITH 60MM x 100MM LONG SPIGOT FOR QCZR8HD & QCZR10	QCS1M10M60	96227867	10
CZR MA76 FOR CZR COL 10M	POST TOP ADAPTOR WITH 76MM x 76MM LONG SPIGOT FOR QCZR8HD & QCZR10	QCS1M10M76	96227868	11



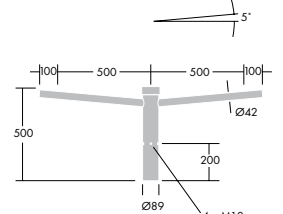
Diag. 1



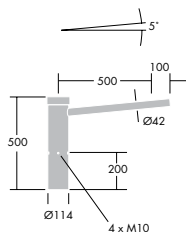
Diag. 2



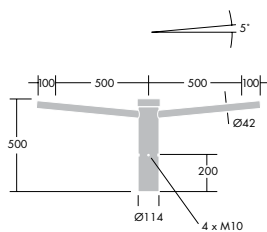
Diag. 3



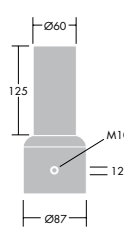
Diag. 4



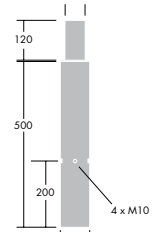
Diag. 5



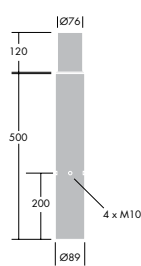
Diag. 6



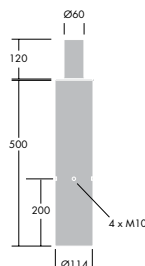
Diag. 7



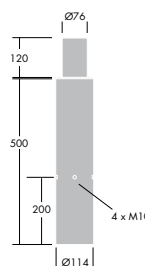
Diag. 8



Diag. 9



Diag. 10



Diag. 11

Steel Floodlighting Brackets and Adaptors

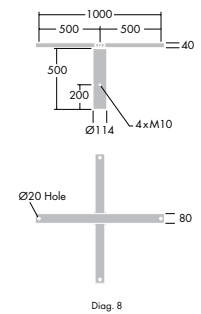
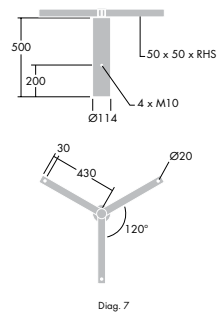
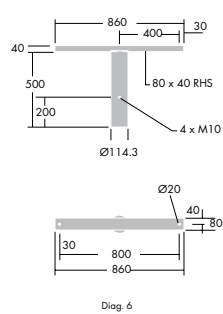
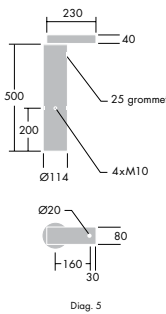
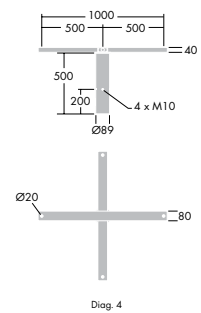
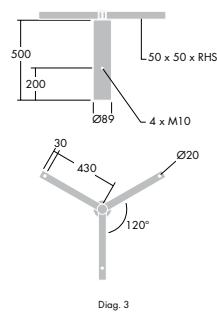
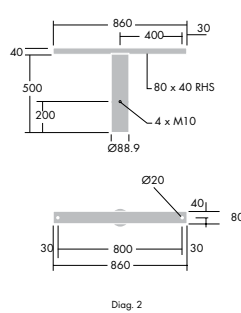
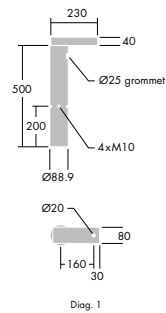
- Some brackets are dedicated to specific fittings, whilst others are multi-purpose
- These brackets are for use with steel columns
- For compatible columns and fittings see page 488.

Materials/Finish

Brackets are hot dipped, galvanised steel.

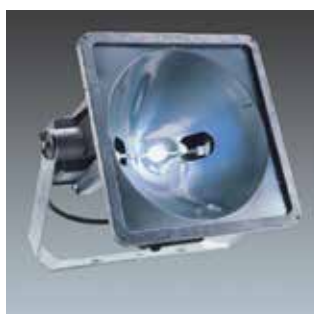
Ordering Guide

Description		Cat No.	SAP Code	Diagram Ref
Flood brackets for QCZR & QCTC columns (with 76mm spigot only)				
Flood brackets for QCZR8 columns				
QCZR BRAX1 MTP FOR QCZR COL 8M	SINGLE FLOODLIGHT STIRRUP BRACKET FOR QCZR8	QCS1BF8M1	96227849	1
QCZR BRAX2 MTP FOR QCZR COL 8M	TWIN FLOODLIGHT STIRRUP BRACKET FOR QCZR8	QCS1BF8M2	96227850	2
QCZR BRAX3 MTP FOR QCZR COL 8M	3 WAY DELTA FLOODLIGHT STIRRUP BRACKET FOR QCZR8	QCS1BF8M3	96227851	3
QCZR BRAX4 MTP FOR QCZR COL 8M	4 WAY 90 DEGREE FLOODLIGHT STIRRUP BRACKET FOR QCZR8	QCS1BF8M4	96227852	4
Flood brackets for spigot of QCZR8HD & QCZR10 columns				
QCZR BRAX1 MTP FOR QCZR COL 8HD/10M	SINGLE FLOODLIGHT STIRRUP BRACKET FOR QCZR8HD & QCZR10	QCS1BF8MH10M1	96227853	5
QCZR BRAX2 MTP FOR QCZR COL 8HD/10M	TWIN FLOODLIGHT STIRRUP BRACKET FOR QCZR8HD & QCZR10	QCS1BF8MH10M2	96227854	6
QCZR BRAX3 MTP FOR QCZR COL 8HD/10M	3 WAY DELTA FLOODLIGHT STIRRUP BRACKET FOR QCZR8HD & QCZR10	QCS1BF8MH10M3	96227855	7
QCZR BRAX4 MTP FOR QCZR COL 8HD/10M	4 WAY CROSS FLOODLIGHT STIRRUP BRACKET FOR QCZR8HD & QCZR10	QCS1BF8MH10M4	96227856	8



Steel Sports/ Large Floodlighting Columns

A range dedicated for use with Altis, Champion or Mundial for large scale floodlighting



- Can be used with Altis, Champion or Mundial fitting and house the remote control gear
- Offers 8, 10 or 16m solutions
- Flanged base for bolting down to a foundation
- Dedicated brackets for different combinations of Altis, Champion or Mundial floodlights
- Columns are designed to house 2 sets of control gear within the base
- 16m version when used with 3 or 4 fittings/gear sets per column needs an additional bolt on gear box (SAP 96227037) to house separately supplied gear
- Bolt on gear box is supplied with the necessary bolts to mount onto the 16m column which is pre-drilled to accept this
- Columns and brackets are steel (hot dipped galvanised finish)
- Columns are manufactured from 20 sided tapering folded sheet steel sections
- 16m columns are supplied in 2 sections for on site assembly
- 8 and 10m columns are supplied in 1 section
- Brackets are supplied separately from the column for on site assembly
- 8 and 10m have flanged plates of 400 x 400mm and use 4 number M24 bolt holes at 300 x 300mm centres
- 16m have flange plates of 450 x 450mm and use 4 number M27 bolt holes at 350 x 350mm centres
- Ground fixing bolts are supplied as an accessory and not with the column
- Ground templates are available as an accessory. The templates are used on site when casting the concrete foundation to ensure the correct positioning of the bolts in the foundation such that they line up with the column flange plate holes

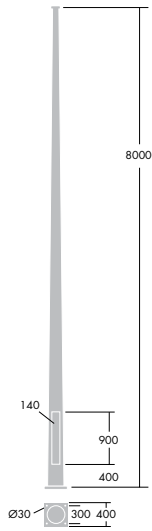


Ordering Guide

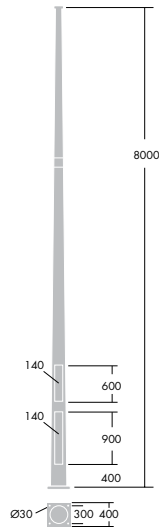
Description		Cat No.	SAP Code	Diagram ref
Columns				
QTCH COL 8M MPL ST DOORx1	STEEL COLUMN, FLANGED BASE, 8M, SINGLE DOOR, SUITABLE TO HOUSE 1 SET OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C8M1D	96227025	1
QTCH COL 8M MPL ST DOORx2	STEEL COLUMN, FLANGED BASE, 8M, DOUBLE DOOR, SUITABLE TO HOUSE 2 SETS OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C8M2D	96227026	2
QTCH COL 10M MPL ST DOORx1	STEEL COLUMN, FLANGED BASE, 10M, SINGLE DOOR, SUITABLE TO HOUSE 1 SET OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C10M1D	96227027	3
QTCH COL 10M MPL ST DOORx2	STEEL COLUMN, FLANGED BASE, 10M, DOUBLE DOOR, SUITABLE TO HOUSE 2 SETS OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C10M2D	96227028	4
QTCH COL 16M MPL ST DOORx1	STEEL COLUMN, FLANGED BASE, 16M, SINGLE DOOR, SUITABLE TO HOUSE 1 SET OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C16M1D	96227029	5
QTCH COL 16M MPL ST DOORx2	STEEL COLUMN, FLANGED BASE, 16M, DOUBLE DOOR, SUITABLE TO HOUSE 2 SETS OF GEAR FOR CHAMPION FLOODLIGHT	QCS3C16M2D	96227030	6
QTCH COL 16M MPL ST DOORx1 FIXx3	STEEL COLUMN, FLANGED BASE, 16M, SINGLE DOOR, TO TAKE 3 CHAMPION FLOODLIGHT.	QCS3C16M1D3	96227031	7
QTCH COL 16M MPL ST DOORx2 FIXx4	STEEL COLUMN, FLANGED BASE, 16M, DOUBLE DOOR, TO TAKE 4 CHAMPION FLOODLIGHT.	QCS3C16M2D4	96227032	8
Brackets				
QTCH BRA x 1	SINGLE BRACKET FOR CHAMPION FLOODLIGHT, USE ONLY WITH QTCH COLUMNS	QTCHB1	96227033	9
QTCH BRA x 2	TWIN IN LINE BRACKET FOR CHAMPION FLOODLIGHT, USE ONLY WITH QTCH COLUMN	QTCHB2	96227034	10
QTCH BRA x 3	TRIPLE DELTA BRACKET FOR CHAMPION FLOODLIGHT, USE ONLY WITH QTCH COLUMN	QTCHB3	96227035	11
QTCH BRA x 4	QUADRUPLE IN LINE 2 UP/2 DOWN BRACKET FOR CHAMPION FLOODLIGHT, USE ONLY WITH QTCH COLUMN	QTCHB4	96227036	12
Accessories				
QTCH GB	BOLT ON GEAR BOX FOR USE WITH 16M QTCH COLUMNS WHERE 3 OR 4 SETS OF PRE-WIRED GEAR TRAYS ARE TO BE HOUSED	QTCHBG	96227037	13
QTCH FA KIT FOR QTCH COL 8/10M	SET OF GROUND MOUNTING BOLTS FOR USE WITH QTCH COLUMNS IN 8M & 10M HEIGHTS, COMPRISING 4 NO M24 J BOLTS, NUTS & WASHERS	QTCHBS1	96227038	14
QTCH TEMPLATE FOR QTCH COL 8/10M	GROUND TEMPLATE FOR USE WITH QTCH COLUMNS IN 8M & 10M HEIGHTS	QTCHTP1	96227039	15
QTCH FA KIT FOR QTCH COL 16M	SET OF GROUND MOUNTING BOLTS FOR USE WITH QTCH COLUMNS IN 16M HEIGHT ONLY, COMPRISING 4 NO M27X850MM STUDS, NUTS & WASHERS	QTCHBS2	96227040	16
QTCH TEMPLATE FOR QTCH COL 16M	GROUND TEMPLATE FOR USE WITH QTCH COLUMNS IN 16M HEIGHT ONLY	QTCHTP2	96227041	on request

Notes:

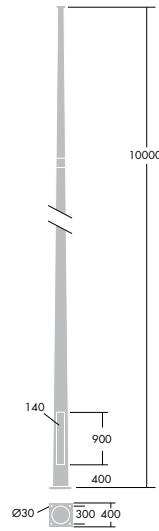
1. For suitability for specific locations please consult your local engineer.
2. The Limiting Rationalised Wind Loading Regions indicate the maximum load condition the flood pole can sustain. The Region Categories shown are defined by the guidance in Annex A of PD6547: 2004 along with the associated Rationalised Wind Load Factors (X Heavy 566 Nm-2; Heavy 466 Nm-2; Medium 429 Nm-2; and Light 396 Nm-2).
3. For the categorisation of masts, the Rationalised Wind Loading Region indicates the maximum design wind speed and limiting site altitude used for checking the design of the masts to Technical Report No. 7, using the actual values of lantern weight and windage for the particular arrangement.
4. Where columns or masts are required in locations with a Wind Loading Region category higher than the limiting values shown.



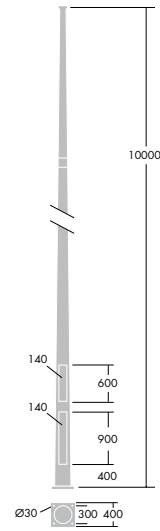
Diag. 1



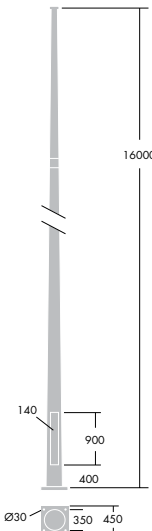
Diag. 2



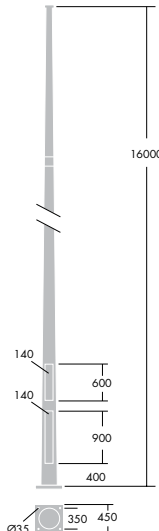
Diag. 3



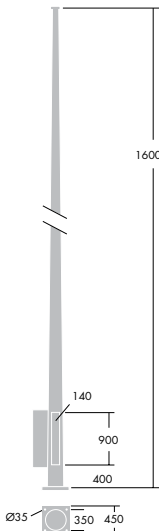
Diag. 4



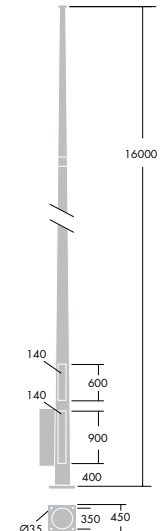
Diag. 5



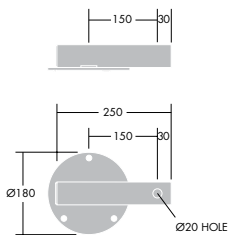
Diag. 6



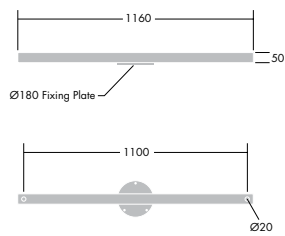
Diag. 7



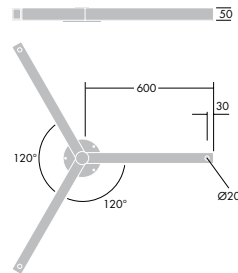
Diag. 8



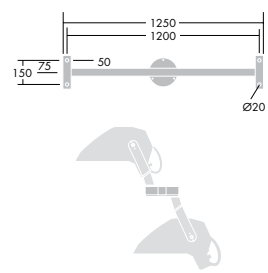
Diag. 9



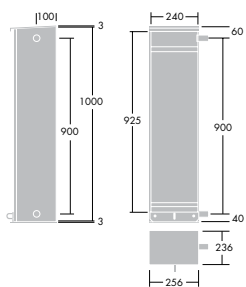
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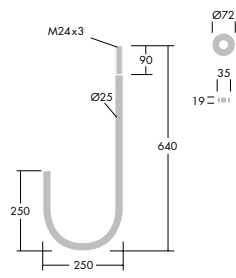
Diag. 11



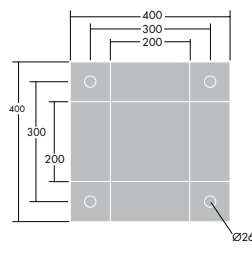
Diag. 12



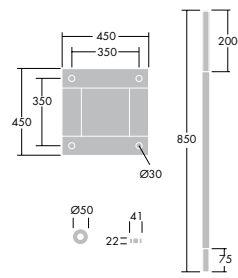
Diag. 13



Diag. 14



Diag. 15



Diag. 16

Steel Tapered Columns

A range of heavy-duty multi-purpose tapered round section steel columns for a variety of applications



- Supports up to four Sonpak LX floodlights
- Supports up to four Areaflood 2 stirrup-mounted floodlights
- Supports up to two Lemnis and Decostreet
- Available in heights of 4 to 12m
- Full range of bracketry available (see pages 487)
- It is recommended that suitability for location is checked regarding the weight/windage capabilities of the column, see pages 478-481
- Columns and brackets are hot dipped galvanised steel to BS/EN ISO 1461
- All columns are manufactured to BS 5649/EN 40/94
- All steel columns are designed to the European Standard BS EN 40 which supersedes the requirements of BS5649 in the UK. Column capacities are provided in relation to Rationalised Wind Loading Regions and Factors. These are defined in Published Document PD6547:2004 'Guidance on the use of BS EN 40-3-1 and BS EN 40-3-3' (ISBN 0 580 44829 0) by British Standards Institute (BSI). Default values of Terrain Category have been assumed, i.e. columns under 8m use Terrain Category III and columns 8m and above use Terrain Category II.
- A range of complimentary brackets are shown on page 487.

Ordering Guide

Description		Cat No.	SAP Code	Nominal Height (m)	Diagram Ref
4-6m Range-(60mm spigot)-for post top mounting only-eg-one fitting					
QCTC COL 4M ST CCO MGR MA60	4M GALVANISED TAPERED STEEL COLUMN 60MM SPIGOT	QCS2C4M60	96228137	4	1
QCTC COL 5M ST CCO MGR MA60	4.7M GALVANISED TAPERED STEEL COLUMN 60MM SPIGOT	QCS2C5M60	96228172	5	2
QCTC COL 6M ST CCO MGR MA60	6M GALVANISED TAPERED STEEL COLUMN 60MM SPIGOT	QCS2C6M60	96228029	6	3
4-12m Range-(76mm spigot)					
QCTC COL 4M ST CCO MGR MA76	4M GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C4M76	96227660	4	4
QCTC COL 5M ST CCO MGR MA76	4.7 GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C5M76	96227650	5	5
QCTC COL 6M ST CCO MGR MA76	6M GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C6M76	96227655	6	6
QCTC COL 8M ST CO MGR MA 76 HD	8M HEAVY DUTY GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C8MH76	96227871	8	7
QCTC COL 10M ST CCO MGR MA76	10M GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C10M76	96227872	10	8
QCTC COL 10M ST CCO MGR MA76 HD	10M HEAVY DUTY GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C10MH76	96227874	10	9
QCTC COL 12M ST CCO MGR MA76	12M GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C12M76	96227873	12	10
QCTC COL 12M ST CCO MGR MA76 HD	12M HEAVY DUTY GALVANISED TAPERED STEEL COLUMN 76MM SPIGOT	QCS2C12MH76	96227875	12	11
Accessory					
QC DOOR KEY	DOOR KEY	QCS2KEY	QCS2KEY	96227659	
Spares					
QCTC SPARE DOORS (4-6M)	SPARE DOOR FOR 4M/4.7M/6M WITH 140MM BASE DIA.	-	96227756		

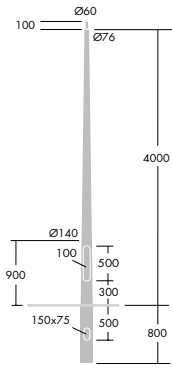
Notes:

1. See page 486 for compatible amenity brackets.
2. See page 487 for compatible flood brackets.
3. All columns are galvanised tapered steel root mounted.
4. HD - heavy duty

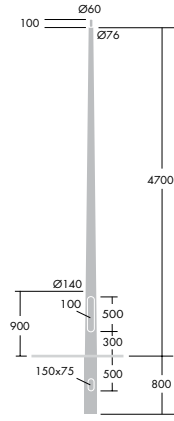
Materials/Finish

Hot dip galvanised, round section tapered steel column with a 76mm spigot.

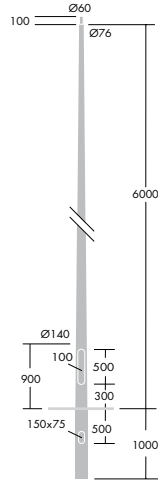
Available in rooted form only. Base compartment with wooden backboard and door secured by tamper-resistant bolt. Alternative versions available with welded-in 60mm Ø x 100mm spigot. For suitable bracketry see page 487.



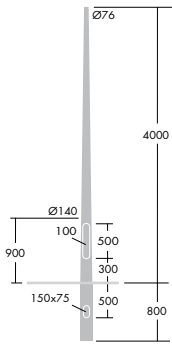
Diag. 1



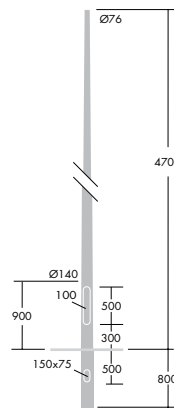
Diag. 2



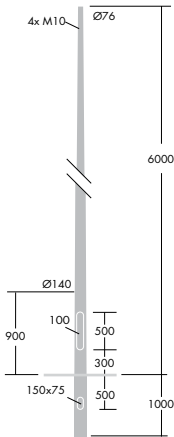
Diag. 3



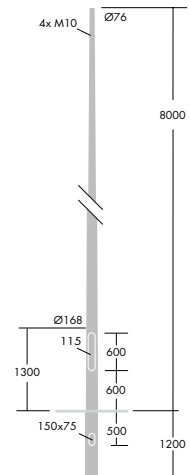
Diag. 4



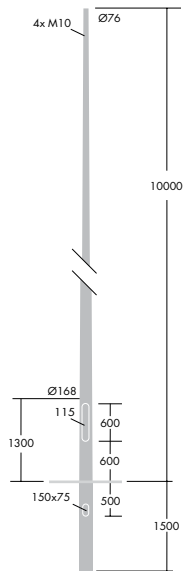
Diag. 5



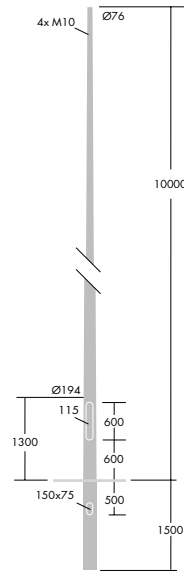
Diag. 6



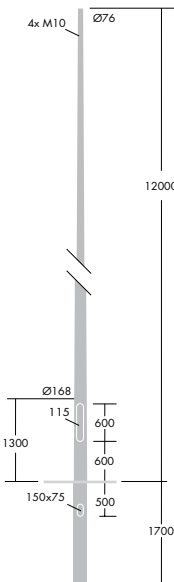
Diag. 7



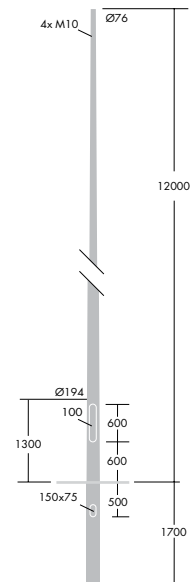
Diag. 8



Diag. 9



Diag. 10



Diag. 11

Steel Tubular Columns

A range of stepped tubular steel columns for use with amenity, street and floodlight fittings

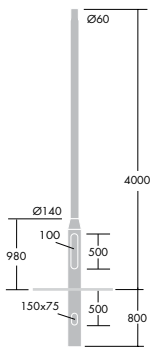
- Columns and brackets are hot dipped galvanised steel to BS/EN ISO 1461
 - All columns are manufactured to BS 5649/EN 40/94
 - All steel columns are designed to the European Standard BS EN 40 which supersedes the requirements of BS5649 in the UK. Column capacities are provided in relation to Rationalised Wind Loading Regions and Factors.
- These are defined in Published Document PD6547:2004 'Guidance on the use of BS EN 40-3-1 and BS EN 40-3-3' (ISBN 0 580 44829 0) by British Standards Institute (BSI). Default values of Terrain Category have been assumed, i.e. columns under 8m use Terrain Category III and columns 8m and above use Terrain Category II.
- A range of complimentary brackets are shown on pages 486-487.

Ordering Guide

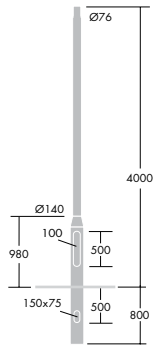
Description		Cat No.	SAP Code	Nominal Height (m)	Diagram ref
4-6m Range (60mm Spigot)					
QCZR COL 4M MGR ST LN NMA MA60	4M ROOTED STEEL COLUMN, 60MM SHAFT	QCS1C4M60	96228006	4	1
QCZR COL 4M MGR ST LN MA60	4M ROOTED STEEL COLUMN, 76MM SHAFT, TOP SPIGOT 60MM X 100MM	QCS1C4MT60	96228046	4	2
QCZR COL 5M MGR ST LN NMA MA60	5M ROOTED STEEL COLUMN, 60MM SHAFT	QCS1C5M60	96227657	5	3
QCZR COL 5M MGR ST LN MA60	5M ROOTED STEEL COLUMN, 76MM SHAFT, TOP SPIGOT 60MM X 100MM	QCS1C5MT60	96227661	5	4
QCZR COL 6M MGR ST LN MA60	6M ROOTED STEEL COLUMN, 76MM SHAFT, TOP SPIGOT 60MM X 100MM	QCS1C6MT60	96227652	6	5
4-6m Range (76mm Spigot)					
QCZR COL 4M MGR ST LN NMA	4M ROOTED STEEL COLUMN, 76MM SHAFT, 76MM SPIGOT	QCS1C4M76	96227674	4	6
QCZR COL 5M MGR ST LN NMA	5M ROOTED STEEL COLUMN, 76MM SHAFT, 76MM SPIGOT	QCS1C5M76	96227651	5	7
QCZR COL 6M MGR ST LN NMA	6M ROOTED STEEL COLUMN, 76MM SHAFT, 76MM SPIGOT	QCS1C6M76	96227654	6	8
8m Range					
QCZR COL 8M MGR ST LN	8M ROOTED STEEL COLUMN	QCS1C8M*	96227658	8	9
QCZR COL 8M MGR ST LN HEAVY DUTY	8M ROOTED STEEL COLUMN, HEAVY DUTY	QCS1C8MH*	96227869	8	10
10m Range					
QCZR COL 10M MGR ST LN	10M ROOTED STEEL COLUMN	QCS1C10M*	96227755	10	11
Accessories					
QCZR COL KIT DECO	HERITAGE KIT FOR 4, 5, 6M (76MM SHAFT TYPE ONLY)	QCS1DK	96227733	-	-
QC DOOR KEY	DOOR KEY	QCTCK	96227659	-	-
Spares					
QCZR SPARE DOOR FOR CZR COL 4/5/6M	SPARE DOOR FOR QCZR COL 4/5/6M	QCS1D456M	96227702	-	-
QCZR SPARE DOOR FOR CZR COL 8/10M	SPARE DOOR FOR QCZR COL 8/10M	QCS1D810M	96227717	-	-

Notes:

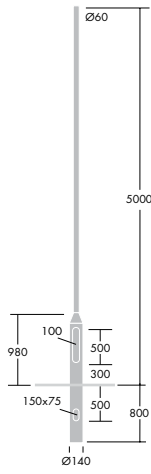
- See page 486-487 for adaptors to modify 8 & 10m spigot sizes.
- All columns are rooted.
- *These items must be used with brackets/adaptors – see pages 486-487. Lanterns cannot be directly mounted. QCZR6HD/QCZR8/QCZR8HD/QCZR10 must be used with an adaptor/bracket from pages 486-487.



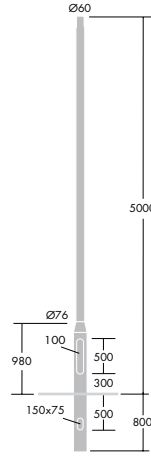
Diag. 1



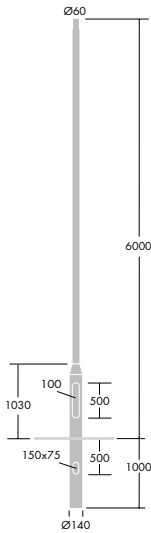
Diag. 2



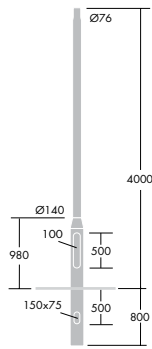
Diag. 3



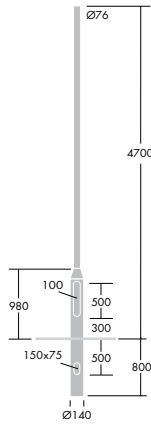
Diag. 4



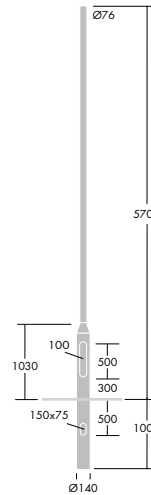
Diag. 5



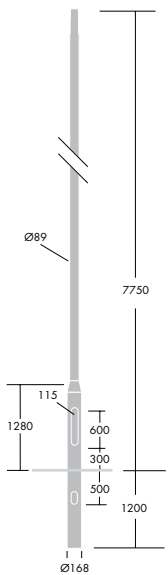
Diag. 6



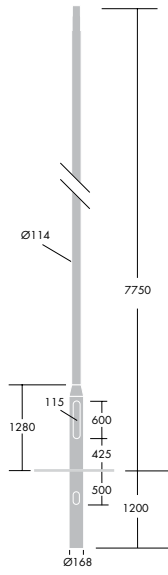
Diag. 7



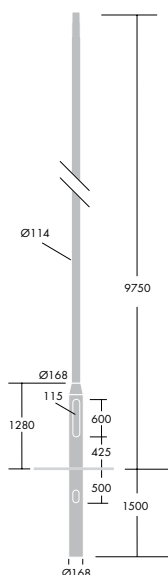
Diag. 8



Diag. 9



Diag. 10



Diag. 11

Steel Columns

Hinged raise and lower range (QCFH)

A system of 8-20m steel columns supplied in sections, cross-arm brackets, fixation bolts, gear trays and power tools



Ordering Details

Due to the complex nature of this system it is necessary to contact your local sales engineer for more information.

Specific delivery charges apply to this system based on geographical location/quantities involved.





Combination tables

Amenity luminaires used with ACT/ACS/QCMT Columns and brackets

Gamma/Legend Post Top Ø76mm

Bracket		ACS/ACT						QCMT				
Style	SAP code	4m		5m		6m	3M	4M	5M			
		96227885	96503703	96227886	96227896	96227888	96227898	96227847	96227923	96227924	96227925	96227926
Post Top - direct to column	n/a	•	•	•	•	•	•	•	•	•	•	•

Avenue Post Top Ø60mm

Bracket		ACT
Style	SAP code	3m
		Post Top - direct to column

Street luminaires used with ACT/ACS/QCMT Columns

Celest / Civic / Oracle Post Top Ø60/76mm or Side Entry Ø42/60mm

Bracket		ACS/ACT						QCMT				
Style	SAP code	4m		5m		6m	3M	4M	5M			
		96227885	96503703	96227886	96227896	96227888	96227898	96227847	96227923	96227924	96227925	96227926
Post Top - direct to column	n/a	•	•	•	•	•	•	•	•	•	•	•

Amenity luminaires used with QCZR/QCTC Columns and brackets (including wall brackets)

Legend Suspended 1" BSP only on columns or wall bracket

Bracket		Column - QCZR						Column - QCTC																	
Style	SAP code	4m		5m		6m	8m	10m	4m	5m	6m	8m	10m	12m											
		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875	
Single suspended	96227858								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Twin suspended	96227859								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wall bracket	96228100																								

Amenity luminaires used with QCZR/QCTC Columns and brackets (including wall brackets)

Gamma/Legend Post Top Ø76mm

Bracket		Column - QCZR					Column - QCTC																		
Style	SAP code	4m	5m	6m	8m	10m	4m	5m	6m	8m	10m	12m													
				96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873
Post Top - direct to column	n/a		•			•		•						•		•		•		•	•	•	•	•	•
76mm post top adaptor	96227644							•		•															
Twin bullhorn post top	96503698		•			•		•						•		•		•		•	•	•	•	•	•

Dyana Side Entry Ø60mm

Bracket		Column - QCZR					Column - QCTC																		
Style	SAP code	4m	5m	6m	8m	10m	4m	5m	6m	8m	10m	12m													
				96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873
60mm single side entry with zero degree tilt	96503686		•		•			•																	
	96503688								•	•															
	96503701										•	•													
	96227642													•		•		•		•	•	•	•	•	•
60mm twin side entry with zero degree tilt	96503687		•		•			•																	
	96503689								•	•															
	96503702										•	•													
	96227643													•		•		•		•	•	•	•	•	•
60mm single side entry with 5 degree tilt	96503690													•		•		•		•	•	•	•	•	•
	96503692		•		•			•																	
	96503694													•		•		•		•	•	•	•	•	•
	96503696										•	•													
60mm twin side entry with 5 degree tilt	96503691													•		•		•		•	•	•	•	•	•
	96503693		•		•			•																	
	96503695													•		•		•		•	•	•	•	•	•
	96503697										•	•													

Combination tables

Street luminaires used with QCZR/QCTC Columns and brackets

Celest/Civic/Oracle Post Top Ø60/76mm or Side Entry Ø42/60mm or Side Entry Ø42/60mm

Bracket	SAP code	Column - QCZR					Column - QCTC																	
		4m	5m	6m	8m	10m	4m	5m	6m	8m	10m	12m												
Style		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875
Post Top - direct to column	n/a	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60mm post top adaptor	96227863 96227867								•	•														
76mm post top adaptor	96227644 96227868								•	•														
42mm single side entry with 5 degree tilt	96227860								•	•														
42mm twin side entry with 5 degree tilt	96227864 96227861 96227865								•	•														
60mm single side entry with 5 degree tilt	96503690 96503692 96503694 96503696 96503691		•			•		•		•				•	•		•		•	•	•	•	•	•
60mm twin side entry with 5 degree tilt	96503693 96503695 96503697		•			•			•	•				•	•		•		•	•	•	•	•	•
60mm single side entry with zero degree tilt	96503686 96503688 96503701 96227642		•			•			•	•				•	•		•		•	•	•	•	•	•
60mm twin side entry with zero degree tilt	96503687 96503689 96503702 96227643		•			•			•	•				•	•		•		•	•	•	•	•	•

Jet Post Top Ø60/76mm (via adaptor) or Side Entry Ø42/60mm

Bracket	SAP code	Column - QCZR					Column - QCTC																	
		4m	5m	6m	8m	10m	4m	5m	6m	8m	10m	12m												
Style		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875
60mm post top adaptor	96219232	•	•		•	•		•						•	•		•		•	•	•	•	•	•
76mm post top adaptor	96219665		•			•		•						•	•		•		•	•	•	•	•	•
42mm single side entry with 5 degree tilt	96227860								•	•														
42mm twin side entry with 5 degree tilt	96227864 96227861 96227865								•	•														
60mm single side entry with 5 degree tilt	96503690 96503692 96503694 96503696 96503691		•			•		•		•				•	•		•		•	•	•	•	•	•
60mm twin side entry with 5 degree tilt	96503693 96503695 96503697		•			•			•	•				•	•		•		•	•	•	•	•	•
60mm single side entry with zero degree tilt	96503686 96503688 96503701 96227642		•			•			•	•				•	•		•		•	•	•	•	•	•
60mm twin side entry with zero degree tilt	96503687 96503689 96503702 96227643		•			•			•	•				•	•		•		•	•	•	•	•	•

Floodlights used with QCZR/QCTC Columns and brackets

Contrast/QBA Stirrup mounting

Bracket		Column - QCZR					Column - QCTC																				
Style	SAP code	4m			5m		6m		8m		10m		12m														
		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875			
Single floodlight	96227635			•		•		•					•		•		•		•		•	•	•	•	•	•	
	96227849								•	•																	
	96227853										•	•															
Twin floodlights	96014734			•		•		•					•		•		•		•		•	•	•	•	•	•	•
	96227850									•	•																
	96227854										•	•															
3 way floodlights	96227848			•		•		•					•		•		•		•		•	•	•	•	•	•	•
	96227851									•	•																
	96227855										•	•															
4 way floodlights	96014663			•		•		•					•		•		•		•		•	•	•	•	•	•	•
	96227852									•	•																
	96227856										•	•															

Troika/Sonpak 7-15/Areaflood 1&2 Stirrup mounting

Bracket		Column - QCZR					Column - QCTC																					
Style	SAP code	4m			5m		6m		8m		10m		12m															
		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875				
Single floodlight	96227635			•		•		•					•		•		•		•		•	•	•	•	•	•	•	
	96227849								•	•																		
	96227853										•	•																
Twin floodlights	96014734			•		•		•					•		•		•		•		•	•	•	•	•	•	•	•
	96227850									•	•																	
	96227854										•	•																
3 way floodlights	96227848			•		•		•					•		•		•		•		•	•	•	•	•	•	•	•
	96227851									•	•																	
	96227855										•	•																
4 way floodlights	96014663			•		•		•					•		•		•		•		•	•	•	•	•	•	•	•
	96227852									•	•																	
	96227856										•	•																

Areaflood 1&2 Post Top Ø76mm

Bracket		Column - QCZR					Column - QCTC																				
Style	SAP code	4m			5m		6m		8m		10m		12m														
		96228006	96228046	96227674	96227657	96227661	96227651	96227652	96227654	96503704	96227658	96227869	96227755	96227660	96228137	96227650	96228172	96227655	96228029	96227871	96227872	96227874	96227873	96227875			
Post Top - direct to column	n/a			•		•		•					•		•		•		•		•	•	•	•	•	•	•
Ø60mm Post Top Adaptor	96256062 ANT			•		•		•					•		•		•		•		•	•	•	•	•	•	•
Ø76mm Post Top Adaptor	96256060 ANT			•		•		•		•	•	•	•		•		•		•		•	•	•	•	•	•	•

• * Additional Ø 76mm Adaptor req 96227644 • ** Additional Ø 76mm Adaptor req 96227868

Sports floodlighting used with QTCH Columns and brackets

Altis/Champion/Mundial Stirrup mounting

Bracket		Column - QTCH																										
Style	SAP code	8m		10m		16m																						
		96227025	96227026	96227027	96227028	96227029	96227030	96227031	96227032																			
Single floodlight	96227033	•		•		•		•		•		•		•		•		•		•	•	•	•	•	•	•	•	
Twin floodlights	96227034		•		•		•		•		•		•		•		•		•		•	•	•	•	•	•	•	•
3 way floodlights	96227035																											
4 way floodlights	96227036																											

Aluminium columns

Suitability tables

Gamma/Legend Post Top Post Top Ø76mm

Luminaire Mount	SAP Code	Catalogue No.	Height (m)	Luminaire Maximum Weight (kg)	Shaft diameter (mm)	Luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²			
						Light 396	Medium 429	Heavy 466	X Heavy 576
Post top - direct to column	96227885	QCA3C4M	4m	17.0	76	1.01	0.91	0.82	0.62
	96503703	QCA2C4M76	4m	17.0	76	1.04	0.94	0.84	0.64
	96227886	QCA3C5M	5m	17.0	76	0.56	0.50	0.44	0.31
	96227896	QCA2C5M76	5m	17.0	76	0.65	0.58	0.51	0.37
	96227888	QCA3C6M	6m	17.0	76	0.38	0.33	0.28	0.19
	96227898	QCA2C6M76	6m	17.0	76	0.44	0.38	0.33	0.22
	96227847	QCA1C3M76	3m	17.0	76	0.97	0.87	0.77	0.57
	96227923	QCA1C4M76	4m	17.0	76	0.51	0.44	0.39	0.26
	96227925	QCA1C5M76	5m	17.0	76	0.56	0.50	0.44	0.31

Note: 1. A standard signage of 0.3m², 5kg and 2,500mm above ground level has been taken into account in the calculations.

Avenue Post Top Ø60mm

Luminaire Mount	SAP Code	Catalogue No.	Height (m)	Luminaire Maximum Weight (kg)	Shaft diameter (mm)	Luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²			
						Light 396	Medium 429	Heavy 466	X Heavy 576
Post top - direct to column	96235757	QCA2C3M60	3m	34.2	60	0.73	0.65	0.57	00.41

Notes:

- A standard signage of 0.3m², 5kg and 2,500mm above ground level has been taken into account in the calculations.
- All aluminium columns are designed to the European Standard BS EN40 which meets the requirements in the UK. Column capacities are provided in relation to Rationalised Wind Loading Regions and Factors. These are defined in the EN40-3-3 Design and Verification by Calculations by the British Standards Institute (BSI) and the PD6547: 2004 National Application Document. From EN40, default values of Terrain Category have been used, columns under 8m use Terrain Category III and columns 8m and above use Terrain Category II with a maximum site altitude of 250m from sea level.
- Advice will be required if the location of the installation is:
 - Closer than 5km from the coast
 - Situated at an altitude greater than 250m from sea level
 - Subject to significant wind funnelling
 - Within the Shetland, Western Isles of Orkney administrative area.
- All calculations have been completed assuming a design life of 50 years as opposed to the industry standard of 25 years.

Celest/Civic/Oracle Post Top Ø60/76mm

Luminaire Mount	SAP Code	Catalogue No.	Height (m)	Luminaire Maximum Weight (kg)	Shaft diameter (mm)	Luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²			
						Light 396	Medium 429	Heavy 466	X Heavy 576
Post top - direct to column	96227885	QCA3C4M	4m	14.9	76	0.51	0.46	0.41	0.31
	96503703	QCA2C4M76	4m	14.9	76	0.44	0.40	0.36	0.27
	96227886	QCA3C5M	5m	14.9	76	0.37	0.33	0.29	0.21
	96227896	QCA2C5M76	5m	14.9	76	0.32	0.29	0.25	0.18
	96227888	QCA3C6M	6m	14.9	76	0.27	0.23	0.20	0.13
	96227898	QCA2C6M76	6m	14.9	76	0.24	0.21	0.18	0.12
	96227847	QCA1C3M76	3m	14.9	76	0.73	0.66	0.59	0.45
	96227923	QCA1C4M76	4m	14.9	76	0.44	0.39	0.34	0.23
	96227925	QCA1C5M76	5m	14.9	76	0.37	0.33	0.29	0.21

Notes:

- A standard signage of 0.3m², 5kg and 2,500mm above ground level has been taken into account in the calculations. Columns or rows with values in bracket, () denotes the maximum wind area, m² allowed with the standard signage removed.
- All aluminium columns are designed to the European Standard BS EN40 which meets the requirements in the UK. Column capacities are provided in relation to Rationalised Wind Loading Regions and Factors. These are defined in the EN40-3-3 Design and Verification by Calculations by the British Standards Institute (BSI) and the PD6547: 2004 National Application Document. From EN40, default values of Terrain Category have been used, columns under 8m use Terrain Category III and columns 8m and above use Terrain Category II with a maximum site altitude of 250m from sea level.
- Advice will be required if the location of the installation is:
 - Closer than 5km from the coast
 - Situated at an altitude greater than 250m from sea level
 - Subject to significant wind funnelling
 - Within the Shetland, Western Isles of Orkney administrative area.
- All calculations have been completed assuming a design life of 50 years as opposed to the industry standard of 25 years.

Steel columns

Suitability tables

Maximum Wind Area and Weights for QC-TC Steel Columns

SAP Code	Height (m)	Shaft dia. (mm)	Per luminaire Maximum Weight (kg)	Per luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²				Per luminaire Maximum Weight (kg)	Per luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²			
				Light 396	Medium 429	Heavy 466	X Heavy 576		Light 396	Medium 429	Heavy 466	X Heavy 576
				Post top or floodlight bracket mounting				Post top or floodlight bracket mounting				
96227660	4	140	40	1.32	1.22	1.10	0.86	57	1.30	1.19	1.08	0.85
96227650	5	140	40	1.04	0.95	0.85	0.66	57	1.01	0.90	0.82	0.63
96227655	6	140	40	0.65	0.58	0.51	0.37	57	0.62	0.55	0.49	0.35
96227871	8	168	40	0.91	0.82	0.74	0.56	57	0.86	0.77	0.70	0.53
96227872	10	168	40	0.44	0.38	0.33	0.23	57	0.40	0.35	0.30	0.21
96227874	10	194	40	1.14	1.03	0.93	0.72	57	1.08	0.99	0.88	0.68
96227873	12	168	40	0.25	0.20	0.16	0.08	57	0.22	0.18	0.14	0.07
96227875	12	194	40	0.66	0.58	0.52	0.38	57	0.62	0.55	0.48	0.35
				0.5m Single Arm mounting				Post top or floodlight bracket mounting				
96227660	4	140	20	0.47	0.43	0.40	0.32	76	1.26	1.15	1.05	0.83
96227650	5	140	20	0.43	0.40	0.36	0.29	76	0.98	0.88	0.80	0.61
96227655	6	140	20	0.48	0.42	0.38	0.28	76	0.60	0.53	0.47	0.33
96227871	8	168	20	0.29	0.27	0.25	0.27	76	0.82	0.75	0.67	0.50
96227872	10	168	20	0.26	0.24	0.22	0.15	76	0.38	0.33	0.28	0.18
96227874	10	194	20	0.27	0.25	0.23	0.18	76	1.05	0.95	0.85	0.65
96227873	12	168	20	0.18	0.14	0.11	-	76	0.20	0.15	0.12	-
96227875	12	194	20	0.25	0.23	0.21	0.17	76	0.59	0.52	0.46	0.33
				0.5m Double Arms mounting				Post top or floodlight bracket mounting				
96227660	4	140	20	0.70	0.64	0.58	0.45	92	1.25	1.13	1.02	0.80
96227650	5	140	20	0.55	0.49	0.44	0.34	92	0.96	0.86	0.78	0.59
96227655	6	140	20	0.40	0.36	0.32	0.23	92	0.58	0.51	0.45	0.31
96227871	8	168	20	0.45	0.40	0.36	0.27	92	0.80	0.72	0.65	0.48
96227872	10	168	20	0.21	0.18	0.15	0.10	92	0.36	0.31	0.26	0.17
96227874	10	194	20	0.50	0.46	0.43	0.34	92	1.00	0.92	0.82	0.63
96227873	12	168	20	0.11	0.09	0.07	-	92	0.18	0.14	0.10	-
96227875	12	194	20	0.32	0.28	0.25	0.18	92	0.56	0.50	0.44	0.31

Maximum Wind Area and Weights for QCZR Columns

Luminaire Mount	SAP Code	Height (m)	Per luminaire Maximum Weight (kg)	Shaft dia. (mm)	Per luminaire Maximum Wind Area m ² for Rationalised Wind Loading Factor, Rwf N/m ²			
					Light 396	Medium 429	Heavy 466	X Heavy 576
POST TOP	96228006	4	20	60	0.55	0.50	0.46	0.35
POST TOP	96227657	5	20	60	0.33	0.30	0.26	0.18
POST TOP OR FLOODLIGHT BRACKET	96227674	4	40	76	0.78	0.71	0.64	0.50
POST TOP OR FLOODLIGHT BRACKET	96227661/96227651	5	40	76	0.55	0.50	0.45	0.33
POST TOP OR FLOODLIGHT BRACKET	96227652/96227654	6	40	76	0.34	0.30	0.26	0.17
POST TOP OR FLOODLIGHT BRACKET	96227658	8	40	90	0.40	0.34	0.30	0.20
POST TOP OR FLOODLIGHT BRACKET	96227869	8 HEAVY DUTY	40	114	0.74	0.66	0.59	0.45
POST TOP OR FLOODLIGHT BRACKET	96227755	10	40	114	0.42	0.37	0.32	0.23
0.5M SINGLE ARM	96227674	4	20	76	0.68	0.61	0.55	0.43
0.5M SINGLE ARM	96227661/96227651	5	20	76	0.39	0.36	0.33	0.25
0.5M SINGLE ARM	96227652/96227654	6	20	76	0.28	0.24	0.21	0.13
0.5M SINGLE ARM	96227658	8	20	90	0.38	0.33	0.28	0.19
0.5M SINGLE ARM	96227869	8 HEAVY DUTY	20	114	0.55	0.50	0.44	0.33
0.5M SINGLE ARM	96227755	10	20	114	0.41	0.36	0.31	0.22
0.5M DOUBLE ARM	96227674	4	20	76	0.39	0.36	0.32	0.24
0.5M DOUBLE ARM	96227661/96227651	5	20	76	0.27	0.24	0.21	0.15
0.5M DOUBLE ARM	96227652/96227654	6	20	76	0.16	0.14	0.11	0.07
0.5M DOUBLE ARM	96227658	8	20	90	0.20	0.17	0.15	0.09
0.5M DOUBLE ARM	96227869	8 HEAVY DUTY	20	114	0.39	0.35	0.31	0.23
0.5M DOUBLE ARM	96227755	10	20	114	0.21	0.19	0.16	0.11

Example: A 6m column with a 76mm dia shaft in a 'light' area can accommodate a 40kg luminaire which has a windage area of 0.34m².

CONTROLS AND EMERGENCY LIGHTING



Indoor Lighting Controls



SensoLite
504



Connect
512



NEW

Sensa 2
518



NEW

Sensa 3
520

SensaLite

Product details and Ordering guides



SENSA SDP **96241223**

- Manual dimming/switching
- 20 DALI/DSI ballasts
- 4 scenes + off
- Wall mounted (manually programmable)

Sensa SDP dimmer to control the light level of all luminaires connected to its DALI/DSI output.

Digitally enabled luminaires (incorporating up to 20 DALI/DSI ballasts in total) can be controlled by the simple scene setting plate.

The product has the following controls:

Scene buttons:

Four buttons that offer 4 lighting levels. The default levels are:

- 1 - 100% brightness
- 2 - 75% brightness
- 3 - 50% brightness
- 4 - 25% brightness

These levels can easily be changed.

1 Gang plate, white.

To be mounted into UK standard back box (not supplied) for sinking in (min. box depth 35mm) or dry-line plaster board walls. Input voltage 230V, 50Hz, 1 DALI/DSI output, terminals 2x 2.5mm².

Degree of protection IP20, permitted ambient temperature 0...+30°C.



SWITCHLITE MRE SLD **96218677**

- Passive infra red detection
- Presence
- Switching (8A)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Manual adjustment

Presence Detector providing energy saving (on/off switching) in response to room occupancy and daylight levels, controlling standard luminaires containing wound gear or high frequency ballasts. Suitable for indoor use only.

To switch from more than one position two or more units are wired in parallel. Covers up to 7 metres diameter at a 2.8m mounting height. Minimum ambient light level and time delay before switching luminaires off (10s to 30min) adjustable.

Fits into 64mm diameter hole in suspended ceilings. Supply voltage 230...240V, 50Hz. Switching capacity 8A resistive, 6A capacitive or inductive, 8 HF electronic ballasts, or 3A with compact fluorescent lamps.



SWITCHLITE MRE SLD MAN **96239823**

- Passive infra red detection
- Presence or absence
- Switching (10A)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Manual or programmable adjustment
- IP55 version also available (96239821)

The SwitchLite MRE SLD MAN detector provides automatic control of lighting loads with optional manual control. It can be used on incandescent, fluorescent and compact fluorescent lighting, and has the added benefit of being able to connect an external switch. Absence detection. To switch from more than one position two or more units are wired in parallel. Covers up to 7 metres diameter at a 2.8m mounting height. Minimum ambient light level and time delay before switching luminaires off (10s to 30min) adjustable.

Fits into 64mm diameter hole in suspended ceilings. Supply voltage 230...240V, 50Hz. Switching capacity 10A.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507



SENSALITE SLOCS **96239752**

- Switching
- IP40

SENSALITE SLOCS P **96239753**

- Switching with photocell
- IP40

SENSALITE SLOCS X **96239756**

- Switching
- IP65

SENSALITE SLOCS P X **96239757**

- Switching with photocell
- IP65

SENSALITE SLOCRPDSI **96239754**

- DSI dimming
- IP40

SENSALITE SLOCRPDSI X **96239758**

- DSI dimming
- IP65

SENSALITE SLOCRPDLI **96239755**

- DALI dimming
- IP40

SENSALITE SLOCRPDLIX **96239759**

- DALI dimming
- IP65

A comprehensive range of passive infrared presence detectors designed to be fitted to a batten-style luminaire or similar luminaire equipped with M20 knockouts. Basic switching, switching with photocell and also DALI/DSI dimmable versions are available in either IP40 or IP65.



**SWITCHLITE MRE SLDM MR
96239822**

- Microwave detection
- Presence or absence
- Switching (10A)
- 16m coverage at 2.8m mounting height
- 3.5m max mounting height
- Ceiling mounted
- Manual or programmable adjustment

The Switchlite MRE SLDM MR is a mid-range microwave presence/absence detector for the automatic control of lighting. This detector has a low profile design which allows flush mounting into a ceiling tile, or surface mounting using a detector back box. Its reduced head size makes it unobtrusive to occupants.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507



**SWITCHLITE MRE SLDM ADJ
96239855**

- Microwave detection
- Presence or absence
- Switching (10A)
- Adjustable coverage up to 30m at 2.8m mounting height
- 3.5m max mounting height
- Ceiling or wall mounted (see kits)
- Manual or programmable adjustment

Unlike fixed head microwave detectors the Switchlite MRE SLDM ADJ offers a unique presence/absence detection capability by using an adjustable head.

This incorporates an innovative locking mechanism to prevent tampering. By changing the angle of the head, different detection patterns can be achieved to suit the application. An integral sensitivity adjustment allows the detector to be fine tuned to its environment. The detector is self contained and can be flush or surface mounted using a separate detector back box.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507



**SWITCHLITE SLDM
96019208**

- Microwave detection
- Presence
- Switching (10A)
- 30m coverage at 1.5m mounting height
- Wall mounted
- Manual adjustment

Sensor detecting movement using a highly sensitive microwave detector, optimised for wall mounting applications to give detection over long distances (up to 30m, diameter 6m), with integral sensitivity adjustment (1...30m).

Adjustable time out period (15s...30min). No external lenses. To switch from more than one position two or more units are wired in parallel. Recommended mounting height 1.2...1.5m. Microwave radiation lower than 6% of the ANSI IEEE C95.1-1991 recommendation. On maximum sensitivity this unit is extremely sensitive to movement and may detect through thin walls or partitions (e.g. glass). Flush mounted into UK standard steel back box (depth 25mm) or cavity wall box (depth 32mm), or surface mounted into plastic surface mount box (depth 25mm). Supply voltage 230...249V, 50Hz.

Switching capacity 10A resistive, 8A resistive or inductive, 5A capacitive or inductive, 8 HF electronic ballasts, or 3A with compact fluorescent lamps.



**SWITCHLITE MRE SLDD PC
96239828**

- Active photocell
- Switching (10A)
- 3m max mounting height
- Ceiling mounted
- Manual adjustment

The Switchlite MRE SLDD PC photocell will turn lighting on when the ambient light falls below a preset level. The lighting will then be turned off when the total light level rises above a separate preset level. An integral, adjustable time delay prevents nuisance switching (e.g. dark clouds). The Switchlite MRE SLDD PC can be mounted flush or surface on a ceiling.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507

SensaLite

Product details and Ordering guides



SWITCHLITE MRE SLD2 96013492

- Passive infra red detection
- Dual circuit
- Presence
- Switching (6A on each circuit)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Programmable adjustment

Dual circuit passive infra-red (PIR) detector with built in photocell gives ON/OFF switching in response to occupancy. Programmable using hand held remote infra-red programming tool SENSA SENP 96004189, on page 495.

Ideal for toilet applications with separately switched circuits for lighting and ventilation fans. The contacts for ventilation fan connection are volt-free and are influenced by presence only.

Both circuits operate at the same time, keeping lights and fan switched on for a period of time after the room has been vacated, providing adequate (additional) ventilation.



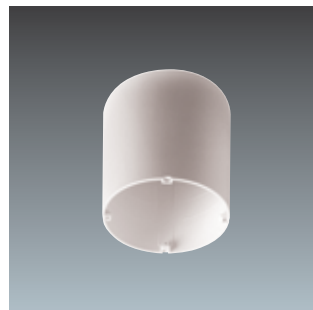
SWITCHLITE MSF SLD2 96013493

- Passive infra red detection
- Dual circuit
- Presence
- Switching (6A on each circuit)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Programmable adjustment

Dual circuit passive infra-red (PIR) detector with built in photocell gives ON/OFF switching in response to occupancy. Programmable using hand held remote infra-red programming tool SENSA SENP 96004189, on page 495.

Ideal for toilet applications with separately switched circuits for lighting and ventilation fans. The contacts for ventilation fan connection are volt-free and are influenced by presence only.

Both circuits operate at the same time, keeping lights and fan switched on for a period of time after the room has been vacated, providing adequate (additional) ventilation.



SWITCHLITE KIT MSF 96218678

To be used for surface mounting applications. Fixing centres either 50 or 60mm. Sensor head pushed into kit and secured with screw. Dimensions 76mm diameter, height 65mm.

To be used to surface mount

- SwitchLite MRE SLD (96218677)
- SwitchLite MRE SLD MAN (96239823)
- SwitchLite MRE SLD IP55 (96239821)
- SwitchLite MRE SLDM MR (96239822)
- Sensa MRE DDM MR (96239831)
- Connect MRE DUC PIR (96239816)
- Connect MRE DUC MW (96239818)



SWITCHLITE KIT MSF SLDM ADJ 96239826

Surface mounting kit for:

- SwitchLite MRE SLDM ADJ (96239855)
- Sensa MRE DDM ADJ (96239889)
- Connect MRE DUC MWADJ (96239817)

Fixing centre either 50 or 60mm. Sensor head pushed into kit and secured with screw.



**SWITCHLITE KIT WALL SLDM ADJ
96239827**

Wall mounting kit for:

- SwitchLite MRE SLDM ADJ (96239855)
- Sensa MRE DDM ADJ (96239889)
- Connect MRE DUC MWADJ (96239817)



**SWITCHLITE CC PROGRAMMER
96240295**

The SwitchLite CC programmer is a compact infrared handset used for the basic programming of IR enabled SensaLite products. You must point the handset directly at the device that you want to control or program.

When programming a device it is only necessary to point the handset when 'sending' a new setting. The shift key is used to access the parameters in red and blue text. The Send LED flashes once to signify that a setting has been sent.



**SWITCHLITE IR LCD PROGRAMMER
96241421**

IR programming handset for conventional height ceilings which enables programming and control of all dimming functionality including:

Switching and dimming channel control, detection sensitivity, lux hold-off and time delay, step-down illuminance, scene settings, and lamp burn-in settings.

IR transmitter LEDs: Sends IR code to a device.

IR receiver: Receives IR code from a device for reading back parameters or determining the type of device that is being programmed.

LCD screen: Backlit LCD screen with 4 lines of 20 characters. 5 levels of illumination.

Keypad: Robust tactile keypad with a positive click. Ergonomically designed to be used with one hand. Alphanumeric keys for entering parameter levels and naming macros.

USB port: Connection port for a USB flash drive / memory stick.

SensaLite

Product details and Ordering guides



SWITCHLITE MRE HI-BAY 96239720

- Passive infra red detection
- Presence
- Switching (6A)
- Coverage on 1:1 ratio (i.e. 9m mounting height = 9m coverage)
- 16m max mounting height
- Ceiling mounted
- Programmable adjustment

The Switchlite MRE Hi-Bay offers energy-saving PIR presence detection at heights of up to 16m making it ideal for warehouse racking aisles and other high-level applications. Coverage is on a 1:1 ratio, i.e. at 9m height, the detector's footprint is a 9m diameter circle. Switchlite MRE Hi-Bay features a range of programmable parameters so that operation can be tailored to your own particular requirements. Programming is carried out with an infrared programmer from ground level: a particularly welcome capability, considering the heights involved, should changes be required at any time. For programming use SENSALINK SENLP 96102983.

SWITCHLITE MSF HI-BAY 96239723

Hi-Bay Sensor with digital passive/active photocell - surface version.



SENSA MRE HI-BAY DSI 96239721

- Passive infra red detection
- Presence or absence
- DSI dimming (25 ballasts)
- Coverage on 1:1 ratio (i.e. 9m mounting height = 9m coverage)
- 16m max mounting height
- Ceiling mounted
- Programmable adjustment

The SenSa MRE Hi-Bay DSI sensor offers energy-saving PIR presence detection at heights of up to 16m making it ideal for warehouse racking aisles and other high-level applications. Coverage is on a 1:1 ratio, i.e. at 9m height, the detector's footprint is a 9m diameter circle. SenSa MRE Hi-Bay DSI features a range of programmable parameters so that operation can be tailored to your own particular requirements. Programming is carried out with an infrared programmer from ground level: a particularly welcome capability, considering the heights involved, should changes be required at any time. For programming use SENSALINK SENLP 96102983.

SENSA MSF HI-BAY DSI 96239724

Hi-Bay Sensor for DSI ballasts - surface version.



SENSA MRE HI-BAY DALI 96239722

- Passive infra red detection
- Presence or absence
- DALI dimming (25 ballasts)
- Coverage on 1:1 ratio (i.e. 9m mounting height = 9m coverage)
- 16m max mounting height
- Ceiling mounted
- Programmable adjustment

The SenSa MRE Hi-Bay DALI sensor offers energy-saving PIR presence detection at heights of up to 16m making it ideal for warehouse racking aisles and other high-level applications. Coverage is on a 1:1 ratio, i.e. at 9m height, the detector's footprint is a 9m diameter circle. SenSa MRE Hi-Bay DALI features a range of programmable parameters so that operation can be tailored to your own particular requirements. Programming is carried out with an infrared programmer from ground level: a particularly welcome capability, considering the heights involved, should changes be required at any time. For programming use SENSALINK SENLP 96102983.

SENSA MSF HI-BAY DALI 96239725

Hi-Bay Sensor for DALI ballasts - surface version.



SWITCHLITE MSF HI-BAY MW HP60 96239854

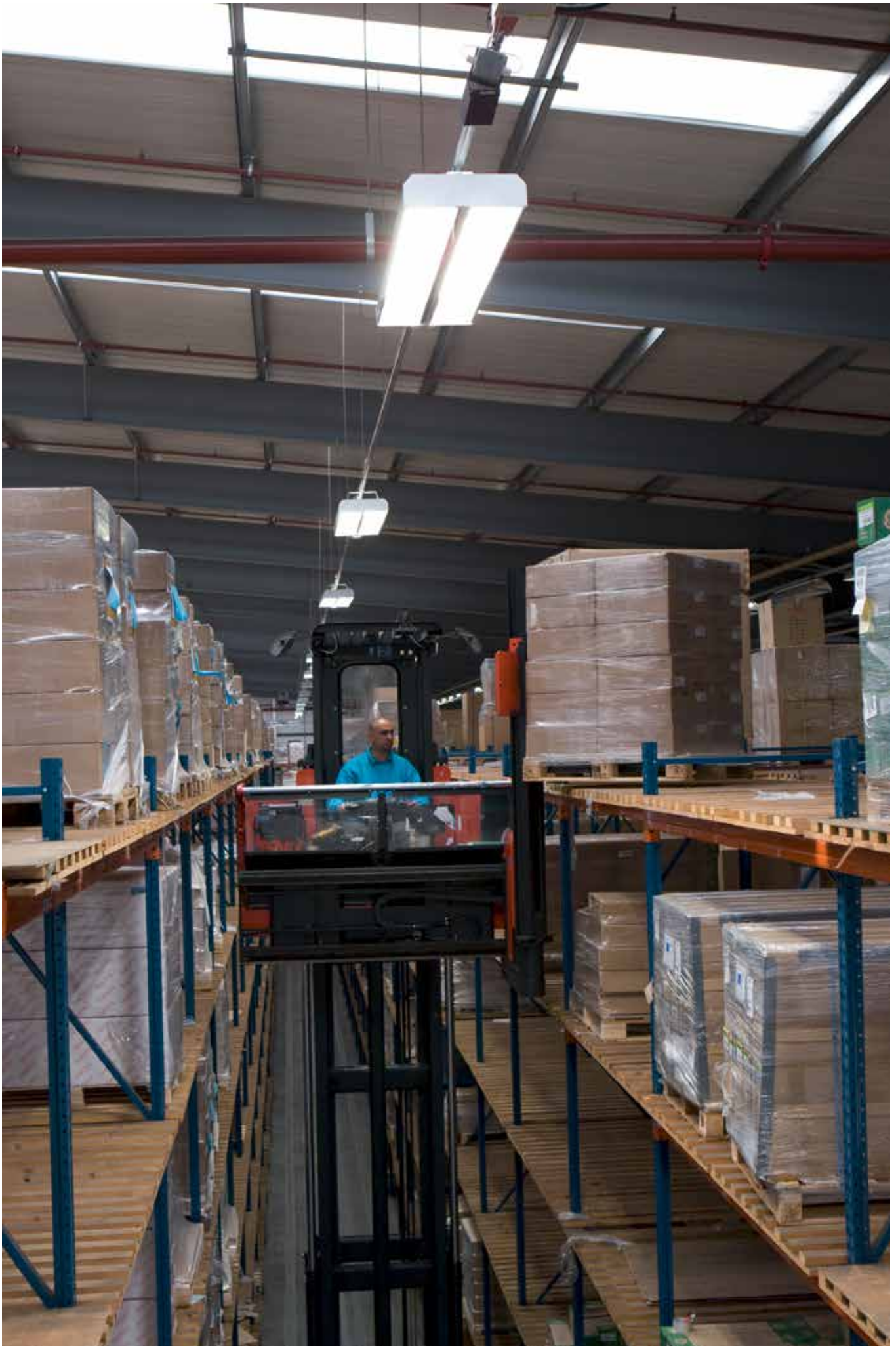
- Microwave detection
- Presence
- Switching (10A)
- 60m x 60m coverage at 4m mounting height
- 6m max mounting height
- Ceiling mounted
- Manual adjustment

This high performance 60m range Microwave sensor is for use in almost any internal space. It was conceived to bring effective energy-saving control to large areas such as warehouses, sports halls, workshops, hangars, classrooms etc. Do not mount above 6m without seeking technical advice. The system offers many outstanding features and user options, making it the natural choice for large and prestigious situations. Requires 96239719 control unit. (see below)



SWITCHLITE HI-BAY MW CNTRL 96239719

230-volt control unit with single volt-free output relay, rated to switch any type of load up to 10 amps.



SensaLite

Product details and Ordering guides



SENSA MRE SEND DSI 96211279

- Passive infra red detection
- Presence or absence
- DSI/DALI dimming (8 ballasts)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Programmable adjustment

Recessed PIR detector and photocell, responds to presence/absence and to light by dimming or switching off, can control luminaires incorporating up to 8 DSI ballasts. Supplied with a 2m flying lead. Can be used in conjunction with an On/Off switch. Additional input for momentary action switch for manual override (dim/brighten, switch On/Off). Suitable for flush fitting to a suspended ceiling (max. height 3m, max. thickness 54mm, hole diameter 50mm, ceiling void 125mm). For mounting in plasterboard ceiling use PIR PB MRE kit (96239716). Detection zone diameter 7m at 2.8m ceiling height. Sensor line 2-wire digital polarity-free, max. length 12m. Photocell: adjusted when commissioned. Degree of protection IP40. Dimensions Ø 65mm, height 115mm. For remote control use SENSE SENRC 96004175, on page 495. Programmable using hand held remote infra-red programming tool SENSE SENP 96004189, on page 511.



SENSA MSF SEND DSI 96013491

- Passive infra red detection
- Presence or absence
- DSI/DALI dimming (8 ballasts)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Ceiling mounted
- Programmable adjustment

Surface PIR detector and photocell, responds to presence/absence and to light by dimming or switching off, can control luminaires incorporating up to 8 DSI ballasts. Can be used in conjunction with an On/Off switch. The housing may be secured to a hard surface or a UK standard BESA box. The unit fits into the housing with a simple bayonet action. Detection zone diameter 7m at 2.8m ceiling height. Sensor line 2-wire digital polarity-free, max. length 12m. Photocell: adjusted when commissioned. Degree of protection IP43. Dimensions Ø 100mm, height 72mm. For remote control use SENSE SENRC 96004175, on page 495. Programmable using hand held remote infra-red programming tool SENSE SENP 96004189, on page 511.



SENSA MRE DDM ADJ 96239889

- Microwave detection
- Presence or absence
- Dual channel
- Switching (10A)
- DSI/DALI dimming (10 ballasts)
- Adjustable coverage up to 30m at 2.8m mounting height
- 3.5m max mounting height
- Ceiling mounted
- Programmable adjustment

The SENSE MRE DDM ADJ microwave presence detector provides automatic control of lighting loads with optional manual control. It can be used on incandescent, fluorescent and compact fluorescent lighting and DSI/DALI digital dimming ballasts over 1 or 2 channels. It detects movement using a highly sensitive microwave detector. The unique adjustable sensor head allows the area of detection to be optimised for the application.

The dimming channel of the detector can be used to control the light output of luminaires that are fitted with dimming ballasts. The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a preset lux level (maintained illuminance).

The switching channel of the detector can either be used to isolate the supply to the dimming ballasts (saving on the standby current of the ballasts) or to switch a separate channel of standard, non-dimming luminaires.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507



SENSA MRE DDM MR 96239831

- Microwave detection
- Presence or absence
- Dual channel
- Switching (10A)
- DSI/DALI dimming (10 ballasts)
- 16m coverage at 2.8m mounting height
- 3.5m max mounting height
- Ceiling mounted
- Programmable adjustment

The SENSE MRE DDM MR microwave presence detector provides automatic control of lighting loads with optional manual control. It can be used on incandescent, fluorescent and compact fluorescent lighting and DSI/DALI digital dimming ballasts over 1 or 2 channels. When an area is no longer occupied the load will switch off after an adjustable time out period.

The dimming channel of the detector can be used to control the light output of luminaires that are fitted with dimming ballasts. The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a preset lux level (maintained illuminance).

The switching channel of the detector can either be used to isolate the supply to the dimming ballasts (saving on the standby current of the ballasts) or to switch a separate channel of standard, non-dimming luminaires.

For detailed programming see also SWITCHLITE IR LCD PROGRAMMER 96241421 on page 507



SENSA MSF MWD 96239717

- Microwave detection
- Presence or absence
- Dual channel
- Switching (10A)
- DSI/DALI dimming (25 ballasts)
- 20m coverage at 2.8m mounting height
- 3.5m max mounting height
- Ceiling mounted
- Programmable adjustment

The Sensa MSF MWD is a high performance, Microwave directional presence detector with built-in photocell for use in almost any internal space. It is ideal for larger classrooms, conference rooms, longer storage aisles etc. It is a self-contained unit, making installation simple and straight forward. For programming use SENSALINK SENLP 96102983.



Luminaires with built-in MiniSensaDigital head

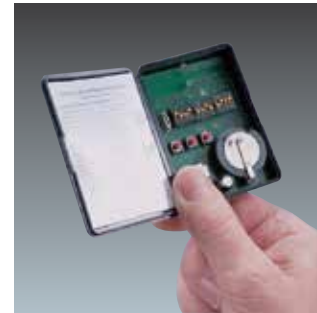
- Passive infra red detection
- Presence or absence
- DSI/DALI dimming (4 ballasts)
- 7m coverage at 2.8m mounting height
- 3m max mounting height
- Luminaire mounted
- Programmable adjustment

To see which standard Thorn luminaires are SensaDigital ones, look for "HFS" in the descriptions of the relevant luminaire Ordering Guides.



SENSA SENRC 96004175

Hand held Infra-red controller provides the user with local override facility, allows to select preferred light levels for particular tasks, and to switch the light on and off. Two button controller with On/raise and Off/lower function, key assignment: – Short press to turn off, long press to dim, + Short press to turn on, long press to brighten. Supply voltage 1.8-3.6V (2 type AAA batteries), range 2.5m. Dimensions 120 x 56 x 22 mm. Weight 24g.



SENSA SENP 96004189

Infra-red programming tool, used to set up SensaDigital heads. Programming is done remotely and therefore can be operated from the ground. Light Level, time delay to switch off, start-up level, fading, operation mode (auto or semi-auto) etc. can be set. 12 'dip' switches select the required options. The large white button is pressed to programme the head to the new requirements. Three red buttons set the light level up, down and store. A green LED indicates transmission (when depressing 'store' or 'press to programme'). Power supply 2 LiMn 3V batteries type CR2032 (included). Dimensions 78 x 56 x 19 mm. Weight 50g.

Ordering Guide For specification details, please refer to our website and technical data sheets.

Description	SAP Code
Sensa SDP Digital Dimmer	
SENSA SDP	96241223
SwitchLite Presence Detectors	
SWITCHLITE MRE SLD	96218677
SWITCHLITE MRE SLD MAN	96239823
SWITCHLITE MRE SLD IP55	96239821
SWITCHLITE MRE SLD2	96013492
SWITCHLITE MSF SLD2	96013493
SwitchLite Retro-fit Presence Detectors	
SENSALITE SLOC S	96239752
SENSALITE SLOC SP	96239753
SENSALITE SLOC RP DSI	96239754
SENSALITE SLOC RP DLI	96239755
SENSALITE SLOC SX	96239756
SENSALITE SLOC SPX	96239757
SENSALITE SLOC RP DSI X	96239758
SENSALITE SLOC RP DLI X	96239759
SwitchLite Microwave Presence Detectors	
SWITCHLITE MRE SLDM MR	96239822
SWITCHLITE MRE SLDM ADJ	96239855
SWITCHLITE SLDM	96019208
SwitchLite Photocell	
SWITCHLITE MRE SLDD PC	96239828

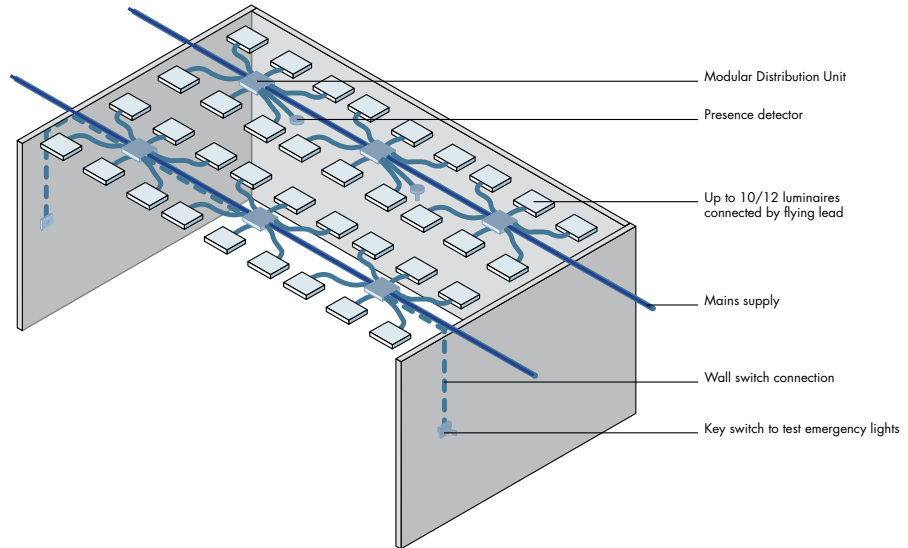
Description	SAP Code
SwitchLite & SensaDigital Hi-Bay Detectors	
SWITCHLITE MRE HI-BAY	96239720
SWITCHLITE MSF HI-BAY	96239723
SWITCHLITE MSF HI-BAY MW HP60*	96239854
SWITCHLITE HI-BAY MW CNTRL*	96239719
SENSA MRE HI-BAY DSI	96239721
SENSA MSF HI-BAY DSI	96239724
SENSA MRE HI-BAY DALI	96239722
SENSA MSF HI-BAY DALI	96239725
SensaDigital Remote Heads	
SENSA MRE SEND DSI	96211279
SENSA MSF SEND DSI	96013491
SENSA MRE DDM ADJ	96239889
SENSA MRE DDM MR	96239831
SENSA MSF MWD	96239717
Mounting Kits	
SWITCHLITE KIT MSF	96218678
SWITCHLITE KIT MSF SLDM ADJ	96239826
SWITCHLITE KIT WALL SLDM ADJ	96239827
SensaDigital Hand Held Controller	
SENSA SENRC	96004175
Programming Tools	
SENSA SENP	96004189
SWITCHLITE IR LCD PROGRAMMER	96241421
SWITCHLITE CC PROGRAMMER	96240295

MAN - Manual switch connection, MR - Mid range, ADJ - Adjustable, PC - Photocell, DSI - High frequency digital dimmable, DALI - High frequency digital addressable, MWD - Microwave directional, DDM - Dual detector microwave, MRE - Recessed, MSF - Surface, X - IP65
* To be ordered together

Connect Distribution Units

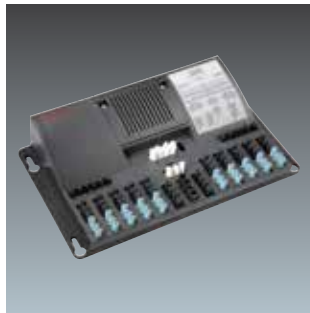
A simple wiring aid to help reduce the cost of installing a lighting system

Typical marshalling box installation showing all the features available.



Distribution Unit DUS10

Simple junction box to connect mains feed to all 10 luminaires in two groups of 5, or one group of up to 10 luminaires (depending on switching capacity of PIR if used), via slim, latched, GST18 connection leads.



Distribution Unit DUA10 B

Simple junction box to connect mains feed to all 10 luminaires in two groups of 5, or one group of up to 10 luminaires (depending on switching capacity of PIR or dimming capacity of SensaDigital/SensaLink head if used), via slim, latched, GST18 connection leads. Ideally suited for SensaDigital and SensaLink digital luminaires, SwitchDim and other digital dimming systems.



Distribution Unit DUC10

The DUC10 controls up to 10 luminaires. The unit is a 3 channel device, channel A has 4 luminaire outputs, channel B has 2 luminaire outputs and channel C has 4 luminaire outputs. There are corresponding inputs on each channel for presence detectors (RJ45) and SELV switch inputs via pluggable connectors. Additional pluggable connections allow the testing of emergency fittings and connections for corridor hold. The DUC10 can be configured to work in various combinations.



Distribution Unit DUP125

The DUP125 is an intelligent connection box providing connections for up to twelve luminaires, up to five detectors and up to five switch inputs. The unit is a 6 channel device, channel 1 and 2 have 3 luminaire outputs. Channel 3 and 4 have single luminaire outputs. Channel 5 and 6 have 2 luminaire outputs. The unit is designed to simplify installation whilst providing an intelligent managed lighting system, including provision for emergency lighting. The DUP125 can be programmed to work in various combinations.



Up to 10 luminaires connected via leads with 6 pole connectors.

Ordering Guide For specification details, please refer to our website and technical data sheets.

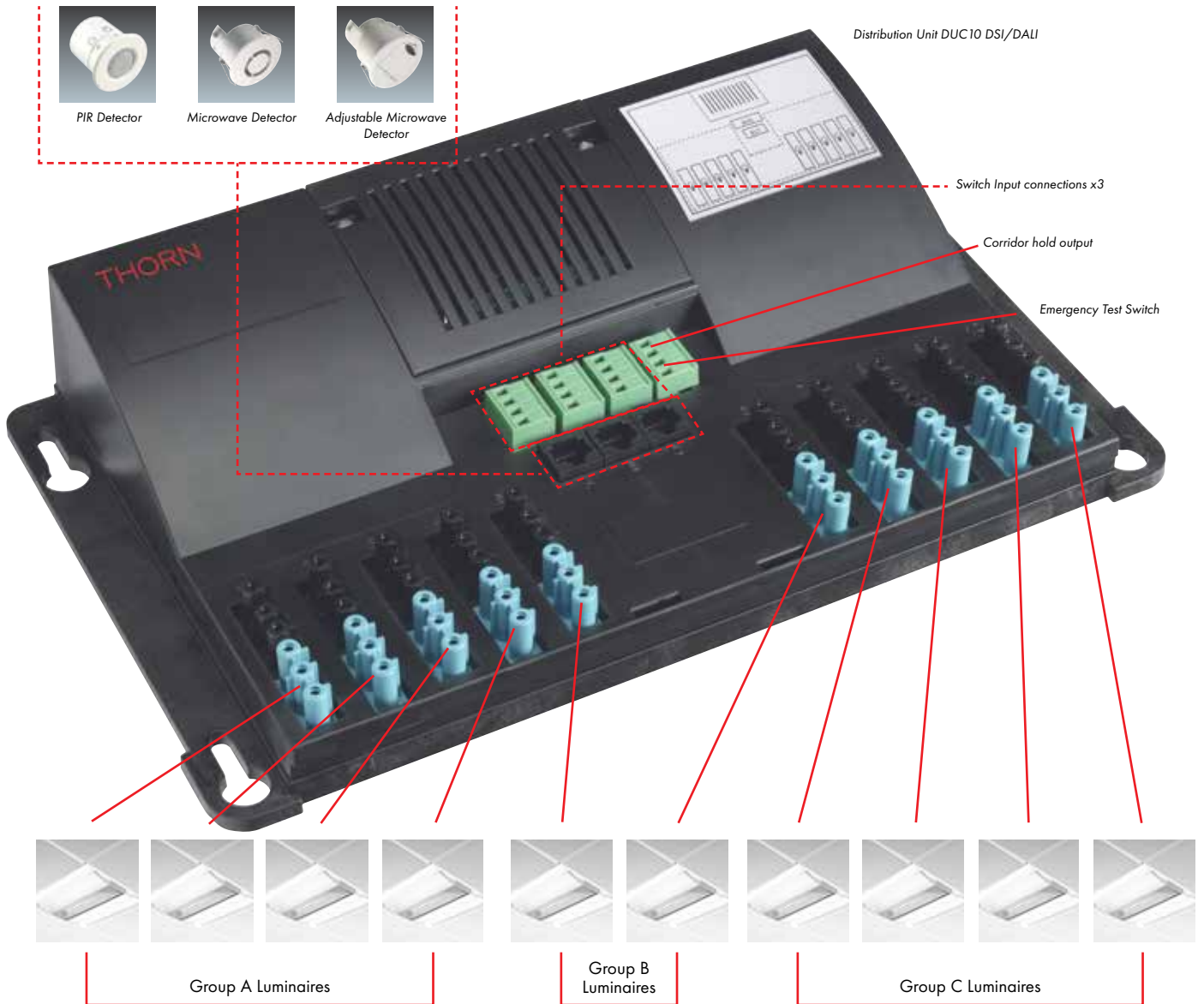
Description	SAP Code
Modular Distribution Units for up to 10 luminaires	
DISTRIBUTION UNIT DUS10	96232315
Connect link leads for connection of luminaires to Distribution Unit	
P4 3C 3M 1.5 WLC	96239771
P4 3C 5M 1.5 WLC	96239772
P4 4C 3M 1.5 WLC	96239773
P4 4C 5M 1.5 WLC	96239774
P4 S4 4C 3M 1.5 WLC	96239508
P4 S4 4C 5M 1.5 WLC	96239509

DUA - Automatic controlled, DUS - Switch controlled, Px - Plug with x poles, Sx - Socket with x poles, B - Black/blue connectors, 3M - lead length (3 metres), 1.5 - cross section of cores (mm), WLC - Slim line single side latch connector

Description	SAP Code
Modular Distribution Units for up to 10 luminaires	
DISTRIBUTION UNIT DUA10 B	96233048
Connect link leads for connection of luminaires to Distribution Unit	
P6B 3C 3M 1.5 WLC	96239775
P6B 3C 5M 1.5 WLC	96239776
P6B 4C 3M 1.5 WLC	96239777
P6B 4C 5M 1.5 WLC	96239778
P6B 5C 3M 1.5 WLC	96239779
P6B 5C 5M 1.5 WLC	96239780
P6B 6C 3M 1.5 WLC	96239781
P6B 6C 5M 1.5 WLC	96239782
P6B S4 4C 3M 1.5 WLC	96239510
P6B S4 4C 5M 1.5 WLC	96239511
P6B S6B 6C 3M 1.5 WLC	96239512
P6B S6B 6C 5M 1.5 WLC	96239513

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Connect Distribution Units



Up to 10 luminaires connected via leads with 6 pole connectors.

Ordering Guide For specification detail and technical data sheets please visit our website.

Description	SAP Code
Modular Distribution Units for up to 10 luminaires	
CONNECT DUC10 DSI	Configurable connect box DSI 96239814
CONNECT DUC10 DALI	Configurable connect box DALI 96239815
Presence/absence detectors	
CONNECT MRE DUC PIR*	PIR Presence Detector 96239816
CONNECT MRE DUC MWADJ*	Adjustable Microwave Detector 96239817
CONNECT MRE DUC MW*	Mid-range Microwave Detector 96239818
Patch leads	
CONNECT DUC 3PL	3M Patch lead 96239819
CONNECT DUC 5PL	5M Patch lead 96239820

*For surface mounting detectors see SwitchLite range for kits.

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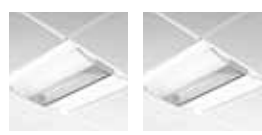
Description	SAP Code
Connect link leads for connection of luminaires to Distribution Unit	
P6B 3C 3M 1.5 WLC	96239775
P6B 3C 5M 1.5 WLC	96239776
P6B 4C 3M 1.5 WLC	96239777
P6B 4C 5M 1.5 WLC	96239778
P6B 5C 3M 1.5 WLC	96239779
P6B 5C 5M 1.5 WLC	96239780
P6B 6C 3M 1.5 WLC	96239781
P6B 6C 5M 1.5 WLC	96239782
P6B S4 4C 3M 1.5 WLC	96239510
P6B S4 4C 5M 1.5 WLC	96239511
P6B S6B 6C 3M 1.5 WLC	96239512
P6B S6B 6C 5M 1.5 WLC	96239513



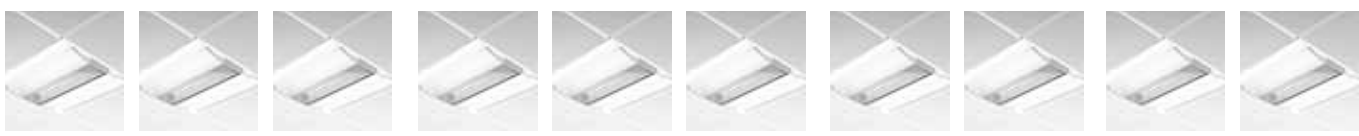
360° Microwave Detector 360° PIR Detector Directional Microwave Detector



Distribution Unit DUP125



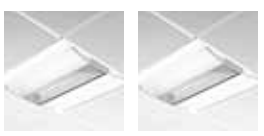
Channel 6 Luminaire



Channel 1 Luminaires



Channel 2 Luminaires



Channel 3 Luminaire



Channel 4 Luminaire



Channel 5 Luminaire

Up to 12 luminaires connected via leads with 6 pole connectors.

Ordering Guide		
Description		SAP Code
Modular Distribution Units for up to 12 luminaires		
CONNECT DUP125	Programmable connect box	96239604
CONNECT DUPDC125	Programmable connect box + dimming card	96239605
CONNECT DUPBC125	Programmable connect box + bus card	96239606
CONNECT DUPBDC125	Programmable connect box + bus /dimming card	96239607
CONNECT DUPBDW125	Programmable connect box + bus /dimming/ wireless card	96239608
Presence/ absence detectors		
CONNECT MSF CNDDSI	360° PIR Presence detector with photocell	96239627
CONNECT MRE CNDDSI	360° PIR Presence detector with photocell	96239612
CONNECT MSF CNDMW360	360° Microwave detector with photocell	96239628
CONNECT MRE CNDMW360	360° Microwave detector with photocell	96240059
CONNECT MSF CNDMW	Directional Microwave detector with photocell	96239629
CONNECT MCE CNDMW	Directional Microwave detector with photocell	96239613
Patch Leads		
CONNECT DUP 3PL	3M Patch lead	96239631
CONNECT DUP 5PL	5M Patch lead	96239632
CONNECT DUP 10PL	10M Patch lead	96239633

Ordering Guide		
Description		SAP Code
Connect link leads for connection of luminaires to Distribution Unit		
P6B 3C 3M 1.5 WLE		96239787
P6B 3C 5M 1.5 WLE		96239788
P6B 4C 3M 1.5 WLE		96239789
P6B 4C 5M 1.5 WLE		96239790
P6B 5C 3M 1.5 WLE		96239791
P6B 5C 5M 1.5 WLE		96239792
P6B 6C 3M 1.5 WLE		96239793
P6B 6C 5M 1.5 WLE		96239794
P6B S4 4C 3M 1.5 WLE		96239783
P6B S4 4C 5M 1.5 WLE		96239784
P6B S6B 6C 3M 1.5 WLE		96239785
P6B S6B 6C 5M 1.5 WLE		96239786
Spares		
CONNECT BC125	Bus card	96239609
CONNECT DC125	Dimming card	96239610
CONNECT AC125	1-10V Analogue card	96239841
CONNECT 5PLGS	Pack of 5 input plugs	96239611

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Leads and Connectors

A wide range of leads and connectors provide a quick, simple and effective solution for interconnecting Thorn luminaires



Connect luminaires can be interconnected in either a 'daisy chain' or 'spider' configuration via link leads or connector boxes. In most cases these luminaires come 'ready to fit' with lamps installed, louvres assembled and an easy clip plug for connection to the electrical supply. Both standard and emergency luminaires can be interconnected.

- No need to wire inside the fitting
- For maintenance simply disconnect plug and socket
- Leads use low smoke halogen free flexible cable

Installation

Most Connect luminaires are supplied with a plug for connection to electrical supply - 4 pole for the standard and emergency fittings. A range of leads and accessories are available for connection. Leads use low smoke, zero halogen flexible cable. See Ordering Guides.

Starter leads are fitted with a socket to connect to the first luminaire in a 'daisy chain' the other end 'open' for connection to mains supply. Link leads, fitted with a plug and socket, are used in conjunction with a T connector accessory to interconnect luminaires in a 'daisy chain' configuration.

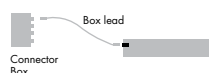
Individual Fitting



Daisy chain



Connector Box

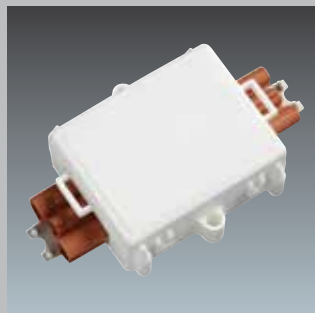


Ordering Guide

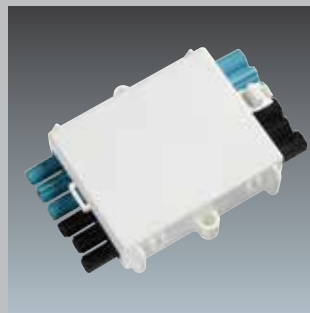
Description	SAP Code
Start Leads for connection of luminaires or T pieces to the mains (one striped bare end)	
S4 3C 3M 1.5 WL	96239492
S4 3C 5M 1.5 WL	96239493
S4 4C 3M 1.5 WL	96239494
S4 4C 5M 1.5 WL	96239495
S6B 5C 3M 1.5 WL	96239496
S6B 5C 5M 1.5 WL	96239497
S6B 6C 3M 1.5 WL	96239498
S6B 6C 5M 1.5 WL	96239499
Connect Link Leads for connection between plugable luminaires	
P4 S4 4C 3M 1.5 WL	96239500
P4 S4 4C 5M 1.5 WL	96239501
P6B S6B 6C 3M 1.5 WL	96239502
P6B S6B 6C 5M 1.5 WL	96239503
P4 S6B 4C 3M 1.5 WL	96239504
P4 S6B 4C 5M 1.5 WL	96239505
P6B S4 4C 3M 1.5 WL	96239506
P6B S4 4C 5M 1.5 WL	96239507
Connect Link Leads for connection between plugable luminaires and distribution units	
P4 S4 4C 3M 1.5 WLC	96239508
P4 S4 4C 5M 1.5 WLC	96239509
P6B S4 4C 3M 1.5 WLC	96239510
P6B S4 4C 5M 1.5 WLC	96239511
P6B S6B 6C 3M 1.5 WLC	96239512
P6B S6B 6C 5M 1.5 WLC	96239513
P6B S4 4C 3M 1.5 WLE	96239783
P6B S4 4C 5M 1.5 WLE	96239784
P6B S6B 6C 3M 1.5 WLE	96239785
P6B S6B 6C 5M 1.5 WLE	96239786
Leads and Connectors - Connect Link Leads for connection between emergency addressable luminaires	
CONNECT EM LINK 2C P3S3 10M RED	96503763
CONNECT EM LUM 2C P3 10M RED	96503764
CONNECT EM START 2C S3 10M RED	96503765



4 pole plug on fitting (WL4)



3 pole T connector for daisy chain (1/3 E3TX)



6 pole T connector for daisy chain (WL6)



Connecting lead



T connector for daisy chain

Description	SAP Code
Leads and Connectors - Connect Link Leads for connection between non pluggable luminaires and distribution units (one stripped bare end)	
P4 3C 3M 1.5 WLC	96239771
P4 3C 5M 1.5 WLC	96239772
P4 4C 3M 1.5 WLC	96239773
P4 4C 5M 1.5 WLC	96239774
P6B 3C 3M 1.5 WLC	96239775
P6B 3C 5M 1.5 WLC	96239776
P6B 4C 3M 1.5 WLC	96239777
P6B 4C 5M 1.5 WLC	96239778
P6B 5C 3M 1.5 WLC	96239779
P6B 5C 5M 1.5 WLC	96239780
P6B 6C 3M 1.5 WLC	96239781
P6B 6C 5M 1.5 WLC	96239782
P6B 3C 3M 1.5 WLE	96239787
P6B 3C 5M 1.5 WLE	96239788
P6B 4C 3M 1.5 WLE	96239789
P6B 4C 5M 1.5 WLE	96239790
P6B 5C 3M 1.5 WLE	96239791
P6B 5C 5M 1.5 WLE	96239792
P6B 6C 3M 1.5 WLE	96239793
P6B 6C 5M 1.5 WLE	96239794
Plugs, Sockets and T connectors	
CONNECT P4	96014654
CONNECT P6 B	96233051
CONNECT S3*	96014769
CONNECT S4*	96200559
CONNECT S6 B*	96233052
CONNECT T3	96218416
CONNECT T4	96200562
CONNECT EM S3 R	96503766
CONNECT EM P3 R	96503767

Description	SAP Code
5 Pole Leads and Sockets for Planor Recessed	
GST 18/5 Fem lead LSF 1.5m ² 3 core 3 mtr	96106318
GST 18/5 Fem lead LSF 1.5m ² 5 core 3 mtr	96106319
GST 18/5 link lead LSF 1.5m ² 5 core 3 mtr	96106320
GST 18/5 link lead LSF 1.5m ² 5 core 6 mtr	96106321
GST 18/5 Male plug, black	96106322
GST 18/5 Female socket, black*	96106286
GST 18/5 T connector, black	96106323

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*This item can be used in place of a starter lead.
For wiring configuration drawings please visit our website.

NEW

Sensa 2

www.thornlighting.co.uk/SENS

Lighting management system which is based on the twin principles of comfort and energy saving



- Flexible configuration, even for retrofits (lighting groups are not wire-bound)
- Compatibility and future-proof design
- Extensive functionality
- Simple and clear handling
- Wide range of interfaces to other systems

Lighting Controls - Energy efficiency made easy

We need a variety of strategies and technologies to help us control lighting to produce an optimal lit space that uses minimal energy. These are:



Presence/Absence detection

Artificial lighting responds to the occupancy of a space. **Average saving 24%**



Daylight linking

Artificial lighting responds to the natural light conditions. **Average saving 28%**



Constant illuminance

A function designed to produce correct lighting levels for the duration of the maintenance period



Task/Scene setting

Allows the user to set scenes and adapt the lighting to different tasks. **Average saving 36%**



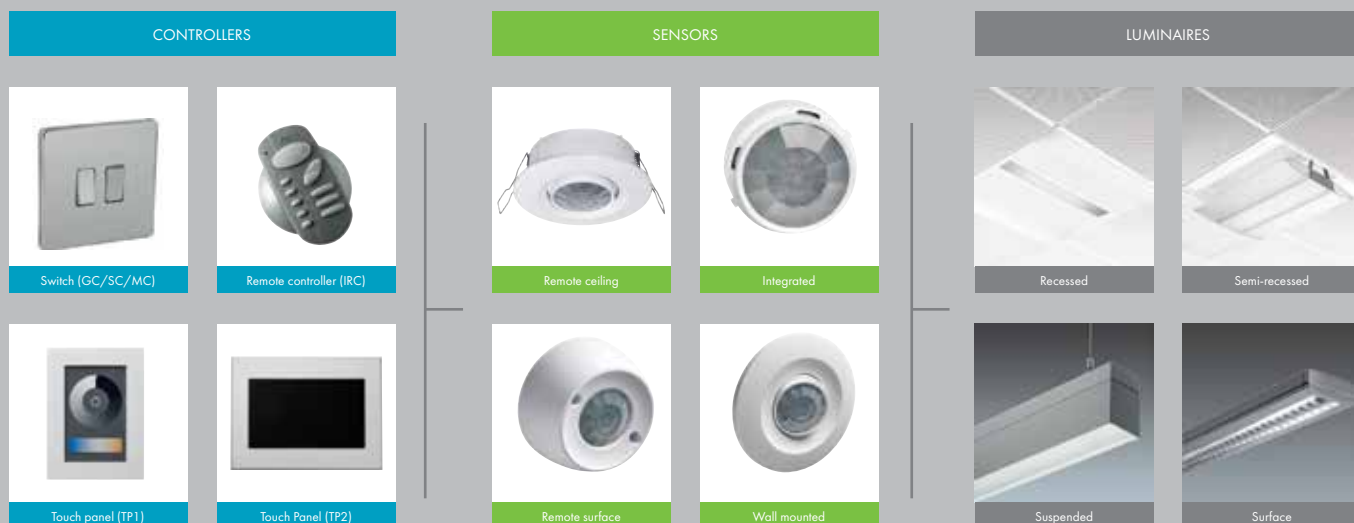
Timed sequence/off

Automatic cut-off can be installed to turn all electricity off during unoccupied hours

The average savings taken from paper comparing 240 studies of energy savings using different technologies, give an indication of typical average savings from different lighting controls strategies.*

**Lighting Controls in Commercial Buildings
A. Williams, B. Atkinson, K. Garbesi, E. Page, F. Rubinstein
LEUKOS Vol 8 No 3 January 2012*

Sensa Range



Overview To ensure the correct components are specified please contact your local Thorn sales representative.

Functionality		Controllers					Sensors
		GC/SC	MC	SQM	TP1	TP2	
Task/Scene setting - Scene control	Groups and scenes can be easily switched and dimmed with the group and scene control modules SENSА GC/SC/MC.	✓	✓				
Task/Scene setting - Multi-functional control	The Sensa MC (multi-controller) and the Touch panel (TP2) open a wide range of functions offering maximum flexibility such as scene setting, manual dimming of programmable groups of lighting and sequencing for automatic colour/scene changes. Each input can have a different function to meet the project requirements.		✓			✓	
Task/Scene setting - Automatic scene control (sequence)	Using the Sensa SQM predefined lighting scenes can be easily combined into a self-executing sequence. Up to 16 lighting scenes can be recalled one after another in a user-defined time meaning that automatic control of all lighting load types can be realised.			✓			
Presence/Absence Daylight linking control	Energy-efficient solutions can be created in combination with remote or integral sensor heads, offering daylight dependant and/or presence/absence control. A remote control extends the functionality of the SENSА S2 and enables the system to be manually operated.	✓*	✓*				✓
Timed sequence/off - Convenient operation and programming	Dynamic lighting can be easily provided thanks to the Sensa Touch Panel TP2. 16 luminaire groups each with the ability to select 16 user-defined lighting scenes can be controlled. Daily, weekly or monthly calendar events can be stored within the TP2 along with programmable timed sequences for dynamic and colour changing requirements.	✓*	✓*		✓*	✓	✓*
Comfortable configuration with a PC	Complex installations can be easily addressed and programmed on a PC (connection via DALI USB). The functionality of individual devices can be easily optimised.		✓		✓		✓

✓* - optional

NEW

Sensa 3

www.thornlighting.co.uk/SENS

Power at your finger tips



- Whether you just want to save energy by dimming or switching off your lighting, set task or comfort scenes or control LED coloured facade lighting with ease, the new Sensa TSC puts the power at your fingertips
- Microprocessor based system specifically designed for the control of commercial and architectural lighting
- Capacitive touch screen with customisable user interfaces supporting multiple pages of control to provide visual feedback
- Built-in learning IR sensor, with the ability to associate IR commands with touch screen controls
- Data stored in a non-volatile solid-state memory, uploaded from a remote personal computer over an Ethernet or web connection
- Internal real-time clock operates when power is absent

Lighting Controls - Energy efficiency made easy



Task/Scene setting

Allows the user to set scenes and adapt the lighting to different tasks

A new approach to Lighting Control

The Sensa TSC is not just another touch screen. Behind the tinted 4 x 6 screen lies a compact yet powerful computer with the ability to simultaneously control:

- Indoor/Outdoor Lighting
- Architectural colour changing LED lighting
- Scheduled lighting scenes
- Audio Visual equipment
- Addressable Emergency Lighting

The Sensa TSC also has the ability to share information with your BMS system.

Screen

- Resolution: 480x272
- Colour depth: 24 bit
- Brightness: 340 cd/m²

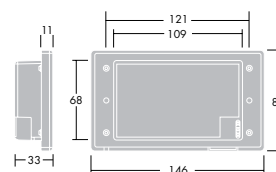
Physical

- Screen diagonal 4.3"
- Wall mounting in UK 2-gang 35mm back box (not supplied)
- Configuration and reset buttons beneath magnetic overlay
- Operating temperature range 0°C to 50°C
- CE compliant and ETL/cETL listed

Electrical

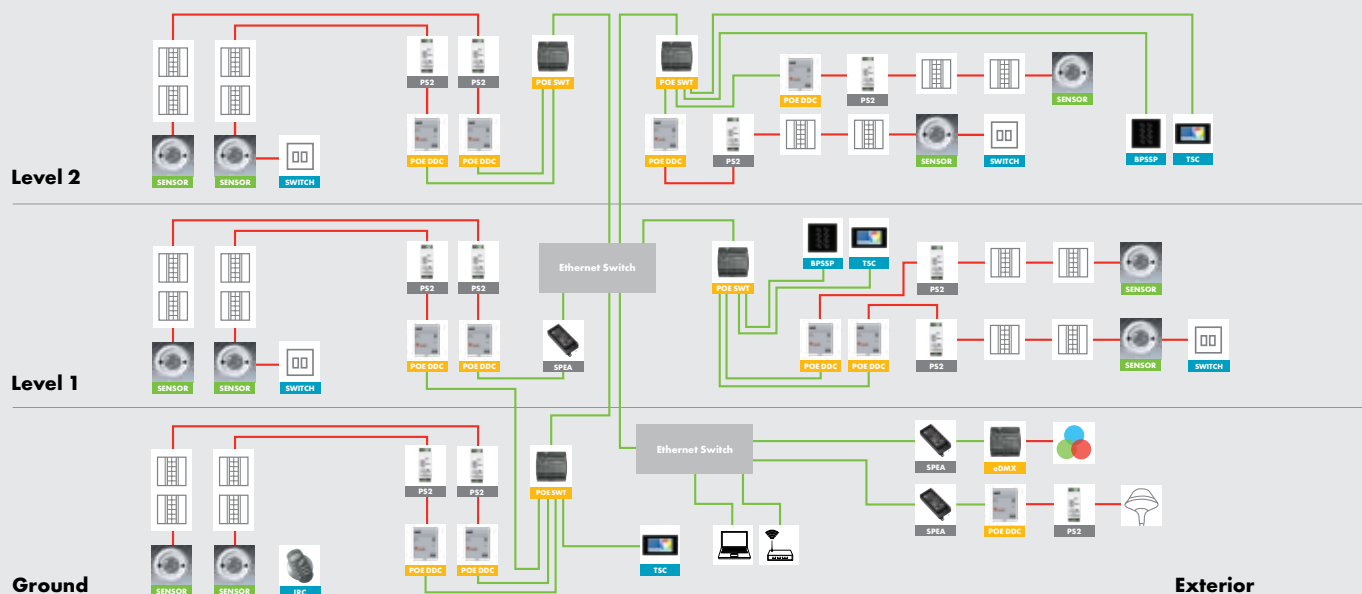
- RJ45 socket for 10/100Base-TX Ethernet
- IEEE 802.3af PoE Device (typical power consumption 4W)

Overview



Typical Sensa centralised control system

Key
— DALI or DMX
— TCP/IP



System Overview

The Sensa TSC is an Ethernet based lighting controller with the additional benefit of incorporating a touch screen interface with fully customisable graphics to suit any installation. The flexibility of using a controller with an inbuilt touch screen means we give the system user full ability to change their surroundings at the touch of a button.

The TSC could be located within a conference room, facilities office or even a riser cupboard but still take control of lighting throughout the entire building. Within a building wide control system the TSC would be acting as the 'brain' for the installation regardless of its location or the graphics displayed on the screen itself. Sensa scene plates such as the BPS SP can be used alongside the TSC to allow for localised control.

An installation consisting of 1 TSC gives the ability to control and monitor 16 DALI networks (1024 DALI devices) on top of this each TSC within an installation also allows for the control of 1 universe of DMX (512 channels) however each subsequent TSC within an installation adds a further universe of DMX (that's an additional 512 channels of DMX per TSC).

If more than 16 DALI networks need to be controlled within a building or if multiple DMX universes are required a larger capacity Sensa server can be added to the system to allow for this. This Ethernet based approach to connecting control devices and controlling lighting can be scaled to any size allowing for the control of an unlimited number of DALI and DMX devices.

System Features

- PoE (power over Ethernet) devices.
 - Unlimited number of DALI and DMX control channels.
 - All controllers and interfaces can be placed on an existing corporate network or a dedicated lighting or building controls network. DALI and DMX data can be routed to any location within an installation.
 - Built in heat and light sensors within the TSC can be used to adjust lighting levels or even to control the heating and air conditioning within a building.
 - Integration with building management systems and/or audio visual systems is done so directly from the TSC using Ethernet removing the need to purchase expensive interface modules as other lighting control systems may require.
 - Low cost cabling between control devices such as Cat5.e.
 - Commissioning of DALI and DMX lighting can be done by connecting a personal computer to a wired or wireless network.
 - Pixel matrices and LED mapping allow for large scale LED installations.
- Conditional logic allows for time and environment based lighting triggers, meaning that the functionality of the system can change automatically based on the state of other control devices, time of day/week/month/year, the temperature within a room and as far as say even on the phase of the moon at night time using a Lunar reference during setup. Seasonal triggers can control the state of the system based on the time of year meaning that true dusk and dawn times are used for exterior and interior lighting applications.

Ordering Guide


To ensure the correct components are specified please contact your local Thorn sales representative.




Description	SAP Code	
CONTROLLERS		
SENSA GC	Control module to change intensity and ON/OFF of lighting groups	96550413
SENSA SC	Control module to recall four lighting scenes	96550414
SENSA MC	Control module which can recall scenes, dim up/down, start sequences and work alongside Sensa S2 sensors	96550415
SENSA IRC	Handheld remote control. Works with Sensa S2 sensors and Sensa TSC	96550422
SENSA TSC	Touch Screen Controller for centralised DALI and DMX lighting control with BMS/AV integration	96550432
SENSA BPS SP	Scene plate	96550550
POWER SUPPLY		
SENSA PS2	SENSA DIN rail power supply (240 mA)	96550411
SENSA PS3	48Vdc power supply for Sensa PoE SWT	96550437
SENSA SPEA	Single port PoE injector for powering PoE devices locally	96550551
SENSORS		
SENSA S2 SF	Remote surface	96550419
SENSA S2 RC	Remote ceiling	96550420
SENSA S2 WM	Wall mounted	96550421
AUXILIARY DEVICES		
SENSA PoE SWT	5 port Ethernet switch (4 ports are PoE)	96550438
SENSA eDMX	Ethernet to DMX512 converter	96550439
SENSA PoE DDC	DALI gateway	96550440

Sensa Ordering Guide

www.thornlighting.co.uk/SENS

Ordering overview To ensure the correct components are specified please contact your local Thorn sales representative.

	SAP Codes	Description
CONTROLLERS		
	Sensa GC 96550413	The Sensa GC is used for the dimming and switching of two DALI groups with conventional momentary action switches and is powered directly by the DALI bus consuming 6mA. Assigning of momentary switches to specific groups is done by selecting the group range via a turn switch on the back of the module. Addressing of individual Ballasts, LED Drivers, Dimmers and Relays and assigning these devices to DALI groups can be done from each Sensa GC module by activating a simple "momentary switch" sequence. The Sensa GC modules allow multi master operation. Multiple control modules can be used on the same Sensa DALI network.
	Sensa SC 96550414	The Sensa SC is able to program and recall lighting scenes from DALI Ballasts, LED Drivers, Dimmers and Relays with conventional momentary action switches and is powered directly by the DALI bus consuming 6mA. Assigning of momentary action switches to specific groups is done by selecting the group range via a turn switch on the back of the module. Programming of lighting scenes can be done from each Sensa SC module by activating a simple "momentary switch" sequence. The Sensa SC allows for multi master operation. Multiple control modules can be used on the same Sensa DALI network.
	Sensa MC 96550415	The Sensa MC (multi-controller) can be connected to single and double momentary action switches along with other momentary action devices such as 3rd party relays to recall lighting scenes. The Sensa MC is powered directly by the DALI bus consuming 6mA. Different functions can be assigned to each of the four inputs. The following functions are available: dim up, dim down, off, recall min., recall max., go to scene 1-16, direct arc power ...%, mask and predefined macros. Switching modes are as follows: short press, long press; toggle; signal edge controlled relay mode. A maximum of two options can be assigned to each input, of which one function can be activated in each case. The programming of each input is done so using computer software. Each Sensa MC can use up to 4 eDALI addresses.
	Group controller DALI GC-A 24138907	The Sensa GC-A is used for the dimming and switching of two DALI groups with conventional momentary action switches and is powered directly by the DALI bus consuming 6mA. Assigning of momentary switches to specific groups is done by selecting the group range via a turn switch on the back of the module. Addressing of individual Ballasts, LED Drivers, Dimmers and Relays is done so using software meaning this product is suitable for school type applications where programming should not be accessible by the "momentary switch" sequence. The Sensa GC-A modules allow for multi master operation. Multiple control modules can be used on the same Sensa DALI network.
	Scene Controller DALI SC-A 24138906	The Sensa SC-A is able to program and recall lighting scenes from DALI ballasts, LED drivers, Dimmers and Relays with conventional momentary action switches and is powered directly by the DALI bus consuming 6mA. Assigning of momentary action switches to specific groups is done by selecting the group range via a turn switch on the back of the module. Scene programming of individual Ballasts, LED drivers, Dimmers and Relays is done so using software meaning this product is suitable for school type applications where programming should not be accessible by the "momentary switch" sequence. The Sensa SC-A allows for multi master operation. Multiple control modules can be used on the same Sensa DALI network.
	Sensa IRC 96550422	The Sensa IRC is an optional infra-red remote control and programming unit for Sensa S2 sensors to change the programming and operating parameters. The Sensa IRC comes complete with a wall bracket. Factory programmed parameters: Switching on and off (On/Off button), Dimming (Up/Down button), Activating automatic lighting control (sun/cloud button), recalling two lighting scenes, recalling five fixed light output values (100, 50, 25, 12 and 6 %). Individual adjustment of the button assignments can be done so with configuration software which overwrite the factory defined settings.
POWER SUPPLIES		
	DALI PS1 24034323	The Sensa DALI PS1 is a wall or remote mounted DALI power supply rated at 200mA (DALI standard allows max. 250 mA Maximum). The DALI driver within a DALI ballast normally sources 2 mA, with 64 individual addresses this will source 128 mA. The remaining 72 mA can be used to power other DALI control devices without an internal power supply such as the Sensa GC, Sensa SC, Sensa MC, Sensa S2 Sensor, etc. If less than 64 Ballasts, LED drivers, Dimmers or Relays are used the power consumption rating for control device will naturally increase.
	Sensa PS2 96550411	The Sensa DALI PS2 is a DIN rail mounted DALI power supply rated at 240mA (DALI standard allows max. 250 mA Maximum). The DALI driver within a DALI ballast normally sources 2 mA, with 64 individual addresses this will source 128 mA. The remaining 112 mA can be used to power other DALI control devices without an internal power supply such as the Sensa GC, Sensa SC, Sensa MC, Sensa S2 Sensor, etc. If less than 64 Ballasts, LED drivers, Dimmers or Relays are used the power consumption rating for control device will naturally increase.
	DALI Repeater 86458401	The Sensa DALI Repeater allows the maximum cable length of the DALI control line to be extended from 300 meters to 600 meters. The repeater amplifies the DALI signal. There is electrical isolation between the main control circuit and the subordinate control circuit. A Sensa DALI power supply is also required for the amplified DALI output (Sensa DALI PS1 or PS2)
SENSORS		
	Sensa DALI Msensor 02 5DPI 41f integrated 86459305	The Sensa S2 Sensor (luminaire integrated) comes with ambient light control, motion detection and an infrared receiver for the Sensa IRC. Simple group assignment via rotary switch or software, multiple Sensa S2 Sensors are possible in a DALI group and can be remote controlled. Lighting control and motion detection can be deactivated, individual adjustment of the parameters with configuration software is possible. Derives it's power from the DALI bus and consumes 6mA. Each Sensa S2 sensor requires 1 DALI address and 3 eDALI addresses
	Sensa S2 SF 96550419	The Sensa S2 Sensor (surface) comes with ambient light control, motion detection and an infrared receiver for the Sensa IRC. Simple group assignment via rotary switch or software, multiple Sensa S2 Sensors are possible in a DALI group and can be remote controlled. Lighting control and motion detection can be deactivated, individual adjustment of the parameters with configuration software is possible. Derives it's power from the DALI bus and consumes 6mA. Each Sensa S2 sensor requires 1 DALI address and 3 eDALI addresses
	Sensa S2 RC 96550420	The Sensa S2 Sensor (recessed) comes with ambient light control, motion detection and an infrared receiver for the Sensa IRC. Simple group assignment via rotary switch or software, multiple Sensa S2 Sensors are possible in a DALI group and can be remote controlled. Lighting control and motion detection can be deactivated, individual adjustment of the parameters with configuration software is possible. Derives it's power from the DALI bus and consumes 6mA. Each Sensa S2 sensor requires 1 DALI address and 3 eDALI addresses
	Sensa S2 WM 96550421	The Sensa S2 Sensor (wall mounted) comes with ambient light control, motion detection and an infrared receiver for the Sensa IRC. Simple group assignment via rotary switch or software, multiple Sensa S2 Sensors possible in a DALI group and can be remote controlled. Lighting control and motion detection can be deactivated, individual adjustment of the parameters with configuration software is possible. Derives it's power from the DALI bus and consumes 6mA. Each Sensa S2 sensor requires 1 DALI address and 3 eDALI addresses

	SAP Codes	Description
SCENE PLATES/CONTROLLERS		
	Sensa TP1 96550417	The Sensa TP1 is a wall mounted lighting controller that gives the ability to select lighting scenes for up to 16 DALI groups. Programmed using software the TP1 can be used as a stand-alone lighting controller or in a multi-master configuration in conjunction with other Sensa control devices such as the Sensa MC and the Sensa S2 sensor. The Sensa TP1 derives its power from the DALI bus and consumes 6mA.
	Sensa TP2 96550423	The Sensa TP2 is a wall mounted lighting controller with colour touch screen (5.7") with 2x DALI connections giving it the ability to control 128 ballasts, LED drivers, Dimmers and Relays. The TP2 gives the ability to create and recall programmed lighting scenes and sequences. Configuration is done so via the touch screen interface on the controller itself without the need to use additional software. Other Sensa devices such as the Sensa MC and the Sensa S2 sensor can be used in conjunction with the TP2 allowing for multi-master configurations. When used in a multi-master configuration devices such as the Sensa MC and Sensa S2 sensor are programmed using software. The DALI bus connections are not powered, therefore a Sensa DALI power supply (Sensa PS1 or PS2) is required for each of the 2 DALI bus connections. The Sensa TP2 itself is powered by means of an 48Vdc power supply (included) or by PoE (Power-over-Ethernet) by either the Sensa PoE SWT or Sensa SPEA.
SENSA DEVICES		
	DALI-PCD 300 one4all 86458303	The Sensa DALI PCD 300 one4all is a DALI controlled leading-edge and trailing-edge phase dimmer, total connected load: 30 – 300 VA, one4all input i.e. DALI, DSI and switchDIM input, 1 dimmed phase (output) with automatic load detection. Surface-mounted casing and status LED for indicating the operating status. The Sensa DALI-PCD 300 one4all derives its control circuitry power from the DALI bus and consumes 2mA. Each Sensa DALI-PCD 300 one4all requires 1 DALI address
	DALI PCD/S (1000 W) 22154332	The Sensa DALI PCD/S is a DALI controlled leading-edge and trailing-edge phase dimmer, capable of controlling a total connected load: 40 – 1000 VA. With a DALI/DSI input, a single (switchDIM) or double switch input, 1 dimmed phase (output), with automatic load detection. For installation in switching cabinets. A status LED indicates the operating status. The Sensa DALI PCD/S derives its control circuitry power from the DALI bus and consumes 2mA. Each Sensa DALI PCD 300 one4all requires 1 DALI address
	DALI-RM 24034702	The Sensa DALI RM is a DALI controlled compact relay module for controlling a high-load bearing contactor. Contactors are commonly used but are not limited too switching loads that do not have a DALI input so that they can be integrated into the DALI circuit. The loads can be switched ON/OFF but will not dim. The Sensa DALI RM has a current rating of 5A at 230Vac. N/O and N/C contact available for N/O and N/C high-load bearing contactors or similar switch dependant control modules. The DALI RM derives its power from the DALI bus and consumes 12mA. Each Sensa DALI RM requires 1 DALI address
	DALI 3 KANAL RM-C 86458247	The Sensa DALI 3 KANAL RM-C is a DALI controlled relay for controlling up to three 24Vdc contactors or LED outputs. The Sensa DALI 3 KANAL RM-C can also be used for status display purposes using 24Vdc signal lamps. Each output can be controlled individually. The connected loads can be switched ON/OFF but will not dim. The Sensa DALI 3 KANAL RM-C derives its control circuitry power from the DALI bus and consumes 2mA. Each Sensa DALI 3 KANAL RM-C requires 3 DALI addresses
	DALI USB 24138923	The Sensa DALI USB interface module is used to connect personal computers directly to a DALI network. This means that complex DALI lighting control solutions can be easily programmed.
SENSA TSC COMPONENTS		
	Sensa TSC 96550432	The Sensa TSC is a Microprocessor based computer specifically designed for the control of lighting in an architectural application. Capacitive touch screen with customisable user interface, supporting multiple pages of control. Built-in learning IR sensor, with ability to associate IR commands with touch screen control. Built-in ambient light sensor for daylight harvesting and to adjust screen brightness. Built-in temperature sensor and proximity sensor providing local and system-wide feedback even to BMS/AV systems. Project data stored in non-volatile solid-state memory which is uploaded from a remote personal computer over an Ethernet or web connection. Operating System stored in non-volatile solid-state memory, remotely updated when necessary from a personal computer over an Ethernet connection. Internal real time clock operates when power is absent. Integrated web server for access using smart phone/tablet devices or any device with an internet browser. Each TSC has the ability to control 16 DALI networks (Sensa PoE DDC) and the ability to control 1 universe of DMX which is 512 channels (Sensa eDMX). Each subsequent TSC adds an additional universe of DMX. Should more than 16 DALI networks be required or if larger DMX universes are required a Sensa Server can be provided to enable this. Networking Sensa Servers would allow for an unlimited number of DALI and DMX control channels.
	Sensa TSC PS 96550437	The Sensa TSC PS is a 48Vdc power supply used to power the Sensa PoE SWT. Compact and light weight (plastic case) and fits onto 35mm DIN-rail EMI and complies with EN55022-B, FCC-B. Adjustable output voltage. Parallel operations listed. Power 'good' signal output LED indicator and overload/over-voltage protection
	Sensa POE SWT 96550438	The Sensa PoE SWT is a Power-over-Ethernet switch (4x PoE & 1x standard port without PoE. All ports operate at 10/100Mbps). 48Vdc Power Supply via DIN rail mount PSU (Sensa TSC PS).
	Sensa eDMX 96550439	The Sensa eDMX is a PoE (Power-over-Ethernet) Arnet & Streaming ACN Ethernet DMX converter (receives DMX data from controller over TCP/IP and translates into real RS485 DMX data). Ethernet based DMX data can be received from Sensa TSC and Sensa Server and other Ethernet based lighting consoles. An unlimited number of Sensa eDMX devices can be part of an installation allowing for distributed lighting intelligence to every required location.
	Sensa POE DDC 96550440	The Sensa PoE DDC is a PoE (Power-over-Ethernet) DALI gateway to work alongside the Sensa TSC controller. Ethernet based DALI data is sent from either the Sensa TSC or Sensa Server and received over a TCP/IP network. The Sensa DDC then outputs DALI to the connected devices. Up to 16 Sensa PoE DDC devices can be connected to a Sensa TSC and 100 Sensa PoE DDC devices can be connected to a Sensa Server. If more than 100 Sensa PoE DDC devices are required additional Sensa Servers should be used and networked together.
	Sensa BPS SP 96550550	The Sensa BPS SP is a PoE (Power-over-Ethernet) push button panel with 8 high-reliability, tactile push buttons each with a white LED indicator. The BPS SP also comes with an integrated learning IR receiver. The Sensa BPS SP works in conjunction with the Sensa TSC or Sensa Server. Each button can be individually programmed to recall any action required. Up to 100 Sensa BPS SP devices can be connected to a Sensa TSC or Sensa Server. If more than 100 Sensa PoE DDC or Sensa BPS SP devices are required additional Sensa Servers can be used and networked together.
	Sensa SPEA 96550551	The Sensa SPEA is a compact PoE (Power-over-Ethernet) 48Vdc injector, suitable for wall or surface mounting. Input voltage range 100-240Vac 50-60Hz. The Sensa SPEA Receives Ethernet data and applies 48Vdc to the output port to power PoE devices such as the Sensa TSC, Sensa PoE DDC, Sensa BPS SP and the Sensa eDMX.

CONTROLS AND EMERGENCY LIGHTING



Outdoor Lighting Controls



Sensa DMX
526



Bi-power
528

NEW

Sensa DMX

www.thornlighting.co.uk/SEND

Stand alone DMX controller and associated devices for the implementation of DMX networks in outdoor applications



Aqueduc Arcueil-Cachan FR. © Xavier Boymond | Corniche

- Simple creation and autonomous display of lighting scenarios
- Scene recall via internet astronomical clock or remote push buttons
- Simple and discreet indoor touch screen panels
- Comprehensive range of splitters and accessories

Design notes

Scenario recall is achieved through:

- Selection buttons on the controller itself
- Programming of the time period thanks to the internal astronomical clock and calendar
- The use of the Sensa DMX adaptor portx8 (SAP code: 96291604) and remote triggers (commutor, relays etc). Space has been allowed inside the Controller box for the adaptor port.

The use of the DMX splitter (SAP code: 96261602) between Controller and luminaires is strongly recommended for its preventative protection (lightning surge, etc), in addition to the extension potential it provides. Space has been allowed inside the Controller box for the splitter.

Default settings

The DMX Controller is supplied with 8 pre-set scenarios. This allows for the validation of the cabling of the installation, as well as the implementation of simple and immediate scenarios without the need for commissioning

Scenario Number	Scenario
1	Black
2	Slow change of colours
3	Red
4	Yellow
5	Green
6	Cyan
7	Blue
8	Magenta



Sensa DMX-Software

The Sensa DMX Controller box is supplied complete with the Sensa architectural lighting software CD and USB cable. The software is compatible with Windows XP/Vista/Seven 32/64-bit / 64Kb memory, 512 DMX channels, 255 scenes.

Software also available for download from:
www.thornlighting.com.

DMX CONTROLLERS

Stand alone DMX controller using the DMX512 protocol.
Supplied with Sensa DMX software.



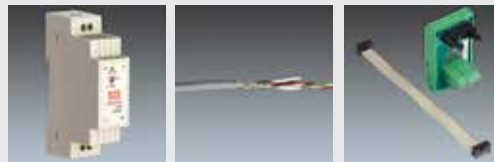
DMX SPLITTERS

Splitters provide preventative protection of the DMX Controllers, they also enable the extension of DMX networks both in distance and number of luminaires.



ACCESSORIES

Power supply for DIN rail splitter and DMX Controller. DMX cable specifically designed for DMX networks. The adaptor x8 enables the use of remote triggers.



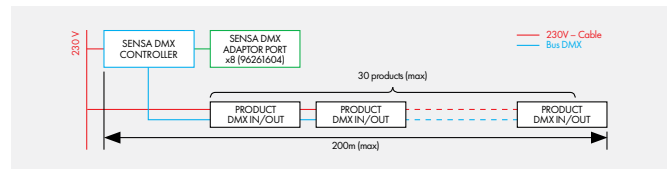
Ordering Guide

SAP description	Description	SAP Code
DMX Controllers		
 SENSa DMX CONTROLLER BOX IP65	Stand alone DMX Controller kit in IP65 box	96261598
 SENSa DMX CONTROLLER KIT	Stand alone DMX Controller kit for DIN rail	96261600
 SENSa DMX TS CONTROLLER BLACK	Black wall mounted touch screen DMX Controller	96261606
 SENSa DMX TS CONTROLLER WHITE	White wall mounted touch screen DMX Controller	96261599
DMX Splitters		
 SENSa DMX SPLITTER X4	4 output DMX Splitter for DIN rail	96261602
 SENSa DMX SPLITTER X4 IP65	4 output DMX Splitter in IP65 box	96241229
Accessories		
 SENSa DMX POWER SUPPLY	5V power supply for DIN rail	96261603
 SENSa DMX CABLE DMX512	DMX 512 cable	96261601
 SENSa DMX ADAPTOR PORT X8	8 port trigger adaptor for DIN rail	96261604

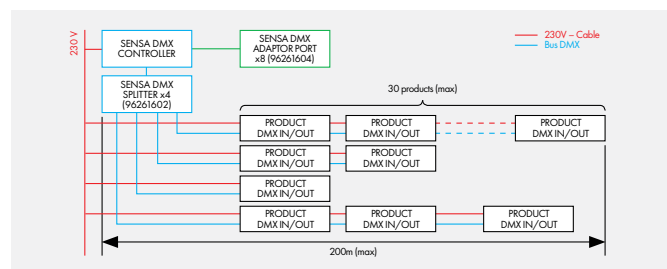
End of line terminations (1/4W resistance at the end of each DMX line) are not included in the Sensa DMX Range.

Typical Installation structures

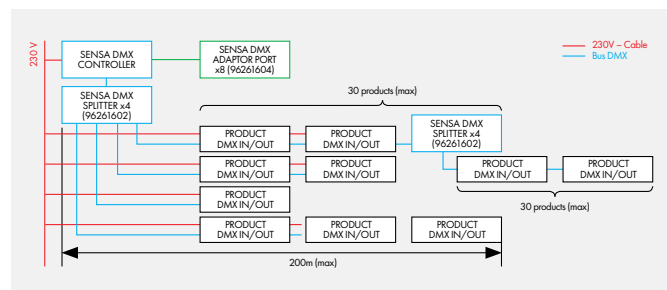
Sensa DMX for a small installation: DMX controller alone (optional adaptor port shown)

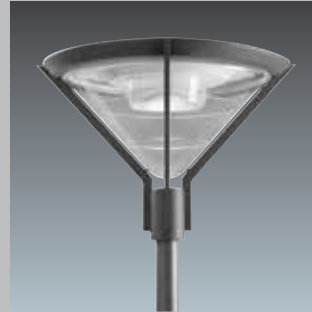


Sensa DMX for a medium installation: DMX controller with splitter (optional adaptor port shown)

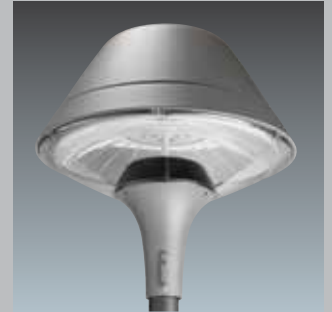


Sensa DMX for a large installation: DMX controller with splitters in cascade (optional adaptor port shown)





Avenue F LED



Plurio



Oxane



Dyana LED

Rising energy costs and increasing global pressures to reduce energy consumption are making the need to use energy more resourcefully a strategic necessity. Many local authorities have already taken action to reduce power consumption of street lighting which in some cases involves complete switch off of specific lanterns in certain areas of towns and cities during defined times of darkness when there is likely to be very little traffic or pedestrian activity, often only occurring after midnight. An alternate method of addressing the issue is by facilitating night time dimming to reduce energy consumption by using Bi power control. This cuts energy costs and delivers financial savings. It also helps to reduce the associated carbon footprint and enables organisations to demonstrate a commitment to social responsibility.

How does it work?

Bi power technology features integrated power reduction to reduce energy consumption and light output. The standard setting is 50% dimming for 8 hours - (3 hours before 'calculated midnight' and 5 hours after).

What is 'calculated midnight'?

One of two alternate methods of switching control are available depending on the product in question. Power Line switching (BPL) can be employed from a remote time clock or alternatively the control gear in the lantern can include an internal clock to allow it to operate autonomously. This clock will register when the fitting is switched on and off. After 2 days the clock will calculate 'midnight' as half the time of the burning hours. The 'calculated midnight' will be adjusted based on the burning hours of the previous two days.

What are the benefits of Bi Power?

- Reduced energy consumption
- Rather than complete darkness the lantern automatically reduces light output by 50% for 8 hours
- Easy access to the function via an integrated on-off BP switch on most part of the products
- Extended lamp lifetime by reducing the power and in turn, the stress and heat it encounters
- No effect on colour rendering or colour temperature

What products are available with Bi power?

Many of the street lighting lanterns in this catalogue have Bi power versions already and more are being introduced all the time. Both HID and LED lanterns are available with Bi power control. Consult the product pages for more information.



CONTROLS AND EMERGENCY LIGHTING



Emergency Lighting



Emergency Lighting Monitoring
532



LED Voyager LED Series
552



Voyager Elite + R
542



LED Voyager E LED
554



Voyager Elite ID + IDX
543



Voyager E Bulkhead
555



Voyager Elite IX
544



Voyager E Exit Sign
556



Voyager Elite SX
545



Voyager Escort
557



Voyager Elite X + XR
546



Voyager Twin Spot
558



LED Voyager Sigma
547



Voyager Exel
548



Voyager XXL
550



LED Voyager LED
551

Emergency Lighting



Specific requirements for emergency lighting are set out in law and the individual responsible for the building must ensure that people can safely leave the premises when the mains power fails.

This evacuation is facilitated by an emergency lighting scheme that must comply with European laws. These laws dictate the level of lighting required in the event of an emergency, together with important obligations such as the visibility of exit signage and the response time of emergency luminaires.

It is essential that the latest legislation, directives and standards are checked and understood before an emergency lighting scheme is designed and specified.

What is emergency lighting?

Emergency lighting operates automatically when a lighting circuit loses the mains power supply.

Emergency lighting falls into two categories:

Escape lighting

This illuminates exit routes and open areas.

These are defined in full on page 535. In summary:

- Exit routes must be clearly lit and signed to ensure people can evacuate the building safely.
- Open area lighting is designed to reduce confusion and panic, whilst ensuring visibility of the nearest exit route.
- Escape lighting also enables employees to shut down sensitive or potentially dangerous processes before evacuating the building.

Standby lighting

Standby lighting allows normal activities to continue if the main lighting fails for any reason. An application such as an operating theatre or an air traffic control centre would require standby lighting.

Maintaining your emergency lighting scheme

Once an emergency lighting scheme is designed and installed, the person responsible for the building has a legal obligation to make sure that all the emergency luminaires will operate when required.

Emergency light fittings must be regularly tested to confirm that they will operate when required. These testing requirements are detailed in full on page 538.

As a pioneer in the field of emergency lighting, Thorn offers three different ways of testing emergency lighting:

- **Addressable Test**
All the emergency light fittings are controlled by a central system. This system automatically tests each luminaire and stores the results for analysis. Addressable test systems are the optimum way of ensuring a fully functional emergency lighting scheme, particularly in medium to large applications.
- **SelfTest**
All the emergency lights are equipped with a intelligent processor that automatically tests functionality and battery life. Results are clearly displayed on a bi-colour LED indicator. Self Test is an ideal option for small to medium applications.
- **Manual Test**
A competent individual must walk around the building and perform a manual check for each emergency fitting, which must have a dedicated record sheet. This needs to be completed by hand and stored for inspection by the local authorities.

Peace of Mind

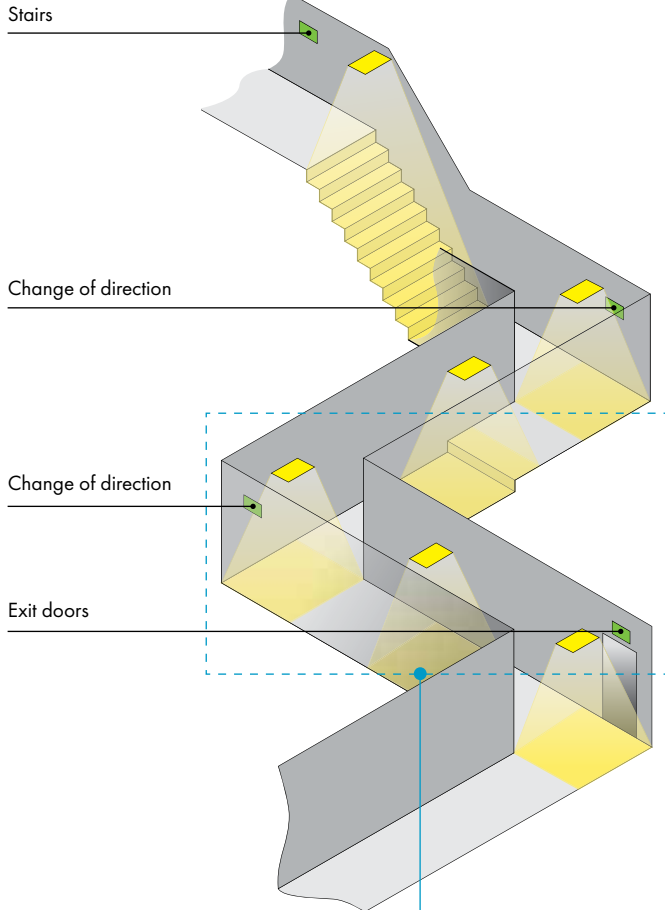
All Thorn emergency luminaires are specifically designed to be genuine emergency fittings. This guarantees that they meet both legal standards and our own exacting specifications. Thorn does not offer converted versions of standard fittings for use in emergency lighting schemes.

Emergency Lighting

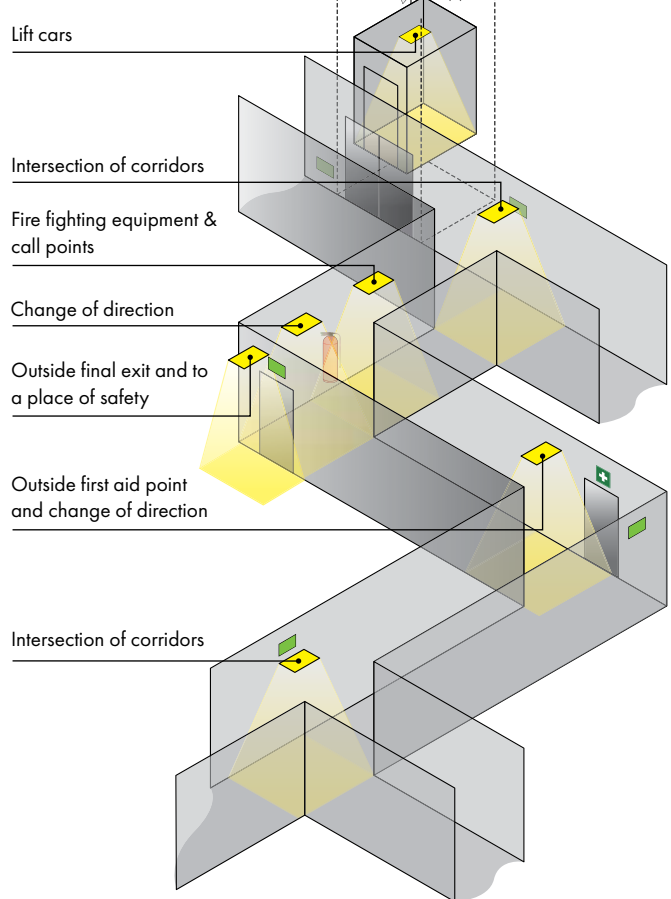
Regulations - Positioning

These illustrations show exactly where you must locate emergency lighting and signage

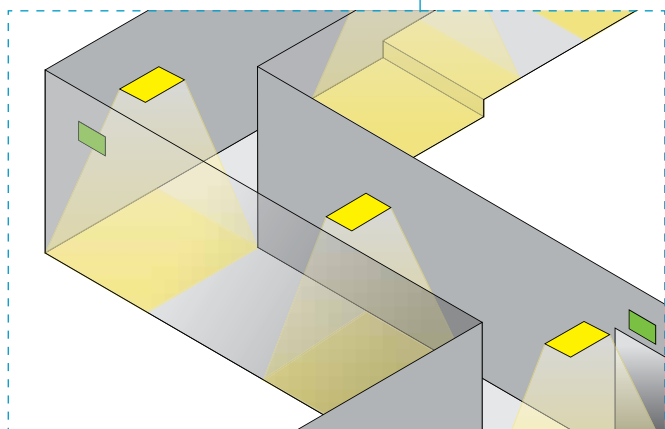
Step 1 - Exit Signage



Step 2 - Mandatory Points



Step 3 - Infill Lighting



Additional luminaire(s) are needed to fulfil emergency lighting level requirements

Key

Exit sign

Emergency luminaire

Infill luminaire

Emergency luminaires have to be carefully positioned to ensure a compliant emergency lighting scheme.

Three steps to an effective emergency lighting scheme:

Step 1 - Exit Signage

Signage must be placed to provide a clear and unambiguously marked route to the final exit.

Step 2 - Mandatory Points

Emergency fittings must be installed at certain mandatory points to provide essential light.

As shown in the diagram above, these points include changes of level, intersections of corridors, fire-fighting equipment and first aid posts.

Step 3 - Infill Lighting

In addition to the lighting of mandatory points, infill luminaires may be required to achieve the correct emergency lighting levels.

Emergency Lighting Regulations - Glare

When designing an emergency lighting scheme, levels of glare must be carefully considered

Emergency fittings should be positioned to be free from disability glare. Disability glare is where the brightness of the luminaire dazzles people, preventing obstructions or signs from being properly seen.

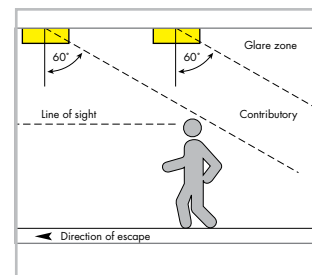
The table below shows the permitted glare limits, as set out in the current standard.

Mounting Height h	Escape Route & Open Area Max. Luminous Intensity I _{max}	High Risk Max. Luminous Intensity I _{max}
m	cd	cd
h<2.5	500	100
2.5≤h<3.0	900	1800
3.0≤h<3.5	1600	3200
3.5≤h<4.0	2500	5000
4.0≤h<4.5	3500	7000
4.5<h	5000	10000



Horizontal Routes

The glare calculation takes into account the number of luminaires that can be seen and the contribution of glare from each of these fittings. For horizontal routes, any glare above 60° is considered to contribute to the disability glare values.



Glare

Disability glare data

Maximum intensity (cd)	Transverse	Axial
Level route 60-90°	64.2	8.0
Non-level route 0-90°	64.2	27.0

Change of Level

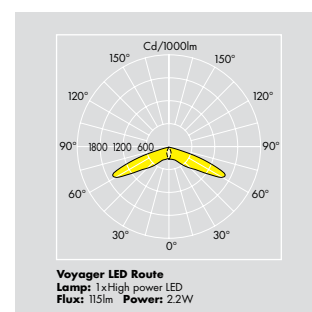
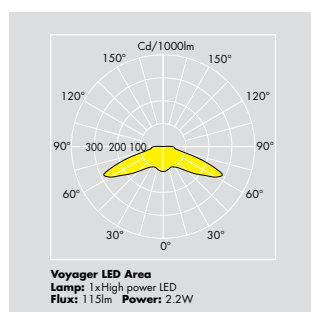
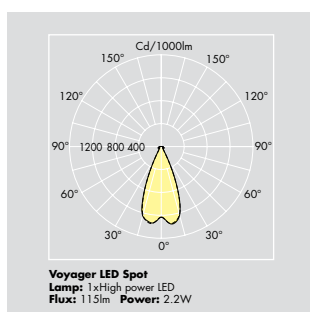
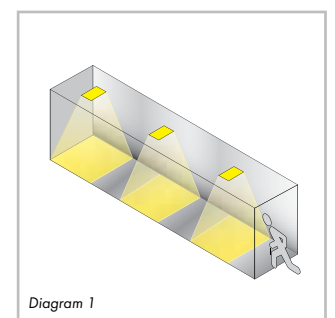
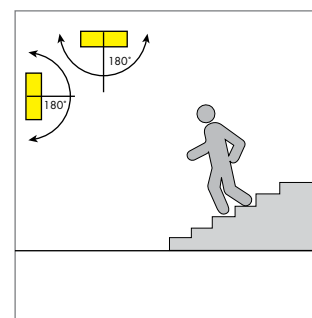
Wherever there are changes in level, glare levels should not be exceeded at all angles.

In the example shown in diagram 1, the Voyager Elite luminaires are mounted transversely (with their longest point facing across the corridor) at a height of 2.4 metres.

There are three emergency luminaires in the field of view. Therefore, the level of disability glare is calculated as follows:

$$3 \times 64.2 = 192.6 \text{ cd}$$

This value is significantly below the 500cd for luminaires mounted at 2.4 metres.



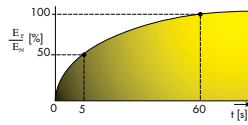
Emergency Lighting

Applications - Definitions and Requirements

The practical application of emergency lighting is dependent on the function of the area and the different types of emergency lighting required

ESCAPE ROUTE



Definition	Clearly defined exit route, including moving walkways, which must always be kept clear
Routes	Considered as a 2m wide strip or a series of 2m strips
Lighting level	Minimum 1 lux on centre line at floor level. Minimum 0.5 lux on 0.5m either side of the centre line (50% of the route width)
Diversity: E _{max} :E _{min} Ratio of max illuminance to min illuminance	< 40 : 1
Response time Time to reach emergency lighting levels	50% in 5 sec 100% in 60 sec 
Colour rendering (Ra)	>40
Glare: High contrast between luminaire and background leads to glare. Disability glare prevents you seeing properly	See table on page 534

Emergency lighting is designed to ensure safe evacuation of a building, reduce panic and confusion and safely manage high risk tasks in the event of a mains power failure.

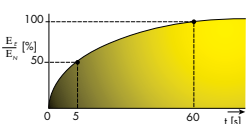
As a result, emergency lighting can be split into three key sections: escape route, open area and high risk task. As shown in the table, the requirements of the emergency lighting vary according to the specific section.

Fire call points, fire extinguishers and first aid points, not on the escape route must be lit to 5 lux.

* Check local legislation

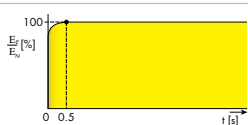
OPEN AREA



Definition	Escape area - Open or re-configurable area, including covered car parks and stepped areas in covered stadia (excluding designated escape routes)
Areas	> 60m ² *
Lighting level	Minimum 0.5 lux in core area (excludes 0.5m border)
Diversity: E _{max} :E _{min} Ratio of illuminance to min illuminance	< 40 : 1
Response time Time to reach emergency lighting levels	50% in 5 sec 100% in 60 sec 
Colour rendering (Ra)	>40
Glare: High contrast between luminaire and background leads to glare. Disability glare prevents you seeing properly	See table on page 534

HIGH RISK TASK



Definition	Areas where a hazardous activity must be made safe or terminated before evacuation, to prevent injury to passers-by or damage to equipment or the building
Areas	Defined by task
Lighting level	10% of maintained (normal) illuminance on the reference plane or at least 15 lux
Diversity: E _{max} :E _{min} Ratio of illuminance to min illuminance	< 10 : 1
Response time Time to reach emergency lighting levels	100% in 0.5 sec 
Colour rendering (Ra)	>40
Glare: High contrast between luminaire and background leads to glare. Disability glare prevents you seeing properly	See table on page 534

CONTROLS AND EMERGENCY LIGHTING

EMERGENCY LIGHTING

Emergency Lighting

Applications - Case Study

This hypothetical application gives examples of areas that require emergency lighting.

1. Office Type: Open area
General requirements: computers widely used on modular desking systems require the elimination of screen glare. Direct/indirect luminaires (like Jupiter II or Menlo³) brighten the ceiling
Emergency requirements: open area. Exit signs must be visible from all points. Design integration by use of emergency versions of mains fittings or use Voyager LED.

2. Corridor Type: Escape route
General requirements: a link between different rooms where good levels of lighting are important, but without sacrificing ambience. Some spotlighting for specific features.
Emergency requirements: clearly defined escape routes. Directional exit signs must be used to clearly indicate escape route. Design integrity maintained by using emergency versions of mains fittings (e.g. Amazon Bulkhead or Cruz downlight) for infill lighting.
Voyager LED with specific corridor optics offers maximum spacing.

3. Toilet/washroom area Type: Open area
General requirements: functional areas that must reflect the design approach of the building as a whole and provide adequate lighting.
Emergency requirements: open area. In toilet/washroom cubicles over 8m² two emergency* luminaires are required. These can be emergency versions of mains fittings or separate dedicated emergency products (e.g. Voyager LED or Voyager Exel emergency luminaire).
Toilet/washroom cubicles less than 8m² require emergency lighting if there is no 'borrowed' light (e.g. light coming in from a high level window).

4. Plant room Type: High risk task
General requirements: good light levels, impact resistance and durability are key criteria.
Emergency requirements: high risk task. Area specific tasks must be completed in the event of mains failure. Special quick response fittings such as Voyager Twin Spot should be used** or Voyager LED (task or spot)**.

5. Show room Type: Open area
General requirements: use of spotlights highlights exhibition panels and exhibits. Downlights give more general lighting whilst providing dramatic ambience
Emergency requirements: open area. Exit signs must always be visible. Emergency versions of downlights (e.g. Cruz) used to integrate with design and Voyager LED Spot.

6. Conference suite Type: Open area
General requirements: good dimmable lighting is required, with a mixture of linear fluorescents and downlights. Local spotlighting for lecture area.
Emergency requirements: open area. Exit signs must always be visible.
Emergency versions of linear fluorescent luminaires (e.g. Jupiter II) integrate with mains lighting scheme. Emergency versions of downlights (e.g. Cruz) used over clearly defined escape routes. Auditoria additionally require 0.1 lux along a line 1m above the floor.
Escape stairs and routes must be lit to the normal requirements.

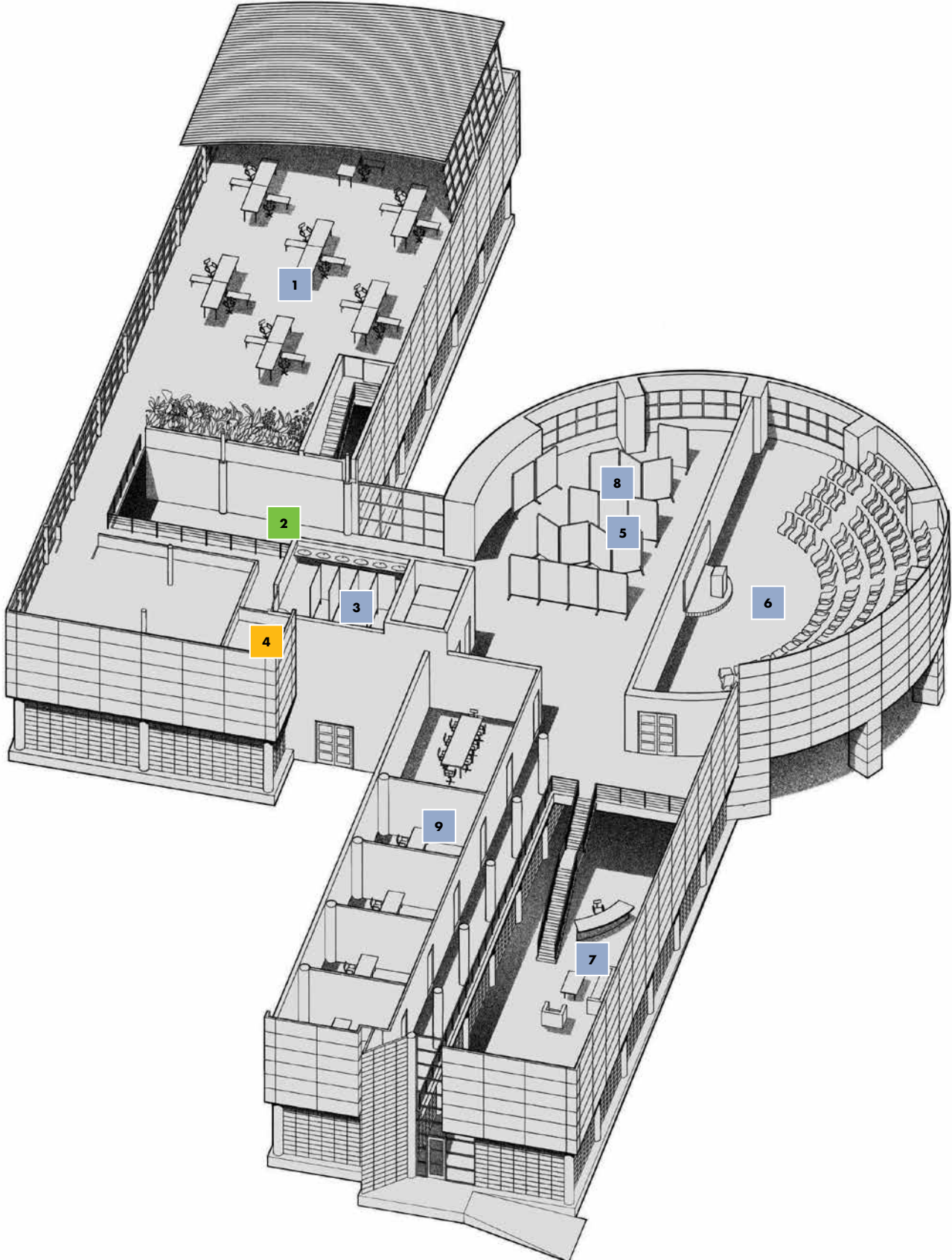
7. Reception Type: Open area
General requirements: an area requiring high visual impact, where use of decorative wall and ceiling mounted products create stylish ambience, whilst downlights and spotlights add focus.
Emergency requirements: open area. In public spaces, exit signs must be lit whenever there are people in the building. Stairs require a minimum of 1 lux on the tread of each stair. Emergency versions of wall and ceiling mounted decorative products (e.g. Glacier II pendant or Cruz downlights) integrate with design and provide aesthetic impact.
Stylish exit signs match the design-led focus for this area (e.g. Voyager LED).

8. Kitchens Type: Open area + High risk task
15lux in 0.5sec on the cooker surface

9. Treatment Room Type: Open area + High risk task
15lux in 0.5sec on treatment area, normally the bed or couch.

*EN50172 requires a minimum of 2 emergency luminaires to be used in open areas and compartments of an escape route (e.g. part of a corridor between fire doors).

**Plant rooms without moving machinery or with low potential risks can be lit as standard open areas. Generator rooms require self-contained emergency luminaires.



Emergency Lighting

Maintaining a Scheme

All emergency lighting schemes have to comply with European legislation and regulations

Emergency lighting design schemes are used to ensure that the installation will meet required lighting levels and protect the occupants with escape route, open area and high risk task lighting.

Once the scheme is installed and commissioned, it is essential that the luminaires are properly maintained and ready to perform in the event of an emergency. To make sure installed emergency products are always fit for purpose, regular testing has to be conducted by the building operator and a record of testing kept.

Frequency	Nature of Test	Purpose
Daily	Check all LED charging indicators are in operation	Ensure the batteries are being charged
Monthly	Conduct a functional test for all emergency luminaires	Check that the luminaire will operate in the emergency mode
Annually	Perform a full 3 hour duration test for all emergency luminaires	Confirm that the battery capacity will operate the product for the required 3 hour time period

Testing Emergency Lighting Products

Emergency lighting products have to be tested regularly to meet the requirements of European law. As shown above, the standard EN50172 stipulates the precise nature and frequency of the testing.

A full record sheet needs to be maintained for each emergency fitting. These sheets have to be available for inspection by the authorities at any time. Failure to provide full test records can result in legal action and closure of the building. In the event of an emergency, if the emergency lighting is defective, the insurance policy for the building may be invalidated and the building operator could face a heavy fine or imprisonment.

Recent changes to the laws governing emergency lighting have shifted the responsibility for the risk assessment, maintenance and testing to the building operator. This testing can be tedious, costly and time consuming.

Making Life Easy

To help building operators maintain a fully functional emergency lighting scheme that meets the full raft of legal requirements, Thorn offers three testing solutions:

- Central addressable testing
- Automatic self testing
- Basic manual testing

E3TX emergency gear offers SelfTest and Addressable Test functionality in a single fitting. E3TX luminaires operate as SelfTest when standalone and become Addressable when connected to either a Sensa 2 or Sensa 3 lighting control system.

Central Addressable Testing

Every emergency luminaire is connected to an intelligent local controller that automatically conducts all the necessary tests and stores the full results in one central location.

Sensa TP2

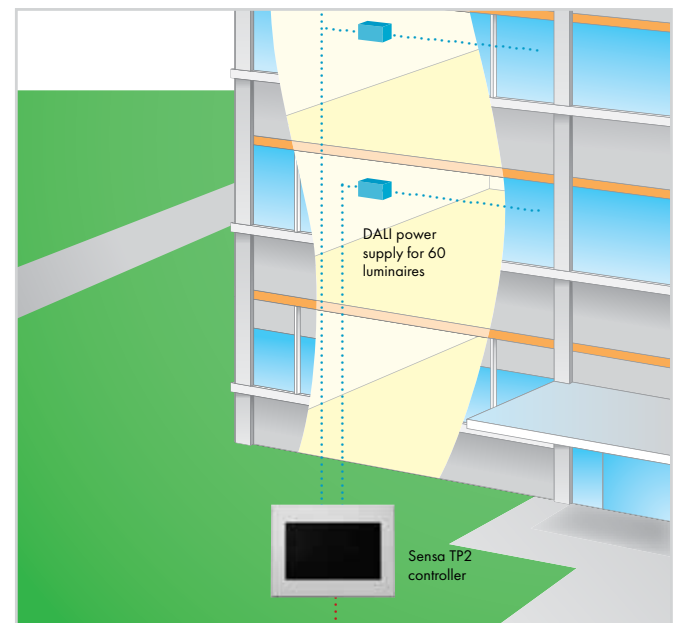
Sensa TP2 is a central addressable testing system that provides fully automatic monitoring, testing and fault logging for up to 240 emergency fittings. This system delivers a range of benefits:

- Ultimate convenience for emergency lighting testing.
- All results automatically stored in one location. No need for paperwork.

- Fault logging function identifies each luminaire, the location and the precise nature of the fault.
- All tests conducted at a convenient time, depending on the usage of the application
- Group testing staggers the testing to minimise the risk of depleted batteries.
- Simple to install and commission.
- Intelligent luminaires linked to the local controller using standard 1.5mm² 2 core mains cable.

Ordering Guide

Description	SAP Code
Sensa 2	
SENSA TP2	96550423
SENSA PS2	96554011



Typical Sensa TP2 installation for up to 120 emergency luminaire

Applications

This system is particularly suitable for small to medium projects looking for an easy and convenient way of maintaining their emergency lighting scheme for stringent inspection. Key examples include schools, colleges, small offices, surgeries, libraries and public buildings.

Please discuss individual application requirements with your local sales representative before ordering Sensa products. Commissioning by a Thorn engineer will be required.

Sensa 3 TSC

For larger applications with more than 240 emergency fittings, Sensa 3 TSC allows the building operator to monitor and manage the emergency lighting scheme from a standard computer. Sensa 3 TSC enables a standard computer to communicate with local controllers using the installed computer network.

Applications

Sensa 3 TSC has the ability to control an infinite number of emergency luminaires. In applications such as university accommodation blocks, hotels, large offices, hospitals and air ports, Sensa 3 TSC will deliver significant time and cost savings in terms of maintenance and inspection.

Automatic Self Testing

Each self test emergency luminaire contains an intelligent diagnostic processor that automatically performs the testing and uses the integrated bi-colour LED indicator to show the test results.

SelfTest fittings provide simple and reliable standalone automatic testing solutions. The building operative only needs to walk around the building once a month and check the status of the LED indicators. The overall result must be recorded in a central log book, with details of any failures.

SelfTest fittings offer a variety of benefits:

- Easy to install, with no additional cabling and automatic self-commissioning
- The building owner only needs to walk round the building once per month and record the result
- Faster than average recharge time for emergency batteries (around 10 - 15 hours, compared to 24 hours for Manual Test fittings)
- 3 hours operation, to facilitate re-entry following an evacuation
- Bi-colour LED (red and green) to provide clear status indication
- Boost starting technology gives higher lumen output during most critical phase to ensure greater visibility of potential danger
- Cathode heating during emergency operation prolongs emergency lamp life
- Intelligent processor learns to test while the building is unoccupied, reducing potential risk

Applications

SelfTest is an ideal testing solution for small applications or building refurbishments.

Key examples include small shops, offices and public buildings.

9 February 2008

All LEDs showing green. System clear of all faults.



10 March 2008






One LED showing steady red. Luminaire opposite the lift on second floor requires lamp replacement. All other LEDs showing green.

Basic Manual Testing

This kind of emergency luminaire relies on intensive human intervention to comply with the stringent testing regulations.

Every month a competent individual must walk around the site and manually switch the fittings into the emergency test mode. This will perform a functional test, after which an individual record sheet must be completed and safely stored. The same process must be carried out for the 3 hour duration test once every year.

Test	LED Indicator	Duration	Frequency	EN requirement
Function Test (Energise luminaire from battery briefly to simulate mains failure)	Green Rapid Flash 	30 seconds	Weekly	Monthly
Duration Test (Energise luminaire for full rated duration)	Green Slow Flash 	1 or 3 hours	Annually	Annually

Component	LED Indicator	Status	Action
Battery	Green Steady 	Healthy	OK
	Red Slow Flash 	Low	Wait 24hrs and recheck
	Red Rapid 	Not charging	Service required
Lamp	Green Steady 	Healthy	OK
	Red Steady 	Failure	Service required

In this case, the LED indicator only shows whether the battery is being charged. Any further fault requires manual examination of the fitting. Combined with the fact that a competent individual has to walk around the site every month, basic manual testing luminaires incur high whole life costs due to expensive labour charges for testing and maintenance.

Applications

Basic manual test is suitable for budget-driven installations where the whole life costs are not considered

Emergency Lighting

Authentic Emergency Luminaires



Integrated Emergency Luminaires: Authentic Products vs Third Party Conversions

There are two main ways of producing integrated emergency luminaires:

- **Specific emergency versions of standard fittings**

This type of emergency fitting is produced alongside the standard versions of the same fitting, using the same production methods but to a specific and tested design.

- **Converted standard luminaires**

These products are finished versions of standard luminaires that are then fitted with an emergency kit at a later date.



Genuine Thorn Emergency Products

With over forty years experience in emergency lighting manufacturing, Thorn only offer products that are designed, manufactured and tested to meet the latest European legislation, including:

- EN 60598-1 1998
- EN 60598-2-22 1998
- BS 5266-1 and 7: 1999
- BS 5499-1 and 4: 2000
- CE mark

Thorn only produce specifically designed emergency luminaires to comply with these increasingly stringent requirements. Thorn does not convert standard products.

High quality components, such as diffusers and batteries, are always used by Thorn to ensure optimum performance in all situations and full compliance with the full range of standards and regulations.

Thorn emergency fittings are tested in our BSI-registered photometric laboratory, to ensure correct light output levels can be achieved. These figures can then be used to calculate the best possible emergency lighting design scheme and reduce the level of on-site testing prior to hand over.

Regulations on Electro-magnetic Compatibility (EMC) state that luminaires should not emit or be susceptible to electro-magnetic radiation above certain designated levels. Recent revisions to these standards require luminaires to still meet these levels when operating in the emergency mode. All Thorn emergency fittings comply with these requirements.



The Dangers of Emergency Conversions by a Third Party

Standard fittings that are converted into emergency versions by a third party are subject to a number of potential risks. This may result in failure to comply with legal standards and is likely to negatively impact on the safety, performance and maintenance of the product.

A third party carrying out any modifications immediately takes full legal responsibility for the product.

A number of factors should be taken into account when considering a standard fitting converted by a third party:

- **EMC Conformity**
Many third party converters cannot afford to conduct the exacting series of tests required to measure the electro-magnetic performance. This means many fittings produced in this way do not conform to the latest regulations and could ultimately lead to criminal prosecution.
 - **Component Quality**
The use of low-cost or poor quality components will lead to early product mortality and failure to perform fully in an emergency situation. Potential issues include reduced battery life, over-heating, lamp and circuit issues and low light output.
 - **Photometric Performance**
Approved photometric data is required to ensure a lighting design scheme will deliver the specified output needed to protect the safety of people within the premises. A luminaire converted by a third party will need to be photometrically tested or the full installation measured according to EN1838 once installed.
 - **CE Marking**
The CE mark is a mandatory requirement for all luminaires on sale in Europe. This marking proves that the product conforms to all relevant safety standards. Conformity requires extensive testing at normal and abnormal conditions and is the responsibility of the last party to modify the product.
 - **Warranty**
Any Thorn lighting product that has been tampered with by a third party immediately loses the original manufacturer warranty. Legally binding warranties, including certificates such as the CE marking, become the responsibility of the third party, who are then exposed to product liability claims.
 - **WEEE & Battery Directive**
All Thorn products come with full WEEE compliance already covered. Similarly we operate a battery replacement and return scheme to comply with the requirements of the Battery Directive.
- Any failure of the product during an emergency situation, leading to loss of life, personal injury or damage to property, will expose these parties to criminal prosecution and significant claims for damages through the civil courts. Insurance policies held by the third parties frequently stop short of covering them if this situation arises.
- **Trade Mark Infringement**
Any product modified by a third party cannot be passed off as an authentic Thorn lighting emergency product. It is illegal to pass off a converted product as a genuine Thorn fitting. Such unlawful practice will expose the perpetrator and all participants in the supply chain to civil litigation.

For complete peace of mind, always look out for the Thorn authentic emergency product logo. This tamper-proof label proves the integrity of the fitting and clearly indicates quality, performance and conformity.

Voyager

Elite + R



www.thornlighting.co.uk/VOYL

A high performance 11W emergency bulkhead with self or central test option



Lamps

TC-SEL (FSD) 2G7 11W

Standards

CE EN 60598 IP65 T_a -5 to +25 850°C

- Excellent optical performance allows increased luminaire spacing
- Surface mounted and semi-recessed versions available to suit different schemes
- Available with Explorer SelfTest and addressable test for hassle free testing
- IP65 protection

Materials/Finish

Body: polycarbonate silver (RAL 9006) or white (RAL 9010)
Diffuser: clear polycarbonate

Installation/Mounting

Oval cut-out for ceiling, template provided, provision for 20mm rear cable entry. European back box mounting options e.g. BESA fixing and recessed ceiling box mounting. Four/six way terminal block 2x2.5mm² capacity. Semi-recessed version: Oval trim hides oval cut-out in ceiling.

Specification

To specify state:
Stylish high performance 3 hour duration maintained emergency IP65 bulkhead for 11W TC-SEL compact fluorescent lamps with manual (E3) or selfTest or addressable (E3TX) testing capabilities.

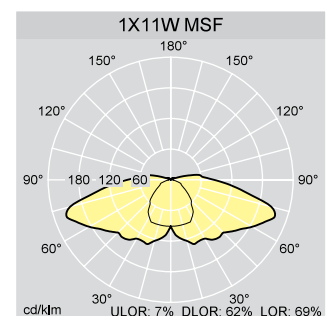
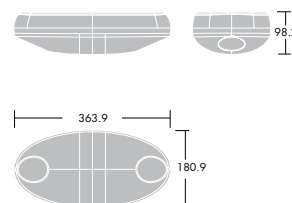
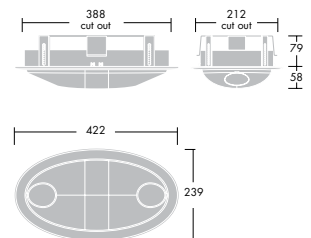
As Thorn Voyager Elite and Elite R

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Elite + R Surface mounted			
VOYAGER ELITE 1X11W E3M SIL MSF	1.80	96218816	VYELMSS
VOYAGER ELITE 1X11W E3M WHI MSF	1.80	96218848	VYELMWS
Voyager Elite + R Recessed			
VOYAGER ELITE R 1X11W E3M SIL MSR	2.60	96218808	VYELRMSR
VOYAGER ELITE R 1X11W E3M WHI MSR	2.60	96218840	VYELRMWR

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Voyager

Elite ID + IDX



www.thornlighting.co.uk/VOYD

An economical and attractive 11W emergency luminaire for use where there is restricted void depth



Lamps

TC-SEL (FSD) 2G7 11W

Standards

CE EN 60598 IP30 T_a 0 +25 850°C

- Attractive slim aesthetics which complement the Elite range
- Available with Explorer SelfTest and addressable test for hassle free testing
- Matching exit sign version available for total scheme integration (Elite IDX)
- Choice of legends available with 10, 20 or 30m viewing distances for Elite IDX

Materials/Finish

Trim: polycarbonate silver (RAL 9006) or white (RAL 9010)
Diffuser: clear polycarbonate
Exit Blade: flame retardant acrylic

Installation/Mounting

Oval cut-out for ceiling, template provided. 4/6 way terminal block, 2x2.5mm² capacity

Specification

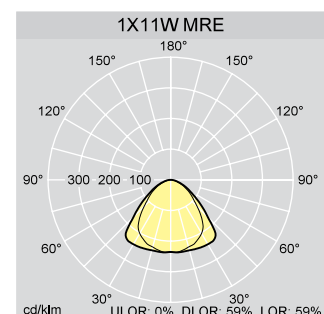
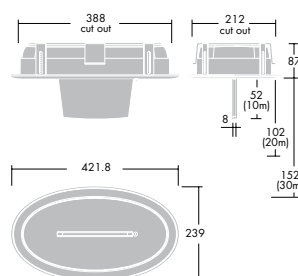
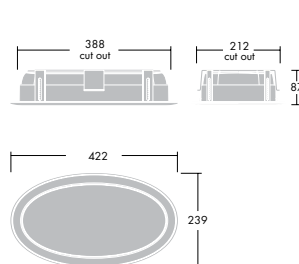
To specify state:
Recessed maintained 3 hour duration emergency luminaire for 11W TC-SEL lamps with manual (E3) or selfTest or addressable (E3TX) testing capabilities. Viewing distance: 10m, 20 or 30m.
As Thorn Voyager Elite ID and for exit version as Thorn Voyager Elite IDX with up / down / left & right 10/20/30m exit blade.

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Elite ID + IDX Luminaire			
VOYAGER ELITE ID 1X11W E3M SIL MRE	2.14	96218857	VYELIDMSR
VOYAGER ELITE ID 1X11W E3M WHI MRE	2.14	96218871	VYELIDMWR
Voyager Elite ID + IDX Exit sign			
VOYAGER ELITE IDX 1X11W E3M SIL MRE	2.14	96218829	VYELIDXMSR
VOYAGER ELITE IDX 1X11W E3M WHI MRE	2.14	96218874	VYELIDXMWR
Voyager Elite ID + IDX Legends			
VOYAGER ELITE DN10	0.30	96218878	VYELDN1
VOYAGER ELITE DN20	0.50	96218881	VYELDN2
VOYAGER ELITE DN30	0.70	96218884	VYELDN3
VOYAGER ELITE LR10	0.30	96218879	VYELLR1
VOYAGER ELITE LR20	0.50	96218882	VYELLR2
VOYAGER ELITE LR30	0.70	96218885	VYELLR3
VOYAGER ELITE UP10	0.30	96218877	VYELUP1
VOYAGER ELITE UP20	0.50	96218880	VYELUP2
VOYAGER ELITE UP30	0.70	96218883	VYELUP3
VOYAGER ELITE ISO DN10	0.30	96240350	VYELDN1ISO
VOYAGER ELITE ISO DN20	0.50	96240351	VYELDN2ISO
VOYAGER ELITE ISO DN30	0.70	96240352	VYELDN3ISO
VOYAGER ELITE ISO LR10	0.30	96240353	VYELLR1ISO
VOYAGER ELITE ISO LR20	0.50	96240354	VYELLR2ISO
VOYAGER ELITE ISO LR30	0.70	96240355	VYELLR3ISO
VOYAGER ELITE ISO UP10	0.30	96240347	VYELUP1ISO
VOYAGER ELITE ISO UP20	0.50	96240348	VYELUP2ISO
VOYAGER ELITE ISO UP30	0.70	96240349	VYELUP3ISO

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Voyager Elite IX



www.thornlighting.co.uk/VOYI

An attractive 11W emergency exit sign with excellent performance for use where void depth is restricted



Lamps

TC-SEL (FSD) 2G7 11W

Standards

CE EN 60598 IP30 T_a 0 +25 850°C

- Attractive slim aesthetics which complement the Elite range
- Available with Explorer SelfTest and addressable test for hassle free testing
- Matching recessed luminaire available for total scheme integration
- Choice of legends available with 10, 20 or 30m viewing distances

Materials/Finish

Trim: polycarbonate white (RAL 9010) or silver (RAL 9006)
Cover: mild steel white (RAL 9010) or silver (RAL 9006)
Exit Blade: flame retardant acrylic

Installation/Mounting

Oval cut-out for ceiling, template provided. 4/6 way terminal block, 2x2.5mm² capacity

Specification

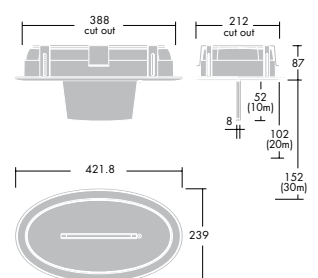
To specify state:
Recessed maintained 3 hour duration
IP30 emergency exit sign for 11W TC-SEL lamps with manual (E3) or selfTest or addressable (E3TX) testing capabilities and up / down / left & right 10/20/30m exit blade.
As Thorn Voyager Elite IX

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Elite IX			
VOYAGER ELITE IX 1X11W E3M SIL MRE	1.50	96218868	VYELIXMSR
VOYAGER ELITE IX 1X11W E3M WHI MRE	1.50	96218804	VYELIXMWR
Voyager Elite IX Legends			
VOYAGER ELITE DN10	0.30	96218878	VYELDN1
VOYAGER ELITE DN20	0.50	96218881	VYELDN2
VOYAGER ELITE DN30	0.70	96218884	VYELDN3
VOYAGER ELITE LR10	0.30	96218879	VYELLR1
VOYAGER ELITE LR20	0.50	96218882	VYELLR2
VOYAGER ELITE LR30	0.70	96218885	VYELLR3
VOYAGER ELITE UP10	0.30	96218877	VYELUP1
VOYAGER ELITE UP20	0.50	96218880	VYELUP2
VOYAGER ELITE UP30	0.70	96218883	VYELUP3
VOYAGER ELITE ISO DN10	0.30	96240350	VYELDN1ISO
VOYAGER ELITE ISO DN20	0.50	96240351	VYELDN2ISO
VOYAGER ELITE ISO DN30	0.70	96240352	VYELDN3ISO
VOYAGER ELITE ISO LR10	0.30	96240353	VYELLR1ISO
VOYAGER ELITE ISO LR20	0.50	96240354	VYELLR2ISO
VOYAGER ELITE ISO LR30	0.70	96240355	VYELLR3ISO
VOYAGER ELITE ISO UP10	0.30	96240347	VYELUP1ISO
VOYAGER ELITE ISO UP20	0.50	96240348	VYELUP2ISO
VOYAGER ELITE ISO UP30	0.70	96240349	VYELUP3ISO

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Voyager

Elite SX



www.thornlighting.co.uk/VOYS

A versatile 11W emergency exit sign with self and central test capability, plus a choice of mounting options



Lamps

TC-SEL (FSD) 2G7 11W

Standards

CE EN 60598 IP20 T_a 0 +25 850°C

- Durable aluminium construction for extra long life
- Available with a choice of mounting or suspension options to suit all schemes
- Available with Explorer SelfTest and addressable test for hassle free testing
- Choice of legends available with 10, 20 or 30m viewing distances

Materials/Finish

Body: extruded aluminium, silver (RAL 9006) or white (RAL 9010)
Endcaps: polycarbonate silver (RAL 9006) or white (RAL 9010)
Exit Blade: flame retardant acrylic

Installation/Mounting

Ceiling mounted supplied with cable suspension. Wall mounted using cantilever bracket. Tube suspension. Screw fixings in base. 4/6 way terminal block, 2x2.5mm² capacity.

Specification

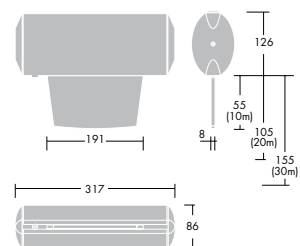
To specify state:
Hanging 3 hour duration maintained emergency exit sign for 11W TC-SEL compact fluorescent lamps with manual (E3), self or addressable (E3TX) testing capabilities and up / down / left & right 30 / 20 / 10m exit blade.
As Thorn Voyager Elite SX.

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Elite SX			
VOYAGER ELITE SX 1X11W E3M SIL MSF	3.00	96218824	VYELXMS5
VOYAGER ELITE SX 1X11W E3M WHI MSF	3.00	96218856	VYELXMW5
Voyager Elite SX Accessories			
VOYAGER ELITE KIT MRS SIL	0.20	96218833	VYELMRSS
VOYAGER ELITE KIT MRS WHI	0.20	96218865	VYELMR5W
VOYAGER ELITE SX KIT FIXCB SIL	0.25	96218835	VYELXFCBS
VOYAGER ELITESX KIT FIXCB WHI	0.25	96218867	VYELXFCBW
Voyager Elite SX Legends			
VOYAGER ELITE DN10	0.30	96218878	VYELDN1
VOYAGER ELITE DN20	0.50	96218881	VYELDN2
VOYAGER ELITE DN30	0.70	96218884	VYELDN3
VOYAGER ELITE LR10	0.30	96218879	VYELLR1
VOYAGER ELITE LR20	0.50	96218882	VYELLR2
VOYAGER ELITE LR30	0.70	96218885	VYELLR3
VOYAGER ELITE UP10	0.30	96218877	VYELUP1
VOYAGER ELITE UP20	0.50	96218880	VYELUP2
VOYAGER ELITE UP30	0.70	96218883	VYELUP3
VOYAGER ELITE ISO DN10	0.30	96240350	VYELDN1ISO
VOYAGER ELITE ISO DN20	0.50	96240351	VYELDN2ISO
VOYAGER ELITE ISO DN30	0.70	96240352	VYELDN3ISO
VOYAGER ELITE ISO LR10	0.30	96240353	VYELLR1ISO
VOYAGER ELITE ISO LR20	0.50	96240354	VYELLR2ISO
VOYAGER ELITE ISO LR30	0.70	96240355	VYELLR3ISO
VOYAGER ELITE ISO UP10	0.30	96240347	VYELUP1ISO
VOYAGER ELITE ISO UP20	0.50	96240348	VYELUP2ISO
VOYAGER ELITE ISO UP30	0.70	96240349	VYELUP3ISO

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Voyager

Elite X + XR



www.thornlighting.co.uk/VOYX

A double-sided 11W exit sign with surface mounted and semi-recessed versions



Lamps

TC-SEL (FSD) 2G7 11W

Standards

CE EN 60598 IP30 T_a -5 to +25 850°C

- Choice of legends available with 10, 20 or 30m viewing distances
- Surface mounted and semi-recessed versions available to suit different schemes
- Available with Explorer SelfTest and addressable test for hassle free testing

Materials/Finish

Body: polycarbonate silver (RAL 9006) or white (RAL 9010)
Diffuser: clear polycarbonate
Exit Blade: flame retardant acrylic

Installation/Mounting

Provision for 20mm rear cable entry. European back box mounting options e.g. BESA fixing and recessed ceiling box mounting. Four/six way terminal block 2x2.5mm² capacity. Semi-recessed version: Oval trim hides oval cut-out in ceiling.

Specification

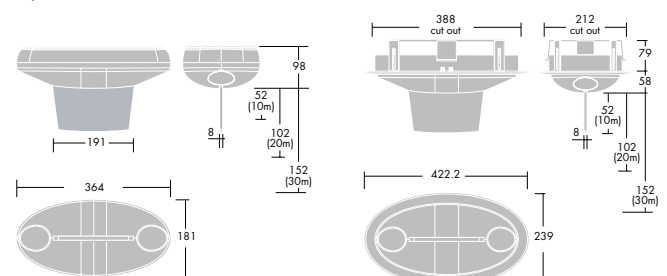
To specify state:
Stylish high performance 3 hour duration IP30 maintained emergency exit sign for 11W TC-SEL compact fluorescent lamps with manual (E3) or selfTest or addressable (E3TX) testing capabilities and up / down / left right 10/20/30m exit blade. As Thorn Voyager Elite X and Elite XR

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Elite X + XR Surface mounted			
VOYAGER ELITE X 1X11W E3M SIL MSF	1.80	96218820	VYELXMSS
VOYAGER ELITE X 1X11W E3M WHI MSF	1.80	96218852	VYELXMWS
Voyager Elite X + XR Semi-recessed			
VOYAGER ELITE XR 1X11W E3M SIL MSR	2.65	96218812	VYELXRMSR
VOYAGER ELITE XR 1X11W E3M WHI MSR	2.65	96218844	VYELXRMSR
Voyager Elite X + XR Legends			
VOYAGER ELITE DN10	0.30	96218878	VYELDN1
VOYAGER ELITE DN20	0.50	96218881	VYELDN2
VOYAGER ELITE DN30	0.70	96218884	VYELDN3
VOYAGER ELITE LR10	0.30	96218879	VYELLR1
VOYAGER ELITE LR20	0.50	96218882	VYELLR2
VOYAGER ELITE LR30	0.70	96218885	VYELLR3
VOYAGER ELITE UP10	0.30	96218877	VYELUP1
VOYAGER ELITE UP20	0.50	96218880	VYELUP2
VOYAGER ELITE UP30	0.70	96218883	VYELUP3
VOYAGER ELITE ISO DN10	0.30	96240350	VYELDN1ISO
VOYAGER ELITE ISO DN20	0.50	96240351	VYELDN2ISO
VOYAGER ELITE ISO DN30	0.70	96240352	VYELDN3ISO
VOYAGER ELITE ISO LR10	0.30	96240353	VYELLR1ISO
VOYAGER ELITE ISO LR20	0.50	96240354	VYELLR2ISO
VOYAGER ELITE ISO LR30	0.70	96240355	VYELLR3ISO
VOYAGER ELITE ISO UP10	0.30	96240347	VYELUP1ISO
VOYAGER ELITE ISO UP20	0.50	96240348	VYELUP2ISO
VOYAGER ELITE ISO UP30	0.70	96240349	VYELUP3ISO

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Voyager Sigma



www.thornlighting.co.uk/VSIG

High performance exit sign with LED and self or central automatic test options



Lamps

	LED	1W
	T5-MF (FDH)	G5 8W

Standards

	EN 60598	IP40	T _a -5 +35	650°C	
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- A hinged steel gear tray makes installation and maintenance easy.
- Available with a choice of ISO or EU exit legend panels
- Printed legend panel clips behind diffuser for easy maintenance
- LED variants utilise "green" NiMh batteries

Materials/Finish

Body: polycarbonate with alternative finishes in either RAL9010 white or RAL9006 metallic silver
Diffuser and legend panel: polycarbonate

Installation/Mounting

Wall mounted with 20mm conduit or rear back box entry.

Specification

To specify state:

Sign for viewing up to 30m distance, maintained operation, available as manual (E3) or self/addressable (E3TX) test capability. 3 hours emergency duration with either 8W T16 lamp or LED strip. With choice of European or International format Exit legends.

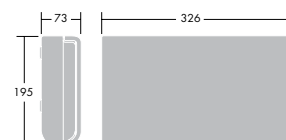
As Thorn Voyager Sigma.

Ordering Guide

Supplied complete with lamp for complete luminaire order body + legend

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Sigma			
VOYAGER SIGMA LED E3M SIL	1.40	96233814	VYSLEDMS
VOYAGER SIGMA LED E3M WHI	1.40	96233813	VYSLEDMW
VOYAGER SIGMA 1X8W T16 E3M SIL	2.10	96233810	VYSMS
VOYAGER SIGMA 1X8W T16 E3M WHI	2.10	96233809	VYSMW
Legends			
VOYAGER SIGMA LEG EU DOWN	0.10	96233876	VYSEUD
VOYAGER SIGMA LEG EU LEFT	0.10	96233877	VYSEUL
VOYAGER SIGMA LEG EU RIGHT	0.10	96233878	VYSEUR
VOYAGER SIGMA LEG EU UP	0.10	96233875	VYSEUU
VOYAGER SIGMA LEG ISO DOWN	0.10	96236786	VYSISD
VOYAGER SIGMA LEG ISO LEFT	0.10	96236787	VYSISL
VOYAGER SIGMA LEG ISO RIGHT	0.10	96236788	VYSISR
VOYAGER SIGMA LEG ISO UP	0.10	96236785	VYSISU

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Voyager

Exel



www.thornlighting.co.uk/VOEX

An 8W IP65 bulkhead with automatic testing capabilities



- Available with Explorer SelfTest and addressable test for hassle free testing
- IP65 protection
- Double sided exit attachment available, supplied complete with legend transfers (viewing distance 16m)
- Surface mounted and semi-recessed versions available to suit different schemes

Materials/Finish

Body: white polycarbonate
Diffuser: clear prismatic polycarbonate
Exit attachment: opal polycarbonate
Trim: mild steel white (RAL 9010)

Installation/Mounting

Surface with 20mm rear cable entry.
BESA fixing to rear. Four/six way terminal block 2x2.5mm² capacity.
Semi-recessed cut-out 370x120mm

Specification

To specify state:
Economical high performance maintained, surface/semi-recessed 3 hour duration emergency bulkhead for 8W T16 (T5) linear fluorescent lamps with Explorer SelfTest or addressable testing capabilities.
As Thorn Voyager Exel.



Lamps

T5-MF (FDH) G5 8W

Standards

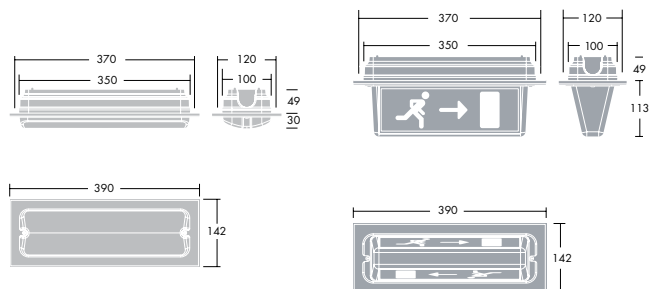
EN 60598 IP65 T_a -5 to +25 850°C

Ordering Guide

Supplied complete with tri-phosphor 4000k lamp.

Description	Wt (kg)	SAP Code	Cat. No.
Surface			
VOYAGER EXEL 1X8W T16 E3NM WHI MSF L840	1.40	96536000	VYEXNMS
VOYAGER EXEL 1X8W T16 E3M WHI MSF L840	1.50	96535998	VYEXMS
Recessed			
VOYAGER EXEL 1X8W T16 E3NM WHI MSR L840		96239638	VYEXNMR
VOYAGER EXEL 1X8W T16 E3M WHI MSR L840		96239636	VYEXMR
Accessories			
VOYAGER EXEL/ECO KIT EDP OP PC	0.50	96013468	VYEXECKIT
VOYAGER EXEL/ECO KIT EDP OP PC ISO	0.50	96242039	VYEXECKITISO
VOYAGER EXEL/ESCORT LEGEND	0.10	96013469	VYEXESLEG
VOYAGER EXEL/ESCORT ISO LEGEND	0.10	96240260	VYEXESLEGISO

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Voyager XXL



www.thornlighting.co.uk/VOXL

A large sign luminaire, legible from up to 43 metres distance.



Lamps

T8 (FD) G13 18W

Standards

CE EN 60598 IP20 T_a25 850°C

- Legend luminance uniformity compliant to EN 1838 pt7
- Wall or ceiling mounted with suspension and wall bracket kits to enable double sided use
- Available with Explorer SelfTest and addressable test for hassle free testing
- Choice of legend transfers supplied

Materials/Finish

Body: steel, white (RAL 9010) enamel finish
Panel: clear polycarbonate

Installation/Mounting

Suitable for wall or ceiling mounting. Accessory kits enable suspension or offset wall mounting. Knock outs for conduit entries at each side, top and base facilitate 'loop in - loop out' wiring, with 'piano key' terminals for 2 x 2,5mm² cables. Supplied with blank panel and set of 4 legends. Legend kit available for double sided use.

Specification

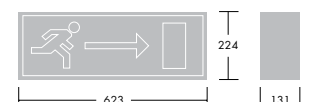
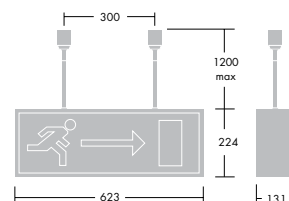
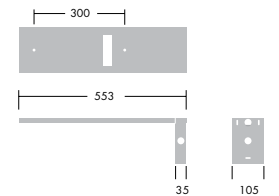
To specify state:
Sign luminaire for viewing at up to 43m distance, maintained/non-maintained/manual test (E3)/Explorer SelfTest/Explorer addressable (E3TX) test, 3 hours emergency duration with 18W T26 linear fluorescent lamp.
As Thorn Voyager XXL

Ordering Guide

Supplied complete with lamp and set of 4 legends

Description	Wt (kg)	SAP Code	Cat. No.
Voyager XXL			
VOYAGER XXL 1X18W T26 E3NM LI	4.00	96211126	VYXNM
VOYAGER XXL 1X18W T26 E3M LI	4.00	96211125	VYXM
Voyager XXL Accessories			
VOYAGER XXL CANT	1.00	96211127	VYXCAN
VOYAGER XXL LEG	0.70	96102631	VYXLEG
VOYAGER XXL LEG ISO	0.70	96242040	VYXLEGISO

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Voyager

LED

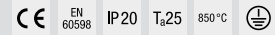


www.thornlighting.co.uk/VOYR

A stylish LED exit sign for internal suspension applications where a simple slim design is required



Standards



- Reduced power consumption compared to T5 8W Exit Signs
- Long-life advantages of LEDs
- 3 hour duration maintained or non-maintained operation
- Choice of legends available with viewing distance 27m, single or double sided

Materials/Finish

Body: extruded aluminium
 Colour: white (RAL 9010)
 Endcaps: polycarbonate white (RAL 9010)
 Exit Blade: engraved flame retardant acrylic

Installation/Mounting

Suitable for small area use and viewing distances not exceeding 27 metres.
 Ceiling version: Mount fixing plate to ceiling and attach body to fixing plate via two quarter turn clips.
 Suspended version: Mount fixing plate to ceiling and suspend via two rods (500mm long, Ø10mm) provided.

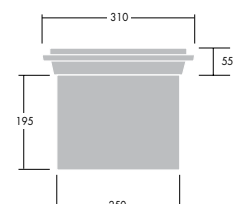
Specification

To specify state:
 Ultra-slim white aluminium bodied maintained / non-maintained LED exit sign with engraved flame retardant acrylic sign blade, for surface / suspended use.
 As Thorn Voyager LED

Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
Surface version			
VOYAGER LED E3NM MCE LI	1.13	96102977	VYLEDNMS
VOYAGER LED E3M MCE LI	1.13	96102976	VYLEDMS
Suspended version			
VOYAGER LED E3NM MSU LI	1.13	96102979	VYLEDNMSUS
VOYAGER LED E3M MSU LI	1.13	96102978	VYLEDMSUS
Legends			
VOYAGER LED LEG DOWN	0.33	96111010	VYLEDLD
VOYAGER LED LEG DOWN2	0.34	96111012	VYLEDLD2
VOYAGER LED LEG LEFT	0.44	96111008	VYLEDLL
VOYAGER LED LEG LEFTRIGHT	0.33	96111011	VYLEDLLR
VOYAGER LED LEG RIGHT	0.35	96111009	VYLEDLR
VOYAGER LED LEG ISO DOWN	0.33	96241763	VYLEDLISO
VOYAGER LED LEG ISO DOWN2	0.34	96241764	VYLEDLD2ISO
VOYAGER LED LEG ISO LEFT	0.44	96241765	VYLEDLISO
VOYAGER LED LEG ISO LEFTRIGHT	0.33	96241766	VYLEDLRIISO
VOYAGER LED LEG ISO RIGHT	0.35	96241767	VYLEDLRIISO
VOYAGER LED LEG ISO UP	0.33	96241768	VYLEDLUIISO

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Voyager

LED Series



www.thornlighting.co.uk/VYLD

Discrete, high performance, LED emergency lighting



- Flexible, can be installed to function as a non maintained, maintained or switched maintained emergency luminaire
- Sustainable, NiMH Battery, environmentally friendly, higher power density
- Efficient, high power LED technology gives excellent performance and spacing, low parasitic power consumption and a long life/low maintenance
- Discreet, good looking, compact with recessed options

Materials/Finish

Surface mounting version - Body: cast aluminium alloy, finished in RAL 9016 white or RAL 9006 metallic silver. Recessed version - aluminium alloy reflector, finished in RAL 9016 white or RAL 9006 metallic silver, polycarbonate housing for battery and control gear.

Installation/Mounting

Surface mounting with rear and side entry. Recessed version cable entry into remote control gear.

Specification

To specify state:

Compact LED based, self contained luminaire, suitable for recessed or surface mounting with optics optimised for Escape Routes, Open Areas and Accent lighting. 3 hours emergency duration from Nickel Metal Hydride batteries, maintained operation. Manual (E3) or self/addressable (E3TX) test capability. As Thorn Voyager LED Series.

Ordering Guide

Description	Wt (kg)	SAP Code	Cat. No.
Area			
VOYAGER C LED AREA KIT E3M	0.50	96548990	VYLEDAMKIT
VOYAGER C LED AREA MCE E3M SIL	0.90	96548982	VYLEDAMSS
VOYAGER C LED AREA MCE E3M WHI	0.90	96548984	VYLEDAMWS
VOYAGER C LED AREA MRE E3M SIL	0.90	96548986	VYLEDAMSR
VOYAGER C LED AREA MRE E3M WHI	0.90	96548988	VYLEDAMWR
VOYAGER C LED AREA KIT E3TX	0.50	96548991	VYLEDAXKIT
VOYAGER C LED AREA MCE E3TX SIL	0.90	96548983	VYLEDAXSS
VOYAGER C LED AREA MCE E3TX WHI	0.90	96548985	VYLEDAXWS
VOYAGER C LED AREA MRE E3TX SIL B	0.90	96548987	VYLEDAXSR
VOYAGER C LED AREA MRE E3TX WHI	0.90	96548989	VYLEDAXWR
Route			
VOYAGER C LED ROUTE KIT E3M	0.50	96548980	VYLEDRMKIT
VOYAGER C LED ROUTE MCE E3M SIL	0.90	96548972	VYLEDRMSS
VOYAGER C LED ROUTE MCE E3M WHI	0.90	96548974	VYLEDRMWS
VOYAGER C LED ROUTE MRE E3M SIL	0.90	96548976	VYLEDRMSR
VOYAGER C LED ROUTE MRE E3M WHI	0.90	96548978	VYLEDRMWR
VOYAGER C LED ROUTE KIT E3TX	0.50	96548981	VYLEDRXKIT
VOYAGER C LED ROUTE MCE E3TX SIL	0.90	96548973	VYLEDRXSS
VOYAGER C LED ROUTE MCE E3TX WHI	0.90	96548975	VYLEDRXWS
VOYAGER C LED ROUTE MRE E3TX SIL	0.90	96548977	VYLEDRXSR
VOYAGER C LED ROUTE MRE E3TX WHI	0.90	96548979	VYLEDRXWR



Lamps

LED 2.7W

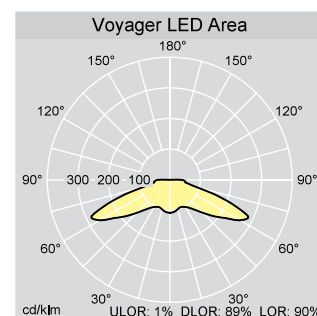
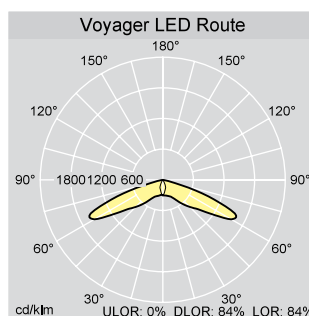
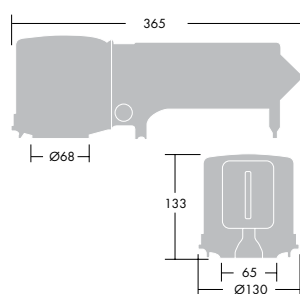
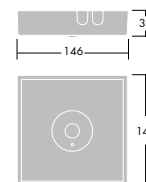
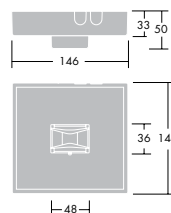
Standards



Description	Wt (kg)	SAP Code	Cat. No.
Spot			
VOYAGER C LED SPOT KIT E3M		96548969	VYLEDSPKIT
VOYAGER C LED SPOT MCE E3M SIL	0.90	96548965	VYLEDSPMSS
VOYAGER C LED SPOT MCE E3M WHI	0.90	96548967	VYLEDSPMWS
VOYAGER C LED SPOT MRE E3M SIL	0.90	96548992	VYLEDSPMSR
VOYAGER C LED SPOT MRE E3M WHI	0.90	96548994	VYLEDSPMWR
VOYAGER C LED SPOT KIT E3TX		96548970	VYLEDSPKIT
VOYAGER C LED SPOT MCE E3TX SIL	0.90	96548966	VYLEDSPXSS
VOYAGER C LED SPOT MCE E3TX WHI	0.90	96548968	VYLEDSPXWS
VOYAGER C LED SPOT MRE E3TX SIL	0.90	96548993	VYLEDSPXSR
VOYAGER C LED SPOT MRE E3TX WHI	0.90	96548995	VYLEDSPXWR

Accessory			
VOYAGER C LED MCE BESA	0.20	96548971	VYLEDSPBESA

To make reading our ordering guides easier please use the SAP description key fold out, inside the front and back cover. For more information please visit our website www.thornlighting.co.uk and simply search our products.



Voyager

E LED



www.thornlighting.co.uk/VOEL

An LED based, IP65 rated, emergency luminaire range comprising two models, a bulkhead and exit sign, both offering low maintenance



Lamps

LED 1.2-2.4W

Standards

CE EN 60598 IP65 IK10 T_a-5₊₂₅ 850°C

- Suitable for escape route and anti-panic (open area) lighting applications
- 3 hour maintained and non maintained LED bulkhead
- 3 hour maintained exit sign features an integrated door illumination panel
- Bulkheads supplied with a set of adhesive ISO legends and exit sign supplied with down arrow ISO legend

Materials/Finish

Bulkhead
Body: white polycarbonate
Diffuser: opal polycarbonate
Gear tray: polycarbonate

Exit sign
Body/gear tray: white painted steel
Panel: polycarbonate

Installation/Mounting

Bulkhead: Surface with Ø20mm cable entry each end. Drill points for mounting on recessed ceiling or wall boxes including BESA. 3/4 way terminal block 2x1.5mm² or 1x4mm² capacity.
Exit sign: Wall mounting with Ø20mm cable entry top and rear. Screw fixings (3) on rear. 3/4 way terminal block 2x1.5mm² or 1x4mm² capacity.

Specification

To specify state:
Economical self-contained surface IP65 emergency bulkhead for maintained/non-maintained emergency lighting of 3 hour duration, with LED lamp and self adhesive legends.
As Thorn Voyager E Bulkhead LED

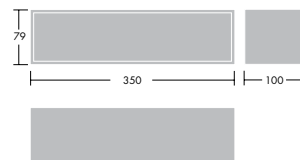
To specify state:
Economical wall mounted maintained 3 hour duration emergency exit sign IP20 with LED lamp, door illumination panel, down arrow ISO legend and epoxy coated mild steel construction.
As Thorn Voyager E Exit Sign LED

Ordering Guide

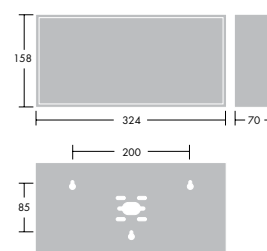
Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Voyager E LED Luminaires			
VOYAGER E LED BULKHEAD E3NM	0.78	96241056	VYELEDBNM
VOYAGER E LED BULKHEAD E3M	0.78	96241057	VYELEDBM
VOYAGER E LED EXIT SIGN BOX	1.68	96241058	VYELEDXIT
Voyager E LED Exit Sign Box Legends			
VOYAGER SIGMA LEG EU DOWN	0.10	96233876	VYSEUD
VOYAGER SIGMA LEG EU LEFT	0.10	96233877	VYSEUL
VOYAGER SIGMA LEG EU RIGHT	0.10	96233878	VYSEUR
VOYAGER SIGMA LEG EU UP	0.10	96233875	VYSEUU
VOYAGER SIGMA LEG ISO DOWN	0.10	96236786	VYSISD
VOYAGER SIGMA LEG ISO LEFT	0.10	96236787	VYSISL
VOYAGER SIGMA LEG ISO RIGHT	0.10	96236788	VYSISR
VOYAGER SIGMA LEG ISO UP	0.10	96236785	VYSISU

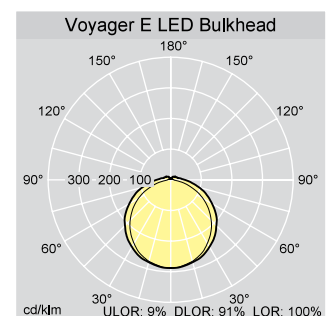
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VOYAGER LED BULKHEAD



VOYAGER LED EXIT SIGN



Voyager

E Bulkhead



www.thornlighting.co.uk/VOEB

An IP65 rated 8W emergency bulkhead with optional attachment enabling use as a double sided exit sign



Lamps

	T5 (FDH)	G5	8W
	T5-MF (FDH)	G5	8W

Standards



- IP65 bulkhead supplied with lamp and self adhesive legend kit (viewing distance 15m)
- Suitable for escape routes and open areas
- 3 hour maintained or non-maintained emergency operation with manual testing
- Durable polycarbonate construction

Materials/Finish

Body: polycarbonate (colour similar to RAL 9003)
 Diffuser: polycarbonate, prismatic
 Gear tray: mild steel (colour similar to RAL 9003)

Installation/Mounting

Surface with Ø20mm cable entry each end and rear. Drill points for mounting on recessed ceiling or wall boxes including BESA. 3/4 way terminal block 2x1.5mm² or 1x4mm² capacity.

Specification

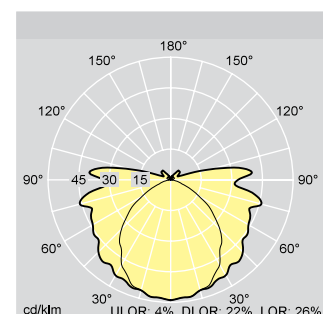
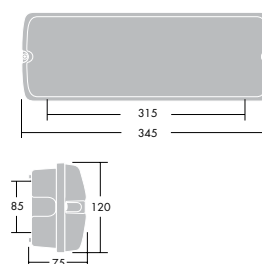
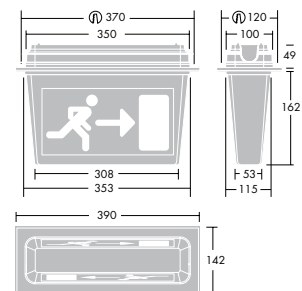
To specify state:
 Economical self-contained surface IP65 emergency bulkhead for maintained / non-maintained emergency lighting of 3 hour duration, with 8W T16 lamp and self adhesive legends.
 As Thorn Voyager E Bulkhead

Ordering Guide

Supplied complete with lamp and legends

Description	Wt (kg)	SAP Code	Cat. No.
Voyager E Bulkhead			
VOYAGER E BULKHEAD E3M	1.27	96502952	VYEBM
VOYAGER E BULKHEAD E3NM	0.90	96502953	VYEBNM
VOYAGER E KIT EDP OP PC	0.50	96237078	VYEKIT

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Voyager

E Exit Sign



www.thornlighting.co.uk/VOEE

Maintained 8W emergency exit sign for wall mounting



Lamps

T5-MF (FDH) G5 8W

Standards

CE EN 60598 IP20 T_a 0 +25 850°C

- Suitable for escape routes and open areas
- Integrated door illumination panel
- Supplied complete with lamp and three legend panels (down, left and right, viewing distance 37m)
- 3 hour duration

Materials/Finish

Body / gear tray: mild steel (colour similar to RAL 9003)
Panel: polycarbonate

Installation/Mounting

Wall mounting with Ø20mm cable entry top and rear. Screw fixings (3) on rear. 3/4 way terminal block 2x1.5mm² or 1x4mm² capacity.

Specification

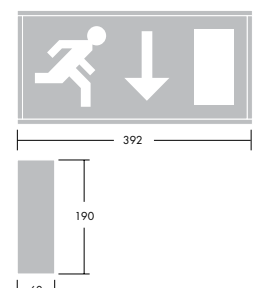
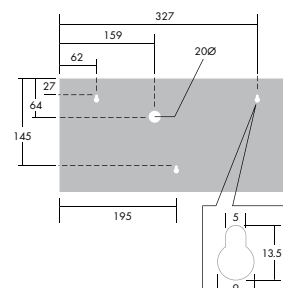
To specify state:
Economical wall mounted maintained/non-maintained 3 hour duration emergency exit sign with 8W T16 linear fluorescent lamp, door illumination panel and epoxy coated mild steel construction.
As Thorn Voyager E Exit Sign

Ordering Guide

Supplied complete with lamp and legends

Description	Wt (kg)	SAP Code	Cat. No.
Voyager E Exit Sign			
VOYAGER E EXIT E3M	2.60	96502954	VYEMEXIT

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Voyager

Escort



www.thornlighting.co.uk/VOES

IP65 rated bulkhead with emergency and mains only versions, for surface mounting



Lamps

T5-MF (FDH) G5 8W

Standards

CE EN 60598 IP65 T_a -5 to +25 850°C

- Durable cast alloy construction for interior and exterior usage
- Maintained, non-maintained, Explorer SelfTest and addressable test versions
- Non emergency versions available (standard mains bulkhead 2x8W, 3x8W, 1x11W & 2x11W)

Materials/Finish

Diffuser: opal polycarbonate with vandal resistant screws
Control gear: switch start (mains versions)

Installation/Mounting

Direct wall or ceiling mounting. Drill points on rear for ceiling/wall box/BESA mounting. Ø20mm cable entry at either end and 4 fixing points. 3 way terminal block, 2x2.5mm² capacity (mains versions and non-maintained). 4/6 way terminal block, 2x2.5mm² capacity (maintained/addressable). Cable gland and blanking grommets (2) supplied.

Specification

To specify state:
Self-contained exterior bulkhead with 8W T16 fluorescent lamp for non-maintained/maintained (E3) or SelfTest/Addressable test (E3TX) emergency lighting of 3 hour duration or 2/3x8W T16 / 1/2x11W TC-S lamps for standard mains operation. Cast aluminium body and opal polycarbonate diffuser. IP65.

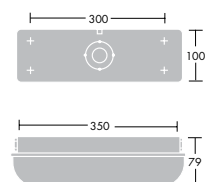
As Thorn Voyager Escort

Ordering Guide

Supplied complete with lamp. Legend transfers to be ordered separately.

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Escort			
VOYAGER ESCORT 1X8W T16 E3NM OP WHI	2.40	96233682	VYESNM
VOYAGER ESCORT 1X8W T16 E3T OP WHI	1.90	96233683	VYEST
VOYAGER ESCORT 1X8W T16 E3TX OP WHI L		96503792	VYESX
VOYAGER ESCORT 1X8W T16 E3M OP WHI	1.50	96233681	VYESM

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Voyager

Twin Spot

www.thornlighting.co.uk/VOYT

A non-maintained, tungsten halogen twin spot luminaire for large open area and high risk applications



Lamps

	QT 12 (HSG)	GY6.35	55W
	QT 9	G4	20W

Standards



- Switches to emergency operation instantaneously (<250mS) - ideal for high risk areas such as machine shops, control rooms and intensive care units
- Adjustable head to match light output to application
- 3 hour duration for 20W versions, 1 hour for 55W ratings
- Maintenance free 12V batteries - sealed lead acid 4-7 year design life
- 24 hour recharge period
- Low voltage cut off, thermal and reverse polarity protection
- Weatherproof IP65 versions available

Materials/Finish

IP20: mild steel enclosure
IP65: polycarbonate enclosure

Installation/Mounting

IP20: Enclosure has an easy access front panel.

IP65: Enclosure has screw locked front panel seal. Lamps separately supplied on angle brackets, with glands for wiring remotely to the enclosure. Glanding points on side for cable gland fixing.

Cable entry: provision for 20mm knockouts.

Current consumption: 0.1A

Units should be mounted at least 30° above the line of sight.

Specification

To specify state:

Twin spot luminaire for 20, 55W tungsten halogen twin lamps with adjustable head in the horizontal and vertical planes and IP65 version.

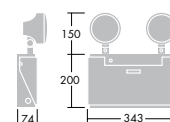
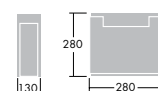
As Thorn Voyager Twin Spot.

Ordering Guide

Supplied complete with lamps except dimmable versions

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Twin Spot			
VOYAGER TWINSPOT 2X20W E3NM IP20 LI	8.56	96004128	VYTS203NMIP20
VOYAGER TWINSPOT 2X20W E3NM IP65 LI	8.52	96102984	VYTS203NMIP65
VOYAGER TWINSPOT 2X55W E1NM IP20 LI	9.00	96211175	VYTS551NMIP20
VOYAGER TWINSPOT 2X55W E1NM IP65 LI	8.17	96211177	VYTS551NMIP65

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GENERAL INFORMATION



Help and Advice



General Information

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Safety and Quality

Thorn Lighting is committed to providing its customers with products and services that are of the highest quality, ensuring safety, reliability and performance.

Our expertise in meeting these goals is recognised internationally. Thorn is an active participant in developing the European and International Standards which are used through the Lighting Industry and that third party endorsements, such as BSI approvals/registrations are based upon.

Quality Assurance (BSEN/ISO 9000)

All activities associated with providing a quality product - design, development, testing, production, despatch, customer service - are covered by BSEN/ISO 9000. The Group's site at Spennymoor, including UK Distribution, is registered by IQNET to the highest standard, ISO 9001. Additional operations in Europe also operate to the same exacting standards and have achieved EN ISO9001 quality system registration.

Quality in test and measurement has been further assessed by BSI, under the scheme of Photometric registration and BSEN ISO/IEC 17025 - Operation of testing laboratories. In-house test facilities cover all aspects of lighting product performance and safety and are considered to be amongst the finest in the world.

Environment & Sustainability

Thorn takes seriously its drive to reduce the environmental impact of its business and products. Our ISO 14001 certification for the European factories demonstrates this commitment, ensuring our environmental management meets the highest standards. Acknowledging our responsibility for the environment by having an Environmental Management System means we can identify and target aspects of our business that impact on the environment and relevant legislation. As part of our sustainability programme we then produce objectives for improvement and our management programme supports this with regular reviews for continual improvement.



European Harmonisation

For luminaires and lighting components, European harmonisation of national approval marks (above) has been achieved through introduction of the ENEC mark.

The ENEC mark may be awarded by any one of the recognised European approval authorities, such as BSI, VDE or SEMKO, in the same way as a national approval mark. ENEC is important however, because it indicates that the product is suitable for use throughout Europe and that all of the most onerous special national conditions of test standards have been complied with.

In the case of lighting components such as ballasts, transformers, emergency lighting units etc. the ENEC mark indicates that both safety and performance standards have been complied with.



CE The CE mark signifies that a product conforms with the requirements of relevant EEC directives. The prime purpose of the mark is to assist customs and market inspectors in facilitating the free trading and movement of products within the EEC.

At this time the directives appropriate to general lighting products are the Low Voltage Directive (LVD), the Electromagnetic Compatibility (EMC) Directive and the Energy Related Products Directive (ErP), WEEE (Waste of Electrical and Electronic Equipment Directive) and RoHS (Restriction of Hazardous Substances).

CE marking is compulsory to indicate LVD, EMC, RoHS and ErP conformity.

Thorn Lighting's comprehensive compliance with all relevant standards, and implementation of systems to meet them, means its products automatically comply with these directives.

WEEE compliance and approach

Thorn fully complies with the WEEE Directive

The latest recast of the Waste of Electrical and Electronic Equipment Directive, 2012/19/EU, came into force on 13th August 2012.

Thorn have joined an approved compliance scheme run by Lumicom, a not-for-profit organisation set up by the Lighting Industry Federation to administer the WEEE Directive on behalf of the professional lighting manufacturers in the UK. As a member of an approved compliance scheme Thorn has been given a registration number, WEE/KG0108WX. Since the 1st July 2007 Thorn have been paying its WEEE provider, Lumicom, to manage the collection, recycling and disposal of luminaires.

What does the WEEE directive mean for customers of Thorn Lighting?

Thorn Lighting is paying for its responsibility under the directive by paying on a per luminaire basis. For every luminaire that Thorn puts onto the market, as a Producer under the terms of the WEEE Directive, it pays a fee to Lumicom. Therefore you can be sure that every Thorn product you specify or buy is covered in the future under the WEEE Directive. Lumicom will collect, recycle and dispose of Thorn luminaires. There will be no charges from Thorn to cover the cost of collection, recycling and disposal of waste Thorn luminaires at the end of their life. The future cost is covered by the small upfront charge made at the initial sale of the luminaires.

Historic Waste

Luminaires stripped out of a building that were manufactured prior to 13th August 2005 are regarded as Historic Waste. As a responsible manufacturer Thorn is also taking responsibility for any products, regardless of the manufacturer, put onto the market before 13th August 2005 as long as the luminaires purchased to replace the old luminaires are manufactured by Thorn.

Products manufactured after 13th August 2005.

These products are identified by the crossed out wheelee-bin symbol. These products are the responsibility of the manufacturer regardless of whose products they are being replaced by.

Lamps and Batteries

Thorn is not responsible for the collection, recycling and disposal of lamps. They are the responsibility of the lamp manufacturer marked on the lamp. Most lamps are returned via the Recolight Scheme at www.recolight.com. Batteries are not deemed as WEEE but are covered by the Battery Directive, under the Directive Thorn operate a take back service.

All products returned must have their lamps and any batteries removed before return.

RoHS

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment is an EU directive, and products purchased within the European Union must conform to these restrictions.

Certain exemptions exist including mercury in lamps, lead in the glass of fluorescent tubes and nickel cadmium in batteries for emergency lighting products. However, these exempted items are still required to be correctly disposed of.

Therefore when purchasing exempted items it is important to ascertain how these items will be managed at their end of life, and when removing exempted items it must be ensured that they are handled separately

Assurance of Safety

Under the Consumer Protection Act 1987, it is unlawful to make, or hold in stock, or to offer for sale any electrical appliance that is unsafe. In order to give assurance that lighting products are safe, manufacturers have two options:

1. To mark with the symbol of a third party approval authority.

This is a mark of guarantee endorsed by an independent testing authority. The mark guarantees that compliance has been checked by an independent test house and that third party monitoring of the producing factory's quality system has been undertaken.

2. Self certification

The manufacturer claims that the product is safe and fit for purpose. The value of such a claim is directly related to the standing of the firm making it. In the case of Thorn Lighting, all products are designed, developed, tested and manufactured under the scope of BSEN/ISO 9000 quality systems that are registered and audited by independent third parties.

Consequently Thorn products, approval marked or not, are designed, tested and manufactured to the same exacting standards - not all companies apply this principle.

Safety and Quality Standards

Standards

Some of the relevant British Standards, together with their European and International equivalents, relating to lighting are listed in the table.

Subject	British Standard	European Standard	International Standard
Luminaires - Safety	BS EN 60598	EN 60598	IEC 60598
Luminaire Track Systems - Safety	BS EN 60570	EN 60570	IEC 60570
Luminaires - Performance (General)	DD IEC PAS 62772-1	No Standard	IEC PAS 62772-1
Luminaires - Performance (LED)	DD IEC PAS 62772-2-1	No Standard	IEC PAS 62772-2-1
Luminaires - IK Code (Impact Resistance)	BS EN 62262	EN 62262	IEC 62262 + IEC/TR 62696
EMC Emissions - Lighting	BS EN 50015	EN 55015	CISPR 15
EMC Immunity - Lighting	BS EN 61547	EN 61547	IEC 61547
EMC Harmonic - Currents	BS EN 61000-3-2	EN 61000-3-2	IEC 61000-3-2
EMC Voltage Fluctuation/Flicker	BS EN 61000-3-3	EN 61000-3-3	IEC 61000-3-3
EMF - Lighting Equipment	BS EN 62493	EN 62493	IEC 62493
Photo-biological Safety - Lamps	BS EN 62471	EN 62471	IEC 62471
Control Gear - Safety	BS EN 61347	EN 61347	IEC 61347
LED Modules - Safety	BS EN 62031	EN 62031	IEC 62031
LED Modules - Performance	DD IEC PAS 62717	No Standard	IEC PAS 62717
Fluorescent Lamps - Safety	BS EN 60081 / BS EN 61199	EN 60081 / EN 61199	IEC 60081 / IEC 61199
HID Lamps - Safety	BS EN 62035	EN 62035	IEC 62035
Quality Management Systems	BS EN ISO 9001	EN ISO 9001	ISO 9001
Environmental Management Systems	BS EN ISO 14001	EN ISO 14001	ISO 14001
Code of Practice - Emergency Lighting	BS 5266 / BS EN 1838	EN 1838	
Photometric Measurements/Data	BS EN 13032	EN 13032	CIE 121
Lighting Columns	BS 5649	EN 40	

Safety Classifications

The following provides an explanation of some of the most common classifications applied to luminaires:



Class I

Luminaires in this class are electrically insulated and provided with a connection to earth. Exposed metal parts that could become live in the event of basic insulation failure are protected by earthing.



Class II

Class II luminaires are designed and constructed so that protection against electric shock does not rely on basic insulation only. This can be achieved by means of reinforced or double insulation. No provision for earthing is provided.



Class III

Protection against electric shock relies on supply at Safety Extra - Low Voltage (SELV) and in which voltages higher than those of SELV are not generated (max. 50V ac rms).



Luminaires not suitable for covering with thermally insulating material

Note. Previously luminaires suitable for covering with thermally insulating material displayed the F mark. This has been replaced by this warning symbol.



Luminaires not suitable for direct mounting on normally flammable surfaces (i.e. suitable only for mounting on non-combustible surfaces)

Note. Previously luminaires suitable for mounting on normally combustible surfaces displayed the F mark. This has been replaced by this warning symbol.



Ta classification

Denotes the maximum ambient temperature in which the luminaire is suitable for use. No Ta mark indicates suitable for use in max. 25 °C ambients.



850 °C hot wire

Abbreviation for compliance with glow wire test for plastic parts tested at the stated temperature.

Emergency Lighting

See also pages 532-559.

Emergency lighting is provided when the supply to the mains lighting fails. It helps people avoid panic, restores their confidence and guides them quickly and safely out of the building.

Thorn Lighting offers a wide range of emergency lighting luminaires. These may be integrated standard luminaires or separate dedicated emergency units.

Thorn luminaires are supplied complete with electronic gear for d.c. operation, white fluorescent tubes and nickel cadmium batteries (unless otherwise stated).

A test record card is included so that a maintenance programme can be followed in accordance with the Code of Practice BS 5266.

All Thorn emergency products carry a tamper-evident holographic security label, on both the product and the outer carton. This gives the customer a guarantee of an authentic Thorn emergency lighting product.



Ingress Protection

The ingress protection (IP) code denotes the protection against dust, solid objects and moisture provided by the luminaire enclosure. If no code is marked the luminaire is deemed to be IP20.

Ingress protection (IP) code

- i) First digit of code denotes protection against dust and solid objects
 - IP2X No entry of standard test finger to live parts
 - IP3X No entry of 2.5mm ø probe to the enclosure/live parts
 - IP4X No entry of 1mm ø probe to the enclosure/live parts
 - IP5X Dust proof. (no dust deposit around live parts)
 - IP6X Dust tight (no dust entry)
- ii) Second digit of code denotes protection against moisture
 - IPX0 No special protection
 - IPX1 Protection against drops of condensed water
 - IPX2 Drip-proof (vertical falling drops of liquid)
 - IPX3 Rain-proof (rain up to angles of 60°)
 - IPX4 Splash proof (spray from any angle)
 - IPX5 Water jet
 - IPX6 Strong Water jet
 - IPX7 Temporary immersion up to 1m
 - IPX8 Long-term immersion to declared depth

Impact Resistance

The use of Joules (Newton metres - Nm) has been common for many years.

More recently an IK rating normally used for electrical enclosures and cabinets (EN 50102:1995) has emerged as manufacturers apply it to their luminaires, as they also enclose electrical circuits. This chart compares both ratings:

IK rating	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact Energy (Joules)	0.15J	0.23J	0.35J	0.5J	0.7J	1J	2J	5J	10J	20J

Lighting for people using Display Screen Equipment

Readers are referred to The Society of Light and Lighting's (SLL) Lighting Guides 3 and 7 (LG3 & LG7), published in 1996 (an addendum was issued in 2001) and 2005 respectively and to EN 12464-1:2011 which updates some elements of the advice they contain.

LG7

SLL LG7 offers advice on all aspects of lighting design concerned with office spaces and ancillary areas, and for areas using display screen equipment. An addendum published in July 2012 harmonises the document with the requirements in EN 12464-1:2011. The document has two main criteria that have to be addressed. The first is the decision that the designer has to take over the required luminance limit of the optic to be used (all luminance limits are based on an average value taken radially around the luminaire at an angle of 65°). The limits for luminance relate to the type of screen and its anti-reflective treatment, together with the software type in use. (See below).

Luminance limits for screen types:

Screen High State Luminance	>200cd/m ²	<200cd/m ²
Case A	3000cd/m ²	1500cd/m ²
Case B	1500cd/m ²	1000cd/m ²

Case A means Positive polarity software and normal requirements concerning colour and detail, such as used in office, education etc.

Case B means negative polarity and/or higher requirements concerning colour and detail, such as used for CAD colour inspection, etc.

Note: Screen high state luminance (see ISO 9241-302) describes the maximum luminance of the white part of the screen and this value is available from the manufacturer of the screen.

The second criteria concern the illuminance to the major surfaces within the room. In all enclosed places the maintained illuminance on the major surfaces shall be:

$E_m > 50 \text{ lx}$ with $U_o > 0.1$ on the walls and
 $E_m > 30 \text{ lx}$ with $U_o > 0.1$ on the ceiling

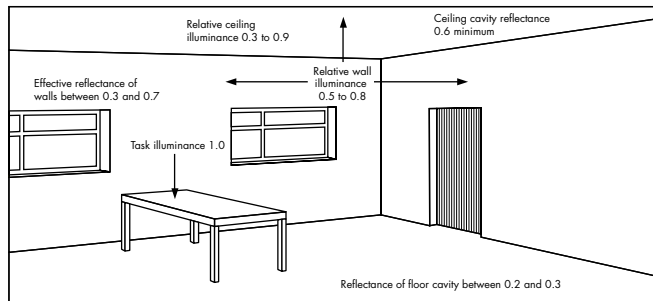
It is recognised that in some applications such as racked storage, heavy industrial premises, travel terminals, generally due to the size, complexity and operational constraints the desired light levels on these surfaces may not be achievable. In such cases reduced levels are acceptable. In some applications such as offices, education, health care and general areas of entrance, corridors, stairs the walls and ceiling need to be brighter to aid good communications. In these places it is recommended that the maintained illuminance on the major surfaces should be:

$E_m > 75 \text{ lx}$ with $U_o > 0.1$ on the walls and
 $E_m > 50 \text{ lx}$ with $U_o > 0.1$ on the ceiling.

LG7 recognises that it is hard to achieve the luminance ratios mentioned above in large open plan offices with low ceilings so it makes this statement:

"For the ceiling not to appear dark, the average illuminance on the ceiling, from both the direct and reflected components, should be at least 30% of the average horizontal illuminance across the working plane. In large spaces with ceilings less than 2.4m high this may be hard to achieve. If there is no alternative to using recessed luminaires, the ceiling illuminance ratio should still be as close to 30% as possible. It is likely that where ceiling illuminance ratios are lower than 30% a poor visual environment will result. Where reflected light is not sufficient to achieve these levels, additional light from the sides of surface mounted downlights; from uplighting elements of suspended luminaires; from dropped elements of recessed downlights or from supplementary uplights may be needed".

Copies of LG7 can be purchased on-line at www.cibse.org/publications



Colour Rendering

The European Lighting Application Standard EN 12464-1:2011 and new SLL Lighting Code give design advice concerning minimum colour rendering index figures (Ra). Besides specific Ra's, recommended in the schedule for various task types, all continuously occupied spaces, that are used for

more than two hours, should employ light sources with an Ra of not less than 80. An exception is made for high bay applications where high pressure sodium lamps are accepted.

Local Energy Legislation

The current version of Approved Document L of the Building Regulations for England and Wales, which includes limits on the energy efficiency of lighting in domestic and non-domestic buildings, came into force on October 1, 2010. The amended documents have been published and will come into force on 6th April 2014. Advice on compliance can be obtained by Thorn offices.

Climate Change Legislation

Climate Change Levy (CCL) and Enhanced Capital Allowances (ECA). Having chosen the fiscal route to encourage UK commerce and industry to use less energy the UK Government introduced the CCL on all non-domestic energy use in April 2001. To enable businesses to claim 100% first year capital allowances on investments in energy saving equipment the ECA scheme was introduced from 7 August 2001. Businesses are now able to write off the whole cost of their investment against their taxable profit of the period during which they make the investment. Qualifying products have to meet minimum performance targets issued in August 2013. Thorn can help with performance figures for the majority of its luminaires, LED luminaires and controls, which are detailed on the company website.

Luminaires for Hazardous Areas

The Atex Directive is a mandatory requirement for all hazardous equipment sold in the EU.

Atex Category 1 applies to areas where the risk of explosion is constantly present. Atex Category 2 applies to areas where there is a risk of explosion during normal operation of a building or plant.

Atex Category 3 applies to areas where there will only be occasional risk of explosion and only during abnormal operation conditions.

Thorn offers product suitable for Category 2 or 3 areas.

Lamp Guide

Here we have summarised the main features of lamps used in the Thorn range of luminaires.

Note: lamp manufacturers should be consulted for up-to-date data

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp Wattage W	Typical CCT (K)	CIE colour render group	Rated life (hours)	Initial lamp lumens at 25°C (lm)			Luminous efficacy (lm/W)	Initial lamp lumens at 35°C (lm)							
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips																
Fluorescent lamps																							
<i>Linear fluorescent Triphosphor (other colour temperatures available especially 6500K) Note: other lamps especially long-life types are available from other suppliers</i>																							
U	152mm	T16	FDH	T5 (T16)	G5	T5 Miniature Bi-Pin	-	-	4	3000-4100	2	5000	-	-	100	-	-	25.0	-	-	-		
	229mm	T16	FDH	T5 (T16)	G5	T5 Miniature Bi-Pin	Basic T5 Short EL	-	6	4100-6500	2	5000	5000	-	235	270	-	39.2	45	-	-		
	288mm	T16	FD	T5 (T16)	G5	T5 Miniature - Triphosphor	LUMILUX T5 short	MASTER TLMini Super 80	8	2700-4000	1B	5000	8000	10000	460	430	470	57.5	53.8	58.8	-		
	517mm	T16	FD	T5 (T16)	G5	T5 Miniature Bi-Pin	LUMILUX T5 short	Master T5 High Efficiency Eco	13	2700-3000	1B	25000	5000	25000	1240	950	1150	95.4	73	88.5	-		
	549mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	14	2700-4000	1B	30000	24000	24000	1250	1200	1250	96.4	1350	1350	1350		
	849mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	21	2700-4000	1B	30000	24000	24000	2100	1900	1900	100.0	2100	2100	2100		
	1149mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	28	2700-4000	1B	30000	24000	24000	2900	2600	2625	103.6	2900	2900	2900		
	1449mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	35	2700-4000	1B	30000	24000	24000	3650	3320	3325	104.3	3650	3650	3650		
	549mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	24	2700-4000	1B	30000	24000	24000	1840	1750	1750	83.3	83.3	81.3	2000	2000	1950
	849mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	39	2700-4000	1B	30000	24000	24000	3220	3100	3100	89.7	3500	3500	3500		
	1449mm	T16	FDH	T5 (T16)	G5	-	T5 LUMILUX HO	MASTER T5 HO	49	2700-4000	1B	-	24000	24000	-	4310	4375	-	100.0	100.0	4900	4900	4900
	1449mm	T16	FDH	T5 (T16)	G5	Ecolum Starcoat T5	T5 LUMILUX HE	MASTER T5 HE	54	2700-4000	1B	30000	24000	24000	4600	4450	4450	92.6	5000	5000	5000		
1449mm	T16	FDH	T5 (T16)	G5	T5 Longlast HO	T5 LUMILUX HO	MASTER T5 HO	80	2700-4000	1B	30000	24000	24000	7000	6150	6550	87.5	7000	7000	7000			
438mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR	T8 LUMILUX	MASTER TL-D Super 80	15	2700-4000	1B	15000	20000	20000	1000	950	1000	66.7	63.3	66.7	-			
590mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR Longlast	T8 LUMILUX	MASTER TL-D Super 80	18	2700-4000	1B	24000	20000	20000	1350	1350	1350	75.0	-	-	-			
895mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR	T8 LUMILUX	MASTER TL-D Super 80	30	2700-4000	1B	15000	20000	20000	2450	2400	2400	81.7	80.0	80.0	-			
1200mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR Longlast	T8 LUMILUX	MASTER TL-D Super 80	36	2700-4000	1B	24000	20000	20000	3350	3350	3350	93.1	-	-	-			
1500mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR Longlast	T8 LUMILUX	MASTER TL-D Super 80	58	2700-4000	1B	24000	20000	20000	5200	5200	5240	89.7	89.7	90.3	-			
1764mm	T26	FD	T8 (T26)	G13	T8 PolyLux XLR	T8 LUMILUX	MASTER TL-D Super 80	70	3000-4000	1B	15000	20000	20000	6000	6200	6200	85.7	88.6	88.6	-			
Linear fluorescent Multi-phosphor																							
590mm	T26	-	T8 (T26) 18W	G13	-	T8 LUMILUX DE LUXE	MASTER TL-D 90 De Luxe	18	3000-4000	1A	20000	-	1200	1200	-	66.7	66.7	-	-				
1200mm	T26	-	T8 (T26) 36W	G13	-	T8 LUMILUX DE LUXE	MASTER TL-D 90 De Luxe	36	3000-4000	1A	20000	-	2900	2800	-	80.6	77.8	-	-				
1500mm	T26	-	T8 (T26) 58W	G13	-	T8 LUMILUX DE LUXE	MASTER TL-D 90 De Luxe	58	3000-4000	1A	20000	-	4600	4600	-	79.3	79.3	-	-				
Circular fluorescent																							
O	225mm	T16-R	FSCH	T5C (T16-R)	2GX13	-	Lumilux T5 FCE	MASTER T5 Circular	22	2700-4000	1B	12000	-	1900	1800	-	86.4	81.8	-	-			
	300mm	T16-R	FSCH	T5C (T16-R)	2GX13	-	Lumilux T5 FCE	MASTER T5 Circular	40	2700-4000	1B	12000	-	3400	3300	-	85.0	82.5	-	-			
	300mm	T16-R	FSCH	T5C (T16-R)	2GX13	-	Lumilux T5 FCE	MASTER T5 Circular	55	2700-4000	1B	12000	-	4200	4200	-	76.4	76.4	-	-			
	375mm	T16-R	FSCH	T16-RI 60W	2GX13	-	-	MASTER T5 Circular	60	3000-4000	1B	12000	-	5000	-	-	83.3	-	-	-			
Compact fluorescent non-integrated ballast																							
U	-	TC-S	FSD	2L 2-pin	G23	Biox S	DULUX S	MASTER PL-S 2 pin	5	2700-4000	1B	10000	-	265	250	295	53.0	50.0	59.0	-			
	-	TC-S	FSD	2L 2-pin	G23	Biox S	DULUX S	MASTER PL-S 2 pin	7	2700-4000	1B	10000	-	425	400	405	60.7	57.1	57.9	-			
	-	TC-S	FSD	2L 2-pin	G23	Biox S	DULUX S	MASTER PL-S 2 pin	9	2700-4000	1B	10000	-	600	600	583	66.7	66.7	64.8	-			
	-	TC-S	FSD	2L 2-pin	G23	Biox S	DULUX S	MASTER PL-S 2 pin	11	2700-4000	1B	10000	-	900	900	893	81.8	81.8	81.2	-			
	-	TC-SEL	FSD	2L 4-pin	2G7	-	-	MASTER PL-S 4 pin	5	2700-4000	1B	-	-	10000	-	250	-	-	-	50.0	-		
	-	TC-SEL	FSD	2L 4-pin	2G7	-	DULUX S/E	MASTER PL-S 4 pin	7	2700-4000	1B	-	20000	10000	-	400	400	-	57.1	57.1	-		
	-	TC-SEL	FSD	2L 4-pin	2G7	Biox S/E	DULUX S/E	MASTER PL-S 4 pin	9	2700-4000	1B	10000	20000	10000	600	600	483	66.7	66.7	64.8	-		
	-	TC-SEL	FSD	2L 4-pin	2G7	Biox S/E	DULUX S/E	MASTER PL-S 4 pin	11	2700-4000	1B	10000	20000	20000	900	900	900	81.8	81.8	-			
	-	TC-L	FSD	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	18	2700-4000	1B	10000	20000	20000	1250	1200	1200	69.4	66.7	66.7	-		
	-	TC-L	FSD	2L 4-pin	2GX11	-	DULUX L HE	-	22	3000-4000	1B	-	20000	-	-	2055	-	-	93.4	-	-		
	-	TC-L	FSD	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	24	2700-4000	1B	10000	20000	20000	1800	1800	1800	75.0	75.0	-			
	-	TC-L	FSD	2L 4-pin	2GX11	-	DULUX L HE	-	26	3000-4000	1B	-	20000	-	-	2470	-	-	95.0	-	-		
-	TC-L	FSD	2L 4-pin	2GX11	-	DULUX L HE	-	28	3000-4000	1B	-	20000	-	-	2700	-	-	96.4	-	-			
-	TC-L	FSD	2L 4-pin	2G11	High Lumen BiOX	-	-	34	2700-4000	1B	10000	-	-	2800	-	-	82.4	-	-	-			
-	TC-L	FSD	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	36	2700-4000	1B	10000	20000	20000	2900	2900	2900	80.6	80.6	-				
-	TC-L	FSDH	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	40	2700-4000	1B	10000	20000	20000	3500	3500	3500	87.5	87.5	-				
-	TC-L	FSDH	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	55	2700-4000	1B	20000	-	-	4800	4800	4800	87.3	87.3	-				
-	TC-L	FSDH	2L 4-pin	2G11	High Lumen BiOX	DULUX L LUMILUX	MASTER PL-L	80	3000-4000	1B	20000	-	-	6000	6500	6000	75.0	81.3	75.0	-			
-	TC-DD	FSS	2D 2-pin	GR8	-	CFL SQUARE	PL-Q 2 pin	16	2700-3500	1B	-	10000	12000	-	1050	1050	-	65.6	65.6	-			
-	TC-DD	FSS	2D 2-pin	GR8	-	CFL SQUARE	PL-Q 2 pin	28	2700-4000	1B	-	10000	12000	-	2050	2050	-	73.2	73.2	-			
-	TC-DDEL	FSS	2D 4-pin	GR10q	2D	CFL SQUARE	PL-Q 4 pin	16	2700-3500	1B	12000	10000	10000	1050	1050	1050	65.6	65.6	-				
-	TC-DDEL	FSS	2D 4-pin	GR10q	2D	-	-	21	2700-6000	1B	12000	-	-	1350	-	-	64.2	-	-				
-	TC-DDEL	FSS	2D 4-pin	GR10q	2D	CFL SQUARE	PL-Q 4 pin	28	2700-4000	1B	15000	10000	12000	2050	2050	2050	73.2	73.2	-				
-	TC-DDEL	FSS	2D 4-pin	GR10q	2D	CFL SQUARE	PL-Q 4 pin	38	2700-4000	1B	15000	10000	12000	2850	2700	2850	75.0	71.1	75.0	-			
-	TC-DDEL	FSS	2D 4-pin	GR10q-3	2D	-	-	55	2700-3500	1B	10000	-	-	4000	-	-	72.7	-	-				
-	TC-D	FSQ	4L 2-pin	G24d-1	Double BiOX	DULUX D	MASTER PL-C 2 pin	10	2700-4000	1B	12000	10000	10000	-	600	-	-	60.0	-	-			
-	TC-D	FSQ	4L 2-pin	G24d-1	Double BiOX	DULUX D	MASTER PL-C 2 pin	13	2700-4000	1B	12000	10000	10000	-	900	-	-	69.2	-	-			
-	TC-D	FSQ	4L 2-pin	G24d-2	Double BiOX	DULUX D	MASTER PL-C 2 pin	18	2700-4000	1B	12000	10000	10000	-	1200	-	-	66.7	-	-			
-	TC-D	FSQ	4L 2-pin	G24d-3	Double BiOX	DULUX D	MASTER PL-C 2 pin	26	2700-4000	1B	12000	10000	10000	-	1800	-	-	69.2	-	-			
-	TC-DEL	FSQ	4L 4-pin	G24q-1	Double BiOX	DULUX D/E	MASTER PL-C 4 pin	10	2700-4000	1B	20000	20000	10000	-	600	-	-	60.0	-	-			
-	TC-DEL	FSQ	4L 4-pin	G24q-1	Double BiOX	DULUX D/E	MASTER PL-C 4 pin	13	2700-4000	1B	20000	20000	10000	-	900	-	-	69.2	-	-			
-	TC-DEL	FSQ	4L 4-pin	G24q-2	Double BiOX	DULUX D/E	MASTER PL-C 4 pin	18	2700-4000	1B	20000	20000	10000	-	1200	-	-	66.7	-	-			
-	TC-DEL	FSQ	4L 4-pin	G24q-3	Double BiOX	DULUX D/E	MASTER PL-C 4 pin	26	2700-4000	1B	20000	20000	10000	-	1800	-	-	69.2	-	-			
-	TC-F	FSS	Flat 4L 4-pin	2G10																			

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp Wattage W	Typical CCT (K)	CIE colour render group	Rated life (hours)		Initial lamp lumens at 25°C (lm)		Luminous efficacy (lm/W)	Peak intensity (cd)
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips									

Compact fluorescent non-integrated ballast

-	TC-TEL	FSM	6L 4-pin	GX24q-4	-	DULUX/E Plus	MASTER PL-T 4 pin	42	2700-4000	1B	-	20000	10000	3200	76.2	-			
-	TC-TEL	FSM	6L 4-pin	GX24q-5	-	-	MASTER PL-T 4 pin	52	2700-4000	1B	-	10000	-	4300	75.4	-			
-	TC-TEL	FSM	6L 4-pin	GX24q-5	-	-	MASTER PL-T 4 pin	57	2700-4000	1B	-	13000	-	4300	75.4	-			
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-1	Triple Bi-ax Amalgam	-	-	13	2700-4000	1B	20000	-	900	-	69.2	-			
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-2	Triple Bi-ax Amalgam	-	MASTER PL-T TOP 4 pin	18	2700-4000	1B	20000	-	13000	1200	1200	66.7	-		
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-3	Triple Bi-ax Amalgam	DULUX/T/E CONSTANT	MASTER PL-T TOP 4 pin	26	2700-4000	1B	20000	20000	13000	1800	1800	1725	69.2	69.2	66.3
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-3	Triple Bi-ax Amalgam	DULUX/T/E CONSTANT	MASTER PL-T TOP 4 pin	32	2700-4000	1B	20000	20000	13000	2400	-	75.0	-		
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-4	Triple Bi-ax Amalgam	DULUX/T/E CONSTANT	MASTER PL-T TOP 4 pin	42	2700-4000	1B	20000	20000	13000	3200	3200	3050	76.2	76.2	72.6
-	TC-TEU	FSM	6L 4-pin amalgam	GX24q-5	-	-	MASTER PL-T TOP 4 pin	57	3000-4000	1B	-	-	13000	-	3900	-	-	68.4	
-	TC-TEU	FSM	6L 4-pin amalgam	2G8-1	-	-	MASTER PL-H 4 pin	60	3000-4000	1B	-	-	20000	-	4000	-	-	66.7	
-	TC-TEU	FSM	6L 4-pin amalgam	2G8-1	-	-	MASTER PL-H 4 pin	85	3000-4000	1B	-	-	20000	-	6000	-	-	70.6	
-	TC-TEU	FSM	6L 4-pin amalgam	2G8-1	-	-	MASTER PL-H 4 pin	120	3000-4000	1B	-	-	20000	-	9000	-	-	75.0	
-	TC-TEU	FSM	8L 4-pin amalgam	GX24q-5	Quad Bi-ax Amalgam	-	-	57	2700-4000	1B	20000	-	4300	-	75.4	-	-		
-	TC-TEU	FSM	8L 4-pin amalgam	GX24q-6	Quad Bi-ax Amalgam	-	-	70	3000-4000	1B	20000	-	5200	-	74.3	-	-		

Compact fluorescent integrated ballast

-	TC-TSE	FBT	-	E27	-	DULUXSTAR	MASTER PL-Electronic	11	2700-4000	1B	-	10000	15000	-	600	600	-	54.5	54.5
-	TC-TSE	FBT	-	E27	-	DULUXSTAR	MASTER PL-Electronic	15	2700	1B	-	6000	20000	-	840	875	-	56.0	58.3
-	TC-TSE	FBT	-	E27	-	DULUXSTAR	MASTER PL-Electronic	20	2700	1B	-	6000	20000	-	1160	1220	-	58.0	61
-	TC-TSE	FBT	-	E27	-	-	MASTER PL-Electronic	23	2700-4000	1B	-	-	20000	-	1500	-	-	65.2	-

Metal halide discharge lamps

Reflector - ceramic (other colour temperatures are available)

-	HIPAR20-CE- P/100	MRS	-	E27	ConstantColor CMH PAR 20/SP10	HCI-PAR20 PB SP 10D	MASTERColour CDM-R PAR20 10D	35	3000	1B	10000	12000	9000	-	-	-	-	-	22000	22000	23000
-	HIPAR20-CE- P/100	MRS	-	E27	-	HCI-PAR20 PB SP 10D	MASTERColour CDM-R PAR20 10D	35	4200	1A	-	12000	9000	-	-	-	-	-	16000	21500	-
-	HIPAR20-CE- P/250/300	MRS	-	E27	ConstantColor CMH PAR 20/FL25	HCI-PAR20 PB FL 30D	MASTERColour CDM-R PAR20 30D	35	3000	1B	10000	12000	9000	-	-	-	-	-	7500	5400	5000
-	HIPAR20-CE- P/300	MRS	-	E27	-	HCI-PAR20 PB FL 30D	MASTERColour CDM-R PAR20 30D	35	4200	1A	-	12000	9000	-	-	-	-	-	4000	5000	-
-	HIPAR30-CE- P/100/150	MRS	-	E27	ConstantColor CMH PAR 30/SP15	HCI-PAR30 PB SP 10D	MASTERColour CDM-R PAR30L 10D	70	3000	1B	13000	12000	12000	-	-	-	-	-	42800	70000	68000
-	HIPAR30-CE- P/100/150	MRS	-	E27	ConstantColor CMH PAR 30/SP15	HCI-PAR30 PB SP 10D	MASTERColour CDM-R PAR30L 10D	70	4200	1A	13000	12000	12000	-	-	-	-	-	33500	70000	63000
-	HIPAR30-CE- P/300/400	MRS	-	E27	ConstantColor CMH PAR 30/FL40	HCI-PAR30 PB FL 30D	MASTERColour CDM-R PAR30L 40D	70	3000	1B	13000	12000	12000	-	-	-	-	-	10000	13800	10000
-	HIPAR30-CE- P/300/400	MRS	-	E27	ConstantColor CMH PAR 30/FL40	HCI-PAR30 PB FL 30D	MASTERColour CDM-R PAR30L 40D	70	4200	1A	13000	12000	12000	-	-	-	-	-	9000	13000	9000
-	HIPAR31-CE- P/100/120	MRS	-	GX10	ConstantColor CMH MR16 Precision/SP12	-	MASTERColour CDM-R Mini MR16 10D	20	3000	1B	12000	-	12000	-	-	-	-	-	9000	-	11000
-	HIPAR31-CE- P/250	MRS	-	GX10	ConstantColor CMH MR16 Precision/FL25	-	MASTERColour CDM-R Mini MR16 25D	20	3000	1B	12000	-	12000	-	-	-	-	-	2900	-	3500
-	HIPAR31-CE- P/400	MRS	-	GX10	ConstantColor CMH MR16 Precision/FL40	-	MASTERColour CDM-R Mini MR16 40D	20	3000	1B	12000	-	12000	-	-	-	-	-	1500	-	1700
-	HIPAR111-CE9/100	MRS	-	GX8.5	-	HCI-R111 PB 10D	MASTERColour CDM-R R111/10D	35	3000	1B	-	12000	11000	-	-	-	-	-	39000	35000	-
-	HIPAR111-CE9/100	MRS	-	GX8.5	-	HCI-R111 PB 10D	MASTERColour CDM-R R111/10D	35	4200	1A	-	12000	9000	-	-	-	-	-	39000	30000	-
-	HIPAR111-CE9/240	MRS	-	GX8.5	-	HCI-R111 PB 24D	MASTERColour CDM-R R111/24D	35	3000	1B	-	12000	11000	-	-	-	-	-	9500	8500	-
-	HIPAR111-CE9/240	MRS	-	GX8.5	-	HCI-R111 PB 24D	MASTERColour CDM-R R111/24D	35	4200	1A	-	12000	9000	-	-	-	-	-	9500	8500	-
-	HIPAR111-CE9/400	MRS	-	GX8.5	-	HCI-R111 PB 40D	MASTERColour CDM-R R111/40D	35	3000	1B	-	12000	11000	-	-	-	-	-	4500	4000	-
-	HIPAR111-CE9/400	MRS	-	GX8.5	-	HCI-R111 PB 40D	MASTERColour CDM-R R111/40D	35	4200	1A	-	12000	9000	-	-	-	-	-	4500	4000	-
-	HIPAR111-CE9/100	MRS	-	GX8.5	-	HCI-R111 PB 10D	MASTERColour CDM-R R111/10D	70	3000	1B	-	12000	9000	-	-	-	-	-	55000	50000	-
-	HIPAR111-CE9/100	MRS	-	GX8.5	-	HCI-R111 PB 10D	-	70	4200	1A	-	12000	-	-	-	-	-	-	55000	-	-
-	HIPAR111-CE9/240	MRS	-	GX8.5	-	HCI-R111 PB 24D	MASTERColour CDM-R R111/24D	70	3000	1B	-	12000	9000	-	-	-	-	-	16500	15000	-
-	HIPAR111-CE9/240	MRS	-	GX8.5	-	HCI-R111 PB 24D	MASTERColour CDM-R R111/24D	70	4200	1A	-	12000	11000	-	-	-	-	-	15000	15000	-
-	HIPAR111-CE9/400	MRS	-	GX8.5	-	HCI-R111 PB 40D	MASTERColour CDM-R R111/40D	70	3000	1B	-	12000	9000	-	-	-	-	-	10000	9000	-
-	HIPAR111-CE9/400	MRS	-	GX8.5	-	HCI-R111 PB 40D	MASTERColour CDM-R R111/40D	70	4200	1A	-	12000	11000	-	-	-	-	-	9000	9000	-

Double ended compact - ceramic (other colour temperatures are available)

-	HIT-DE-CE	MD	MBI-TD	RX7s	ConstantColor CMH	HCI-TS PB	MASTERColour CDM-TD	70	3000	1B	15000	12000	16000	7000	6800	6500	100.0	97.1	92.9	-
-	HIT-DE-CE	MD	MBI-TD	RX7s	ConstantColor CMH	HCI-TS PB	MASTERColour CDM-TD	70	4200	1A	15000	12000	16000	6200	6500	6000	88.6	92.9	85.7	-
-	HIT-DE-CE	MD	MBI-TD	RX7s	ConstantColor CMH	HCI-TS PB	MASTERColour CDM-TD	150	3000	1B	15000	12000	16000	14500	14500	13250	96.7	96.7	88.3	-
-	HIT-DE-CE	MD	MBI-TD	RX7s	ConstantColor CMH	HCI-TS PB	MASTERColour CDM-TD	150	4200	1A	15000	12000	16000	12500	14400	14200	83.3	96.0	94.7	-

Double ended compact (other colour temperatures are available)






-	HIT-DE	MD	MBI-TD	RX7s	Arcstream	HQI-TS Excellence	MHN-TD	70	3000	2	6000	12000	9000	5500	6200	6200	78.6	88.6	88.6	-
-	HIT-DE	MD	MBI-TD	RX7s	Arcstream	HQI-TS Excellence	MHN-TD	70	4200	2 1B 1B	6000	12000	10500	5500	6500	5700	78.6	92.9	81.4	-
-	HIT-DE	MD	MBI-TD	RX7s	Arcstream	HQI-TS Excellence	MHN-TD	150	3000	2	6000	12000	10500	12000	12000	13800	80.0	80.0	92.0	-
-	HIT-DE	MD	MBI-TD	RX7s	Arcstream	HQI-TS Excellence	MHN-TD	150	4200	2 1B 1B	6000	12000	10500	12000	12500	12900	80.0	83.3	86.0	-
-	HIT-DE	MD	MBI-TD	Fe2	Arcstream	HQI-TS UVS	-	250	3000	2 1B	6000	12000	-	20000	22000	-	80.0	88.0	-	-
-	HIT-DE	MD	MBI-TD	Fe2	Arcstream	HQI-TS UVS	MHN-TD	250	4200	2 1B 1B	6000	12000	9000	20000	-	80.0	-	-	-	
-	HIT-DE	MD	MBI-TD	Fe2	-	HQI-TS 400/NDL	-	400	4200	1B	-	12000	-	-	36000	-	90.0	-	-	










Single ended compact - ceramic (other colour temperatures are available)

-	HIT-TC-CE	MT	MBI-T	G8.5	ConstantColor CMH	HCI-TC	MASTERColour CDM-TC	20	3000	1B	12000	12000	15000	1650	1700	1800	82.5	85.0	90.0	-
-	HIT-TC-CE	MT	MBI-T	G8.5	ConstantColor CMH	HCI-TC	MASTERColour CDM-TC	35	3000	1B	16500	12000	12000	3400	3500	3300	97.1	100.0	94.3	-
-	HIT-TC-CE	MT	MBI-T	G8.5	ConstantColor CMH	HCI-TC	MASTERColour CDM-TC	35	4200	1A	18000	12000	12000	3200	3400	3300	91.4	97.1	94.3	-

Lamp Guide

Note: lamp manufacturers should be consulted for up-to-date data

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp Wattage W	Typical CCT (K)	CIE colour render group	Rated life (hours)		Initial lamp lumens at 25°C (lm)		Luminous efficacy (lm/W)		Peak intensity (cd)					
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips															
Single ended compact - ceramic (other colour temperatures are available)																						
	-	HIT-TC-CE	MT	MBI-T	G8.5	-	HCI-TC	MASTERColour CDM-TC Blue	50	3000 - 4200	1B	-	15000	15000	-	5250	5400	-	105.0	108.0	-	
	-	HIT-TC-CE	MT	MBI-T	G8.5	ConstantColor CMH	HCI-TC	MASTERColour CDM-TC	70	3000	1B	15000	12000	12000	6200	6900	6500	88.6	98.6	92.9	-	
	-	HIT-TC-CE	MT	MBI-T	G8.5	ConstantColor CMH	HCI-T	MASTERColour CDM-TC	70	4200	1A	15000	12000	12000	6200	6900	6500	88.6	98.6	92.9	-	
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	35	3000	1B	16500	12000	12000	3400	3600	3300	97.1	102.9	94.3	-	
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	35	4200	1B 1A 1A	18000	12000	12000	3200	3500	3300	91.4	100.0	94.3	-	
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	70	3000	1B	15000	12000	12000	6200	7300	6600	88.6	104.3	94.3	-	
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	70	4200	1A	15000	12000	12000	6300	6800	6600	90.0	97.1	94.3	-	
	-	HIT-TC-CE	MT	-	G12	-	HCI-T	-	-	100	3000	1B	-	12000	-	-	9500	-	-	95.0	-	-
	-	HIT-TC-CE	MT	-	G12	-	HCI-T	-	-	100	4200	1A	-	12000	-	-	9300	-	-	93.0	-	-
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	150	3000	1B	12000	12000	12000	14000	15000	14000	93.3	100.0	93.3	-	
	-	HIT-TC-CE	MT	-	G12	ConstantColor CMH	HCI-T	MASTERColour CDM-T	150	4200	1A	12000	12000	12000	13000	14500	12700	86.7	96.7	84.7	-	
	-	HIT-TC-CE	MT	-	G12	-	HCI-T	MASTERColour CDM-T	250	3000	1B	-	-	11000	-	-	23000	-	-	92.0	-	
	-	HIT-TC-CE	MT	-	G12	-	HCI-T	MASTERColour CDM-T	250	4200	1A	-	-	11000	-	-	23000	-	-	92.0	-	
	-	HIT-TC-CE	MC	-	PGJ5	-	-	MASTERColour CDM-TM Mini	20	3000	1B	-	-	12000	-	-	1650	-	-	82.5	-	
	-	HIT-TC-CE	MC	-	PGJ5	-	-	MASTERColour CDM-TM Mini	35	3000	1A	-	-	12000	-	-	3000	-	-	85.7	-	
	-	HIT-TC-CE-P	MTS	-	PG12-2	-	-	MASTERColour CDM-TP	70	3000	1B	-	-	16000	-	-	5800	-	-	82.9	-	
	-	HIT-TC-CE-P	MTS	-	PG12-2	-	-	MASTERColour CDM-TP	70	4200	1A	-	-	16000	-	-	5800	-	-	82.9	-	
	-	HIT-TC-CE-P	MTS	-	PGX12-2	-	-	MASTERColour CDM-TP	150	3000	1B	-	-	16000	-	-	13000	-	-	86.7	-	
	-	HIT-TC-CE-P	MTS	-	PGX12-2	-	-	MASTERColour CDM-TP	150	4200	1A	-	-	16000	-	-	12000	-	-	80.0	-	
	-	HIT-CE	MT	CPO-TW	PGZ12	-	-	CosmoWhite	45	2800	2	-	-	18000	-	-	4300	-	-	95.6	-	
-	HIT-CE	MT	CPO-TW	PGZ12	-	-	CosmoWhite	60	2800	2	-	-	18000	-	-	6800	-	-	113.3	-		
-	HIT-CE	MT	CPO-TW	PGZ12	-	-	CosmoWhite	90	2800	2	-	-	30000	-	-	10450	-	-	116.1	-		
-	HIT-CE	MT	CPO-TW	PGZ12	-	-	CosmoWhite	140	2800	2	-	-	30000	-	-	16500	-	-	117.9	-		
Tubular clear - ceramic																						
	-	HIT-CE	MT	-	E27	-	-	MASTER CityWhite CDO-TT	50	2800	1B	-	-	18000	-	-	4150	-	-	83.0	-	
	-	HIT-CE	MT	-	E27	ConstantColor CMH	HCI-T/P	MASTER CityWhite CDO-TT	70	3000 3000 2800	1B	15000	12000	18000	6400	7200	6300	91.4	102.9	90.0	-	
	-	HIT-CE	MT	-	E27	-	HCI-T/P	-	70	4200	1A	-	12000	-	-	6700	-	-	95.7	-		
	-	HIT-CE	MT	-	E27	-	HCI-T/P	-	100	3000	1B	-	12000	-	-	9000	-	-	90.0	-		
	-	HIT-CE	MT	-	E27	-	HCI-T/P	-	100	4200	1A	-	12000	-	-	8800	-	-	88.0	-		
	-	HIT-CE	MT	-	E27	-	HCI-T/P	-	150	3000	1B	-	12000	-	-	14200	-	-	94.7	-		
	-	HIT-CE	MT	-	E27	-	HCI-T/P	-	150	4200	1A	-	12000	-	-	14000	-	-	93.3	-		
	-	HIT-CE	MT	-	E40	ConstantColor CMH	-	MASTER CityWhite CDO-TT	100	3000 2800	1B	15000	-	20000	9200	-	8800	92.0	-	88.0	-	
	-	HIT-CE	MT	-	E40	ConstantColor CMH	HCI-TT	MASTER CityWhite CDO-TT	150	3000 3000 2800	1B	20000	15000	20000	14000	14500	13500	93.3	96.7	90.0	-	
	-	HIT-CE	MT	-	E40	ConstantColor CMH	HCI-T/P	-	150	4200	1A	15000	12000	-	14000	13300	-	93.3	88.6	-		
-	HIT-CE	MT	MBI-T	E40	ConstantColor CMH	HCI-T	MASTER CityWhite CDO-TT	250	3000 3000 2800	1B	24000	12000	12000	25000	25800	22500	100.0	103.2	90.0	-		
-	HIT-CE	MT	MBI-T	E40	-	HCI-T	-	250	4200	1A	-	12000	-	-	25000	-	-	100.0	-			
-	HIT-CE	MT	MBI-T	E40	ConstantColor CMH	-	-	400	3000-3600	1B	20000	-	-	41000	-	-	102.5	-	-			
-	HIT-CE	MT	-	E27	StreetWise	-	-	50	3000	2	16000	-	-	5000	-	-	100.0	-	-			
-	HIT-CE	MT	-	E27	StreetWise	-	-	70	3000	2	16000	-	-	7640	-	-	109.1	-	-			
-	HIT-CE	MT	-	E40	StreetWise	-	-	100	3000	2	16000	-	-	10900	-	-	109.0	-	-			
-	HIT-CE	MT	-	E40	StreetWise	-	-	150	3000	2	16000	-	-	16300	-	-	108.7	-	-			
Tubular clear for enclosed luminaires (other colour temperatures are available)																						
<i>(operate with appropriate ballasts - consult manufacturers' data sheets)</i>																						
	-	HIT	MT	HIT 70W	E27	-	Iwazaki EYE Color Arc M170/SW	70	4500	1A	-	-	9000	-	-	5000	-	-	71.4	-		
	-	HIT	MT	HIT 250W	E40	-	HQI-T 250/D PRO	250	5200	1A	-	12000	-	-	20000	-	-	80.0	-	-		
	-	HIT	MT	HIT 250W	E40	Arcseam	HQI-T 250/N/SI	MASTER HPI-T Plus	250	4200 4500 4500	2	10000	12000	20000	21000	19800	20500	84.0	79.2	82.0	-	
	-	HIT	MT	HIT 400W	E40	-	HQI-BT 400/D PRO	400	5500	1A	-	12000	-	-	35000	-	-	87.5	-	-		
	-	HIT	MT	HIT 400W	E40	Arcseam	HQI-T 400/N/SI	MASTER HPI-T Plus	400	4200 4000 4500	2	10000	12000	20000	35000	31000	32000	87.5	77.5	80.0	-	
	-	HIT	MT	HIT(VE) 250W	E40	-	Venture HIT 250W/H75/PS/740	250	4000	2	-	20000	-	-	22000	-	-	88.0	-	-		
	-	HIT	MT	HIT(VE) 400W	E40	-	Venture HIT 400W/H75/PS/740	400	4000	2	-	30000	-	-	40000	-	-	100.0	-	-		
	-	HIT	MT	HIT 1000W	E40	Spotlight	HQI-T 1000/D	-	1000	6000 7250	1A	8000	9000	-	80000	85000	-	80.0	85.0	-		
	-	HIT	MT	HIT 1000W	E40	-	HQI-T 1000/N	MASTER HPI-T	1000	3500 4300	2	-	9000	12000	-	110000	85000	-	110.0	85.0		
	-	HIT	MT	HIT 2000W	E40	Spotlight	HQI-T 2000/D	-	2000	6000 7250	1A	5000	9000	-	170000	180000	-	85.0	90.0	-		
-	HIT	MT	HIT 2000W	E40	Spotlight	HQI-T 2000/N/SUPER	MASTER HPI-T	2000	4000 4400 4200	2	2000	9000	12000	190000	240000	210000	95.0	120.0	105.0	-		
Elliptical coated for open or enclosed luminaires (ceramic versions also available)																						
<i>(operate with appropriate ballasts - consult manufacturers' data sheets)</i>																						
	-	HIE	ME	MBIF	E27	-	HQI-E 70/WDL coated	-	70	2900	2	-	9000	-	-	4700	-	-	67.1	-		
	-	HIE	ME	MBIF	E27	-	HQI-E 70/NDL coated	-	70	4000	1B	-	6000	-	-	5100	-	-	72.9	-		
	-	HIE	ME	MBIF	E27	-	HQI-E 100/WDL coated	-	100	2900	2	-	9000	-	-	7900	-	-	79.0	-		
	-	HIE	ME	MBIF	E27	-	HQI-E 100/NDL coated	-	100	4000	1B	-	6000	-	-	7700	-	-	77.0	-		
	-	HIE	ME	MBIF	E27	-	HQI-E 150/WDL coated	-	150	2900	2	-	9000	-	-	11600	-	-	77.3	-		
	-	HIE	ME	MBIF	E27	-	HQI-E 150/NDL coated	-	150	4000	1B	-	6000	-	-	11500	-	-	76.7	-		
	-	HIE	ME	MBIF	E40	-	HQI-E/P 250/D coated	-	250	5200	1A	-	6000	-	-	17000	-	-	88.0	-		
	-	HIE	ME	MBIF	E40	-	-	MASTER HPI Plus/BUP	250	4500	2	-	-	20000	-	-	18000	-	-	72.0	-	
	-	HIE	ME	MBIF	E40	-	HQI-E/P 400/D coated	-	400	5000	1A	-	12000	-	-	31000	-	-	77.5	-		
	-	HIE	ME	MBIF	E40	-	-	MASTER HPI Plus/BUP	400	4500	2	-	-	20000	-	-	32500	-	-	81.3	-	
-	HIE	ME	MBIF	E40	-	Venture HPIE 450W/C/N/UVS/PS/737	-	450	3700	2	-	30000	-	-	45000	-	-	100.0	-			

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp W	Typical CCT (K)	CIE colour render group	Rated life (hours)	Initial lamp lumens at 25°C (lm)	Luminous efficacy (lm/W)	Peak intensity (cd)						
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips													
Elliptical coated - for enclosed luminaires only (other colour temperatures are available)																				
<i>(operate with appropriate ballasts - consult manufacturers' data sheets)</i>																				
	-	HIE	ME	MBIF	E40	Arcstream	HQI-E 250/D PRO	-	250	6000 5200	1A	10000	12000	17000	19000	-	68.0	76.0	-	-
	-	HIE	ME	MBIF	E40	-	HQI-E 250/N/SI	MASTER HPI Plus/BU	250	4200 4500	2	-	12000	20000	19200	18000	-	76.8	72.0	-
	-	HIE	ME	MBIF	E40	-	HQI-E 400/D PRO	-	400	5200	1A	-	12000	-	34000	-	-	85.0	-	-
	-	HIE	ME	MBIF	E40	Kolorarc	-	MASTER HPI Plus/BU	400	4000 4500	2	14000	-	20000	32000	-	32500	80.0	-	81.3
-	HIE	ME	MBIF	E40	-	HQI-E 1000/N	-	1000	3800	2	-	9000	-	100000	-	-	100.0	-	-	
Elliptical clear for open or enclosed luminaires - ceramic																				
	-	HIE-CE	ME	HIE-CE 35W	E27	-	HCI-E/P	-	35	3000	1B	-	12000	-	-	3000	-	-	85.7	-
	-	HIE-CE	ME	HIE-CE 70W	E27	ConstantColor CMH	HCI-E/P	-	70	3000	1B	15000	12000	-	6300	6500	-	90.0	92.9	-
	-	HIE-CE	ME	HIE-CE 100W	E27	ConstantColor CMH	HCI-E/P	-	100	3000	1B	15000	12000	-	9200	9000	-	92.0	90.0	-
	-	HIE-CE	ME	HIE-CE 150W	E27	ConstantColor CMH	-	-	150	4200	1A	15000	-	-	13200	-	-	88.0	-	-
-	HIE-CE	ME	HIE-CE 150W	E27	-	HCI-E/P	-	150	3000	1B	-	12000	-	-	14000	-	-	93.3	-	
Double ended - high wattage																				
	-	HIT-DE	MN	MBIL	RX7s	Sportlight	-	-	1500	5200	2	6000	-	-	120000	-	-	80.0	-	-
	-	HIT-DE	MN	MBIL	special	Sportlight	-	-	2000	5200	2	6000	-	-	200000	-	-	100.0	-	-
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 1000/NDL/S	Master MHN-LA	1000	4400 4200	1B	-	6000	10000	-	90000	100000	-	90.0	100.0
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 1000/D/S PRO	Master MHN-LA	1000	5900 5600	1A	-	6000	10000	-	90000	90000	-	90.0	100.0
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 2000/NDL/S	-	2000	4400	1B	-	5000	-	-	215000	-	-	107.5	-
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 2000/D/S	MASTER MHN-SB	2000	5900 5600	1A	-	4000	3000	-	200000	200000	-	100.0	100.0
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 2000/D/S High Flux	-	2000	6000	1A	-	4000	-	-	220000	-	-	110.0	-
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 2000/N/L	Master MHN-LA	2000	4400 4200	2 1B	-	8000	12000	-	230000	220000	-	115.0	110.0
	-	HIT-DE	MN	-	cable	-	POWERSTAR HQI-TS 2000/D/L	Master MHN-LA	2000	5400 5600	1B 1A	-	8000	12000	-	205000	190000	-	102.5	95.0
Compact metal halide reflector lamps																				
	-	HIPAR64	MR	CSI	G38	Sportlight	-	-	1000	4000	1B	3500	-	-	76000	-	-	76.0	-	130000
High pressure sodium discharge lamps																				
Standard tubular and elliptical																				
	-	HST	ST	HPS-T	E40	Lucalox LU1000/T	NAV-T 1000	SON-T 1000	1000	2000	4	24000	20000	20000	130000	130000	130000	130.0	-	-
	-	HSE	SE	HPS-E	E27	Lucalox LU50/D	NAV-E 50/E 4Y	SON 50W	50	2000	4	28500	28000	28000	3300	3500	3500	66.0	70.0	70.0
	-	HSE-I	SE-I	HPS-E-I	E27	Lucalox LU50/D/I	NAV-E 50/I 4Y	SON 50W/I	50	2000	4	12000	24000	28000	3300	3500	3400	66.0	70.0	68.0
	-	HSE	SE	HPS-E	E27	Lucalox LU70/D	NAV-E 70/E	SON 70W	70	2000	4	28500	28000	28000	5800	5600	5600	82.9	80.0	80.0
	-	HSE-I clear	SE-I	HPS-E-I	E27	Lucalox LU70/I	-	-	70	2000	4	1200	-	-	6000	-	-	85.7	-	-
	-	HSE-I diffuse	SE-I	HPS-E-I	E27	Lucalox LU70/D/I	NAV-E 70/I 4Y	SON 70W/I	70	2000	4	12000	24000	28000	5800	5600	5600	82.9	80.0	80.0
-	HSE	SE	HPS-E	E40	Lucalox LU1000/D	NAV-E 1000/E	SON 1000W	1000	2000	4	24000	20000	20000	120000	128000	130000	120.0	128.0	130.0	
Increased light output - tubular																				
	-	HST-MF	ST	HPS-T(HO)	E27	Lucalox LU50/XO/SBY/T	NAV-T 50 SUPER 4Y	MASTER SON-T PIA Plus	50	2000	4	40000	28000	28000	4400	4400	4400	88.0	-	-
	-	HST-MF	ST	HPS-T(HO)	E27	Lucalox LU70/XO/SBY/T	NAV-T 70 SUPER 4Y	MASTER SON-T PIA Plus	70	2000	4	50000	28000	28000	6600	6600	6600	94.3	-	-
	-	HST-MF	ST	HPS-T(HO)	E40	Lucalox LU100/XO/SBY/T	NAV-T 100 SUPER 4Y	MASTER SON-T PIA Plus	100	2000	4	60000	28000	32000	10700	10700	10700	107.0	-	-
	-	HST-MF	ST	HPS-T(HO)	E40	Lucalox LU150/XO/SBY/T	NAV-T 150 SUPER 4Y	MASTER SON-T PIA Plus	150	2000	4	60000	32000	32000	17500	17500	17500	116.7	-	-
	-	HST-MF	ST	HPS-T(HO)	E40	Lucalox LU250/XO/SBY/T	NAV-T 250 SUPER 4Y	MASTER SON-T PIA Plus	250	2000	4	55000	32000	32000	33000	33200	33200	132.0	132.8	132.8
	-	HST-MF	ST	HPS-T(HO)	E40	Lucalox LU400/XO/SBY/T	NAV-T 400 SUPER 4Y	MASTER SON-T PIA Plus	400	2000	4	55000	32000	32000	55800	56500	56500	139.5	141.3	141.3
	-	HST-MF	ST	HPS-T(HO)	E40	Lucalox LU600/XO/T	NAV-T 600 SUPER 4Y	MASTER SON-T PIA Plus	600	2000	4	32000	32000	28000	90000	90000	90000	150.0	-	-
Increased light output - elliptical																				
	-	HSE-MF	SE	HPS-E(HO)	E27	Lucalox LU50/XO/D	-	-	50	2100	4	28500	-	-	3600	-	-	72.0	-	-
	-	HSE-MF	SE	HPS-E(HO)	E27	Lucalox LU70/XO/D	-	MASTER SON PIA Plus	70	2100 2000	4	33000	-	28000	5900	-	6000	84.3	-	85.7
	-	HSE-MF	SE	HPS-E(HO)	E40	Lucalox LU100/XO/D	NAV-E 100 SUPER 4Y	MASTER SON PIA Plus	100	2100 2000 2000	4	35000	28000	32000	10200	10200	10200	102.0	-	-
	-	HSE-MF	SE	HPS-E(HO)	E40	Lucalox LU150/XO/D	NAV-E 150 SUPER 4Y	MASTER SON PIA Plus	150	2100 2000 2000	4	35000	32000	32000	16900	17000	17000	112.7	113.3	113.3
	-	HSE-MF	SE	HPS-E(HO)	E40	Lucalox LU250/XO/D	NAV-E 250 SUPER 4Y	MASTER SON PIA Plus	250	2100 2000 2000	4	32000	32000	32000	31200	31100	31100	124.8	124.4	124.4
	-	HSE-MF	SE	HPS-E(HO)	E40	Lucalox LU400/XO/D	NAV-E 400 SUPER 4Y	MASTER SON PIA Plus	400	2100 2000 2000	4	32000	32000	32000	54000	55500	55500	135.0	138.8	138.8
-	HSE-MF	SE	HPS-E(HO)	E40	Lucalox LU600/T	-	-	600	2000	-	4	24000	-	-	90000	-	-	150.0	-	
Improved colour rendering - tubular and elliptical																				
	-	HST-CRI	ST	HPS-T(DL)	E40	-	-	SON-T Comfort	150	2150	2	-	-	24000	-	-	13000	-	-	86.7
	-	HST-CRI	ST	HPS-T(DL)	E40	-	-	SON-T Comfort	250	2150	2	-	-	24000	-	-	23000	-	-	92.0
	-	HST-CRI	ST	HPS-T(DL)	E40	-	-	SON-T Comfort	400	2150	2	-	-	24000	-	-	38000	-	-	95.0
	-	HSE-CRI	SE	HPS-E(DL)	E40	-	-	SON Comfort	150	2150	2	-	-	24000	-	-	12500	-	-	83.3
	-	HSE-CRI	SE	HPS-E(DL)	E40	-	-	SON Comfort	250	2150	2	-	-	24000	-	-	22000	-	-	88.0
-	HSE-CRI	SE	HPS-E(DL)	E40	-	-	SON Comfort	400	2150	2	-	-	24000	-	-	37000	-	-	92.5	
White SON and "mini" White SON																				
	-	HST-CRI	STH	HPS-T (white)	PG12-1	-	-	MASTER SDW-T	35	2500	1B	-	-	15000	-	-	1300	-	-	37.1
	-	HST-CRI	STH	HPS-T (white)	PG12-1	-	-	MASTER SDW-T	50	2500	1B	-	-	15000	-	-	2300	-	-	46.0
	-	HST-CRI	STH	HPS-T (white)	PG12-1	-	-	MASTER SDW-T	100	2500	1B	-	-	15000	-	-	5000	-	-	50.0
	-	HST-CRI	STH	HPS-T (white)	GX12-1	-	-	MASTER SDW-TG Mini	50	2500	1B	-	-	10000	-	-	2400	-	-	48.0
	-	HST-CRI	STH	HPS-T (white)	GX12-1	-	-	MASTER SDW-TG Mini	100	2500	1B	-	-	10000	-	-	4900	-	-	49.0
	-	HST-CRI	STH	HPS-T (white)	E27	-	Iwasaki EYE NHT-SDX	-	50	2500	1B	-	6000	-	2500	-	-	50.0	-	-
	-	HST-CRI	STH	HPS-T (white)	E27	-	Iwasaki EYE NHT-SDX	-	70	2500	1B	-	6000	-	3500	-	-	50.0	-	-
	-	HST-CRI	STH	HPS-T (white)	E40	-	Iwasaki EYE NHT-SDX	-	100	2500	1B	-	6000	-	5000	-	-	50.0	-	-
	-	HST-CRI	STH	HPS-T (white)	E40	-	Iwasaki EYE NHT-SDX	-	150	2500	1B	-	9000	-	7800	-	-	52.0	-	-

Lamp Guide

Note: lamp manufacturers should be consulted for up-to-date data

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp Wattage W	Typical CCT (K)	CIE colour render group	Rated life (hours)	Initial lamp lumens at 25°C (lm)			Luminous efficacy (lm/W)	Peak intensity (cd)							
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips																
Double ended																							
E17	-	HST-DE	SD	HPS-DE(HO)	RX7s	-	NAV-TS 70 Super 4Y	-	70	2000	4	-	24000	-	6800	-	97.1	-					
	-	HST-DE	SD	HPS-DE(HO)	RX7s-24	-	NAV-TS 150 Super 4Y	-	150	2000	4	-	24000	-	15000	-	100.0	-					
	-	HST-DE	SD	HPS-DE	Fc2	-	NAV-TS 250	-	250	2000	4	-	24000	-	25500	-	102.0	-					
	-	HST-DE	SD	HPS-DE	Fc2	-	NAV-TS 400	-	400	2000	4	-	24000	-	48000	-	120.0	-					
Halogen lamps																							
Halogen reflector - dichroic mirror (12V supply)																							
E17	-	QR-CBC35/10°	HRGS	M265	GU4	-	DECOSTAR 35 M265 SP	Brilliantline Dichroic/10°	35	3000 3000	1A	-	2000	4000	-	-	-	-	5000	7000			
	-	QR-CBC35/21°	HRGS	M266	GU4	Precise MR11	M266	-	Brilliantline Dichroic/30°	35	2900 3000	1A	3500	-	4000	-	-	-	2070	-	1300		
E17	-	QR-CBC35/10°	HRGS	M271	GU5.3	-	DECOSTAR 51S M271 SP	Brilliantline Dichroic/10°	35	2900 3000	1A	-	2000	4000	-	-	-	-	-	6200	8000		
	-	QR-CBC35/24°	HRGS	M270	GU5.3	-	-	Brilliantline Dichroic/24°	35	3000	1A	-	-	4000	-	-	-	-	-	-	3100		
E17	-	QR-CBC35/36°	HRGS	M281	GU5.3	Precise Bright 5000 MR16	DECOSTAR 51S M281 WFL	Brilliantline Dichroic/36°	35	3000 2900 3000	1A	5000	2000	4000	-	-	-	-	-	1300	1000	1500	
	-	QR-CBC35/10°	HRGS	M249	GU5.3	-	DECOSTAR 51S M249 SP	Brilliantline Dichroic/10°	50	2950 3000	1A	-	2000	4000	-	-	-	-	-	-	9000	13000	
E17	-	QR-CBC35/18°	HRGS	M250	GU5.3	Precise Bright 5000 MR16	-	-	50	3000	1A	5000	-	-	-	-	-	-	-	4750	-		
	-	QR-CBC35/24°	HRGS	M250	GU5.3	-	DECOSTAR 51S M250 FL	Brilliantline Dichroic/24°	50	2950 3000	1A	-	2000	4000	-	-	-	-	-	-	2600	4400	
E17	-	QR-CBC35/36°	HRGS	M258	GU5.3	Precise Bright 5000 MR16	DECOSTAR 51S M258 WFL	Brilliantline Dichroic/36°	50	3000 2950 3000	1A	5000	2000	4000	-	-	-	-	-	2100	1450	2200	
	-	QR-CBC35/60°	HRGS	M280	GU5.3	Precise Bright 5000 MR16	-	Brilliantline Dichroic/60°	50	3000 3000	1A	5000	-	4000	-	-	-	-	-	950	-	1100	
Halogen reflector - aluminised (12V supply)																							
E17	-	QR-51/36°	HAGS	M38A	GU5.3	-	DECOSTAR 51 ALU M38A WFL	-	50	3000	1A	-	2000	-	-	-	-	-	-	1800	-		
	-	QR-C51/24°	HAGS	Black	GU5.3	-	BLV Reflecto	-	50	3000	1A	-	4500	-	-	-	-	-	-	-	3000	-	
E17	-	QR-C51/24°	HAGS	Silver	GU5.3	-	BLV Reflecto	-	50	3000	1A	-	4500	-	-	-	-	-	-	-	3000	-	
Halogen metal reflector - aluminium (12V supply)																							
E17	-	QR70/8°	HMGs	-	BA15d	-	HALOSPOT 70 M157 SP	-	50	2900	1A	-	3000	-	-	-	-	-	-	-	12500	-	
	-	QR70/24°	HMGs	-	BA15d	-	HALOSPOT 70 M158 FL	-	50	2900	1A	-	3000	-	-	-	-	-	-	-	2600	-	
E17	-	QR111/4°	HMGs	-	G53	-	HALOSPOT 111 M351 SSP	-	35	2800	1A	-	3000	-	-	-	-	-	-	-	30000	-	
	-	QR111/8°	HMGs	-	G53	AR111	-	-	35	2800	1A	2000	-	-	-	-	-	-	-	-	14000	-	
E17	-	QR111/24°	HMGs	-	G53	AR111	HALOSPOT 111 M353 FL	-	35	2800	1A	2000	3000	-	-	-	-	-	-	2500	2500	-	
	-	QR111/8°	HMGs	-	G53	AR111	HALOSPOT 111 M101 SP	Aluline 111	50	2850 2900 3000	1A	3000	3000	3000	-	-	-	-	-	-	17800	17000	23000
E17	-	QR111/24°	HMGs	-	G53	AR111	HALOSPOT 111 M102 FL	Aluline 111	50	2850 2900 3000	1A	3000	3000	3000	-	-	-	-	-	-	3500	4000	4000
	-	QR111/8°	HMGs	-	G53	AR111	HALOSPOT 111 M102 SP	Aluline 111	75	2900 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	23500	30000	30000
E17	-	QR111/24°	HMGs	-	G53	AR111	HALOSPOT 111 M162 FL	Aluline 111	75	2900 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	5300	5300	5300
	-	QR111/45°	HMGs	-	G53	AR111	HALOSPOT 111 M103 WFL	Aluline 111	75	2900 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	1700	2000	1900
E17	-	QR111/8°	HMGs	-	G53	AR111	HALOSPOT 111 M114 SP	Aluline 111	100	3000 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	40000	48000	48000
	-	QR111/24°	HMGs	-	G53	AR111	HALOSPOT 111 M152 FL	Aluline 111	100	3000 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	8000	8500	8500
E17	-	QR111/45°	HMGs	-	G53	AR111	HALOSPOT 111 M191 WFL	Aluline 111	100	3000 3000 3000	1A	3000	3000	3000	-	-	-	-	-	-	2300	2800	2800
Halogen capsule (12V supply) - low pressure for use in open luminaires																							
E17	-	QT19-LP-ax	HSGs	M47	G4	-	HALOSTAR STARLITE M47	Capsuline	20	2800 3000	1A	-	4000	4000	-	300	310	-	15.0	15.5	-		
	-	QT12-LP-ax	HSGs	M76	GY6.35	Q20T3/12VGY6.35	HALOSTAR STARLITE M76	Capsuline	20	2800 2800 3000	1A	2000	4000	4000	300	300	300	-	15.0	-	-		
E17	-	QT12-LP-ax	HSGs	-	GY6.35	Q35T3/12VGY6.35	HALOSTAR STARLITE M75	Capsuline	35	2900 2900 3000	1A	2000	4000	4000	600	600	600	-	17.1	-	-		
	-	QT12-LP-ax	HSGs	-	GY6.35	Q50T3/12VGY6.35	HALOSTAR STARLITE M74	Capsuline	50	2900 4000 3000	1A	2000	4000	4000	900	910	880	18.0	18.2	17.6	-		
E17	-	QT12-LP-ax	HSGs	-	GY6.35	Q75T3/12VGY6.35	HALOSTAR STARLITE M154	Capsuline	75	2900 3000 3000	1A	2000	4000	4000	1350	1450	1400	18.0	19.3	18.7	-		
	-	QT12-LP-ax	HSGs	-	GY6.35	-	HALOSTAR STARLITE M180	-	90	3000	1A	-	4000	-	-	1800	-	20.0	-	-			
E17	-	QT12-LP-ax	HSGs	-	GY6.35	-	-	Capsuline	100	3000	1A	-	-	4000	-	-	1850	-	-	18.5	-		
Halogen capsule (24V supply) - for use in closed luminaires																							
E17	-	QT16-ax	HSG	-	GY6.35	-	HALOSTAR 24V M196	-	150	3000	1A	-	2000	-	-	3200	-	-	21.3	-	-		

Type	Designations			Lamp Cap	Lamp Manufacturer			Lamp Wattage W	Typical CCT (K)	CIE colour render group	Rated life (hours)		Initial lamp lumens at 25°C (lm)			Luminous efficacy (lm/W)	Peak intensity (cd)						
	LBS (ZVEI)	ILCOS	Previous		GE	Osram	Philips				h	h	h	h	h		h	h					
Halogen aluminised reflector (PAR)																							
A	-	QPAR16/35°	HAGS	-	GU10	MR16 Mains Altech/FL (36°)	HALOPAR 16 FL	-	35	2500 2700	1A	1500	2000	-	-	-	-	400	570	-			
	-	QPAR16/35°	HAGS	-	GU10	MR16 Mains Altech/FL (36°)	HALOPAR 16 FL	-	50	2650 2800	1A	1500	2000	-	-	-	-	600	900	-			
A	-	QPAR16/50°	HAGS	-	GU10	-	-	Twistline Alu	50	2800	1A	-	-	3000	-	-	-	-	-	600			
	-	QPAR20/30°	HAGS	-	GU10	-	HALOPAR 20 FL	-	75	2800	1A	-	2000	-	-	-	-	-	-	1900			
A	-	QPAR20/50°	HAGS	-	GU10	-	Sylvania Hi-Spot ES63	-	75	2800	1A	-	2500	-	-	-	-	-	-	2500			
	-	QPAR20/10°	HAGS	-	E27	Halogen PAR20/SP	HALOPAR 20 E27 SP	Halogen A PAR20	50	2750 2800 2800	1A	2000	2000	2000	-	-	-	-	-	3000	3000	2550	
A	-	QPAR20/25°	HAGS	-	E27	Halogen PAR20/FL	HALOPAR 20 E27 FL	Halogen A PAR20	50	2750 2800 2800	1A	2000	2000	2000	-	-	-	-	-	1000	1000	850	
	-	QPAR25/10°	HAGS	-	E27	-	Sylvania Hi-Spot 80	-	50	2900	1A	-	2500	-	-	-	-	-	-	-	4000		
A	-	QPAR25/25°	HAGS	-	E27	-	Sylvania Hi-Spot 80	-	50	2900	1A	-	2500	-	-	-	-	-	-	-	1100		
	-	QPAR25/10°	HAGS	-	E27	-	Sylvania Hi-Spot 80	-	75	2800	1A	-	3000	-	-	-	-	-	-	-	5500		
A	-	QPAR25/25°	HAGS	-	E27	Halogen PAR25/FL	-	-	75	2900	1A	3000	-	-	-	-	-	-	-	1300	-		
	-	QPAR30/10°	HAGS	-	E27	Halogen PAR30/SP	HALOPAR 30 E27 SP	Halogen A PAR30 S	75	2900 2900 2800 2900	1A	2000	2000	2000	-	-	-	-	-	-	6200	6900	5525
A	-	QPAR30/30°	HAGS	-	E27	Halogen PAR30/FL	HALOPAR 30 E27 FL	Halogen A PAR30 S	75	2900 2900 2800 2900	1A	2000	2000	2000	-	-	-	-	-	-	2000	2200	1700
	-	QPAR30/10°	HAGS	-	E27	-	Sylvania Hi-Spot 95	-	100	2900	1A	-	3000	-	-	-	-	-	-	-	-	10000	
A	-	QPAR30/30°	HAGS	-	E27	Halogen PAR30/FL	-	-	100	2900	1A	3000	-	-	-	-	-	-	-	-	3100	-	
	-	QPAR38/10°	HAGS	-	E27	-	Sylvania Hi-Spot 95	-	100	2900	1A	-	3000	-	-	-	-	-	-	-	-	10000	
A	-	QPAR38/30°	HAGS	-	E27	-	HALOPAR 38 E27 FL	-	100	2900	1A	-	2000	-	-	-	-	-	-	-	6900	-	
	-	QPAR38/30°	HAGS	-	E27	-	Sylvania Hi-Spot 120	-	100	2900	1A	-	3000	-	-	-	-	-	-	-	-	3500	
Halogen dichroic reflector (PAR)																							
A	-	QPAR-CB16/25°	HRGS	-	GZ10	-	-	Twistline Dichroic	50	2800	1A	-	-	3000	-	-	-	-	-	-	-	1000	
	-	QPAR-CB16/35°	HRGS	-	GZ10	-	HALOPAR 16 FL	-	50	3000	1A	-	2000	-	-	-	-	-	-	-	-	900	
A	-	QPAR-CB16/50°	HRGS	-	GZ10	-	-	Twistline Dichroic	50	2800	1A	-	-	3000	-	-	-	-	-	-	-	600	
	-	QPAR-CB20/25°	HRGS	-	GZ10	-	Sylvania Hi-Spot ESD63	-	75	2850	1A	-	2500	-	-	-	-	-	-	-	-	2500	
A	-	QPAR-CB20/50°	HRGS	-	GZ10	-	Sylvania Hi-Spot ESD63	-	75	2850	1A	-	2500	-	-	-	-	-	-	-	-	1000	
	Double ended halogen																						
A	-	QT-DE12	HDG	K11	R7s	K11 C130W	-	-	130	2900	1A	1000	-	-	2440	-	-	15.3	-	-	-	-	
	-	QT-DE12	HDG	-	R7s	-	HALOINE ECO	-	160	2950	1A	-	2000	-	-	3300	-	-	20.6	-	-	-	-
A	-	QT-DE12	HDG	K9	R7s	K9/G225 T3 HIR	-	-	225	3100	1A	2000	-	-	5000	-	-	21.7	-	-	-	-	
	-	QT-DE12	HDG	-	R7s	-	HALOINE ECO	-	230	2950	1A	-	2000	-	-	5060	-	-	22.0	-	-	-	-
A	-	QT-DE12	HDG	-	R7s	-	-	Plusline ES Small 240W	240	2900	1A	-	-	2000	-	-	4900	-	-	20.4	-	-	-
	-	QT-DE12	HDG	K1	R7s	K1/G375 T3 HIR	-	-	375	3100	1A	2000	-	-	9400	-	-	23.5	-	-	-	-	-
A	-	QT-DE12	HDG	-	R7s	-	HALOINE ECO	Plusline ES Small 400W	400	2950 2900	1A	-	2000	2000	-	9200	8750	-	23.0	21.9	-	-	-
	-	QT-DE12	HDG	K4	R7s	K4/Q1000 T3/CL	HALOINE Standard	Plusline Large	1000	3000 3000 2900	1A	2000	2000	2000	21000	22000	24200	21.0	22.0	24.2	-	-	-
A	-	QT-DE12	HDG	K5	R7s	K4/Q1500 T3/CL	HALOINE Standard	Plusline Large	1500	3000 3000 2900	1A	1000	2000	2000	32000	44000	36300	21.3	29.3	24.2	-	-	-
	Single ended halogen (mains supply)																						
A	-	QA60	HSGSA	-	E27	HaloGLS	HALOGEN CLASSIC A ECO	EcoClassic30 A-shape	42	3100 2950 2800	1A	2000	2000	2000	630	630	630	15.0	-	-	-	-	
	-	QA60	HSGSA	-	E27	-	HALOGEN CLASSIC A ECO	EcoClassic30 A-shape	52	2800	1A	-	2000	2000	2000	-	820	850	-	15.8	16.0	-	-
A	-	QA60	HSGSA	-	E27	HaloGLS	HALOGEN CLASSIC A ECO	EcoClassic30 A-shape	70	2900 2800 2800	1A	2000	2000	2000	1300	1200	1200	18.6	17.1	17.1	-	-	-
	-	QT18	HSGST	-	B15d	-	HALOILUX CERAM ECO	-	150	2900	1A	-	2000	-	-	2870	-	-	19.1	-	-	-	-
A	-	QT32	HSGST	-	E27	-	HALOILUX CERAM ECO	-	70	2900	1A	-	2000	-	-	1180	-	-	16.9	-	-	-	-
	-	QT32	HSGST	-	E27	-	HALOILUX CERAM ECO	-	100	2900	1A	-	2000	-	-	1800	-	-	18.0	-	-	-	-
A	-	QT32	HSGST	-	E27	-	HALOILUX CERAM ECO	-	150	2900	1A	-	2000	-	-	2870	-	-	19.1	-	-	-	-
	-	QT32	HSGST	-	E27	-	HALOILUX CERAM ECO	-	200	2900	1A	-	2000	-	-	4200	-	-	21.0	-	-	-	-
Incandescent lamps																							
<i>Spot (mains supply, except where stated)</i>																							
A	-	PAR38/12°	IPAR	PAR38/15°	E27	PAR38 Watt-miser/SP	CONCENTRA PAR 38	-	120	-	1A	2000	2000	-	-	-	-	-	-	9300	9300	-	
	-	PAR38/30°	IPAR	PAR38/30°	E27	PAR38 Watt-miser/FL	CONCENTRA PAR 38	-	120	-	1A	2000	2000	-	-	-	-	-	-	-	3100	3100	-

As lamps are continually improved for both lighting and environmental performance the reader should always check the values given in this table before using the values for design.

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SAP Description key M - Z

M	Medium
Mxxx	Modul dimension, eg M600
MAG	Magenta
MAR	Connector (MARECHAL)
MAxx	Spigot mounting
MBD	Base down mounting only
MBOX	Mounting box
MBU	Base up mounting only
MC	Eggcrate louvre
MCA	Catenary suspension only
MCE	Ceiling mounted
MCH	Chain suspension only
ME	Metallised
MFx	Decorative Stirrup
MG	Magenta
MGR	Post (column) with root
MGS	Post (column) with ground spike
ML	Mains lead
MLE	Side (lateral) mounting
MMC	Mini eggcrate louvre
MOD	Modern
MP	Micro-perforated
MPL	Post (column) with flange plate
MRC	Concealed fix (Z rail) ceiling
MRD	Rod mounted
MRE	Recessed mounted
MRE/G	Floor/ground recessed
MRE/W	Wall recessed
MRM	Metal ceiling
MRO	Knuckle joint (rotule) mounting
MRP	plasterboard ceilings
MRS	Pendant suspension, rod
MRT	Exposed grid ceiling
MSF	Surface mounted
MSG	Wire suspension with gripple
MSR	Semi-recessed
MSU	Suspended
MSW	Wire suspension only
MSW1	Wire suspension - single wire
MSW2	Wire suspension - twin wire
MSWT	Wire suspension - triangular
MT	Matt
MTP	Post top Accessory
MTx	Track mounting
MWA	Wall mounted only
MWS	Microwave Sensor
Mxx	Screw fitting xx
N 4M	Pre-wired nordic cable
NAF	Anchor bolts not included
NB	Without baffle
NBRA	With fixing holes (at top of pole) for single bracket
NBRA/T	With fixing holes (at top of pole) for double bracket
NC	switch start - inductive
NE2	Emergency 2 Hour Nexus (AUS)
NG	No Gear
NI	Nickel
NICD	Nickel Cadium
NIMH	Nickel Metal Hydride
NPA	Un-painted
NR	Without reflector
NS	Integral socket for nurse call remote controller
NW	Narrow
OAK	Oak wood
OC	Octagonal
OP	Opal
OP PC	Opal diffuser
OV	Oval
P	Integral photocell
PC	Polycarbonate
PE	Polyethylene
PET	PET (and PET/G) polyethylene terephthalate/glycol
PF	Perforated
PF/BU	Perforated / Blue
PF/OP	Perforated / Opal
PGxx	Conduit thread xx
PL	Base plate (mounting plate)
PM	Integral mini photocell
PMB	Parabolic reflectors, flat mirrorbrite vanes
PN	Integral Nema photocell facility
PNP	Integral 'plug and play' components
POL	Polished

PR	Prismatic
PRF	Performance optic
PRS	Pendant Rod Suspension, <1450mm
PS	Polystyrene
PSB	Parabolic reflectors, flat satinbrite vanes
PSND	Pale Sand
PSW	Fixing - quick fix device
PT	Power tapping transformer
PWS	Parabolic reflectors, flat white vanes
Px	Plug (to enable customer to make custom leads)
PXT	Parabolic reflectors, fir tree vanes
QF	Fixing - quick fix device
R	Rod Suspended
R/S	Radial - symmetric
RA	Reflector Angled (AUS)
RAL	Aluminium reflector
RAP	Quick release mounting
RAS	Asymmetric reflector
RBOX	Recessing box
RC	Reflector Symmetric Closed (AUS)
RCT	Rectangular profile
RD	Round
RDE	Decorative reflector
RE	Reeded
REC	Economy reflector
RED	Red
REN	Enamel reflector
RES	Residential optic
RFC	Multi-faceted reflector
RFRAME	Recessing bezel frame
RGB	Red, green, blue
RGL	Glass reflector
RHB	Hammer blow reflector
RING	Ring collar for lampholder
RK	Racklight
RM	Medium reflector
RMB	Mirrorbrite reflector
RNG	Ring
RNW	Narrow reflector
RPF	Perforated reflector
RPR	Plastic reflector
RRC	Circular/round cells louvre
RRK	Racklight reflector
RS	Stainless steel
RSB	Satinbrite reflector
RSB GOL	Reflector matt, gold coloured
RSB SIL	Reflector matt, silver coloured
RSL	Slotted reflector
RT	Turbo louvre
RWD	Wide reflector
RWH	White reflector
Rxxxx	RAL
S	Small
S/A	Symmetric
S/S	Di-symmetric
S27G	Side mounting 27G
S2P	Integral 230v (euro) socket - 2 pole
S34G	Side mounting 34G
SA	Satin
SAN	Styrene acrylonitrile
SDS	Switch - non specific
SDSW	Switch for wall mounting
SENCM	Control modules
SEND DALI	Presence / daylight detector - DALI
SEND DSI	Presence / daylight detector - DSI
SENLCM	Control modules
SENLD DALI	Presence / daylight detector - DALI
SENLD DSI	Presence / daylight detector - DSI
SENLD SW	Presence/daylight detector - switched output
SENLP	Programmer
SENLPS	Power supplies
SENLCR	Remote controller
SENLT	Transceiver
SENP	Programmer
SENRC	Remote controller
SF	Semi-frosted

SFRAME	Surface frame
SG	Slots for sockets for medical gas(es)
SH	Short
SIL	Silver (effect)
SINT	Semi intensive
SL	Slotted
SLD	Presence (PIR) and daylight detector
SLDD	Daylight only detector
SLDM	Presence (microwave) only detector
SLDMD	Presence (microwave) and daylight detector
SLDP	Presence (PIR) only detector
SLxcyy	Starter leads
SM	Smoked
SN	Satin Nickel
SNW	Super narrow beam
SO	Integral socket
SP	Spot, ~ 10° - 12°
SPA	Spotlight adaptor
SP-G	Spot, gold coloured reflector
SPH	Spherical
SPI	Semi Parallel Ignitor
SPIKE	Ground fixing spike
SPR	Sport optic
SQ	Square
SR2	Shock-proof plug
SFRAME	Semi recessing bezel frame
SS	Integral shaver socket
SSL	Satin silver (effect)
ST	Steel
STR	Street optic
SUSP/EYE	Suspension eye
SW	Integral switch
SWD	Dimming Switch (only with HFD dimming)
SWL	Integral power reduction automatic switch
Sx	Socket (to enable customer to make custom leads)
SY	Gloss / semi gloss
T	Low surface temperature
T27G	Top mounting 27G
T34G	Top mounting 34G
TB	Integral terminal block
TB/CCx	Terminal block with cage
TB/TRUx	Terminal block for trunking
TBL4	Terminal Block 4 way Large (AUS)
TBx	Terminal block
TC	Tubular cover
TD	Electronic - dimmable output transformer
TE	Electronic - fixed output transformer
TL	Tall
TLU	Translucent
TLV	Track - low voltage
TR	Magnetic transformer
TRE	Tubular reflector
TS	Integral socket for telephone
TTM	Titanium (effect)
TW	Through wired
TW**x**,*	Through wired
TWKIT	Through wire kit
TX	Textured
TxC	Integral track adaptor
Txxx	Trunking - unwired
VD	Vandalism
VIO	Violet
VIS	Visor
VMB	V reflector, flat mirrorbrite louvre
VR	Vandal resistant
VS	Visor
VSB	V reflectors, flat satinbrite vanes
VT	Violet
VWS	V reflectors, flat white vanes
VXT	V reflectors, fir tree vanes
W	Pre-wired
WB	With baffle
WD	Wide
WG	Wire guard
WGN	Wilderness Green
WH	White
WHI	White

WI	Integral ignitor
WL*	Wieland type plug (GST)
Wlyyyyyy xx	Trunking wiring loom
WMU	Wall mounting upright
WO	Wago type plug
WOOD	Wood
WTxxx	Trunking - prewired
Yyyyyy	Y
WW	Wall washer
XEXT	Super extensive
xF	Integral fuse
XINT	Extra intensive
XL	Extra large
XS	Extra small
XXL	Extra Extra large
xxm	Length (height)
xxmm	Thickness of material
Y5	Panel Y5 (AUS)
Y7	Panel Y7 (AUS)
YE	Yellow
YEL	Yellow
Z1	ATEX Cat 2 (Zone 1)
Z2	ATEX Cat 3 (Zone 2)
Lxxx	Complete with lamp (colour)

NEW New product

 Beam angles
 Dimming version available
 Outdoor lighting controls - Radio Frequency
 Outdoor lighting controls - Powerline
 Low contact temperature version

THORN

LIGHTING PEOPLE

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