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THORN

LIGHTING

2018/2019



member of zumtobel group

COMING
SOON



PopPack LED

A classic that remains as popular as ever, the latest Thorn PopPack provides enhanced flexibility.



Aquaforce Pro

With the brand-new Aquaforce Pro, performance and versatility have reached fresh heights. The IP66-rated fitting is available with a range of different light distributions.



Isaro Pro

The robust and high-performance LED street lantern that is suitable for any road and street. Made from best-in-class materials, Isaro Pro is built to withstand the demands of the urban environment.



Your global partner for reliable lighting solutions.

Thorn, part of the Zumtobel Group, is a well-established supplier of interior and exterior lighting. Whether it is lighting sports venues, roads, offices, schools, retail outlets, logistics centres or industrial complexes - lighting is Thorn's passion and has been for 90 years. We create user-friendly lighting solutions that give optimum lighting quality with the best possible price-performance ratio. Simplicity of installation and operation are our priorities. We believe in long-standing partnerships and are constantly working to make sure that our customers are delighted with their Thorn experience. As a global brand we have a presence in more than 100 countries, providing lighting, security, comfort and convenience.



YEARS

EST. 1928



LIGHTING THE PAST
AND THE FUTURE



thornlighting.co.uk/90years

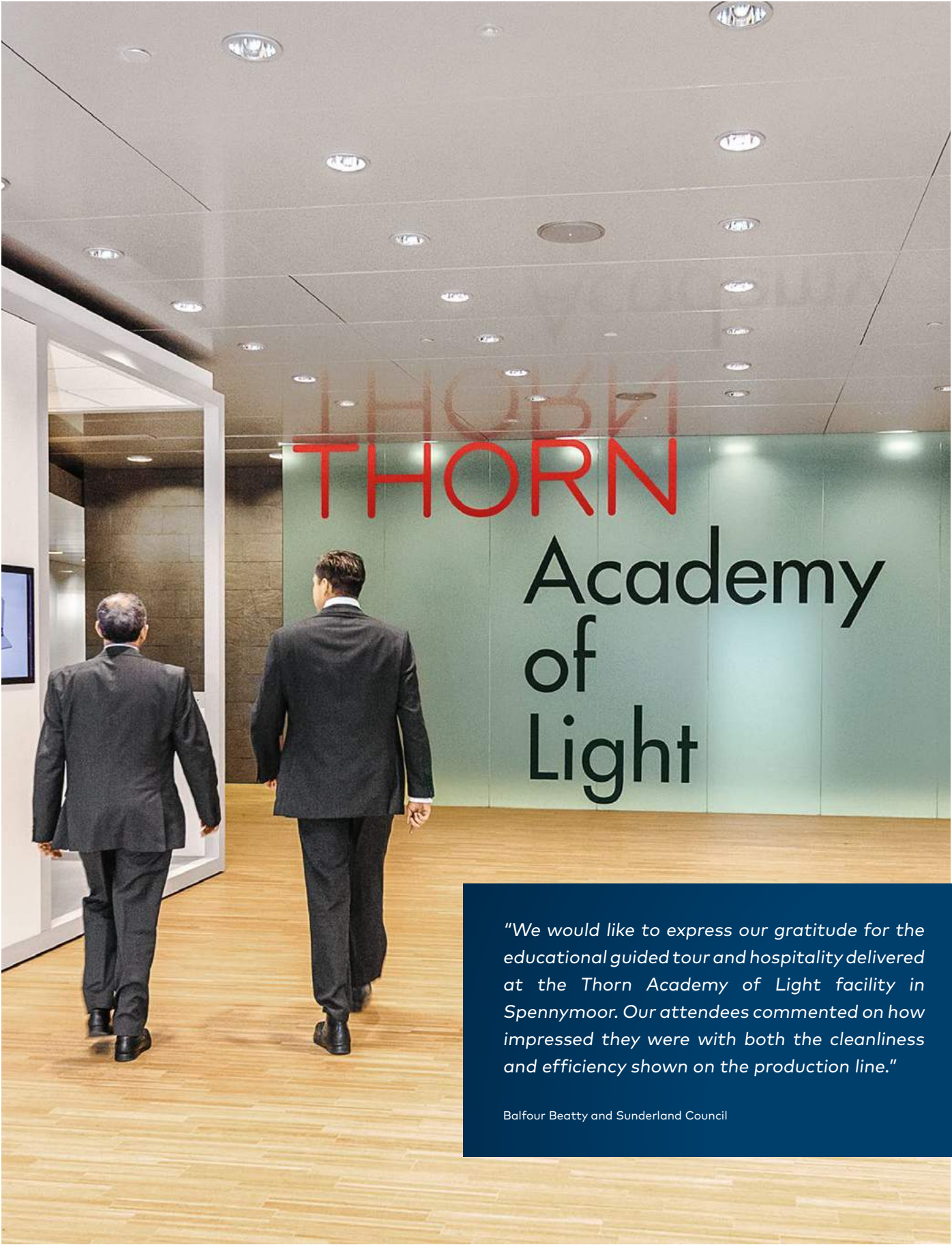
Thorn Academy of Light

The Thorn Academy of Light is based in Spennymoor, England. Visitors can experience lighting in operation and on display. A number of different workshops and training courses are also available.

The mission of the Thorn Academy of Light is to communicate and promote knowledge and creativity in professional lighting. Delivering the ideal balance between lighting quality and energy efficiency is a priority. Our ultimate aim is complete customer satisfaction.



TAL Training



THORN

Academy
of
Light

"We would like to express our gratitude for the educational guided tour and hospitality delivered at the Thorn Academy of Light facility in Spennymoor. Our attendees commented on how impressed they were with both the cleanliness and efficiency shown on the production line."

Balfour Beatty and Sunderland Council

International Projects



Al Jalila Hospital, AE



Oslo, NO



Geoffroy-Guichard Stadium, FR



Nordic Ski Arena Kandersteg, CH

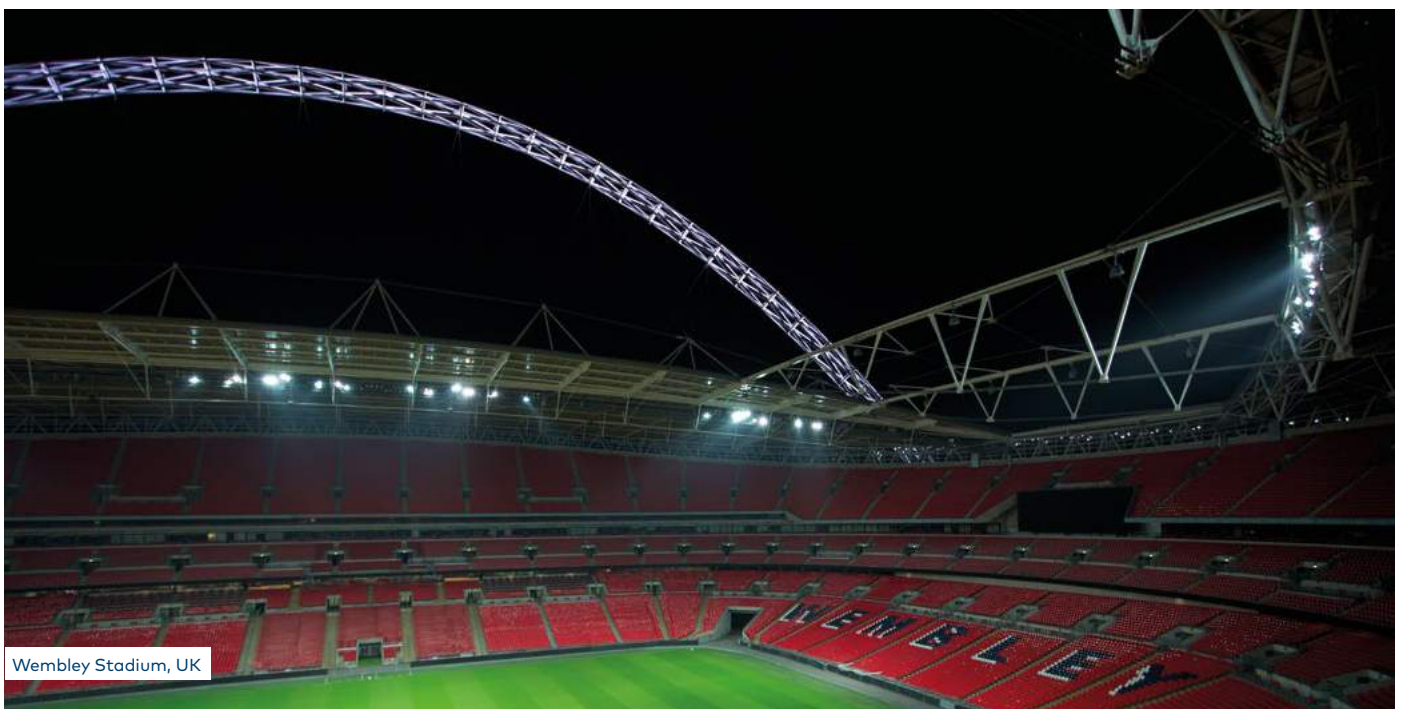


Wilko, UK

UK Projects



Derby Arena and Velodrome, UK



Wembley Stadium, UK



Morgan Sindall, UK



Papa John's HQ, UK



Adnams Brewery, Suffolk, UK



South Tyneside, UK

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Emergency Lighting

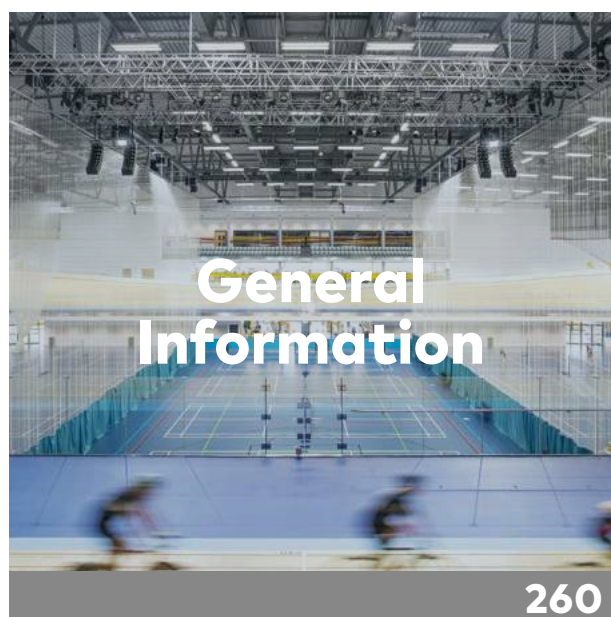
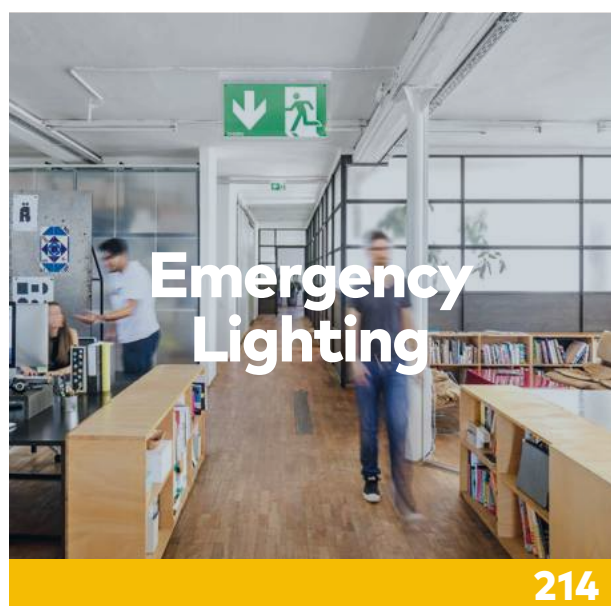
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Understanding our catalogue numbers

We have rolled out a new initiative to simplify our ordering process, making it even easier for customers to work with us. To support this we are listing all of our indoor and outdoor luminaires with an alphanumeric 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 ranges
- 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 errors during ordering

Range (e.g.)		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				

Sample catalogue number

LE	R	128	Z	E	PR	W
Range	Sub-range	LED lumen output	Gear	Emergency	Optic	Color

Emergency		Optic		Colour		Miscellaneous	
E	3hr standard emergency	LV	Louvre	W	White	PB	Plasterboard version
EX	3hr adressable 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	Asymetric				
		MB	Mirrorbrite				
		SB	Satinbrite				

Notes:
The logic set out here 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, so some ranges require more fields than others. The examples above show how each element of the catalogue number refers to some of the key product features.

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 between each version.



Indoor Lighting

DOWNLIGHTS



16
Chalice



18
Chalice Pro



20
Chalice Pro HO



22
Cetus LED



www.thornlighting.co.uk/CHLC
www.thornlighting.ie/CHLC



- High efficacy of up to 110lm/W for low energy consumption
- Less than 100mm overall height making it ideal for low ceiling void depth
- IP54 as standard for use in bathrooms/washrooms
- CFL replacement with low maintenance lifetime of L80 50,000 hours
- Other options are available. See myProduct for configuration options: www.thornlighting.co.uk/en-gb/products/myproduct

MATERIALS/FINISH

Housing/body material: Aluminum painted white
 Bezel finish: RAL9016
 Reflector finish: Satin

LED Downlight range in two sizes offering a direct replacement for CFL solutions with up to 3000 Llm



INSTALLATION/MOUNTING

Chalice can be installed directly from the box into a wide range of ceiling types including thicknesses from 1mm-40mm. Remote driver makes installation and maintenance quick and easy.

SPECIFICATION

To specify state:
 A recessed LED downlight incorporating a thermally optimised, deep drawn aluminium body with IP54 as standard. Fixed or dimmable output or with emergency function. Correlated colour temperature is 3000K/4000K with CRI >80 and UGR <22. Overall height <100mm and cut out of 150mm or 200mm Lifetime is 50,000 hours (L80) at Ta 25°C.
 As Thorn Chalice.



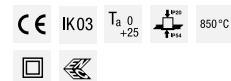
Frosted ring

LAMPS

LED

12.3-27.5W

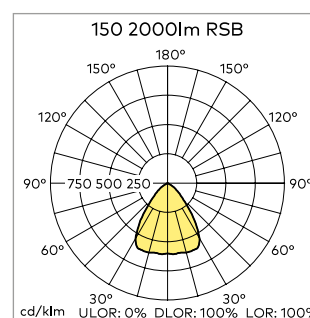
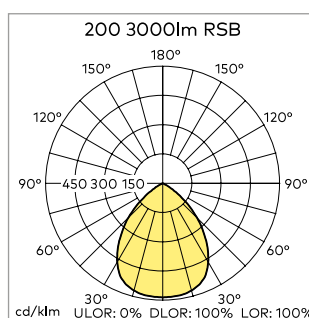
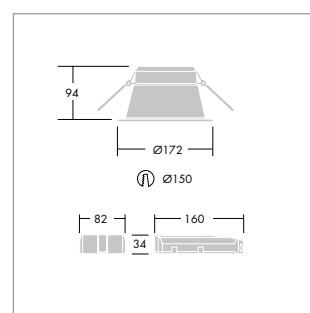
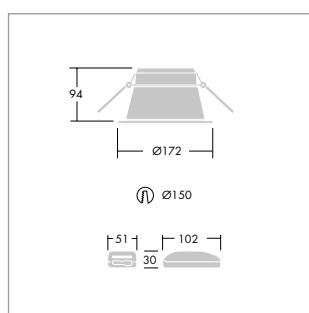
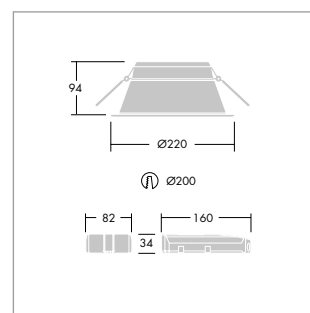
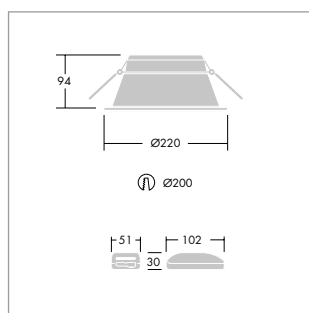
STANDARDS



ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Chalice 200			
CHAL 200 LED1400-830 HF RSB	0.76	96629019	
CHAL 200 LED1400-840 HF RSB	0.76	96629020	
CHAL 200 LED2000-840 HF RSB	0.76	96642305	CH2002000ZS4K
CHAL 200 LED2000-830 HF RSB	0.76	96642304	CH2002000ZS3K
CHAL 200 LED3000-830 HF RSB	0.89	96629021	
CHAL 200 LED3000-840 HF RSB	0.89	96629022	
Chalice 150			
CHAL 150 LED1400-830 HF RSB	0.46	96629023	
CHAL 150 LED1400-840 HF RSB	0.46	96629024	
CHAL 150 LED2000-830 HF RSB	0.46	96629025	
CHAL 150 LED2000-840 HF RSB	0.46	96629026	
CHAL 150 LED3000-830 HF RSB	0.59	96629027	
CHAL 150 LED3000-840 HF RSB	0.59	96629028	
Chalice Attachments			
CHAL 150 FROSTED RING	0.05	96627651	CH150FR
CHAL 200 FROSTED RING	0.10	96627649	CH200FR
Chalice Accessory			
CHAL MSF HOUSING	1.02	96628908	

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



Chalice version	Lumen package	lm/W	Replacement	Colour temp
Chalice 150	1400	115	Replacement for 1x26W CFL	3000K/4000K
Chalice 150	2000	114	Replacement for 2x26W CFL	3000K/4000K
Chalice 150	3000	106	Replacement for 2x32W CFL	3000K/4000K
Chalice 200	1400	109	Replacement for 1x26W CFL	3000K/4000K
Chalice 200	2000	117	Replacement for 2x26W CFL	3000K/4000K
Chalice 200	3000	114	Replacement for 2x32W CFL	3000K/4000K

Chalice

Pro



www.thornlighting.co.uk/CHLP
www.thornlighting.ie/CHLP

High performance LED downlight offering exceptional efficiency and highest LED lifetime



- Class leading efficacy of up to 120lm/W
- High performance optic and light mixing chamber for a uniform lit appearance
- Unified glare ratio <19, CRI 80 and CRI 90 for high quality lighting applications
- Compact 150mm cut out diameter and overall height of 94mm to meet design requirements
- Other options are available. See myProduct for configuration options: www.thornlighting.co.uk/en-gb/products/myproduct

MATERIALS/FINISH

Housing/body material: Aluminium painted white
 Bezel finish: RAL9016
 Reflector finish: Specular or Satin

INSTALLATION/MOUNTING

Suitable for recessed ceiling mounting, cut out dimension: Ø150mm. Chalice Pro can be installed directly from the box into a wide range of ceiling types including thicknesses from 1mm-40mm. Remote driver makes installation and maintenance quick and easy.

SPECIFICATION

To specify state:
 Chalice Pro downlight incorporating thermally optimised, aluminium body with IP54 as standard. A recessed LED downlight with specular or satin reflector held in place via bayonet lock, rapid tool-free mounting, Ø150mm cut-out. Suitable for ceiling thicknesses 1-40mm. Integral 1100/2000/3000 lm with passive cooling, choice of 2 light colours: 3000K and 4000K, loop in/out wiring. As Thorn Chalice Pro.



Satin reflector



Wallwasher



Frosted ring



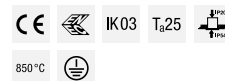
Halo ring

LAMPS

LED

9-29.9W

STANDARDS

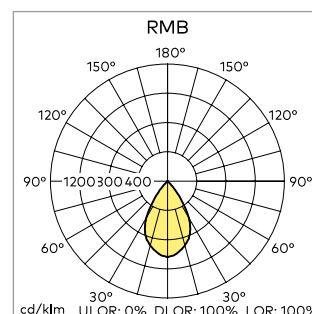
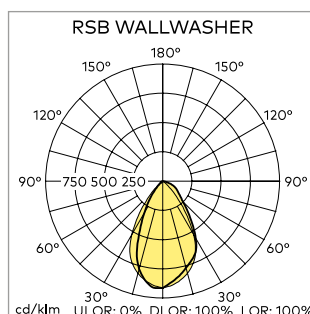
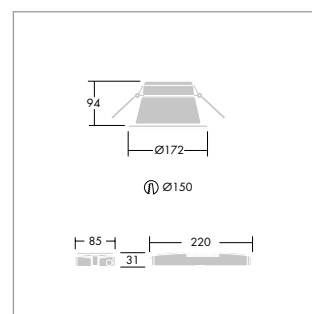
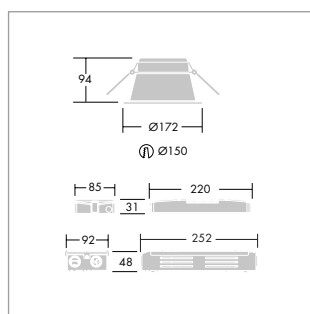


ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Chalice Pro CRI 90, Mirrorbrite Reflector, Dimmable			
CHAL PRO LED900-930 HFIX RMB W6	0.71	96642629	CHR900XM3K
CHAL PRO LED900-940 HFIX RMB W6	0.71	96642630	CHR900XM4K
CHAL PRO LED1600-930 HFIX RMB W6	0.71	96642631	CHR1600XM3K
CHAL PRO LED1600-940 HFIX RMB W6	0.71	96642632	CHR1600XM4K
CHAL PRO LED2400-930 HFIX RMB W6	0.78	96642625	CHR2400XM3K
CHAL PRO LED2400-940 HFIX RMB W6	0.78	96642626	CHR2400XM4K
Chalice Pro CRI 90, Satinbrite Reflector, Dimmable			
CHAL PRO LED900-930 HFIX RSB W6	0.71	96642633	CHR900XS3K
CHAL PRO LED900-940 HFIX RSB W6	0.71	96642634	CHR900XS4K
CHAL PRO LED1600-930 HFIX RSB W6	0.71	96642635	CHR1600XS3K
CHAL PRO LED1600-940 HFIX RSB W6	0.71	96642636	CHR1600XS4K
CHAL PRO LED2400-930 HFIX RSB W6	0.78	96642627	CHR2400XS3K
CHAL PRO LED2400-940 HFIX RSB W6	0.78	96642628	CHR2400XS4K
Chalice Pro CRI 80, Mirrorbrite Reflector, Dimmable			
CHAL PRO LED1100-840 HFIX RMB W6	0.71	96642357	CHR1100XM4K
CHAL PRO LED1100-830 HFIX RMB W6	0.71	96642356	CHR1100XM3K
CHAL PRO LED2000-840 HFIX RMB W6	0.71	96642359	CHR2000XM4K
CHAL PRO LED2000-830 HFIX RMB W6	0.71	96642358	CHR2000XM3K
CHAL PRO LED3000-840 HFIX RMB W6	0.78	96642361	CHR3000XM4K
CHAL PRO LED3000-830 HFIX RMB W6	0.78	96642360	CHR3000XM3K
Chalice Pro CRI 80, Satinbrite Reflector, Dimmable			
CHAL PRO LED1100-840 HFIX RSB W6	0.71	96642333	CHR1100XS4K
CHAL PRO LED1100-830 HFIX RSB W6	0.71	96642332	CHR1100XS3K
CHAL PRO LED2000-840 HFIX RSB W6	0.71	96642335	CHR2000XS4K
CHAL PRO LED2000-830 HFIX RSB W6	0.71	96642334	CHR2000XS3K
CHAL PRO LED3000-840 HFIX RSB W6	0.78	96642337	CHR3000XS4K
CHAL PRO LED3000-830 HFIX RSB W6	0.78	96642336	CHR3000XS3K
Chalice Pro Attachments			
CHAL 150 FROSTED RING	0.05	96627651	CH150FR
CHAL PRO HALO RING	0.17	96627650	CHRHALO
CHAL PRO WALLWASHER RMB W6	0.17	96628054	CHRMWW
CHAL PRO WALLWASHER RSB W6	0.17	96627652	CHRSWW

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Chalice version	Lumen package	lm/W	Replacement	Colour temp
Chalice Pro CRI 80	1100	122	Replacement for 1x26W CFL	3000K/4000K
Chalice Pro CRI 80	2000	122	Replacement for 2x26W CF	3000K/4000K
Chalice Pro CRI 80	3000	118	Replacement for 2x32W CFL	3000K/4000K
Chalice Pro CRI 90	900	99	Replacement for 1x18W CFL	3000K/4000K
Chalice Pro CRI 90	1600	99	Replacement for 2x18W/1x32W CFL	3000K/4000K
Chalice Pro CRI 90	2400	96	Replacement for 2x26W CFL	3000K/4000K



NEW

Chalice

Pro HO



www.thornlighting.co.uk/CHPH
www.thornlighting.ie/CHPH

A highly performant recessed or surface mounted downlight range for all buildings with high ceiling structure



- High lumen output LED downlight for high ceiling
- Direct replacement for downlights with 70W/100W/150W HID lamps
- Surface mount version (full housing body): IP65. Luminaire efficacy: 106lm/W
- Recessed mounted version (front surface): IP54. Luminaire efficacy: 108lm/W
- Digital dimming version available and emergency option on request

MATERIALS/FINISH

Body: aluminium, painted white (RAL 9016)
Reflector: high grade anodised aluminium
Clips: quick-fix stainless steel with spring cover
Bezel: aluminium

INSTALLATION/MOUNTING

Recessed: Adjustable fixing clips suitable for ceiling thicknesses from 1–25mm. No tools required. Cut out diameter 200mm
Surface mounted: 3 key hole fixing points in the installation plate directly to the ceiling. Luminaire body is retained by a bayonet twist and lock function to the installation plate
Rod suspended: 3 fixing points for screw mounting the rod to the ceiling, 3 key hole fixing assembling the installation plate to the suspension rod and bayonet twist and lock function to the install the luminaire body to the installation plate

Electrical connection via 3 or 5 pole push in terminal block suitable for loop in/loop out wiring, for stripped wires up to 2,5mm²

SPECIFICATION

To specify state:

Recessed, surface mounted or rod suspended LED downlight optimised for efficient, energy saving high-output general lighting in retail and transportation applications; passive cooling thanks to innovative thermal design with recessed or integrated driver; dimming and controls option available; Colour rendering Ra > 80, CRI > 90 option on request; colour temperature 3000K and 4000K, 4 different beam shapes, rotationally symmetrical; Chromaticity tolerance (initial MacAdam): 3; exceptional long lifetime performance Ta25° up to 100.000h for luminous flux at L80 of initial value; mains voltage: 220–240V/ 50/60Hz; highly efficient aluminium reflector; rod suspension kit to be ordered separately.
As Thorn Chalice Pro HO

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Chalice Pro HO Surface		
CHAL PRO LED5000-830 HF MB W6 MSF	3.00	96666159
CHAL PRO LED5000-840 HF MB W6 MSF	3.00	96666160
CHAL PRO LED7500-830 HF MB W6 MSF	3.80	96666163
CHAL PRO LED7500-840 HF MB W6 MSF	3.80	96666164
CHAL PRO LED10000-830 HF MB W6 MSF	3.80	96666167
CHAL PRO LED10000-840 HF MB W6 MSF	3.80	96666168
Chalice Pro HO Surface, Dimmable		
CHAL PRO LED5000-830 HFI MB W6 MSF	3.00	96666161
CHAL PRO LED5000-840 HFI MB W6 MSF	3.00	96666162
CHAL PRO LED7500-830 HFI MB W6 MSF	3.80	96666165
CHAL PRO LED7500-840 HFI MB W6 MSF	3.80	96666166
CHAL PRO LED10000-830 HFI MB W6 MSF	3.80	96666169
CHAL PRO LED10000-840 HFI MB W6 MSF	3.80	96666170
Chalice Pro HO		
CHAL PRO LED5000-830 HF MB W6 MRE	2.00	96666155
CHAL PRO LED5000-840 HF MB W6 MRE	2.00	96666156
Chalice Pro HO, Dimmable		
CHAL PRO LED5000-830 HFI MB W6 MRE	2.00	96666157
CHAL PRO LED5000-840 HFI MB W6 MRE	2.00	96666158
Chalice Pro HO Accessories		
CHAL PRO MSF ROD KIT	0.40	96666171

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LAMPS

 LED 46.3-97W

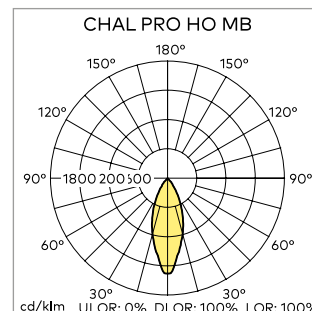
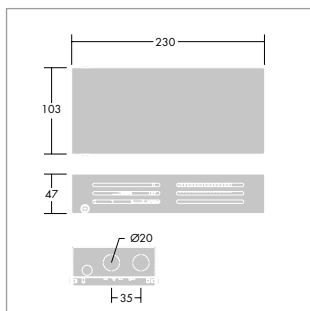
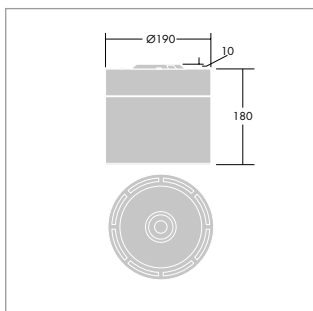
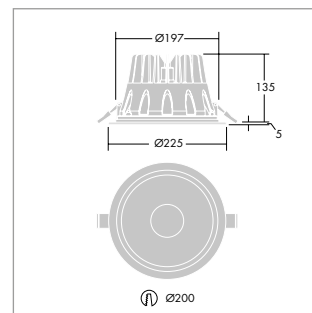
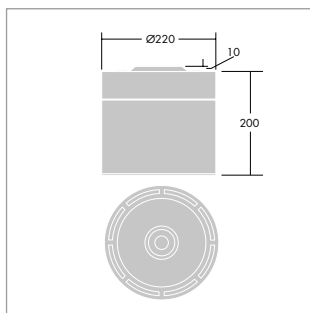
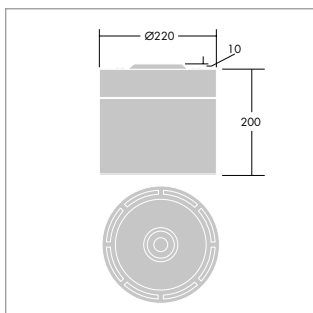
STANDARDS







Lumen package	Replacement	Energy saving
5,000lm (45W)	Replacement for 70W HID recessed downlight	35%
5,000lm (45W)	Replacement for 70W HID surface mounted downlight	35%
7,500lm (68W)	Replacement for 100W HID surface mounted downlight	32%
10,000lm (91W)	Replacement for 150W HID surface mounted downlight	up to 40%



Cetus

LED



www.thornlighting.co.uk/CTUL
www.thornlighting.ie/CTUL

Recessed LED downlight with low height, direct replacement for traditional 1x26W or 2x26W compact fluorescent downlights



- High efficacy of up to 110lm/W for low energy consumption
- Direct replacement for traditional 1x26W or 2x26W compact fluorescent downlights with up to 65% energy saving.
- Only 88mm overall height to allow installation into low and restricted ceiling voids
- Sealed to IP44 as standard, suitable for use in bathrooms without the need for separate attachments
- Integral 3 hour emergency option reduces installation time and complexity

MATERIALS/FINISH

Housing/body: aluminium, powder coated white RAL 9016
 Reflector: powder coated white RAL 9016

INSTALLATION/MOUNTING

Cetus LED can be installed tool free, directly out of the box into a wide range of ceiling types and depths from 1–40mm thickness. The overall height of 88mm allows installation into low and restricted ceiling voids. Remote driver makes installation and maintenance quick and easy.

SPECIFICATION

To specify state:
 Cetus LED downlight incorporating thermally optimised, deep drawn, aluminium body with IP44 as standard.
 As Thorn Cetus LED



LAMPS

LED

13-25W

STANDARDS

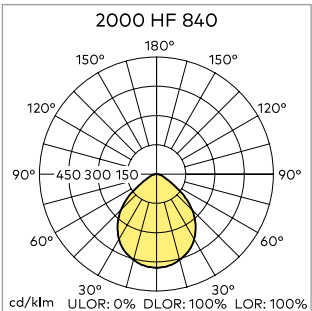
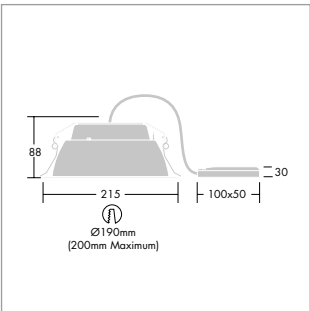
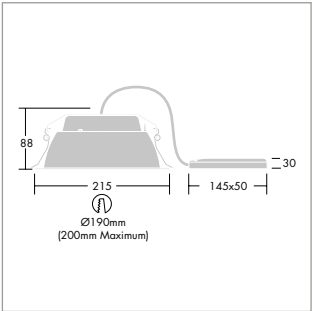
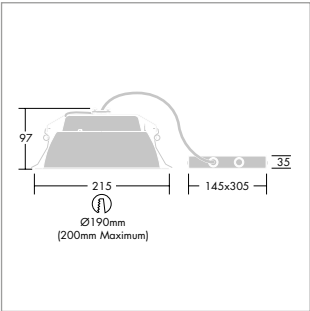


ORDERING GUIDE

Supplied complete with LED module

Description	Wt (kg)	SAP Code	Cat. No.
Cetus LED			
CETUS LED 1000 HF 830	0.70	96242095	CU1000Z3K
CETUS LED 1000 HF 840	0.70	96242096	CU1000Z4K
CETUS LED 2000 HF 830	0.70	96242097	CU2000Z3K
CETUS LED 2000 HF 840	0.70	96242098	CU2000Z4K
Cetus LED Emergency			
CETUS LED 1000 HF E3 830	1.75	96242209	CU1000ZE3K
CETUS LED 1000 HF E3 840	1.75	96242099	CU1000ZE4K
CETUS LED 2000 HF E3 830	1.75	96242210	CU2000ZE3K
CETUS LED 2000 HF E3 840	1.75	96242100	CU2000ZE4K

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Indoor Lighting

DIRECT/INDIRECT AND SURFACE LUMINAIRES

NEW



26
IQ Wave



28
Arena Symphony
LED



30
College



31
EquaLine Mini



32
Jupiter 3

NEW



34
Glacier II LED



37
Prisma

See also



66
Lyric Deco

NEW

IQ Wave

Surface and Suspended



www.thornlighting.co.uk/IQSU
www.thornlighting.ie/IQSU



Comfort without compromise
for office and education



- Simple and flowing lines create a modern but simplistic aesthetic perfect for an elegant office interior
- Innovative and Thorn patented MV tech optic offers excellent uniformity and glare control, direct/indirect light for illuminance on faces and walls to encourage a comfortable, communicative working environment
- Integrated sensors allow you to create flexible control systems suited to your needs. An easy wireless RF solution allows retro fit with no rewiring. Also available are integrated PIR and microwave sensors.
- Various installation options (surface, suspended or continuous run) IQ Wave can adapt to all room situations.

MATERIAL/FINISH

Frame and end caps: polycarbonate TP(a)
 Diffuser: polycarbonate TP(a), aluminium heat sink
 Body: metal sheet white similar to RAL 9016, silver similar to RAL 9006
 Gear tray: pre-coated white steel with polycarbonate TP(a) endcaps

INSTALLATION/MOUNTING

Suspended: Suitable for suspension with included Y suspension Kit and pre-assembled power cord.
 Surface: Suitable for direct surface or BESA mounting, central or end-cap cable entries
 Continuous run: Standard products can be connected via optional continuous run kit Through wiring versions are available

SPECIFICATION

To specify state: A lightweight surface or suspended luminaire with MV Tech Optic. LED indirect light source. Possibility to install as continuous run; BESA installation and through wiring. Indirect/Direct split of 23/77 or 43/57; 3000K/4000K colour temperature, CRI>80 and a lifetime of 50 000 hours @ L90 Ta 25°C including high efficiency at 123lm/W, UGR<19. With control systems, PIR, MWS, RF. As Thorn IQ Wave surface/suspended.

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
IQ Wave Surface			
IQ SURF S LED2600-830 HF	4.0	96629266	IQSSF2600Z3K
IQ SURF S LED2600-840 HF	4.0	96629267	IQSSF2600Z4K
IQ SURF S LED4250-830 HF	4.0	96629268	IQSSF4250Z3K
IQ SURF S LED4250-840 HF	4.0	96629269	IQSSF4250Z4K
IQ SURF L LED4250-830 HF	4.9	96629270	IQLSF4250Z3K
IQ SURF L LED4250-840 HF	4.9	96629271	IQLSF4250Z4K
IQ SURF L LED4900-830 HF	4.9	96629272	IQLSF4900Z3K
IQ SURF L LED4900-840 HF	4.9	96629273	IQLSF4900Z4K
IQ SURF L LED6700-830 HF	4.9	96629274	IQLSF6700Z3K
IQ SURF L LED6700-840 HF	4.9	96629275	IQLSF6700Z4K
IQ Wave Surface, dimmable			
IQ SURF S LED2600-830 HFIX	4.0	96628940	IQSSF2600X3K
IQ SURF S LED2600-840 HFIX	4.0	96628941	IQSSF2600X4K
IQ SURF S LED4250-830 HFIX	4.0	96628942	IQSSF4250X3K
IQ SURF S LED4250-840 HFIX	4.0	96628943	IQSSF4250X4K
IQ SURF L LED4250-830 HFIX	4.9	96628944	IQLSF4250X3K
IQ SURF L LED4250-840 HFIX	4.9	96628945	IQLSF4250X4K
IQ SURF L LED4900-830 HFIX	4.9	96628946	IQLSF4900X3K
IQ SURF L LED4900-840 HFIX	4.9	96628947	IQLSF4900X4K
IQ SURF L LED6700-830 HFIX	4.9	96628948	IQLSF6700X3K
IQ SURF L LED6700-840 HFIX	4.9	96628949	IQLSF6700X4K
IQ Wave Surface Accessories			
IQ SURF CONNECTION KIT STANDARD WH	0.5	96629286	IQSFCKIT
IQ SURF CONNECTION KIT SENSOR WH	0.6	96629287	IQSFCKITS
IQ SURF CONNECTION KIT EMERGENCY WH	0.5	96630058	IQSFCKITE

**LAMPS**

LED

22-61W

STANDARDS

IP20 IP40 IK05

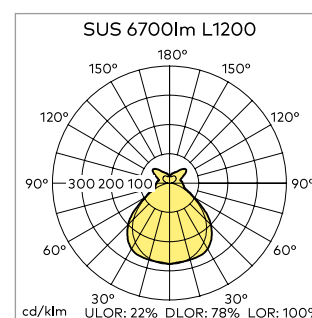
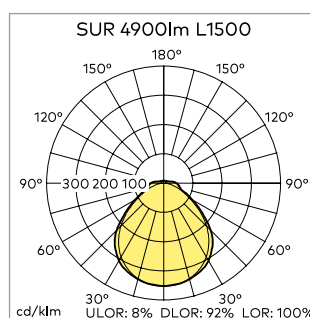
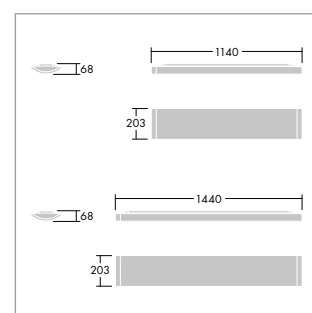
Description	Wt (kg)	SAP Code	Cat. No.
IQ Wave Suspended			
IQ SUSP S LED2600-830 HF ML3	4.3	96629276	IQSS2600Z3K
IQ SUSP S LED2600-840 HF ML3	4.3	96629277	IQSS2600Z4K
IQ SUSP S LED4250-830 HF ML3	4.3	96629278	IQSS4250Z3K
IQ SUSP S LED4250-840 HF ML3	4.3	96629279	IQSS4250Z4K
IQ SUSP S LED4900-830 HF ML3	4.3	96629280	IQSS4900Z3K
IQ SUSP S LED4900-840 HF ML3	4.3	96629281	IQSS4900Z4K
IQ SUSP S LED6700-830 HF ML3	4.3	96629282	IQSS6700Z3K
IQ SUSP S LED6700-840 HF ML3	4.3	96629283	IQSS6700Z4K
IQ Wave Suspended, dimmable			
IQ SUSP S LED2600-830 HFIX ML5	4.3	96628950	IQSS2600X3K
IQ SUSP S LED2600-840 HFIX ML5	4.3	96628951	IQSS2600X4K
IQ SUSP S LED4250-830 HFIX ML5	4.3	96628952	IQSS4250X3K
IQ SUSP S LED4250-840 HFIX ML5	4.3	96628953	IQSS4250X4K
IQ SUSP S LED4900-830 HFIX ML5	4.3	96628954	IQSS4900X3K
IQ SUSP S LED4900-840 HFIX ML5	4.3	96628955	IQSS4900X4K
IQ SUSP S LED6700-830 HFIX ML5	4.3	96628956	IQSS6700X3K
IQ SUSP S LED6700-840 HFIX ML5	4.3	96628957	IQSS6700X4K
IQ Wave Suspended Accessories			
IQ SUSP CONNECTION KIT STANDARD WH	0.6	96629284	IQSCKIT
IQ SUSP CONNECTION KIT SENSOR WH	0.7	96629285	IQSCKITS
IQ SUSP CONNECTION KIT EMERGENCY WH	0.6	96630057	IQSCKITE
IQ Wave Infills			
IQ WAVE INFILL 385 WH	1.4	96629772	
IQ WAVE INFILL 565 WH	2.0	96629773	
IQ WAVE INFILL 954 WH	3.2	96629774	
IQ WAVE INFILL 1131 WH	3.8	96629775	
IQ WAVE INFILL 1431 WH	4.7	96629776	

To make reading our ordering guides easier please use the SAP description key fold out, inside the back cover.

myProduct options:

Emergency, Corridor function, Microwave sensor, PIR sensor, Radio frequency communication, Through wiring. All additional variants can be created through myProduct.

For more information please visit our website www.thornlighting.co.uk and simply search for our products.



Arena Symphony LED



www.thornlighting.co.uk/ARNS
www.thornlighting.ie/ARNS



Innovative LED luminaire with sound absorbing features to minimise sound reverberation in classrooms



- Fully compliant with BB93 (measured for an empty classroom) for optimum classroom performance
- Achieves the acoustic and lighting standards with only 6 fittings in 56m² classrooms
- Wide range of control options, including simple ON/OFF, dimming and sensor
- Designed for flexibility offering a choice of infills to adapt the length of the system to match all classroom layouts

MATERIALS/FINISH

Raft: aluminium
 Luminaire frame: aluminium, powder coated white as standard (RAL9010)
 Acoustic material: rocksilk mineral wool fibre
 Optic: acrylic

INSTALLATION/MOUNTING

Suitable for suspension mounting with 4 suspension wires (supplied). Suspension wires are adjustable in height due to the support on the luminaire with millimetre movements, in 2 directions. This product can be used in a system with added infill panels to fulfil the acoustic requirement. Through wiring and quick connector are also provided to aid a fast installation. Sensor version also available with Master and Slave control.

SPECIFICATION

To specify state:
 Innovative acoustic LED luminaire to comply with the BB93 norms and EN12464 inside an empty classroom. Wide variety of infills and accessories to maximise the flexibility.
 As Thorn Arena Symphony LED.

ORDERING GUIDE

Supplied with non-user replaceable LED light source

Description	Wt (kg)	SAP Code	Cat. No.
Arena Symphony LED			
ARENA LED5000-840 HF TW WL6 EDP	22.30	96645147	AS5000ZC
ARENA LED5000-840 HF TW WL6 EFL	23.70	96645146	AS4500ZF
ARENA LED6500-840 HF TW WL6 EDP	22.30	96645149	AS6500ZC
ARENA LED6500-840 HF TW WL6 EFL	23.70	96645148	AS6500ZF
Arena Symphony LED emergency			
ARENA LED5000-840 HF E3 TW WL6 EDP	23.20	96645131	AS5000ZEC
ARENA LED5000-840 HF E3 TW WL6 EFL	24.60	96645130	AS4500ZEF
ARENA LED5000-840 HF E3TX TW WL6 EDP	23.20	96645119	AS5000ZEXC
ARENA LED5000-840 HF E3TX TW WL6 EFL	24.60	96645118	AS4500ZEXF
ARENA LED6500-840 HF E3 TW WL6 EDP	23.20	96645133	AS6500ZEC
ARENA LED6500-840 HF E3 TW WL6 EFL	24.60	96645132	AS6500ZEF
ARENA LED6500-840 HF E3TX TW WL6 EDP	23.20	96645121	AS6500ZEXC
ARENA LED6500-840 HF E3TX TW WL6 EFL	24.60	96645120	AS6500ZEXF
Arena Symphony LED dimmable			
ARENA LED5000-840 HFIX TW WL6 EDP	22.30	96645159	AS5000XC
ARENA LED5000-840 HFIX TW WL6 EFL	23.70	96645158	AS4500XF
ARENA LED6500-840 HFIX TW WL6 EDP	22.30	96645161	AS6500XC
ARENA LED6500-840 HFIX TW WL6 EFL	23.70	96645160	AS6500XF
Arena Symphony LED dimmable, emergency			
ARENA LED5000-840 HFIX E3 TW WL6 EDP	23.20	96645143	AS5000XEC
ARENA LED5000-840 HFIX E3 TW WL6 EFL	24.60	96645142	AS4500XEF
ARENA LED5000-840 HFI-X E3TX TW WL6 EDP	23.20	96645127	AS5000YEXC
ARENA LED5000-840 HFI-X E3TX TW WL6 EFL	24.60	96645126	AS4500YEXF
ARENA LED6500-840 HFIX E3 TW WL6 EDP	23.20	96645145	AS6500XEC
ARENA LED6500-840 HFIX E3 TW WL6 EFL	24.60	96645144	AS6500XEF
ARENA LED6500-840 HFI-X E3TX TW WL6 EDP	23.20	96645129	AS6500YEXC
ARENA LED6500-840 HFI-X E3TX TW WL6 EFL	24.60	96645128	AS6500YEXF



LAMPS



LED

42-55.5W

STANDARDS



IP20

IK03

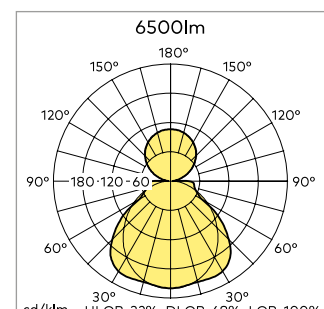
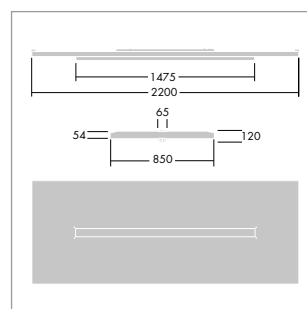
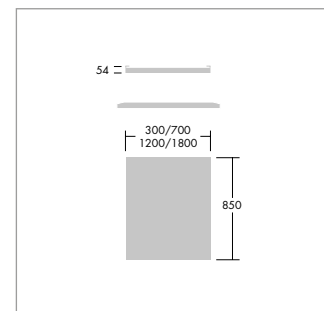
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+25

650°C



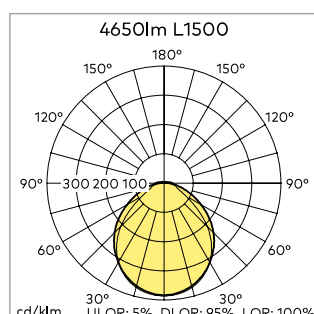
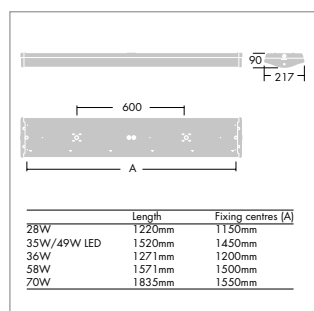
Description	Wt (kg)	SAP Code	Cat. No.
Arena Symphony LED sensor			
ARENA LED5000-840 HFSX TW WL6 EDP	22.30	96645155	AS5000XSC
ARENA LED5000-840 HFSX TW WL6 EFL	23.70	96645154	AS4500XSF
ARENA LED6500-840 HFSX TW WL6 EDP	22.30	96645157	AS6500XSC
ARENA LED6500-840 HFSX TW WL6 EFL	23.70	96645156	AS6500XSF
Arena Symphony LED sensor, emergency			
ARENA LED5000-840 HFSX E3 TW WL6 EDP	23.20	96645139	AS5000XSEC
ARENA LED5000-840 HFSX E3 TW WL6 EFL	24.60	96645138	AS4500XSEF
ARENA LED5000-840 HFSX E3TX TW WL6 EDP	23.20	96645123	AS5000XSEXC
ARENA LED5000-840 HFSX E3TX TW WL6 EFL	24.60	96645122	AS4500XSEXF
ARENA LED6500-840 HFSX E3 TW WL6 EDP	23.20	96645141	AS6500XSEC
ARENA LED6500-840 HFSX E3 TW WL6 EFL	24.60	96645140	AS6500XSEF
ARENA LED6500-840 HFSX E3TX TW WL6 EDP	23.20	96645125	AS6500XSEXC
ARENA LED6500-840 HFSX E3TX TW WL6 EFL	24.60	96645124	AS6500XSEXF
Arena Symphony LED infill panels			
ARENA LED INFILL 1200MM	10.50	96628182	ASI1200
ARENA LED INFILL 1800MM	15.50	96628183	ASI1800
ARENA LED INFILL 300MM	2.50	96628180	ASI300
ARENA LED INFILL 700MM	6.00	96628181	ASI700
Arena Symphony LED control accessories			
SENSA SDP	0.10	96241223	SDP
Arena Symphony LED accessories			
ARENA SYMPHONY LED SUSPENSION KIT	0.25	96628283	ASSURKIT
ARENA SYMPHONY LED SUSPENSION/BAR KIT	0.84	96628281	ASSURBAR
ARENA SYMPHONY LED WALL KIT	0.32	96628282	ASWALLKIT

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- 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.

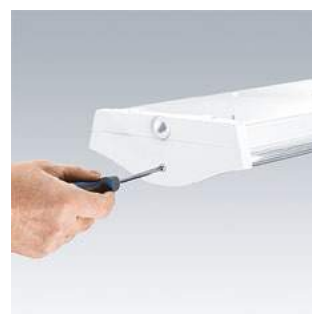
INSTALLATION/MOUNTING

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 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 LEDs for educational lighting.
As Thorn College.

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



LAMPS

LED 17-64W

STANDARDS

CE IP44 IK05 850 °C

ORDERING GUIDE

Supplied with non-user replaceable LED light source

Description	Wt (kg)	SAP Code	Cat. No.
College LED			
COLLEGE LED2100-840 HF L1200	3.63	96628926	CO2100Z4K
COLLEGE LED2900-840 HF L1500	4.44	96628922	CO2900Z4K
COLLEGE LED4200-840 HF L1200	3.63	96628932	CO4200Z4K
COLLEGE LED4650-840 HF L1500	4.44	96628918	CO4650Z4K
COLLEGE LED6500-840 HF L1500	4.44	96628877	CO6500Z4K
College LED emergency			
COLLEGE LED2100-840 HF E3 L1200	4.09	96628927	CO2100ZE4K
COLLEGE LED2900-840 HF E3 L1500	4.90	96628923	CO2900ZE4K
COLLEGE LED4200-840 HF E3 L1200	4.09	96628933	CO4200ZE4K
COLLEGE LED4650-840 HF E3 L1500	4.90	96628919	CO4650ZE4K
COLLEGE LED6500-840 HF E3 L1500	4.90	96628879	CO6500ZE4K
College LED with sensor			
COLLEGE LED2100-840 HF MWS L1200	3.70	96628930	CO2100ZM4K
COLLEGE LED2900-840 HF MWS L1500	4.50	96628881	CO2900ZM4K
COLLEGE LED4200-840 HF MWS L1200	3.70	96628936	CO4200ZM4K
COLLEGE LED4650-840 HF MWS L1500	4.50	96628882	CO4650ZM4K
COLLEGE LED6500-840 HF MWS L1500	4.50	96628883	CO6500ZM4K
College LED dimmable			
COLLEGE LED2100-840 HFIX L1200	3.63	96628928	CO2100X4K
COLLEGE LED2900-840 HFIX L1500	4.44	96628924	CO2900X4K
COLLEGE LED4200-840 HFIX L1200	3.63	96628934	CO4200X4K
COLLEGE LED4650-840 HFIX L1500	4.44	96628920	CO4650X4K
COLLEGE LED6500-840 HFIX L1500	4.44	96628878	CO6500X4K
College LED dimmable, emergency			
COLLEGE LED2100-840 HFIX E3 L1200	4.09	96628929	CO2100XE4K
COLLEGE LED2900-840 HFIX E3 L1500	4.90	96628925	CO2900XE4K
COLLEGE LED4200-840 HFIX E3 L1200	4.09	96628935	CO4200XE4K
COLLEGE LED4650-840 HFIX E3 L1500	4.90	96628921	CO4650XE4K
COLLEGE LED6500-840 HFIX E3 L1500	4.90	96628880	CO6500XE4K
College LED dimmable with sensor			
COLLEGE LED2100-840 HFSX L1200	3.73	96628931	CO2100XS4K
COLLEGE LED2900-840 HFSX L1500	4.57	96628884	CO2900XS4K
COLLEGE LED4200-840 HFSX L1200	3.73	96628937	CO4200XS4K
COLLEGE LED4650-840 HFSX L1500	4.57	96628885	CO4650XS4K
COLLEGE LED6500-840 HFSX L1500	4.57	96628886	CO6500XS4K

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EquaLine

Mini



www.thornlighting.co.uk/EQUM
www.thornlighting.ie/EQUM



LAMPS

LED

9.2-37.2W

STANDARDS

IP20 IK06 T_a25 650°C

- Rectangular shape provides a functional profile without dominating the architecture
- Seamless and consistent lit-line all along the luminaire's entire length
- Anodized aluminium body brings high quality elegant look
- Very high efficacy thanks to the use of latest LED technology

MATERIALS/FINISH

Body: extruded aluminium with anodized finish
 Diffuser: opal PC plastic
 End-cap: dual color injected PC plastic

INSTALLATION/MOUNTING

Suitable for surface or suspended (with optional suspension kit) mounting. Electrical connection either via connector in endcap (version END) or via flap in rear of body. Linear continuous run by connecting output socket in endcap (all versions) and connector in the next luminaire (END versions) with an optional electrical connector.

SPECIFICATION

To specify state:

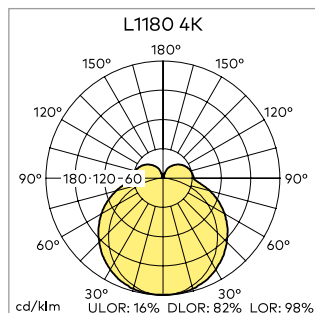
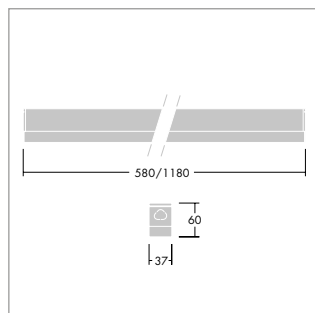
A slender LED batten with aluminium body and opal PC diffuser, lengths of 580mm and 1180mm. High efficacy up to 117lm/W. Can be individual or continuous mounted. Provides lumen packages of 1050, 2100 and 4200lm. As Thorn EquaLine Mini.

ORDERING GUIDE

Supplied with non-user replaceable LED light source

Description	Wt (kg)	SAP Code	Cat. No.
EquaLine Mini			
EQUAMINI L580 LED950-830	0.53	22660806	EQM6950Z3K
EQUAMINI L580 LED950-830 END	0.53	22660814	EQM6950Z3KEND
EQUAMINI L580 LED1050-840	0.53	22660811	EQM61050Z4K
EQUAMINI L580 LED1050-840 END	0.53	22660830	EQM61050Z4KEND
EQUAMINI L1180 LED1900-830	1.04	22660808	EQM121900Z3K
EQUAMINI L1180 LED1900-830 END	1.04	22660816	EQM121900Z3KEND
EQUAMINI L1180 LED2100-840	1.04	22660812	EQM122100Z4K
EQUAMINI L1180 LED2100-840 END	1.04	22660823	EQM122100Z4KEND
EquaLine Mini, DALI dimmable			
EQUAMINI L580 LED1900-830 HFX	0.69	22661227	EQM61900X3K
EQUAMINI L580 LED1900-830 HFX END	0.69	22661240	EQM61900X3KEND
EQUAMINI L580 LED2100-840 HFX	0.69	22661229	EQM62100X4K
EQUAMINI L580 LED2100-840 HFX END	0.69	22661233	EQM62100X4KEND
EQUAMINI L1180 LED3800-830 HFX	1.08	22661228	EQM123800X3K
EQUAMINI L1180 LED3800-830 HFX END	1.08	22661232	EQM123800X3KEND
EQUAMINI L1180 LED4200-840 HFX	1.04	22661231	EQM124200X4K
EQUAMINI L1180 LED4200-840 HFX END	1.04	22661234	EQM124200X4KEND
EquaLine Mini, accessories			
EQUAMINI ELECTRICAL CONNECTOR	0.01	22660825	EQMCON
EQUAMINI I BRACKET (PK 10)	0.01	22660831	EQMI
EQUAMINI L BRACKET (PK 10)	0.01	22660840	EQML
EQUAMINI SIDE FEED IN CABLE 300MM	0.01	22660826	EQMFEED
EQUAMINI SUSPENSION KIT PAIR 1500	0.01	22661235	EQMS1500
EQUAMINI T BRACKET (PK 10)	0.01	22660832	EQMT

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Jupiter 3

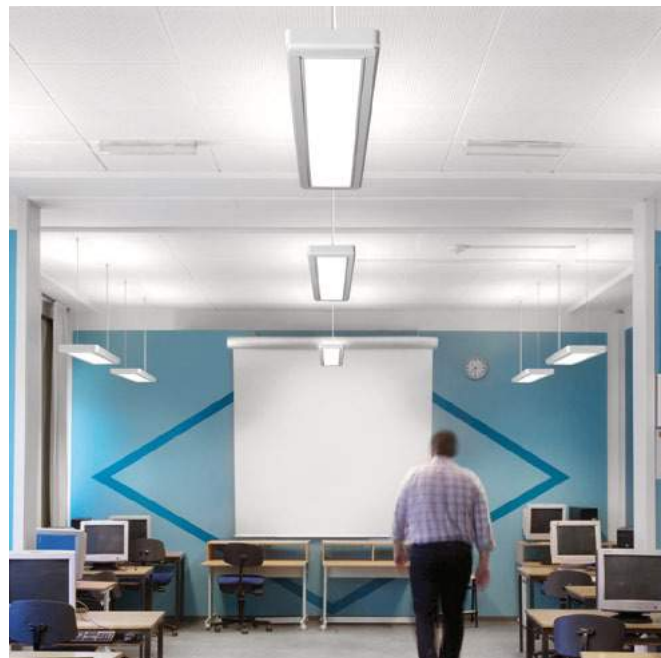
The practical choice for slim and efficient direct/indirect lighting



www.thornlighting.co.uk/JUP3
www.thornlighting.ie/JUP3



Prismatic



- Slim, lightweight luminaire in a simple, practical and robust design
- Maximise energy savings with highly efficient LEDs (>85lm/W) and integrated control options
- Meet the recommendations of EN12464 by adapting lighting to the task environment with surface or suspended, direct or direct/indirect
- 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
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 centres. Can also be suspended for direct illumination via optional suspension kit 96242213. 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). 1090mm 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 surface direct or suspended self-balancing direct/indirect luminaire, microprismatic diffuser, mounted individually or in continuous lines, with dimmable and emergency versions.
As Thorn Jupiter 3.



Asymmetric

ORDERING GUIDE

Supplied with non-user replaceable LED light source

Description	Wt (kg)	SAP Code	Cat. No.
Jupiter 3 Direct LED, dimmable			
JUP3 LED D 2750 HFIX MPT L830	4.40	96642593	JUD2750DMP
JUP3 LED D 2850 HFIX MPT L840	4.40	96241846	JUD2800DMP
JUP3 LED D 4050 HFIX MPT L830	4.40	96642594	JUD4050DMP
JUP3 LED D 4200 HFIX MPT L840	4.40	96241847	JUD4500DMP
Jupiter 3 Direct LED, dimmable, emergency			
JUP3 LED D 2850 HFIX E3 MPT L840	5.30	96241850	JUD2800DEMP
JUP3 LED D 4200 HFIX E3 MPT L840	5.30	96241851	JUD4500DEMP
Jupiter 3 Direct LED, asymmetric			
JUP3 LED A/S 4200 HFIX MPT L830	4.40	96627761	JUDA4200D
JUP3 LED A/S 4200 HFIX MPT L840	4.40	96627760	JUDA4200D
Jupiter 3 Accessories			
JUP3 / CONTO D TWKIT 1200MM	0.50	96241827	JUTWK1200
JUP3 CONNECT KIT TWIN LAMP/LED	0.25	96241824	JUTCON
JUP3 D RAS BRA MWA	0.75	96241825	JUDRAS
JUP3 INFILL PANEL 1243MM TWIN	4.60	96241967	JUIF1200T
JUP3 INFILL PANEL 1543MM TWIN	5.60	96551446	JUIF1500T
JUP3 T16 MSW1 X 2	0.90	96241826	JUMSW1
JUP3/CONTO LED WIRE SUSPENSION KIT	0.21	96242213	JUWS

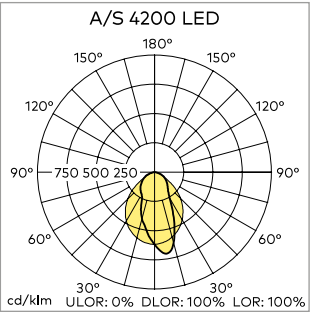
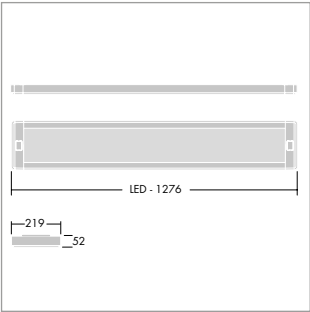
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LAMPS

LED 34.8-51.8W

STANDARDS

CE IP20 T_a25 650°C 850°C



NEW

Glacier II

LED



www.thornlighting.co.uk/GLCL
www.thornlighting.ie/GLCL



Modern and efficient decorative LED pendant luminaire with high lumen packages



- High performance (91-124lm/W) decorative luminaire offers an efficient alternative to traditional HID pendants
- Available in two sizes and two colours
- A choice of 4 reflectors to fit a wide range of applications
- Ceiling rose in same design to complete the look

MATERIAL/FINISH

Housing: die-cast aluminium with satin grey or black finish
 Reflector: polycarbonate prismatic, glass prismatic, opal glass, grey or black spun aluminium
 Suspension wire: braided steel
 Ceiling rose (to be ordered separately): die-cast aluminium with satin grey or black 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:
 Decorative LED pendant in two sizes with die cast aluminium housing on single wire suspension. With polycarbonate prismatic/glass prismatic/opal glass/grey/black spun aluminium reflector. Lumen output from 3000–6000 lumens, efficacy 91–124lm/W, CRI>80. As Thorn Glacier II LED.

ORDERING GUIDE

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code
Glacier II LED, aluminium reflector		
GLAC2 L LED2 3000-830 HFIX EC BK AL BK	4.8	96629784
GLAC2 L LED2 3000-830 HFIX EC GY AL GY	4.8	96629029
GLAC2 L LED2 3500-840 HFIX EC BK AL BK	4.8	96629788
GLAC2 L LED2 3500-840 HFIX EC GY AL GY	4.8	96629030
GLAC2 L LED2 5500-830 HFIX EC BK AL BK	4.8	96629792
GLAC2 L LED2 5500-830 HFIX EC GY AL GY	4.8	96629037
GLAC2 L LED2 6000-840 HFIX EC BK AL BK	4.8	96629796
GLAC2 L LED2 6000-840 HFIX EC GY AL GY	4.8	96629038
GLAC2 S LED2 1000-830 HFIX EC BK AL BK	1.8	96629701
GLAC2 S LED2 1000-830 HFIX EC GY AL GY	1.8	96629698
GLAC2 S LED2 1000-840 HFIX EC BK AL BK	1.8	96629707
GLAC2 S LED2 1000-840 HFIX EC GY AL GY	1.8	96629704
Glacier II LED, prismatic glass reflector		
GLAC2 L LED2 3000-830 HFIX EC BK GL PR	6.8	96629786
GLAC2 L LED2 3000-830 HFIX EC GY GL PR	6.8	96629033
GLAC2 L LED2 3500-840 HFIX EC BK GL PR	6.8	96629790
GLAC2 L LED2 3500-840 HFIX EC GY GL PR	6.8	96629034
GLAC2 L LED2 5500-830 HFIX EC BK GL PR	6.8	96629794
GLAC2 L LED2 5500-830 HFIX EC GY GL PR	6.8	96629041
GLAC2 L LED2 6000-840 HFIX EC BK GL PR	6.8	96629798
GLAC2 L LED2 6000-840 HFIX EC GY GL PR	6.8	96629042
GLAC2 S LED2 1000-830 HFIX EC BK GL PR	3.6	96629699
GLAC2 S LED2 1000-830 HFIX EC GY GL PR	3.6	96629696
GLAC2 S LED2 1000-840 HFIX EC BK GL PR	3.6	96629705
GLAC2 S LED2 1000-840 HFIX EC GY GL PR	3.6	96629702
Glacier II LED, opal glass reflector		
GLAC2 L LED2 3000-830 HFIX EC BK GL OP	6.5	96629785
GLAC2 L LED2 3000-830 HFIX EC GY GL OP	6.5	96629031
GLAC2 L LED2 3500-840 HFIX EC BK GL OP	6.5	96629789
GLAC2 L LED2 3500-840 HFIX EC GY GL OP	6.5	96629032
GLAC2 L LED2 5500-830 HFIX EC BK GL OP	6.5	96629793
GLAC2 L LED2 5500-830 HFIX EC GY GL OP	6.5	96629039
GLAC2 L LED2 6000-840 HFIX EC BK GL OP	6.5	96629797
GLAC2 L LED2 6000-840 HFIX EC GY GL OP	6.5	96629040
GLAC2 S LED2 1000-830 HFIX EC BK GL OP	2.5	96629700
GLAC2 S LED2 1000-830 HFIX EC GY GL OP	2.5	96629697
GLAC2 S LED2 1000-840 HFIX EC BK GL OP	2.5	96629706
GLAC2 S LED2 1000-840 HFIX EC GY GL OP	2.5	96629703



LAMPS

LED

91-119lm/W

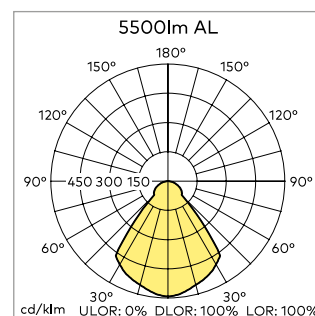
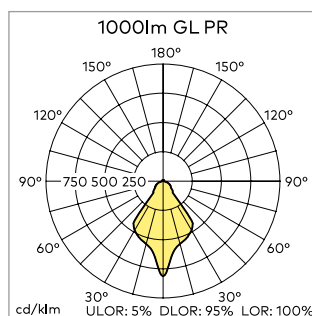
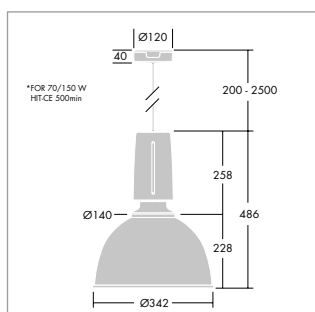
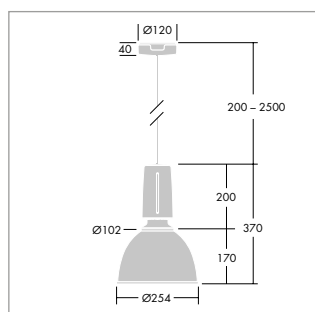
STANDARDS

 IP20 T_a25

Description	Wt (kg)	SAP Code
Glacier II LED, prismatic polycarbonate reflector		
GLAC2 L LED2 3000-830 HFIX EC BK PC PR	5.0	96629787
GLAC2 L LED2 3000-830 HFIX EC GY PC PR	5.0	96629035
GLAC2 L LED2 3500-840 HFIX EC BK PC PR	5.0	96629791
GLAC2 L LED2 3500-840 HFIX EC GY PC PR	5.0	96629036
GLAC2 L LED2 5500-830 HFIX EC BK PC PR	5.0	96629795
GLAC2 L LED2 5500-830 HFIX EC GY PC PR	5.0	96629043
GLAC2 L LED2 6000-840 HFIX EC BK PC PR	5.0	96629799
GLAC2 L LED2 6000-840 HFIX EC GY PC PR	5.0	96629044
Glacier II LED, emergency, aluminium reflector		
GLAC2 L LED2 3000-830 HFIX E3 BK AL BK	5.1	96629800
GLAC2 L LED2 3000-830 HFIX E3 GY AL GY	5.1	96629053
GLAC2 L LED2 3500-840 HFIX E3 BK AL BK	5.1	96629803
GLAC2 L LED2 3500-840 HFIX E3 GY AL GY	5.1	96629056
GLAC2 L LED2 5500-830 HFIX E3 BK AL BK	5.1	96629806
GLAC2 L LED2 5500-830 HFIX E3 GY AL GY	5.1	96629059
GLAC2 L LED2 6000-840 HFIX E3 BK AL BK	5.1	96629809
GLAC2 L LED2 6000-840 HFIX E3 GY AL GY	5.1	96629062
Glacier II LED, emergency, prismatic glass reflector		
GLAC2 L LED2 3000-830 HFIX E3 BK GL PR	7.1	96629801
GLAC2 L LED2 3000-830 HFIX E3 GY GL PR	7.1	96629052
GLAC2 L LED2 3500-840 HFIX E3 BK GL PR	7.1	96629804
GLAC2 L LED2 3500-840 HFIX E3 GY GL PR	7.1	96629055
GLAC2 L LED2 5500-830 HFIX E3 BK GL PR	7.1	96629807
GLAC2 L LED2 5500-830 HFIX E3 GY GL PR	7.1	96629058
GLAC2 L LED2 6000-840 HFIX E3 BK GL PR	7.1	96629810
GLAC2 L LED2 6000-840 HFIX E3 GY GL PR	7.1	96629061

Description	Wt (kg)	SAP Code
Glacier II LED, emergency, prismatic polycarbonate reflector		
GLAC2 L LED2 3000-830 HFIX E3 BK PC PR	5.3	96629802
GLAC2 L LED2 3000-830 HFIX E3 GY PC PR	5.3	96629051
GLAC2 L LED2 3500-840 HFIX E3 BK PC PR	5.3	96629805
GLAC2 L LED2 3500-840 HFIX E3 GY PC PR	5.3	96629054
GLAC2 L LED2 5500-830 HFIX E3 BK PC PR	5.3	96629808
GLAC2 L LED2 5500-830 HFIX E3 GY PC PR	5.3	96629057
GLAC2 L LED2 6000-840 HFIX E3 BK PC PR	5.3	96629811
GLAC2 L LED2 6000-840 HFIX E3 GY PC PR	5.3	96629060
Glacier II LED Accessories		
THORN CEILING ROSE BK	0.5	96629782
THORN CEILING ROSE GY	0.5	96205307

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www.thornlighting.co.uk/PRSM
www.thornlighting.ie/PRSM



- Slim LED luminaire with curved diffuser
- 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
- Sensor (SLDMD) and through wiring options (TW) available

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

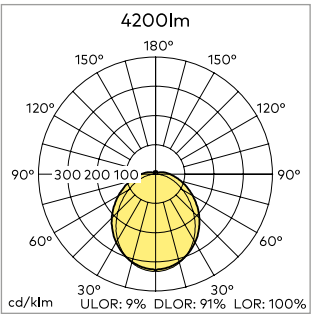
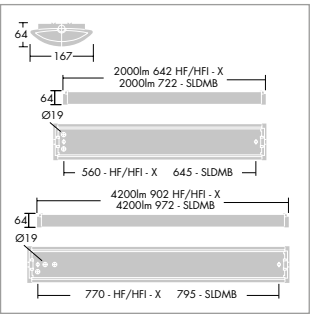
INSTALLATION/MOUNTING
Keyhole fixing positions Ø14mm for direct mounting to ceiling, wall or bracket mounting. Single lamp versions can only be surface mounted. Fixing centres: 2000lm-570mm and 4200lm-770mm. Two cable entries Ø19mm in the centre of the body and a knockout hole in the endcaps. Grommets included. Cable capacity 5 x 2.5mm².

SPECIFICATION
To specify state: Surface/suspended slim LED luminaire with curved opal acrylic diffuser. IP44.
As Thorn Prisma.

ORDERING GUIDE
Supplied complete with lamps

Description	Wt (kg)	SAP Code	Cat. No.
Prisma LED			
PRISMA LED HFI-X 2000 FR L840	2.00	96220712	PR2000Y4K
PRISMA LED HFI-X 2000 FR L840 TW	2.10	96220965	PR2000Y4KTW
PRISMA LED HF 2000 FR L840	2.00	96220711	PR2000Z4K
PRISMA LED HF 2000 FR L840 TW	2.10	96220964	PR2000Z4KTW
PRISMA LED HF 2000 FR SLDMD BASIC L840	2.10	96220715	PR2000ZS4K
PRISMA LED HF 2000 FR SLDMD BASIC L840TW	2.20	96220968	PR2000ZS4KTW
PRISMA LED HF 4200 FR L840	3.10	96220709	PR4200Z4K
PRISMA LED HF 4200 FR L840 TW	3.20	96220962	PR4200Z4KTW
PRISMA LED HF 4200 FR SLDMD BASIC L840	3.20	96220713	PR4200ZS4K
PRISMA LED HF 4200 FR SLDMD BASIC L840TW	3.30	96220966	PR4200ZS4KTW
PRISMA LED HFI-X 4200 FR L840	3.10	96220710	PR4200Y4K
PRISMA LED HFI-X 4200 FR L840 TW	3.20	96220963	PR4200Y4KTW
Accessories			
WIRE SUSPENSION KIT 1,5M	0.15	96204619	WSPK1500

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Indoor Lighting

TRUNKING AND BATTENS



40
Primata LED



42
Primata
Mounting
Accessories



44
Primata Pro



46
PopPack LED

Primata

LED



www.thornlighting.co.uk/PMML
www.thornlighting.ie/PMML



A modular system combining easy project planning and installation with excellent energy efficiency



- Modular trunking system providing easy project planning
- An all-in-one solution: track, batten, optic and LED are combined to produce continuous and seamless light lines
- Excellent energy efficiency of up to 140lm/W
- Tool-free connection for rapid installation

MATERIALS/FINISH

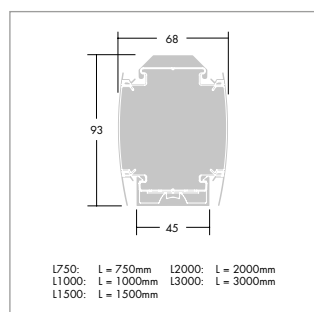
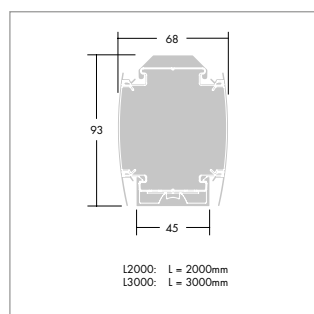
Mounting kits: stainless steel
 Luminaire and infills: roll-formed sheet steel in white polyester lacquered finish (RAL 9016)
 End caps: plastic

INSTALLATION/MOUNTING

A trunking system that enables you to create continuous lines of light for ceiling fixing or suspended mounting on wire or chains. Trunking luminaires come supplied with plug-in 7-pole through wiring and all modules can be joined when pushed together. Tool-free mechanical and electrical connection for rapid installation. Feed to be ordered separately. Optics, accessories and end caps clip onto the luminaire without tools.

SPECIFICATION

To specify state:
 A modular continuous lighting system with trunking, luminaire, optic and LED light source supplied as one, offering tool-free electrical and mechanical installation. Available in two lengths, two optics and lumen packages ranging from 4 600 to 19 000 lumens. As Thorn Primata LED



ORDERING GUIDE

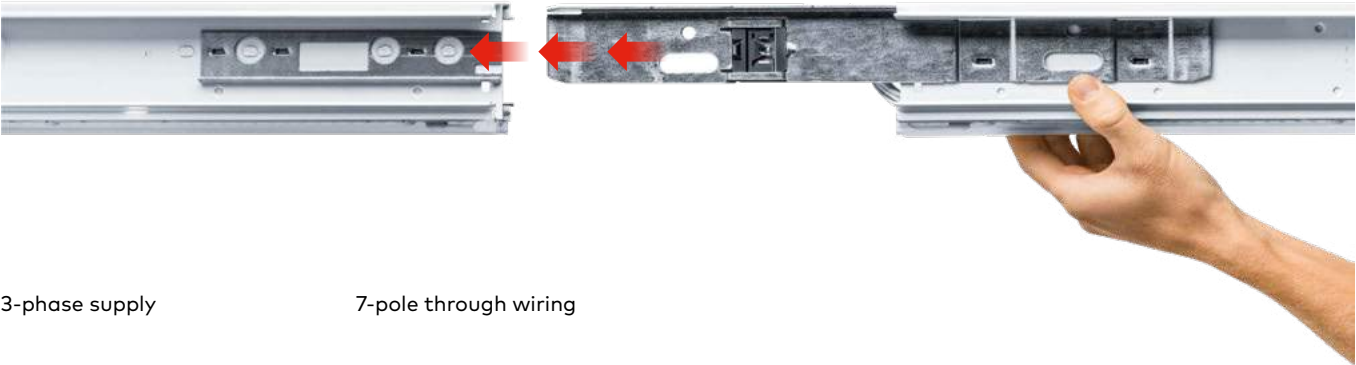
Description	Wt (kg)	SAP Code
Primata LED 4600 lm, 2m trunking with dimmable luminaire		
PRIM L2 LED4600-840 WB HFIX E3 END SET	5.30	96628359
PRIM L2 LED4600-840 WB HFIX E3 SET	6.20	96628358
PRIM L2 LED4600-840 WB HFIX END SET	4.70	96628357
PRIM L2 LED4600-840 WB HFIX SET	5.60	96628356
Primata LED 6600 lm, 3m trunking with dimmable luminaire		
PRIM L3 LED6600-840 WB HFIX E3 END SET	7.80	96628361
PRIM L3 LED6600-840 WB HFIX E3 SET	8.90	96628360
PRIM L3 LED6600-840 WB HFIX END SET	7.20	96628355
PRIM L3 LED6600-840 WB HFIX SET	8.30	96628354
Primata LED 7400 lm, 2m trunking with luminaire		
PRIM L2 LED4600-840 WB HF E3 END SET	5.30	96628648
PRIM L2 LED4600-840 WB HF E3 SET	6.20	96628647
PRIM L2 LED4600-840 WB HF END SET	4.70	96628406
PRIM L2 LED4600-840 WB HF SET	5.60	96628405
PRIM L2 LED7400-840 NB HF E3 END SET	5.30	96628628
PRIM L2 LED7400-840 NB HF E3 SET	6.20	96628627
PRIM L2 LED7400-840 NB HF END SET	4.70	96627358
PRIM L2 LED7400-840 NB HF SET	5.60	96627357
PRIM L2 LED7400-840 WB HF E3 END SET	5.30	96628624
PRIM L2 LED7400-840 WB HF E3 SET	6.20	96628622
PRIM L2 LED7400-840 WB HF END SET	4.70	96627356
PRIM L2 LED7400-840 WB HF SET	5.60	96627355
PRIM L2 LED7400-840 A/A HF E3 END SET	5.30	96628633
PRIM L2 LED7400-840 A/A HF E3 SET	6.20	96628630
PRIM L2 LED7400-840 A/A HF END SET	4.70	96627512
PRIM L2 LED7400-840 A/A HF SET	5.60	96627511
Primata LED 7400 lm, 2m trunking with dimmable luminaire		
PRIM L2 LED7400-840 NB HFIX E3 END SET	5.30	96628594
PRIM L2 LED7400-840 NB HFIX E3 SET	6.20	96628593
PRIM L2 LED7400-840 NB HFIX END SET	4.70	96627370
PRIM L2 LED7400-840 NB HFIX SET	5.60	96627369
PRIM L2 LED7400-840 WB HFIX E3 END SET	5.30	96628592
PRIM L2 LED7400-840 WB HFIX E3 SET	6.20	96628591
PRIM L2 LED7400-840 WB HFIX END SET	4.70	96627368
PRIM L2 LED7400-840 WB HFIX SET	5.60	96627367
PRIM L2 LED7400-840 A/A HFIX E3 END SET	5.30	96628596
PRIM L2 LED7400-840 A/A HFIX E3 SET	6.20	96628595
PRIM L2 LED7400-840 A/A HFIX END SET	4.70	96627514
PRIM L2 LED7400-840 A/A HFIX SET	5.60	96627513

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Primata

Mounting Accessories

www.thornlighting.co.uk/PMBS
www.thornlighting.ie/PMBS



3-phase supply

7-pole through wiring



SIMPLE YET INTELLIGENT FEATURES TO SAVE YOU PRECIOUS TIME

With a continuous-row system consisting of just standard modules, end modules and end caps, Primata can be ordered simply and installed quickly. Both the mechanical and electrical connection is tool-less: the modules slot together and lock in place while the easy plug-in feed provides a hassle-free electrical connection, minimising installation time. For through wiring, the seven pre-wired poles are simply plugged together. Based on a 3-phase supply, up to 3 luminaire groups can be created. In this way, several areas can be defined, or just every second or third luminaire can be switched whenever lower lighting levels are required. After installation, the lateral covers are clipped on to create an unobtrusive, uniform surface.

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Primata LED mounting accessories		
PRIM FIX	0.02	96627406
PRIM FIX/CAD	0.02	96627407
PRIM FIX/CH	0.04	96627413
PRIM MSW1 1M + CADDY CLIP	0.30	96627411
PRIM MSW1 2M + CADDY CLIP	0.50	96627412
PRIM MSW1 5M + CADDY CLIP	0.09	96627408
PRIMATA MSW1 1M	0.02	96627752
PRIMATA MSW1 2M	0.04	96627753
PRIMATA MSW1 5M	0.08	96627754

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Step one » Feed

_____ **Feed** _____

Step two » Mounting kits

```

graph TD
    A[ ] --- B[Chain]
    A --- C[Wire]
    A --- D[Direct ceiling]
    A --- E[Caddy Clip]
    B --- F[Hook]
    B --- G[Knotted chain]

```

Step three » Luminaire

A horizontal timeline with three vertical tick marks. Below the first tick mark is the text "100 %". Below the second tick mark is the text "End". Below the third tick mark is the text "Infill".

Step four » Optics

The diagram illustrates three types of cross-sections: **Narrow**, **Wide**, and **Double asym**. Each type is represented by a corresponding cross-sectional image of a bullet.

Step five » End caps

LED end caps

Step six » Accessories

Emergency

Primata

Pro



www.thornlighting.co.uk/PM2L
www.thornlighting.ie/PM2L



LED continuous row luminaire for quick, tool-less installation

LAMPS

 LED 23-62W

STANDARDS

  IP20 

- Up to 44% more efficient than traditional fluorescent alternatives
- Efficient LEDs deliver up to 7500lm while achieving efficacies of up to 136lm/W to reduce energy consumption, carbon emissions and energy bills
- Simple refurbishment upgrade of existing T5 and T8 installations
- Thorn turnbuckles ensure electrical and mechanical connection in one step

MATERIALS/FINISH

Body: pre-painted white (RAL 9016), roll-formed sheet steel
 Diffuser: acrylic

INSTALLATION/MOUNTING

Luminaire prepared for easy installation into pre-wired trunking, luminaire attaches to trunking by two turnbuckles, providing instant electrical connection via fixed plug and socket system, phase selection at connector.

SPECIFICATION

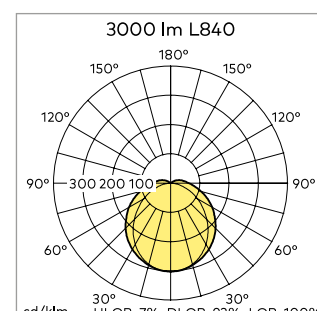
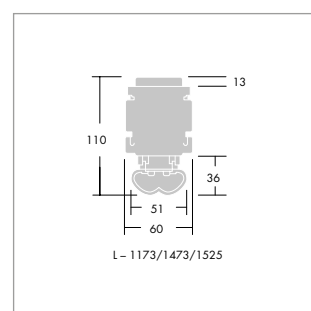
To specify state:
 LED batten for use with 5, 7 or 9 pole Primata II trunking system.
 Lumen packages ranging from 3 000 to 7 500 lumens.
 As Thorn Primata Pro

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code
Primata Pro		
PR PRO L1173 LED 3000-840 HF AC WH	1.90	96627396
PR PRO L1173 LED 4000-840 HF AC WH	1.90	96627395
PR PRO L1525 LED 5000-840 HF AC WH	1.90	96627400
PR PRO L1473 LED 5000-840 HF AC WH	1.90	96627397
PR PRO L1473 LED 6000-840 HF AC WH	1.90	96627502
PR PRO L1525 LED 6000-840 HF AC WH	1.90	96627501
PR PRO L1473 LED 7500-840 HF AC WH	1.90	96627398
PR PRO L1525 LED 7500-840 HF AC WH	1.90	96627399

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Toyota, Norway

TRUNKING AND BATTENS

INDOOR LIGHTING

PopPack LED



www.thornlighting.co.uk/POPL
www.thornlighting.ie/POPL



LED batten for single and twin T8/T5 fluorescent replacement



- LED one for one replacement for single and twin T8/T5 (35W up to 80W) fluorescent batten
- Only 28W, 41W and 60W total load, up to 67% energy reduction vs traditional switch start
- Further savings can be achieved via the DALI dimmable version in combination with remote presence/daylight sensors
- Up to 110lm/W - exceeding building regulation requirements

MATERIALS/FINISH

Batten: pre-coated roll form steel, white (RAL9016)
End caps/lamp holders: injection moulded polycarbonate, white
Diffuser: textured opal acrylic

INSTALLATION/MOUNTING

4/6 way terminal block with capacity for loop in/out 2.5mm² cables. Detachable LED engine for easy installation and replacement. Ambient temperature: -20 to +25°C for the standard product, 0 to +25°C for the emergency versions, normal, dry and indoor atmospheres. Fixation to central BESA fixing or entrance through spine. Through wiring possible through knock out holes in the spine and end caps. Easy alignment through slots in the spine. Bare battens can be mounted end to end (except emergency versions - recommended minimum space between luminaires 50mm).

SPECIFICATION

To specify state:
LED batten with a removable LED engine. Switchable or DALI driver, integral emergency and sensor versions available.
As Thorn PopPack LED

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
PopPack LED battens			
POPPACK LED3000-830 HF L1200	1.40	96628443	PP3000Z4F3K
POPPACK LED3000-840 HF L1200	1.40	96242241	PP3000Z4F
POPPACK LED4000-840 HF L1500	1.70	96643378	PP4000Z5F
POPPACK LED4000-830 HF L1500	1.70	96628446	PP4000Z5F3K
POPPACK LED4500-840 HF L1200	1.40	96242245	PP4500Z4F
POPPACK LED4500-830 HF L1200	1.40	96628444	PP4500Z4F3K
POPPACK LED6000-840 HF L1500	1.70	96643382	PP6000Z5F
POPPACK LED6000-830 HF L1500	1.70	96628447	PP6000Z5F3K
POPPACK LED6500-830 HF L1800	1.80	96628448	PP6500Z6F3K
POPPACK +LED7000-840 HF L1200	1.90	96628127	PP7000Z4F
POPPACK LED6500-840 HF L1800	1.80	96242249	PP6500Z6F
POPPACK LED7000-830 HF L1200	1.90	96628445	PP7000Z4F3K
PopPack LED battens, dimmable			
POPPACK LED3000-840 HFI L1200	1.40	96242243	PP3000D4F
POPPACK LED4000-840 HFI L1500	1.70	96643380	PP4000D5F
POPPACK LED4500-840 HFI L1200	1.40	96242247	PP4500D4F
POPPACK LED6000-840 HFI L1500	1.70	96643384	PP6000D5F
POPPACK +LED7000-840 HFI L1200	1.40	96643386	PP7000D4F
POPPACK LED6500-840 HFI L1800	2.00	96242251	PP6500D6F
POPPACK +LED9000-840 HFI L1500	1.70	96643388	PP9000D5F
PopPack LED battens, emergency			
POPPACK LED3000-840 HF E3 L1200	2.00	96242242	PP3000ZE4F
POPPACK LED4000-840 HF E3 L1500	2.30	96643379	PP4000ZE5F
POPPACK LED4500-840 HF E3 L1200	2.00	96242246	PP4500ZE4F
POPPACK LED6000-840 HF E3 L1500	2.30	96643383	PP6000ZE5F
POPPACK +LED7000-840 HF E3 L1200	2.00	96628128	PP7000ZE4F
POPPACK LED6500-840 HF E3 L1800	2.60	96242250	PP6500ZE6F
PopPack LED battens, dimmable, emergency			
POPPACK LED3000-840 HFI E3 L1200	2.00	96242244	PP3000DE4F
POPPACK LED4000-840 HFI E3 L1500	2.30	96643381	PP4000DE5F
POPPACK LED4500-840 HFI E3 L1200	2.00	96242248	PP4500DE4F
POPPACK LED6000-840 HFI E3 L1500	2.30	96643385	PP6000DE5F
POPPACK +LED7000-840 HFI E3 L1200	2.00	96643387	PP7000DE4F
POPPACK LED6500-840 HFI E3 L1800	2.60	96242252	PP6500DE6F



LAMPS



LED

26-75.2W

STANDARDS



IP20

IK03

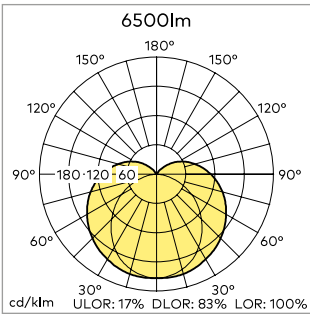
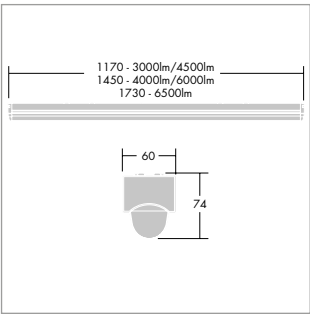
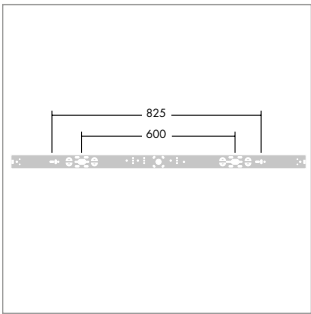
T_a-20
+25

650°C



Description	Wt (kg)	SAP Code	Cat. No.
PopPack LED battens, with sensor			
POPPACK LED3000-840 HF PIR L1200	1.50	96627653	PP3000ZS4F
POPPACK LED4000-840 HF PIR L1500	1.80	96643390	PP4000ZS5F
POPPACK LED4500-840 HF PIR L1200	1.50	96627654	PP4500ZS4F
POPPACK LED6000-840 HF PIR L1500	1.80	96643391	PP6000ZS5F
POPPACK +LED7000-840 HF PIR L1200	1.50	96628129	PP7000ZS4F
POPPACK LED6500-840 HF PIR L1800	2.10	96627655	PP6500ZS6F
POPPACK +LED9000-840 HF PIR L1500	1.80	96628130	PP9000ZS5F
PopPack LED accessories			
POPPACK LED SPARE LED ENGINE 1,2M/4FT	0.76	96627755	PPENG4F
POPPACK LED SPARE LED ENGINE 1,5M/5FT	0.78	96628148	PPENG5F
POPPACK LED SPARE LED ENGINE 1,8M/6FT	1.05	96627756	PPENG6F
POPPACK LED WIRE GUARD 1,2M	0.69	96627902	PPWG4F
POPPACK LED WIRE GUARD 1,5M	0.74	96628147	PPWG5F
POPPACK LED WIRE GUARD 1,8M	1.04	96627903	PPWG6F
POPPACK LED WIRE SUSPENSION KIT 2M	0.25	96627711	PPSUS2M
SWITCHLITE CC PROGRAMMER	0.02	96240295	SWCCPROG

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Indoor Lighting

RECESSED MODULAR LUMINAIRES



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IQ Wave



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Beta Office



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Omega Circular



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Omega Pro



56
Omega LED

NEW

IQ Wave

Recessed



www.thornlighting.co.uk/IQWV
www.thornlighting.ie/IQWV



Our next generation office luminaire features intelligent innovation in 4 key areas, design, optic, control and installation



LAMPS

LED

30-40.5W

STANDARDS

CE IP20 IK03 T_a 0 +25 650 °C

- Design: An award winning luminaire with simple and flowing lines that helps to create a modern but simplistic aesthetic perfect for an elegant office interior
- Optics: innovative MV tech optic designed by our expert optical team offers excellent uniformity and glare control, direct/indirect light for illuminance on faces and walls to encourage a comfortable, communicative working environment
- Controls: integrated sensors allow you to create flexible controls systems suited to your needs. We have introduced a wireless RF solution for easy retro fit with no rewiring. Also available are integrated PIR and microwave sensors
- Installation: with our new red flag design you can easily access the pull up set from below the ceiling without the need to remove the optics from the product, allowing for a more secure fixing to the ceiling

MATERIALS/FINISH

Frame and end caps: polycarbonate (TPA)
 Diffuser: polycarbonate, aluminium designed heatsink
 Body: highly reflective steel coffer
 Gear tray: pre-coated white steel

INSTALLATION/MOUNTING

Suitable for lay in, with accessory suitable for pull up into concealed grid and plasterboard ceilings.

SPECIFICATION

To specify state:
 A lightweight recessed luminaire for exposed T, plasterboard and concealed grid systems with MV tech optic. LED indirect light source. 3000K/4000K/6500K colour temperature, CRI >80 and a lifetime of 50 000 hours @ L90 Ta 25°C including high efficiency at 103 lm/W, UGR<19. With control systems, PIR, MWS, RF. As Thorn IQ Wave.

ORDERING GUIDE

Variants available via MyProduct

Description	Wt (kg)	SAP Code	Cat. No.
IQ Wave			
IQ WAVE LED3100-830 R2M Q597 MRE	3.80	96628132	IQWR3100R3K
IQ WAVE LED3100-840 R2M Q597 MRE	3.80	96628133	IQWR3100R4K
IQ WAVE LED3100-865 R2M Q597 MRE	3.80	96628134	IQWR3100R6K
IQ WAVE LED4100-830 R2M Q597 MRE	3.80	96628135	IQWR4100R3K
IQ WAVE LED4100-840 R2M Q597 MRE	3.80	96628136	IQWR4100R4K
IQ WAVE LED4100-865 R2M Q597 MRE	3.80	96628137	IQWR4100R6K
IQ Wave configured articles			
IQ WAVE LED3100-830 HFIX Q597 MRE ML5	3.80	96628294	
IQ WAVE LED3100-830 R2M MWS RF Q597 MRE	3.80	92900299	
IQ WAVE LED3100-840 R2M MWS RF Q597 MRE	3.80	92900292	
IQ WAVE LED4100-830 HFIX Q597 MRE ML5	3.80	96628295	
IQ WAVE LED4100-830 R2M MWS RF Q597 MRE	3.80	92900313	
IQ WAVE LED4100-840 MWS RF Q597 MRE	3.80	92900249	
IQ WAVE LED4100-840 MWS RF Q597 MRE	3.80	92900248	
IQ Wave configured articles, emergency			
IQ WAVE LED3100-830 R2M E3 Q597 MRE	4.40	92900337	
IQ WAVE LED3100-840 R2M E3 Q597 MRE	4.40	96628316	IQWR3100RE4K
IQ WAVE LED4100-830 R2M E3 Q597 MRE	4.40	92900338	
IQ WAVE LED4100-840 R2M E3 Q597 MRE	4.40	96628317	IQWR4100XE4K
IQ Wave dimmable, emergency			
IQ WAVE LED3100-830 HFIX E3 Q597 MRE	4.40	92900336	
IQ WAVE LED3100-830 HFIX E3TX Q597 MRE	4.40	92900305	
IQ WAVE LED3100-840 HFIX E3 Q597 MRE	4.40	92900290	
IQ WAVE LED3100-840 HFIX E3TX Q597 MRE	4.40	92900246	
IQ WAVE LED3100-865 HFIX E3 Q597 MRE	4.40	92900308	
IQ WAVE LED4100-830 HFIX E3 Q597 MRE	4.40	92900340	
IQ WAVE LED4100-830 HFIX E3TX Q597 MRE	4.40	92900341	
IQ WAVE LED4100-840 HFIX E3 Q597 MRE	4.40	92900266	
IQ WAVE LED4100-840 HFIX E3TX Q597 MRE	4.40	92900294	
IQ Wave accessory			
IQ WAVE RED FLAG PULL UP KIT	0.05	96628290	IQWRPULLUPKIT
REMOTECONTROL IR6	0.02	28000647	

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Performance Guide - 3100 lumens

Open plan office

Ceiling Height	Luminaire Spacings	Lux Level Average	Uniformity	UGR	Cylindrical Illuminance	Modelling Index
Metres	Metres	E _m	U _o	UGR	E _{cyl}	E _{cyl} /E _m
2.4	3.0 x 3.0	327 lux	0.65	18	142 lux	0.43
	3.0 x 2.4	403 lux	0.76	18	168 lux	0.42
	2.4 x 2.4	493 lux	0.87	18	200 lux	0.41
2.7	3.0 x 3.0	319 lux	0.84	18	135 lux	0.42
	3.0 x 2.4	388 lux	0.81	18	164 lux	0.42
	2.4 x 2.4	473 lux	0.88	18	196 lux	0.41
3.0	3.0 x 3.0	310 lux	0.89	18	129 lux	0.42
	3.0 x 2.4	376 lux	0.83	18	155 lux	0.41
	2.4 x 2.4	459 lux	0.88	18	187 lux	0.41

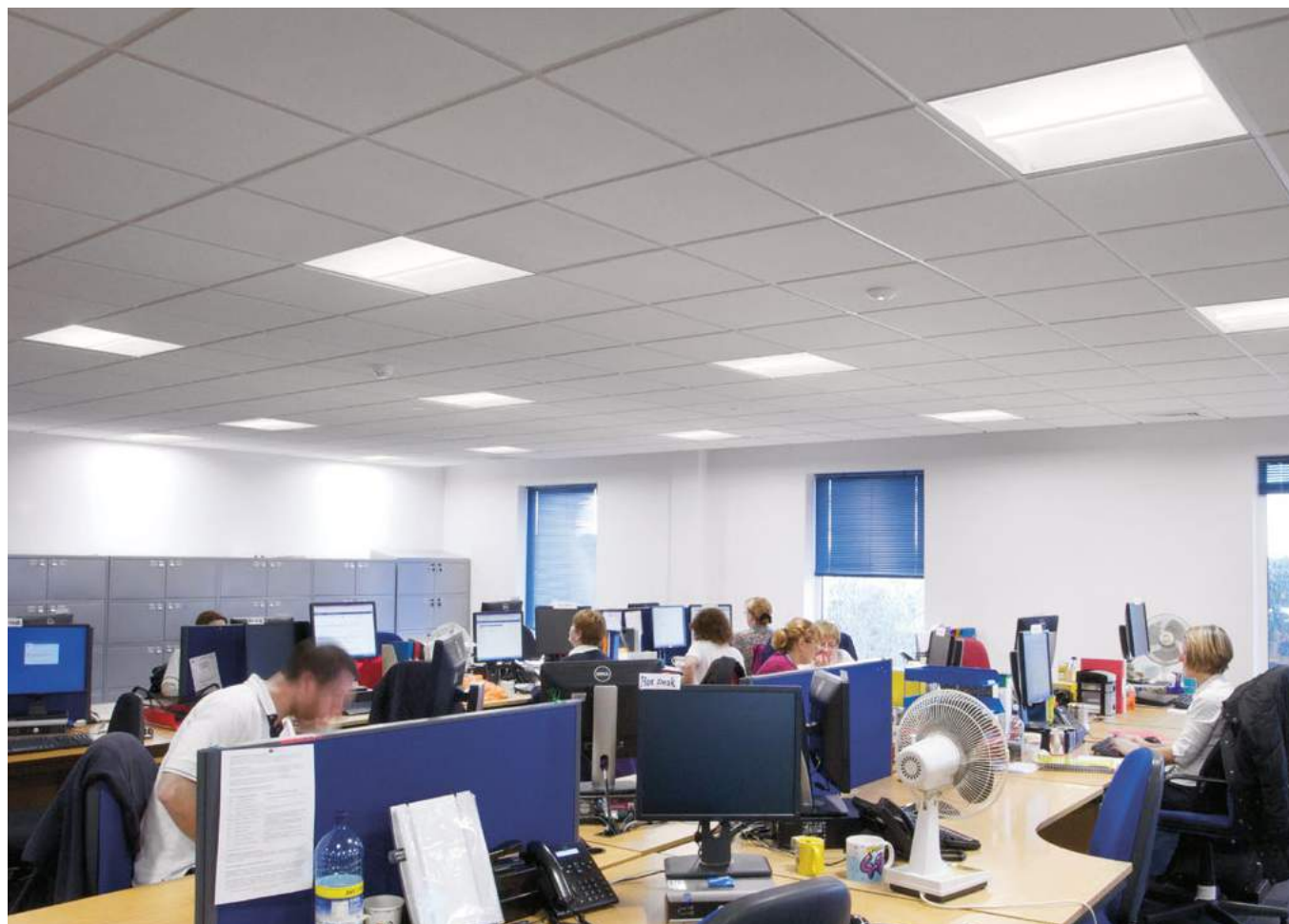
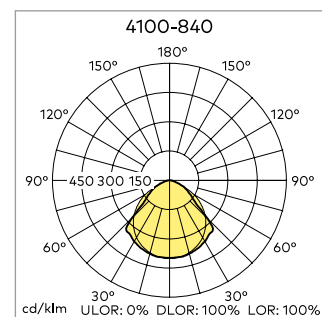
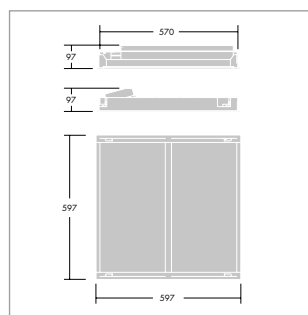
Based on a 13.8 x 13.8 metre open plan office with 70/50/20 reflectances, a 0.80 maintenance factor and 0.8 working plane

Performance Guide - 4100 lumens

Open plan office

Ceiling Height	Luminaire Spacings	Lux Level Average	Uniformity	UGR	Cylindrical Illuminance	Modelling Index
Metres	Metres	E _m	U _o	UGR	E _{cyl}	E _{cyl} /E _m
2.4	3.0 x 3.0	433 lux	0.65	19	187 lux	0.43
	3.0 x 2.4	534 lux	0.76	19	223 lux	0.42
	2.4 x 2.4	652 lux	0.87	19	265 lux	0.41
2.7	3.0 x 3.0	422 lux	0.84	19	178 lux	0.42
	3.0 x 2.4	513 lux	0.81	19	217 lux	0.42
	2.4 x 2.4	625 lux	0.88	19	260 lux	0.42
3.0	3.0 x 3.0	410 lux	0.89	19	170 lux	0.41
	3.0 x 2.4	498 lux	0.83	19	205 lux	0.41
	2.4 x 2.4	607 lux	0.88	19	247 lux	0.41

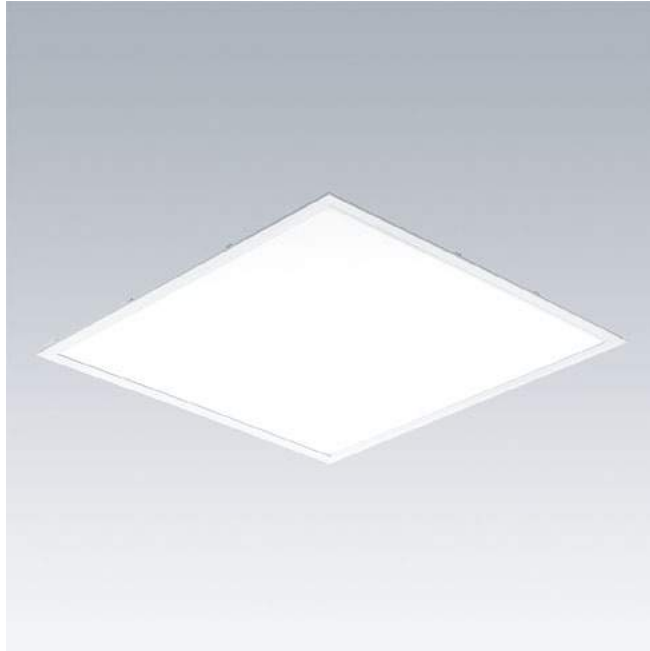
Based on a 13.8 x 13.8 metre open plan office with 70/50/20 reflectances, a 0.80 maintenance factor and 0.8 working plane



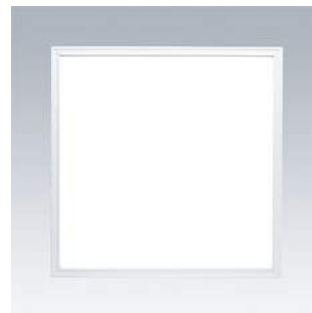
Beta Office



www.thornlighting.co.uk/BETA
www.thornlighting.ie/BETA



An alternative recessed panel which bridges the economic gap between LED technology and conventional light sources



LAMPS

LED

34-38W

STANDARDS

CE IP20 IK03 T_a25 650°C

- The prismatic diffuser is perfect for working areas as well as circulation areas in an office building
- Beta Office adheres to the office lighting norm (EN12464) making it perfect for working environments
- Excellent core essentials provide high performance whilst minimalist construction ensures affordability

MATERIALS/FINISH

Frame: aluminium (RAL 9016)
 Diffuser: prismatic

INSTALLATION/MOUNTING

Suitable for recessed mounting in lay-in exposed T grid systems.

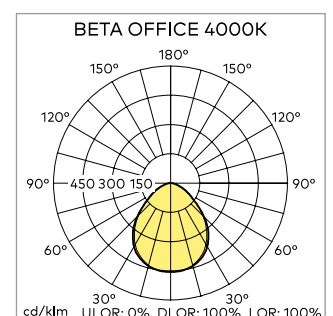
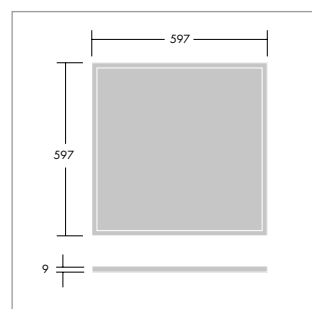
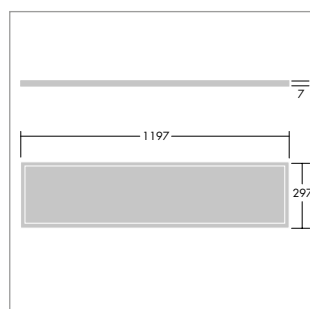
SPECIFICATION

To specify state:
 A light weight recessed luminaire for exposed T grid systems with LED light source. 3000K and 4000K colour temperature, CRI >80 and a lifetime of 50,000 hours @ L70 Ta 25°C including high efficiency up to 111lm/W, UGR<19.
 As Thorn Beta Office.

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Beta Office 600x600			
BETA OFFICE LED4000-830 HF E3 Q597	5.40	96628248	BETO4000ZE3K
BETA OFFICE LED4000-830 HF Q597	4.10	96628245	BETO4000Z3K
BETA OFFICE LED4000-830 HFIX E3 Q597	4.70	96665835	BETO4000XE3K
BETA OFFICE LED4000-830 HFIX Q597	4.10	96665831	BETO4000X3K
BETA OFFICE LED4000-840 HF E3 Q597	5.40	96628247	BETO4000ZE4K
BETA OFFICE LED4000-840 HF Q597	4.10	96628244	BETO4000Z4K
BETA OFFICE LED4000-840 HFIX E3 Q597	4.70	96665834	BETO4000XE4K
BETA OFFICE LED4000-840 HFIX Q597	4.10	96665830	BETO4000X4K
Beta Office 300x1200			
BETA OFFICE LED3400-830 HF 1197X297	4.10	96665837	BETO3400Z3K12X3
BETA OFFICE LED3400-830 HF E3 1197X297	4.70	96665841	BETO3400ZE3K12X3
BETA OFFICE LED3400-830 HFIX 1197X297	4.40	96665839	BETO3400X3K12X3
BETA OFFICE LED3400-840 HF 1197X297	4.10	96665836	BETO3400Z4K12X3
BETA OFFICE LED3400-840 HF E3 1197X297	4.70	96665840	BETO3400ZE4K12X3
BETA OFFICE LED3400-840 HFIX 1197X297	4.40	96665838	BETO3400X4K12X3

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Omega

Circular



www.thornlighting.co.uk/OMGC
www.thornlighting.ie/OMGC



The Omega Circular is an extension to the Omega family which offers the freedom to change the geometry of the space



LAMPS

LED

16.4-42W

STANDARDS

CE IP20 IK02 T_a 0 +25

- Freedom of design: When you are looking for something different, we can help create a considered design with all new shapes
- Full family: There is a 200mm, 400mm and 500mm diameter product which offers you the choice to use this family in all kinds of spaces
- Application: Could replace a 600x600mm product in a wide variety of spaces in an office or school
- Unique installation: Created to fit exactly the tools a contractor would have in their toolbox.

MATERIALS/FINISH

Frame: aluminium
Body: sheet steel (RAL9016)
Diffuser: opal acrylic

INSTALLATION/MOUNTING

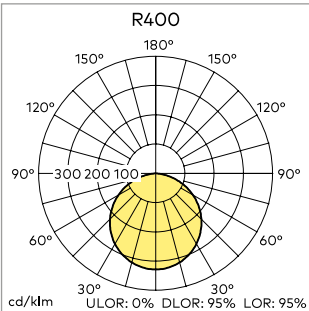
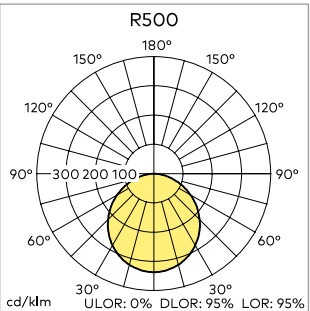
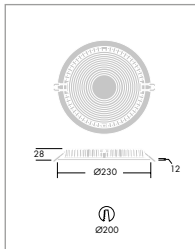
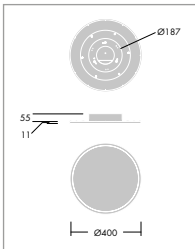
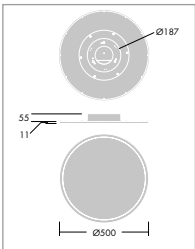
Suitable for semi recessed using twist and lock function, surface mounted can be achieved with this mechanism also.

SPECIFICATION

To specify state:
A versatile circular edge lit panel for recessed mounting, with LED light source with 3000/4000K colour temperature, CRI >80 and a lifetime of 50 000 hours @L70 Ta 25°C
As Thorn Omega Circular

ORDERING GUIDE

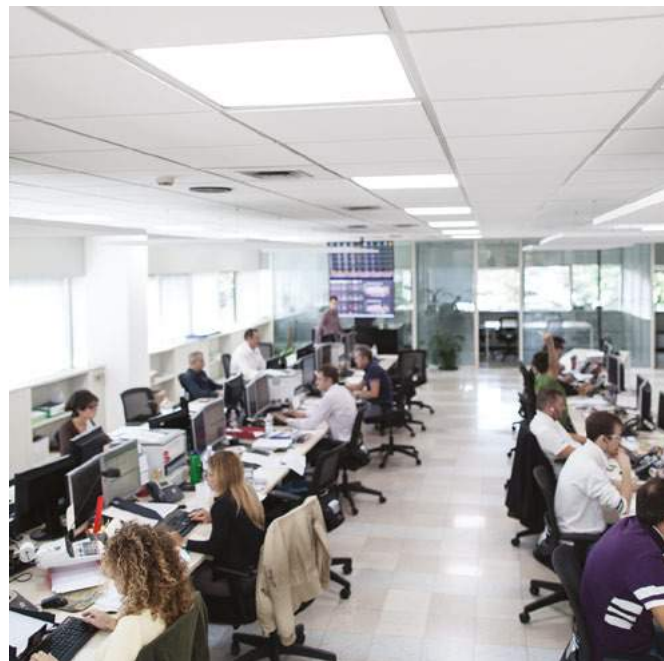
Description	Wt (kg)	SAP Code	Cat. No.
Omega Circular			
OMEGA C LED1600-830 HF R200	1.00	96627763	OMC1600Z3K
OMEGA C LED1600-840 HF R200	1.00	96627762	OMC1600Z4K
OMEGA C LED2800-830 HF R400	3.30	96627771	OMC2800Z3K
OMEGA C LED2800-840 HF R400	3.30	96627770	OMC2800Z4K
OMEGA C LED3200-830 HF R500	4.50	96627779	OMC3200Z3K
OMEGA C LED3200-840 HF R500	4.50	96627778	OMC3200Z4K
Omega Circular emergency			
OMEGA C LED1600-830 HF E3 R200	1.00	96627767	
OMEGA C LED1600-840 HF E3 R200	1.00	96627766	
OMEGA C LED2800-830 HF E3 R400	3.30	96627775	OMC2800ZE3K
OMEGA C LED2800-840 HF E3 R400	3.30	96627774	OMC2800ZE4K
OMEGA C LED3200-830 HF E3 R500	4.50	96627783	OMC3200ZE3K
OMEGA C LED3200-840 HF E3 R500	4.50	96627782	OMC3200ZE4K
Omega Circular dimmable			
OMEGA C LED1600-830 HFIX R200	1.00	96627765	OMC1600X3K
OMEGA C LED1600-840 HFIX R200	1.00	96627764	OMC1600X4K
OMEGA C LED2800-830 HFIX R400	3.30	96627773	OMC2800X3K
OMEGA C LED2800-840 HFIX R400	3.30	96627772	OMC2800X4K
OMEGA C LED3200-830 HFIX R500	4.50	96627781	OMC3200X3K
OMEGA C LED3200-840 HFIX R500	4.50	96627780	OMC3200X4K
Omega Circular dimmable, emergency			
OMEGA C LED1600-830 HFIX E3 R200	1.00	96627769	
OMEGA C LED1600-840 HFIX E3 R200	1.00	96627768	
OMEGA C LED2800-830 HFIX E3 R400	3.30	96627777	OMC2800XE3K
OMEGA C LED2800-840 HFIX E3 R400	3.30	96627776	OMC2800XE4K
OMEGA C LED3200-830 HFIX E3 R500	4.50	96627785	OMC3200XE3K
OMEGA C LED3200-840 HFIX E3 R500	4.50	96627784	OMC3200XE4K
Omega Circular suspension accessory			
OMEGA CIRCULAR SUSPENSION ACCESSORY		96108617	



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Comfort and style: Edge lit flat panel range with unique glare control



- Efficient LED edge lit solution with unique Glare ProTech prismatic optic for high performance optical and glare control
- Ideal LED solution for office lighting complying with EN 12464 office lighting norms (UGR <19 in any room size and <2500 cd/m² at 65°)
- Class leading glare control on screens and increased comfort for all users of the space
- A direct replacement for 4x14W recessed luminaires

MATERIALS/FINISH

Body: mild sheet steel, white (RAL9016)
 Diffuser: UV-stabilised, Glare ProTech prismatic optic

INSTALLATION/MOUNTING

Omega Pro LED is suitable for lay-in installation into 15mm or 24mm exposed T grid ceilings. The luminaire simply lays onto the ceiling grid for quick installation. For installation from below into concealed metal ceilings, versions with pre-assembled bracket (MRM) are available.

Surface mounting: collar type - fixed to the ceiling with 4 screws via keyhole slots, product to be laid in.
 Suspended mounting: suspended via adjustable wire suspension (1500mm), 4 fixing points to the ceiling.

SPECIFICATION

To specify state:

A versatile edge lit panel for recessed, surface and suspended mounting with LED light source with 3000/4000°K colour temperature. Compliant to DSE requirements within EN12464 providing UGR < 19 due to unique Glare ProTech prismatic optic. CRI > 80. As Thorn Omega Pro LED

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Omega Pro 600x600			
OMEGA PRO LED3400-840 HF Q597 MRM	5.17	96630218	OMPM3400Z4K
OMEGA PRO LED3400-840 HF Q597	4.77	96629736	OMP3400Z4K
OMEGA PRO LED4200-830 HF Q597	5.6	96629737	OMP4200Z3K
OMEGA PRO LED4200-830 HF Q597 MRM	6.0	96630186	OMPM4200Z3K
OMEGA PRO LED4200-840 HF Q597	5.6	96629738	OMP4200Z4K
OMEGA PRO LED4200-840 HF Q597 MRM	6.0	96630222	OMPM4200Z4K
Omega Pro 600x600 Emergency			
OMEGA PRO LED3400-840 HF E3 Q597 MRM	6.32	96630219	OMPM3400ZE4K
OMEGA PRO LED3400-840 HF E3 Q597	5.92	96630216	OMP3400ZE4K
OMEGA PRO LED4200-840 HF E3 Q597	7.2	96630187	OMP4200ZE4K
OMEGA PRO LED4200-840 HF E3 Q597 MRM	7.6	96630188	OMPM4200ZE4K
Omega Pro 600x600 Dimmable			
OMEGA PRO LED3400-840 HFIX Q597 MRM	5.25	96630220	OMPM3400X4K
OMEGA PRO LED3400-840 HFIX Q597	4.85	96629739	OMP3400X4K
OMEGA PRO LED4200-830 HFIX Q597	5.6	96629740	OMP4200X3K
OMEGA PRO LED4200-830 HFIX Q597 MRM	6.0	96630196	OMPM4200X3K
OMEGA PRO LED4200-840 HFIX Q597	5.6	96629741	OMP4200X4K
OMEGA PRO LED4200-840 HFIX Q597 MRM	5.8	96630195	OMPM4200X4K
Omega Pro 600x600 Dimmable, emergency			
OMEGA PRO LED3400-840 HFIX E3 Q597 MRM	6.4	96630221	OMPM3400XE4K
OMEGA PRO LED3400-840 HFIX E3 Q597	6.0	96630217	OMP3400XE4K
OMEGA PRO LED4200-830 HFIX E3 Q597	7.2	96630199	OMP4200XE3K
OMEGA PRO LED4200-830 HFIX E3 Q597 MRM	7.6	96630200	OMPM4200XE3K
OMEGA PRO LED4200-840 HFIX E3 Q597	7.2	96630197	OMP4200XE4K
OMEGA PRO LED4200-840 HFIX E3 Q597 MRM	7.6	96630198	OMPM4200XE4K
Omega Pro 300x1200			
OMEGA PRO 3150 HF 3X12 LED830	5.60	96627425	OMP3150Z3K
OMEGA PRO 3150 HF 3X12 LED840	5.60	96627424	OMP3150Z4K
Omega Pro 300x1200 Emergency			
OMEGA PRO 3150 HF E3 3X12 LED830	7.40	96627429	OMP3150ZE3K
OMEGA PRO 3150 HF E3 3X12 LED840	7.40	96627428	OMP3150ZE4K



LAMPS

LED

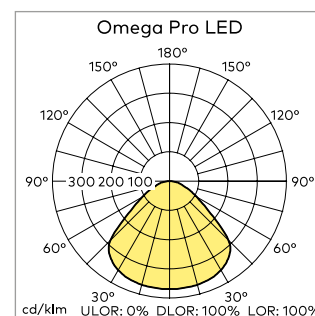
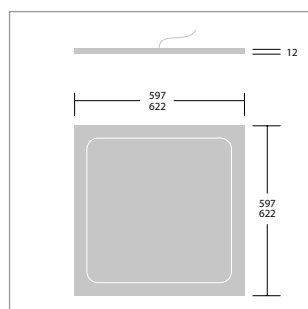
30.6-41W

STANDARDS

IP20 IP40

Description	Wt (kg)	SAP Code	Cat. No.
Omega Pro 300x1200 Dimmable			
OMEGA PRO 3150 HFIX 3X12 LED830	5.60	96627427	OMP3150X3K
OMEGA PRO 3150 HFIX 3X12 LED840	5.60	96627426	OMP3150X4K
Omega Pro 300x1200 Dimmable, emergency			
OMEGA PRO 3150 HFIX E3 3X12 LED830	7.40	96627433	OMP3150XE3K
OMEGA PRO 3150 HFIX E3 3X12 LED840	7.40	96627432	OMP3150XE4K
OMEGA PRO 3150 HFI-X E3TX 3X12 LED830	7.40	96627435	OMP3150XEX3K
OMEGA PRO 3150 HFI-X E3TX 3X12 LED840	7.40	96627434	OMP3150XEX4K
Omega Pro Accessories			
OMEGA LED SURFACE MTG KIT 297X1197	2.70	96241760	OMSUR12X3KIT
OMEGA LED SURFACE MTG KIT 597	2.50	96241603	OMSM3250KIT
OMEGA LED SUSPENSION KIT	0.80	96241604	OMSUSKIT
OMEGA PLASTERBOARD MOUNT KIT 297X1197	2.40	96627999	
OMEGA PLASTERBOARD MOUNT KIT E3 297X1197	2.30	96628000	
OMEGA PLASTERBOARD MOUNTING KIT E3 Q597	1.57	96627712	OMPBE36X6KIT
OMEGA PLASTERBOARD MOUNTING KIT Q597	1.75	96627893	OMPBS6X6KIT
OMEGA SLIM SURFACE MOUNT KIT 297X1197	2.75	96628005	OMS12X3KIT
OMEGA SLIM SURFACE MOUNT KIT 597X597	1.80	96628003	OMS6X6KIT

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Omega LED



www.thornlighting.co.uk/OMGL
www.thornlighting.ie/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 uniformity and easy retrofit for traditional luminaires. DALI dimming further increases energy savings
- IP44 (from below) extends application scope to include restrooms and hospitals
- Available as 300x300mm, 600x600mm, 300x1200

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 with 3000/4000K colour temperature, CRI >80 and a lifetime of 50,000 hours @ L70 Ta 25C.
As Thorn Omega LED.

ORDERING GUIDE

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

Description	Wt (kg)	SAP Code	Cat. No.
Omega LED 300x300			
OMEGA LED 1000-830 HF	2.30	96602036	OM1000Z3K
OMEGA LED 1000-830 HF MRP	2.30	96241752	OMR1000Z3K
OMEGA LED 1000-840 HF	2.30	96602040	OM1000Z4K
OMEGA LED 1000-840 HF MRP	2.30	96241753	OMR1000Z4K
Omega LED 300x300 dimmable			
OMEGA LED 1000-830 HFIX	2.30	96602037	OM1000X3K
OMEGA LED 1000-830 HFIX MRP	2.30	96241754	OMR1000X3K
OMEGA LED 1000-840 HFIX	2.30	96602041	OM1000X4K
OMEGA LED 1000-840 HFIX MRP	2.30	96241755	OMR1000X4K
Omega LED 300x300 emergency			
OMEGA LED 1000-830 HF E3	3.80	96602038	OM1000ZE3K
OMEGA LED 1000-830 HF E3 MRP	3.80	96241756	OMR1000ZE3K
OMEGA LED 1000-840 HF E3	3.80	96602042	OM1000ZE4K
OMEGA LED 1000-840 HF E3 MRP	3.80	96241757	OMR1000ZE4K
Omega LED 300x300 dimmable, emergency			
OMEGA LED 1000-830 HFIX E3	3.80	96602039	OM1000XE3K
OMEGA LED 1000-830 HFIX E3 MRP	3.80	96241758	OMR1000XE3K
OMEGA LED 1000-840 HFIX E3	3.80	96602043	OM1000XE4K
OMEGA LED 1000-840 HFIX E3 MRP	3.80	96241759	OMR1000XE4K
Omega LED 600x600			
OMEGA LED 3300-830 HF Q597	5.0	96629742	OM3300Z3K
OMEGA LED 3300-840 HF Q597	5.0	96629743	OM3300Z4K
OMEGA LED 4000-830 HF Q597	5.1	96629744	OM4000Z3K
OMEGA LED 4000-840 HF Q597	5.1	96629745	OM4000Z4K
Omega LED 600x600 dimmable			
OMEGA LED 3300-830 HFIX Q597	5.2	96629746	OM3300X3K
OMEGA LED 3300-840 HFIX Q597	5.2	96629747	OM3300X4K
OMEGA LED 4000-830 HFIX Q597	5.3	96629748	OM4000X3K
OMEGA LED 4000-840 HFIX Q597	5.3	96629749	OM4000X4K
Omega LED 600x600 emergency			
OMEGA LED 3300-830 HF E3 Q597	6.1	96630181	OM3300ZE3K
OMEGA LED 3300-840 HF E3 Q597	6.1	96630182	OM3300ZE4K
OMEGA LED 4000-830 HF E3 Q597	6.1	96630205	OM4000ZE3K
OMEGA LED 4000-840 HF E3 Q597	6.1	96630204	OM4000ZE4K



With surface mounting kit



Suspension kit



With suspension kit



LAMPS

LED

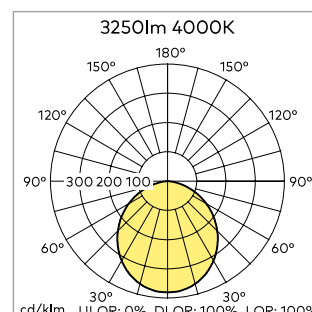
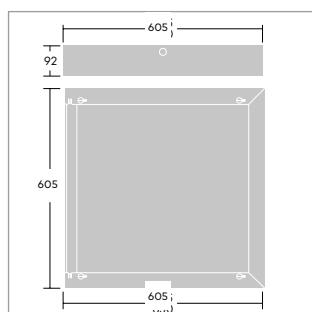
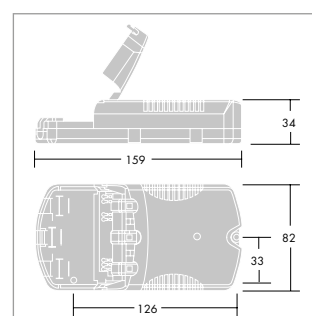
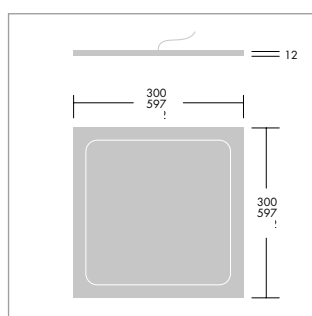
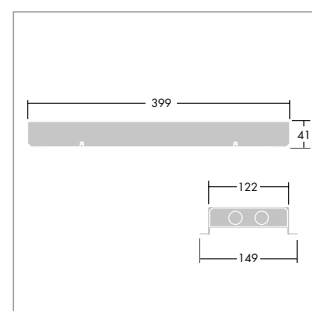
11-41W

STANDARDS

IP20 IP44 T_a 0
+25 650 °C

Description	Wt (kg)	SAP Code	Cat. No.
Omega LED 600x600 dimmable, emergency			
OMEGA LED 3300-830 HFIX E3 Q597	6.1	96630183	OM3300XE3K
OMEGA LED 3300-840 HFIX E3 Q597	6.1	96630184	OM3300XE4K
OMEGA LED 4000-830 HFIX E3 Q597	6.1	96630206	OM4000XE3K
OMEGA LED 4000-840 HFIX E3 Q597	6.1	96630185	OM4000XE4K
Omega LED 300x1200			
OMEGA LED 4000-830 HF E3 297X1197	4.60	96241587	OM4000Z3K
OMEGA LED 4000-840 HF E3 297X1197	4.60	96241588	OM4000Z4K
Omega LED 300x1200 dimmable			
OMEGA LED 4000-830 HFIX 297X1197	4.60	96241589	OM4000X3K
OMEGA LED 4000-840 HFIX 297X1197	4.60	96241590	OM4000X4K
Omega LED 300x1200 emergency			
OMEGA LED 4000-830 HF E3 297X1197	6.10	96241591	OM4000ZE3K
OMEGA LED 4000-840 HF E3 297X1197	6.10	96241592	OM4000ZE4K
Omega LED 300x1200 dimmable, emergency			
OMEGA LED 4000-830 HFIX E3 297X1197	6.10	96241593	OM4000XE3K
OMEGA LED 4000-840 HFIX E3 297X1197	6.10	96241594	OM4000XE4K
Omega LED Accessories			
OMEGA LED SURFACE MTG KIT 297X1197	2.70	96241760	OMSUR12X3KIT
OMEGA LED SURFACE MTG KIT 597	2.50	96241603	OMSM3250KIT
OMEGA LED SUSPENSION KIT	0.80	96241604	OMSUSKIT
OMEGA PLASTERBOARD MOUNTING KIT E3 Q597	1.57	96627712	OMPBE36X6KIT
OMEGA PLASTERBOARD MOUNTING KIT Q597	1.75	96627893	OMPBS6X6KIT
OMEGA SLIM SURFACE MOUNT KIT 297X1197	2.75	96628005	OMS12X3KIT
OMEGA SLIM SURFACE MOUNT KIT 297X297	0.95	96628002	OMS3X3KIT
OMEGA SLIM SURFACE MOUNT KIT 597X597	1.80	96628003	OMS6X6KIT

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Indoor Lighting

WALL AND CEILING DECORATIVE LUMINAIRES



60
Thames



61
Novaline



62
Danube



63
Loire



64
Loire LX



65
Club LED



66
Lyric Deco



68
Lyric LED



69
Cimi



www.thornlighting.co.uk/THMS
www.thornlighting.ie/THMS



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



LAMPS

LED 15.5W

STANDARDS

CE IP44 IK09 T_a25 960°C

- Sealed to IP44 with aluminium base for strength and rigidity
- Metallic bezel available in white or silver
- Supplied with Quick Fix Bracket for safe and rapid electrical installation
- Over 65 lm/W efficacy

MATERIALS/FINISH

Body: die-cast aluminium
 Bezel: silver or white finish (close to RAL 9016)
 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

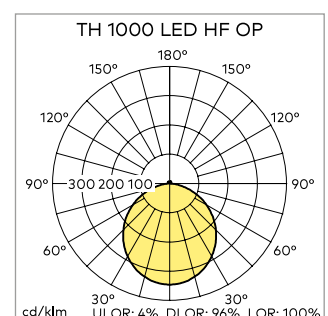
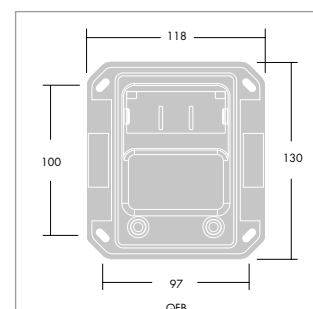
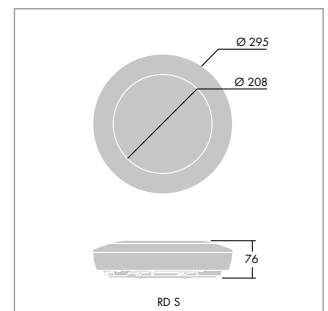
To Specify state:
 Unique and distinctive circular luminaire for 1000lm LED, with an acute angular steel bezel 'floating halo'. Concave opal polycarbonate diffuser mounted on a die-cast aluminium body, with lamp and electronic, integral emergency gear, connected to Quick Fix Bracket. As Thorn Thames.

ORDERING GUIDE

Supplied complete with Quick Fix Bracket and LED

Description	Wt (kg)	SAP Code	Cat. No.
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
TH 1000 LED HF OP RD SIL L840	2.11	96241417	THR1000ZS
TH 1000 LED HF OP RD WHI L840	2.11	96241364	THR1000ZW

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www.thornlighting.co.uk/NOVN
www.thornlighting.ie/NOVN



- Sleek design with a diffuser that can be removed without tools
- Available in two sizes
- Sealed to IP40 with aluminium body
- Over 65 lm/W efficacy
- OTHER OPTIONS ARE AVAILABLE (Dimming, Emergency...). See myProduct for configuration options

MATERIALS/FINISH
Body: spun aluminium - white (RAL 9016)
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 finish with 1250lm to 3500lm LED.
As Thorn Novaline

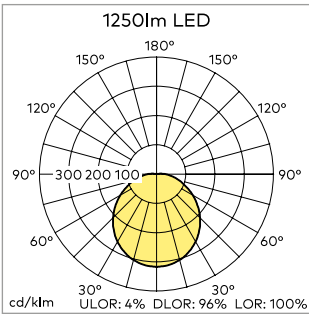
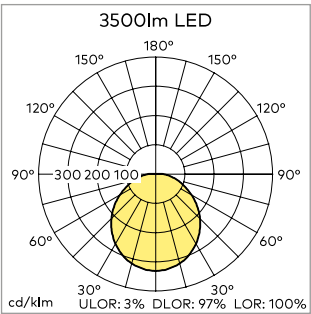
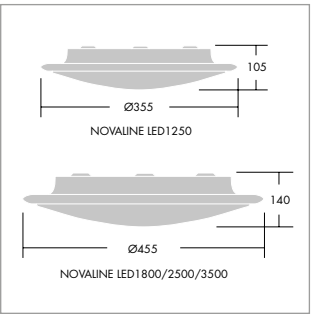
ORDERING GUIDE
Supplied complete with LED

Description	Wt (kg)	SAP Code	Cat. No.
Novaline LED			
NOVALINE LED1250-830 HF WH	1.17	96642686	NV1250ZW3K
NOVALINE LED1250-840 HF WH	1.17	96642682	NV1250ZW4K
NOVALINE LED1800-830 HF WH	2.14	96642694	NV1800ZW3K
NOVALINE LED1800-840 HF WH	2.14	96642690	NV1800ZW4K
NOVALINE LED2500-830 HF WH	2.14	96642700	NV2500ZW3K
NOVALINE LED2500-840 HF WH	2.14	96642696	NV2500ZW4K
NOVALINE LED3500-830 HF WH	2.14	96642706	NV3500ZW3K
NOVALINE LED3500-840 HF WH	2.14	96642702	NV3500ZW4K
Novaline Accessory			
NVLORK SEMI-RECESSING KIT	1.16	96014873	NVSRKIT

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LAMPS
 LED 11-32.5W

STANDARDS
 IP40 IK02 Ta25 850°C





www.thornlighting.co.uk/DNBE
www.thornlighting.ie/DNBE



- Sealed to IP65
- Supplied with Quick Fix Bracket for safe and rapid electrical installation
- Over 77 lm/W efficacy

MATERIALS/FINISH

Body: die-cast aluminium.
 Bezel: white polycarbonate (RAL 9016)
 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:
 Bold and versatile circular or square luminaire for 1200lm LED, 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.

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



Quick fix bracket with spacers

LAMPS

LED 16W

STANDARDS

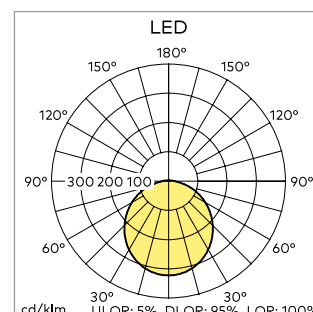
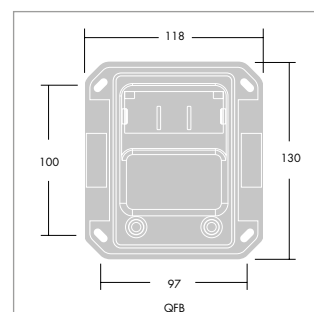
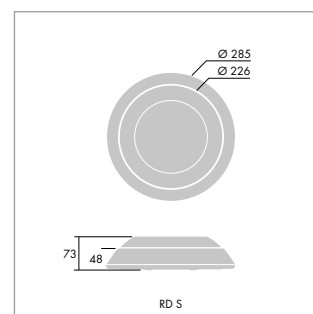
CE EN 60598 IP65 IK07 T_a25 960°C

ORDERING GUIDE

Supplied complete with Quick Fix Bracket and LED

Description	Wt (kg)	SAP Code	Cat. No.
Danube LED			
DA 1200 LED HF E3 OP RD WHI L840	1.82	96241363	DA1200ZEOP
DA 1200 LED HF OP RD WHI L840	1.57	96241362	DA1200ZOP

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www.thornlighting.co.uk/LOIR
www.thornlighting.ie/LOIR



- Sealed to IP65
- Supplied with Quick Fix Bracket for safe and rapid electrical installation
- Over 77 lm/W efficacy

MATERIALS/FINISH
Body: injection moulded polycarbonate
Bezel: polycarbonate white finish (RAL 9016)
Diffuser: opal polycarbonate

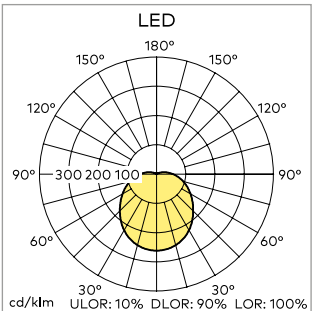
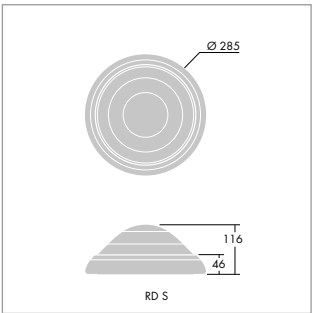
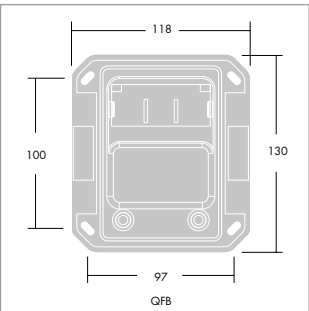
INSTALLATION/MOUNTING
Suitable for surface mounting on wall or ceiling for both interior and exterior use. Quick Fix Bracket is screw fixed onto mounting surface by 4 oblong holes (4.5mm x 10mm). Mains connection via 6x2x2.5mm² terminal block. 'Light Box' mechanically and electrically auto-connected 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 with polycarbonate body and opal diffuser in polycarbonate with electronic gear connected to Quick Fix Bracket.
As Thorn Loire.

ORDERING GUIDE
Supplied complete with Quick Fix Bracket and LED

Description	Wt (kg)	SAP Code	Cat. No.
Loire LED			
LO 1200 LED HF E3 OP RD WHI L840	1.82	96241359	LO1200ZE
LO 1200 LED HF OP RD WHI L840	1.57	96241358	LO1200Z

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LAMPS
LED 16W

STANDARDS
CE EN 60598 IP65 IK07 T₂25 960 °C

Loire

LX



www.thornlighting.co.uk/LOIX
www.thornlighting.ie/LOIX



- White body with opal polycarbonate diffuser
- IP65 for exterior applications
- Easy to install
- Antivandal screw
- Over 77 lm/W efficacy

MATERIALS/FINISH

Body: injection moulded polycarbonate
 Bezel: polycarbonate, white finish (RAL 9016)
 Diffuser: opal polycarbonate

INSTALLATION/MOUNTING

Suitable for surface mounting on wall or ceiling for both interior and exterior use. Easy to fit wall or ceiling mounting by 2 fixing holes or besa box. Electrical connection via 3 way piano key terminal block. Twin inputs for loop in and out.

SPECIFICATION

To specify state:
 Fresh contemporary circular luminaire with white polycarbonate body and polycarbonate opal diffuser. As Thorn Loire LX.

A tough polycarbonate bulkhead with a dome shaped design, IP65 rated, suitable for indoor and outdoor applications.

LAMPS

 LED 9-12W

STANDARDS







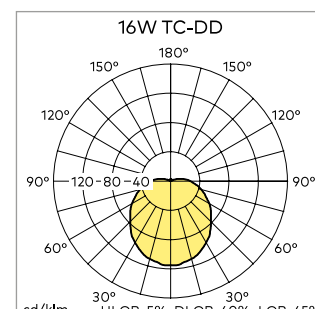
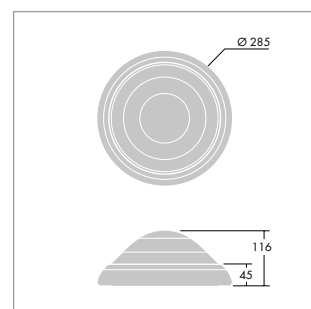



ORDERING GUIDE

Supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Loire LX LED			
LO LX 900 LED HF MWS CL2 OP RD WHI L840	1.20	96241514	LOLX900ZS
LO LX 900 LED HF OP CL2 RD WHI L840	1.10	96241513	LOLX900Z
LO LX 1200 LED HF CL2 OP RD WHI L840	1.10	96241360	
LO LX 1200 LED HF MWS CL2 OP RD WHI L840	1.20	96241506	

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www.thornlighting.co.uk/CLUB
www.thornlighting.ie/CLUB

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



LAMPS



LED

13-14W

STANDARDS



IP54

IK08

T_a25

850°C



- Sealed to IP54
- Available with a choice of bezel colours, complemented by an opal diffuser
- Integral 3hr maintained emergency option
- With sensor and emergency lighting options
- Over 67 lm/W efficacy

MATERIALS/FINISH

Body and trim: injection moulded polycarbonate.
Diffuser: opal polycarbonate.
Body and trim colours: white body with white (RAL 9016) 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

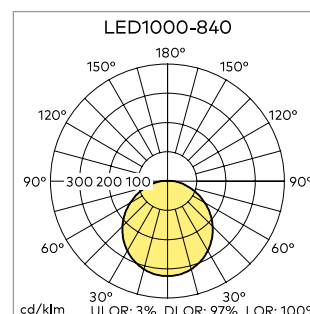
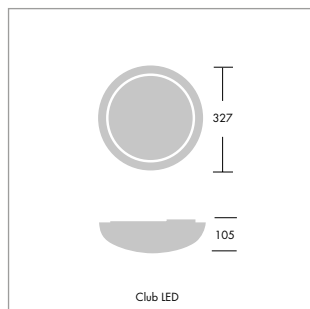
To specify state:
Standard/Emergency circular
surface luminaire with
polycarbonate body and trim
in white/polished chrome.
Polycarbonate opal diffuser and
integral LED control gear.
As Thorn Club.

ORDERING GUIDE

Supplied complete with lamp/LED.

Description	Wt (kg)	SAP Code	Cat. No.
Club LED			
CLUB 1000 LED2 E3 MWS OP RD CHR L840	1.80	96242256	CL10ZSECH4K
CLUB 1000 LED2 E3 OP RD OP RD WH L840	1.80	96242240	CL10ZSEWH4K
CLUB 1000 LED2 E3 OP RD CHR L840	1.70	96242254	CL10ZECH4K
CLUB 1000 LED2 E3 OP RD WH L840	1.70	96617057	CL10ZEW4K
CLUB 1000 LED2 MWS OP RD CHR L840	1.60	96242255	CL10ZSCH4K
CLUB 1000 LED2 MWS OP RD WH L840	1.60	96242239	CL10ZSW4K
CLUB 1000 LED2 OP RD CHR L840	1.40	96242253	CL10ZCH4K
CLUB 1000 LED2 OP RD WH L840	1.40	96617056	CL10ZV4K
CLUB 1000 LED2 OP RD CHR L830	1.40	96627554	CL10ZCH3K
CLUB 1000 LED2 OP RD WH L830	1.40	96242277	CL10ZV3K

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



Lyric Deco



www.thornlighting.co.uk/LYRD
www.thornlighting.ie/LYRD

A stylish family of decorative LED luminaires adding an elegant statement with soft diffused light



- Sleek, modern design for creating an elegant design feature
- Diffuser crafted from satin opal Triplex glass offering a stylish contemporary appeal
- High efficiency LED light source for optimum performance
- Coordinating family providing a consistent interior design theme
- Up to 125 lm/W efficiency

MATERIALS/FINISH

Diffuser: Satin opal Triplex safety glass with chrome plated metal details.
 Frame (wall mounted): White-painted metal (RAL 9016)
 Details: Chrome plated metal.

INSTALLATION/MOUNTING

Wall mounted
 Ceiling mounted suspended luminaires with ceiling rose and 2m suspension cable, optional pendant kit for groups of 2 – 4 luminaires
 Floor mounted

SPECIFICATION

To specify state:
 Curving tubular pendant in satin opal glass with integrated LED light source and chrome plated metal details. As Thorn Lyric Deco Pendant.

Curving tubular wall mounted fixture in satin opal glass with integrated LED light source.
 As Thorn Lyric Deco Wall.

Curving tubular floor standing fixture in satin opal glass with integrated LED light source and chrome plated metal details.
 As Thorn Lyric Deco Floor.

**LAMPS**

LED

12.4-18W

STANDARDS

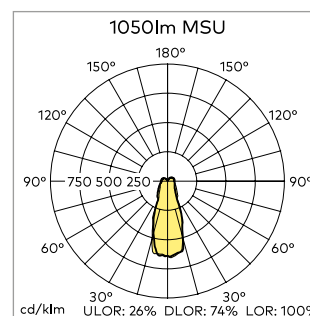
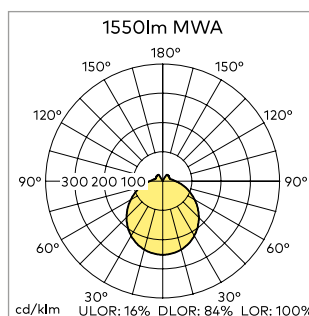
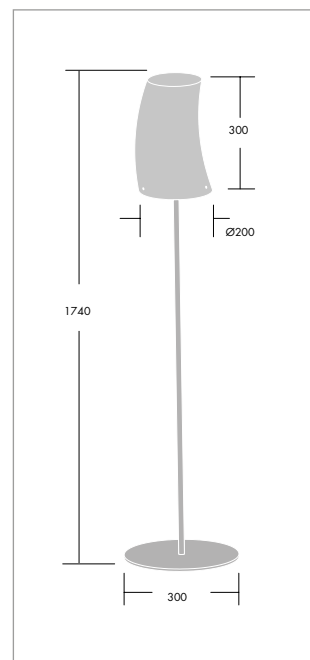
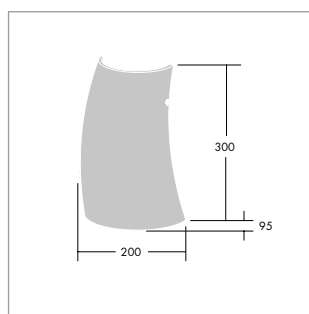
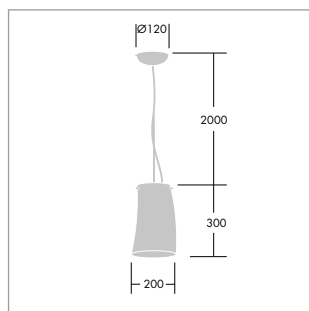
IP20 IK02

ORDERING GUIDE

Supplied complete with integrated LED.

Description	Wt (kg)	SAP Code	Cat. No.
Lyric Deco			
LYRIC DECO LED1550-830 HF MWA-L OP	1.40	96642772	LYD1550Z3KWL
LYRIC DECO LED1550-830 HF MWA-R OP	1.40	96642771	LYD1550Z3KWR
LYRIC DECO LED1550-840 HF MWA-L OP	1.40	96642768	LYD1550Z4KWL
LYRIC DECO LED1550-840 HF MWA-R OP	1.40	96642767	LYD1550Z4KWR
Lyric Deco Wall mounted, dimmable			
LYRIC DECO LED1550-830 HFI-X MWA-L OP	1.40	96642920	LYD1550X3KWL
LYRIC DECO LED1550-830 HFI-X MWA-R OP	1.40	96642919	LYD1550X3KWR
LYRIC DECO LED1550-840 HFI-X MWA-L OP	1.40	96642922	LYD1550X4KWL
LYRIC DECO LED1550-840 HFI-X MWA-R OP	1.40	96642921	LYD1550X4KWR
Lyric Deco Pendant			
LYRIC DECO LED1050-830 HF MSU OP	2.20	96642773	LYD1050Z3KSU
LYRIC DECO LED1050-840 HF MSU OP	2.20	96642769	LYD1050Z4KSU
Lyric Deco Freestanding			
LYRIC DECO LED1050-830 HF MFS OP	4.20	96642774	LYD1050Z3KFS
LYRIC DECO LED1050-840 HF MFS OP	4.20	96642770	LYD1050Z4KFS
Lyric Deco Accessories			
LYRIC DECO SUSPENSION KIT - 2	0.37	96642777	LYDSU2
LYRIC DECO SUSPENSION KIT - 3	0.37	96642776	LYDSU3
LYRIC DECO SUSPENSION KIT - 4	0.37	96642775	LYDSU4

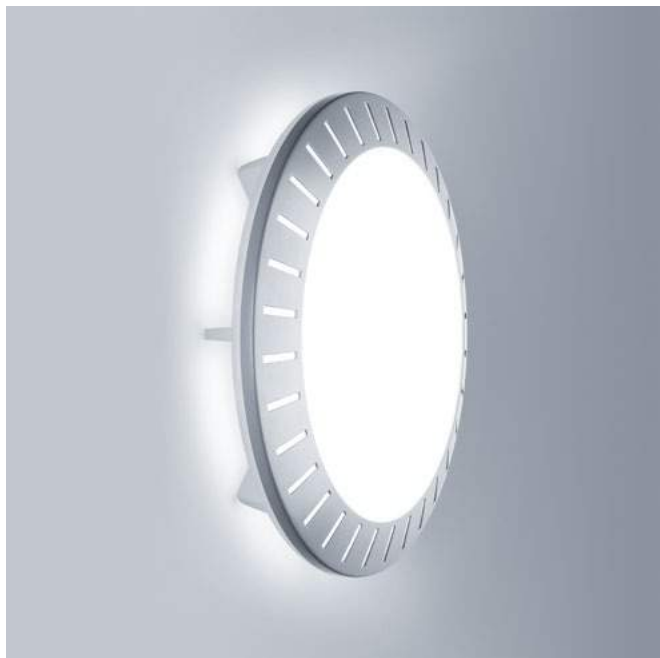
To make reading our ordering guides easier please use the SAP description key fold out, inside the back cover. For more information please visit our website www.thornlighting.co.uk and simply search for our products.





www.thornlighting.co.uk/LYRL
www.thornlighting.ie/LYRL

A range of decorative surface mounted luminaires featuring a unique 'starburst' base and a choice of bezels



LAMPS

LED LED 25W

STANDARDS

IP40 T_a25 850°C

- Unique aluminium 'starburst' base creates bursts of light on the mounting surface
- Interchangeable bezel attachments for choice of colour and design
- Aesthetic appeal both lit and unlit
- Simple twist and lock mechanism from diffuser to base for easy installation and maintenance
- Simply order the base and diffuser separately to make up a complete luminaire

MATERIALS/FINISH

Body: die-cast aluminium painted white (close to RAL9016)
Diffuser: textured opal polycarbonate
Bezel: spun aluminium painted white or silver

INSTALLATION/MOUNTING

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

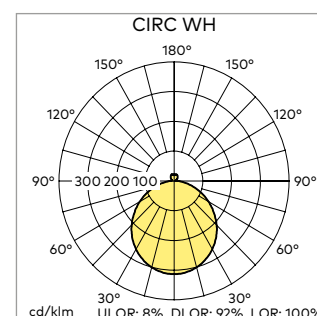
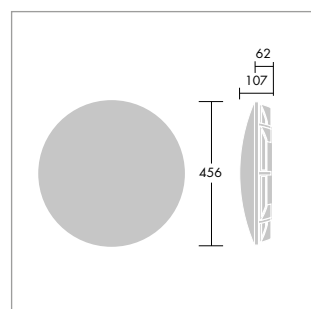
SPECIFICATION

To specify state:
Circular wall/ceiling luminaire with die-cast aluminium 'starburst' base, opal polycarbonate diffuser and solid/slotted bezel in silver/white. 2500 lumen output with fixed output or DALI dimmable control gear / integral manual or Self/Addressable test 3 hour emergency lighting options.
As Thorn Lyric LED

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Lyric LED, base			
LYRIC BASE LED 2500-840 HF WH	2.40	96629592	
Lyric LED, base, emergency			
LYRIC BASE LED 2500-840 HF E3 WH	2.80	96629593	
LYRIC BASE LED 2500-840 HF E3TX WH	2.80	96629594	
Lyric LED, base, dimmable			
LYRIC BASE LED 2500-840 HFI WH	2.40	96629595	
Lyric LED, base, dimmable, emergency			
LYRIC BASE LED 2500-840 HFI E3 WH	2.80	96629596	
LYRIC BASE LED 2500-840 HFI E3TX WH	2.80	96629597	
Lyric LED, diffusers			
LYRIC SHAPE CIRC SIL	0.90	96004155	LYRDL2S
LYRIC SHAPE CIRC SL SIL	0.90	96004159	LYRDL5S
LYRIC SHAPE CIRC SL WH	0.90	96004158	LYRDL5W
LYRIC SHAPE CIRC WH	0.90	96004154	LYRDL2W

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



LAMPS

T5 (FDH) G5 14-35W

STANDARDS

CE IP44 IK06 850°C

- 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
- Over 46 lm/W efficacy 53/46/60/62/85

MATERIALS/FINISH

Body: extruded aluminium, white finish.
Diffuser: opal polycarbonate.
Endcaps: die-cast aluminium, white finish.

INSTALLATION/MOUNTING

Suitable for surface mounting. Two Ø19mm cable entries, offset in the back of the housing, Ø12mm knock out holes in endcaps as well as top edges of luminaire for surface installation. Piano key terminal block for 4x2x2.5mm².

SPECIFICATION

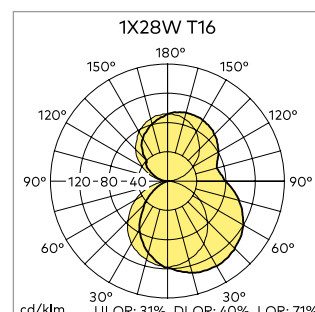
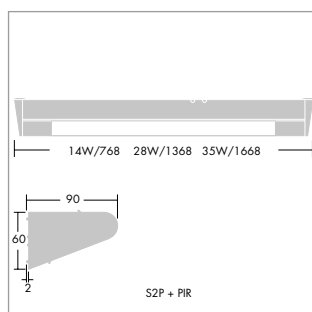
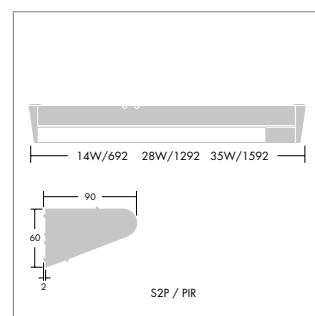
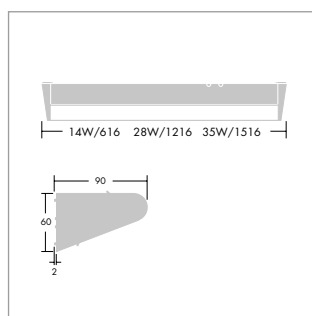
To specify state:
Slim bathroom luminaire for 14-35W T16 (T5) linear fluorescent lamps with glare free light distribution. As Thorn Cimi.

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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Indoor Lighting

SPOTLIGHTS



72
Tonic Spot



74
Tonic Gyro



75
Tonic Gimbal

NEW

Tonic

Spot



www.thornlighting.co.uk/TNCS
www.thornlighting.ie/TNCS



Cost effective CRI90 LED spotlight range with integrated multi-voltage driver for worldwide use



- The pure and simple shape of Tonic makes it suitable for use across global application types. Its design integrates with a wide range of environments and architectural styles
- LED spotlight family with global certifications (CE, UL, CCC, RCM, EAC) and a worldwide mains input voltage range of 100-240V
- GA69 certified 3 phase track connection
- The highly efficient optical system on the front also protects the LED light source and is easy to clean

MATERIALS/FINISH

Body: aluminium, microstructured white or black
 Driver box: PC, microstructured white or black

INSTALLATION/MOUNTING

Suitable for 3 phase tracks.
 Track mounting: mechanical and electrical track connection is made using the track adapter, which attaches quickly to the track. 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. Rotation 0° – 350°, tilt 0° – 90° Interchangeable lenses with click-in front ring fixation.

SPECIFICATION

To specify state:
 LED spotlight with colour rendering Ra >90 and integrated driver for use with 3-phase tracks (Thorn Supertrack2). Available in 3000K and 4000K with four different beam shapes. Chromaticity tolerance (MacAdam ellipse): 3. Lifetime performance: 50000 h L70; world wide mains input voltage range 100-240V at 50/60Hz; anti-glare ring in housing color; highly efficient and iridescence-free faceted lenses; lenses designed to be interchangeable.
 As Thorn Tonic Spot.

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Tonic Spot White, 2800lm		
TONIC SPOT LED2800-940 MT3 FL WH	1.30	96665991
TONIC SPOT LED2800-940 MT3 SP WH	1.30	96665990
TONIC SPOT LED2800-940 MT3 VFL WH	1.30	96665993
TONIC SPOT LED2800-940 MT3 WFL WH	1.30	96665992
TONIC SPOT LED2800-930 MT3 FL WH	1.30	96665987
TONIC SPOT LED2800-930 MT3 SP WH	1.30	96665986
TONIC SPOT LED2800-930 MT3 VFL WH	1.30	96665989
TONIC SPOT LED2800-930 MT3 WFL WH	1.30	96665988
Tonic Spot White, 1800lm		
TONIC SPOT LED1800-940 MT3 FL WH	1.30	96665967
TONIC SPOT LED1800-940 MT3 SP WH	1.30	96665966
TONIC SPOT LED1800-940 MT3 VFL WH	1.30	96665969
TONIC SPOT LED1800-940 MT3 WFL WH	1.30	96665968
TONIC SPOT LED1800-930 MT3 FL WH	1.30	96665963
TONIC SPOT LED1800-930 MT3 SP WH	1.30	96665962
TONIC SPOT LED1800-930 MT3 VFL WH	1.30	96665965
TONIC SPOT LED1800-930 MT3 WFL WH	1.30	96665964
Tonic Spot Black, 2800lm		
TONIC SPOT LED2800-940 MT3 FL BK	1.30	96665999
TONIC SPOT LED2800-940 MT3 SP BK	1.30	96665998
TONIC SPOT LED2800-940 MT3 VFL BK	1.30	96666001
TONIC SPOT LED2800-940 MT3 WFL BK	1.30	96666000
TONIC SPOT LED2800-930 MT3 FL BK	1.30	96665995
TONIC SPOT LED2800-930 MT3 SP BK	1.30	96665994
TONIC SPOT LED2800-930 MT3 VFL BK	1.30	96665997
TONIC SPOT LED2800-930 MT3 WFL BK	1.30	96665996

**LAMPS**

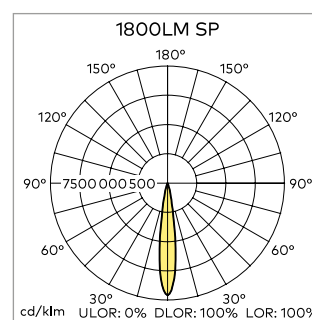
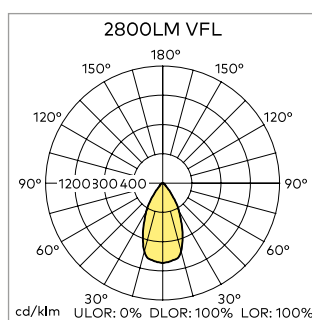
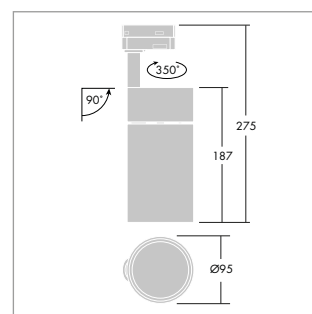
LED

19.3-30.7W

STANDARDS
 IP20 $T_a 25$

Description	Wt (kg)	SAP Code
Tonic Spot Black, 1800lm		
TONIC SPOT LED1800-940 MT3 FL BK	1.30	96665975
TONIC SPOT LED1800-940 MT3 SP BK	1.30	96665974
TONIC SPOT LED1800-940 MT3 VFL BK	1.30	96665977
TONIC SPOT LED1800-940 MT3 WFL BK	1.30	96665976
TONIC SPOT LED1800-930 MT3 FL BK	1.30	96665971
TONIC SPOT LED1800-930 MT3 SP BK	1.30	96665970
TONIC SPOT LED1800-930 MT3 VFL BK	1.30	96665973
TONIC SPOT LED1800-930 MT3 WFL BK	1.30	96665972
Tonic Spot Attachments		
TONIC ANTI-GLARE TUBE (5PCS)	0.10	96628584
TONIC BARNDOR (5PCS)	0.75	96666010
TONIC CROSSLOUVRE (5 PCS)	0.10	96666011
TONIC FRONTRING BK (5 PCS)	0.50	96628589
TONIC HONEYCOMB (5 PCS)	0.10	96666012
TONIC LENS FL (5 PCS)	0.50	96628586
TONIC LENS SP (5PCS)	0.50	96628585
TONIC LENS VFL (5 PCS)	0.50	96628588
TONIC LENS WFL (5 PCS)	0.50	96628587
Tonic Spot Accessory		
TONIC FRONTRING TOOL	0.11	96628590

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NEW

Tonic

Gyro and Gimbal



www.thornlighting.co.uk/TNCG
www.thornlighting.co.uk/TNCC

www.thornlighting.ie/TNCG
www.thornlighting.ie/TNCC



Tonic Gyro

- Tonic Gyro - A spotlight for recessed installation with pull out function for a well structured ceiling installation, that features a wide range of environments
- Tonic Gimbal - A spotlight for recessed installation to achieve an attractive clean ceiling structure, that features all environments and integrates well with a wide range of architectural styles
- The highly efficient optical system on the front also protects the LED light source and allows easy cleaning LED spotlight family with global certification (CE, UL, CCC, RCM, EAC) and world-wide availability
- The range is easy to understand and specify with clear product options

MATERIAL/FINISH

Spot head / installation frame / installation flags: aluminium.
 Lens / spot housing / front ring: polycarbonate

INSTALLATION/MOUNTING

Secure installation with "flag" mechanism. Twist and lock fixing for light heads into installation frame (Tonic Gimbal only).

Cost effective CRI90 LED recessed spotlight/pull out spotlight range



ORDERING GUIDE

Description	Wt (kg)	SAP Code
Tonic Gyro White, 2800lm		
TONIC GYRO1 LED2800-930 HF FL WH	1.8	96629330
TONIC GYRO1 LED2800-940 HF FL WH	1.8	96629332
TONIC GYRO2 LED2800-930 HF FL WH	3.4	96629334
TONIC GYRO2 LED2800-940 HF FL WH	3.4	96629336
TONIC GYRO3 LED2800-930 HF FL WH	4.8	96629338
TONIC GYRO3 LED2800-940 HF FL WH	4.8	96629340
Tonic Gyro White, 1800lm		
TONIC GYRO1 LED1800-930 HF FL WH	1.8	96629318
TONIC GYRO1 LED1800-940 HF FL WH	1.8	96629320
TONIC GYRO2 LED1800-930 HF FL WH	3.4	96629322
TONIC GYRO2 LED1800-940 HF FL WH	3.4	96629324
TONIC GYRO3 LED1800-930 HF FL WH	4.8	96629326
TONIC GYRO3 LED1800-940 HF FL WH	4.8	96629328
Tonic Gyro Black, 2800lm		
TONIC GYRO1 LED2800-930 HF FL BK	1.8	96629331
TONIC GYRO1 LED2800-940 HF FL BK	1.8	96629333
TONIC GYRO2 LED2800-930 HF FL BK	3.4	96629335
TONIC GYRO2 LED2800-940 HF FL BK	3.4	96629337
TONIC GYRO3 LED2800-930 HF FL BK	4.8	96629339
TONIC GYRO3 LED2800-940 HF FL BK	4.8	96629341
Tonic Gyro Black, 1800lm		
TONIC GYRO1 LED1800-930 HF FL BK	1.8	96629319
TONIC GYRO1 LED1800-940 HF FL BK	1.8	96629321
TONIC GYRO2 LED1800-930 HF FL BK	3.4	96629323
TONIC GYRO2 LED1800-940 HF FL BK	3.4	96629325
TONIC GYRO3 LED1800-930 HF FL BK	4.8	96629327
TONIC GYRO3 LED1800-940 HF FL BK	4.8	96629329



Tonic Gimbal

**LAMPS**

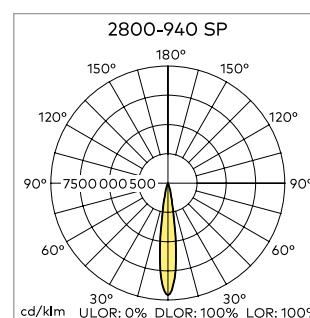
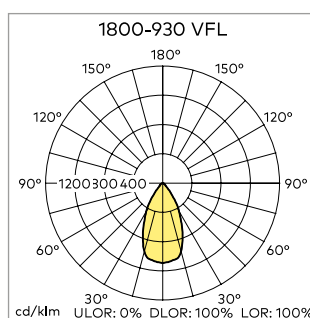
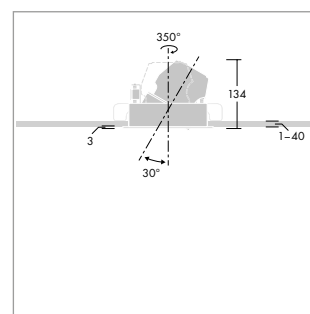
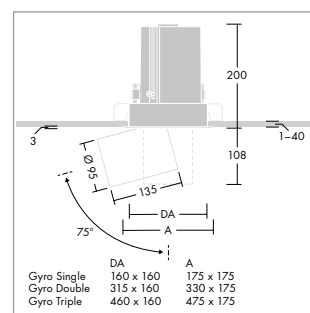
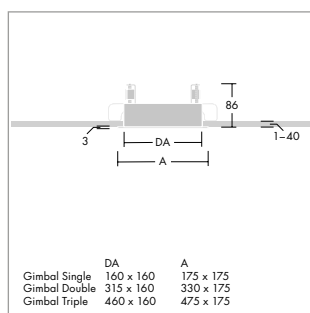
LED

>90lm/W

STANDARDS
 IP20 T_a25

Description	Wt (kg)	SAP Code
Tonic Gimbal Light head, 2800lm		
TONIC GIMBAL LED2800-930 HF FL	1.0	96629351
TONIC GIMBAL LED2800-930 HF SP	1.0	96629350
TONIC GIMBAL LED2800-930 HF VFL	1.0	96629353
TONIC GIMBAL LED2800-930 HF WFL	1.0	96629352
TONIC GIMBAL LED2800-940 HF FL	1.0	96629355
TONIC GIMBAL LED2800-940 HF SP	1.0	96629354
TONIC GIMBAL LED2800-940 HF VFL	1.0	96629357
TONIC GIMBAL LED2800-940 HF WFL	1.0	96629356
Tonic Gimbal Light head, 1800lm		
TONIC GIMBAL LED1800-930 HF FL	1.0	96629343
TONIC GIMBAL LED1800-930 HF SP	1.0	96629342
TONIC GIMBAL LED1800-930 HF VFL	1.0	96629345
TONIC GIMBAL LED1800-930 HF WFL	1.0	96629344
TONIC GIMBAL LED1800-940 HF FL	1.0	96629347
TONIC GIMBAL LED1800-940 HF SP	1.0	96629346
TONIC GIMBAL LED1800-940 HF VFL	1.0	96629349
TONIC GIMBAL LED1800-940 HF WFL	1.0	96629348
Tonic Gimbal White frame		
TONIC GIMBAL FRAME DOUBLE WH	1	96629360
TONIC GIMBAL FRAME SINGLE WH	0.6	96629358
TONIC GIMBAL FRAME TRIPLE WH	1.5	96629362
Tonic Gimbal Black frame		
TONIC GIMBAL FRAME DOUBLE BK	1	96629361
TONIC GIMBAL FRAME SINGLE BK	0.6	96629359
TONIC GIMBAL FRAME TRIPLE BK	1.5	96629363

Tonic Gimbal is configured by ordering the SINGLE/DOUBLE/TRIPLE frame first, and then the corresponding number of light heads required (light heads include driver)
To make reading our ordering guides easier please use the SAP description key fold out, inside the back cover. For more information please visit our website www.thornlighting.com and simply search for our products.





Indoor Lighting

INDUSTRIAL LUMINAIRES



78
FlexPak



80
HiPak



82
ForceLED



84
ForceLED Pro



85
CorrosionForce II
LED



86
AquaForce II
LED



88
Duoproof



www.thornlighting.co.uk/FPAK
www.thornlighting.ie/FPAK



LAMPS

LED

59.4-235.5W

NORMEN

CE IP65 IK08 $T_a -35$
 $+50$

- Direct one-for-one replacement of HID high bays, with up to 55% energy saving
- Plug and play connection for rapid installation
- Innovative radio frequency controls system integrated as standard and future proof for wireless smart lighting
- Very wide temperature range from -35°C up to +50°C

MATERIALS/FINISH

Housing: die cast aluminium (RAL 9006), polycarbonate
Lens: polycarbonate
Luminaire is silicon free

INSTALLATION/MOUNTING

All luminaires are suitable for single point suspension. Chain suspension clip to be ordered separately (96628823). Alternatively a cord suspension is available in 1m length (96628824), 2m length (96628825) and 5m length (96628826). For ceiling mounting stirrups are available including tilt adjustment. For S-size (96628820), for M/L-size (96628822).

SPECIFICATION

To specify state:
An IP65 single point suspension LED high bay luminaire with plug and play connection for rapid installation. Available in 8000lm, 13000lm, 17000lm, 23000lm & 31000lm all with constant lumen output feature, with a choice of wide beam and very wide beam optic. As standard available with innovative radio frequency node to connect with remote IP65 sensors. Furthermore unique lighting experience with lit ring of light. As Thorn FlexPak

ORDERING GUIDE

Description	Wt (kg)	SAP Code
FlexPak Small		
FLEXPAK S LED8000-840 HF CLO RFH VWB	8.30	96628795
FLEXPAK S LED8000-840 HF CLO RFH WB	8.30	96628794
FLEXPAK S LED8000-840 HFIX CLO VWB	8.30	96628797
FLEXPAK S LED8000-840 HFIX CLO WB	8.30	96628796
FLEXPAK S LED13000-840 HF CLO RFH VWB	8.30	96628799
FLEXPAK S LED13000-840 HF CLO RFH WB	8.30	96628798
FLEXPAK S LED13000-840 HFIX CLO VWB	8.30	96628801
FLEXPAK S LED13000-840 HFIX CLO WB	8.30	96628800
FlexPak Medium		
FLEXPAK M LED17000-840 HF CLO RFH VWB	9.10	96628803
FLEXPAK M LED17000-840 HF CLO RFH WB	9.10	96628802
FLEXPAK M LED17000-840 HFIX CLO VWB	9.10	96628805
FLEXPAK M LED17000-840 HFIX CLO WB	9.10	96628804
FLEXPAK M LED23000-840 HF CLO RFH VWB	9.60	96628807
FLEXPAK M LED23000-840 HF CLO RFH WB	9.60	96628806
FLEXPAK M LED23000-840 HFIX CLO VWB	9.60	96628809
FLEXPAK M LED23000-840 HFIX CLO WB	9.60	96628808
FlexPak Large		
FLEXPAK L LED31500-840 HF CLO RFH VWB	11.80	96628811
FLEXPAK L LED31500-840 HF CLO RFH WB	11.80	96628810
FLEXPAK L LED31500-840 HFIX CLO VWB	11.80	96628813
FLEXPAK L LED31500-840 HFIX CLO WB	11.80	96628812
FlexPak Attachments		
FLEXPAK COVER KIT REFRACTOR L (5PC)		96628819
FLEXPAK COVER KIT REFRACTOR M (5PC)		96628818
FLEXPAK COVER KIT REFRACTOR S (5PC)		96628817
FlexPak Accessories		
FLEXPAK CHAIN SUSPENSION		96628823
FLEXPAK CORD SUSPENSION 1000MM		96628824
FLEXPAK CORD SUSPENSION 2000MM		96628825
FLEXPAK CORD SUSPENSION 5000MM		96628826
FLEXPAK STIRRUP M/L (6PCS.)		96628822
FLEXPAK STIRRUP S (6PCS.)		96628820
HIGHBAY BATTERY PACK E3R		96628814
HIGHBAY BATTERY PACK E3TXR		96628821
HIGHBAY SENSOR 12M RFH IP65		96628815
REMOTE CONTROL RFH		96628816

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

Accessories



Chain



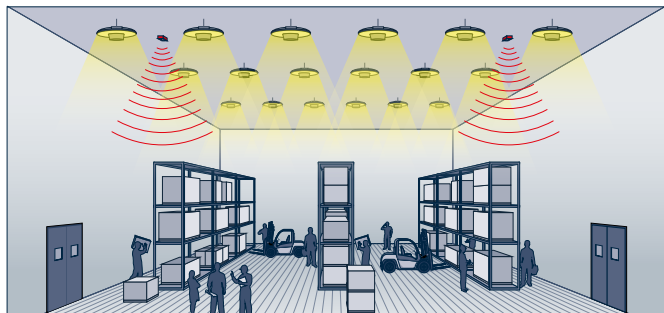
Chain suspension



Cord suspension with
1, 2 or 5m wire

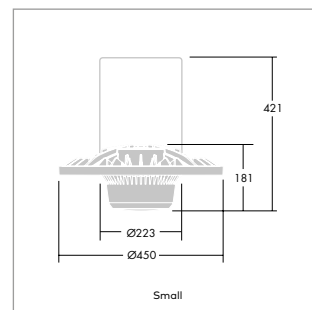


Also available:
Stirrup - surface
installation



TRADITIONAL HIE LUMINAIRES

All on 100%. Not dimmable.
No sensor

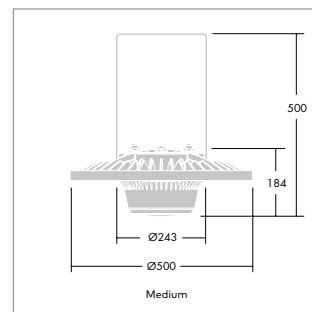


Small



FLEXPAK SOLUTIONS

Can directly replace existing HID luminaires. The sensors are wireless and can be placed at room entry points/where needed. Presence detection with delay time setting saves energy by switching lights off when the room/space is unoccupied. Daylight threshold saves energy by ensuring the lights are never on when natural light exceeds the set value.

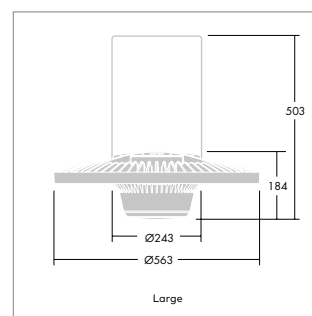


Medium

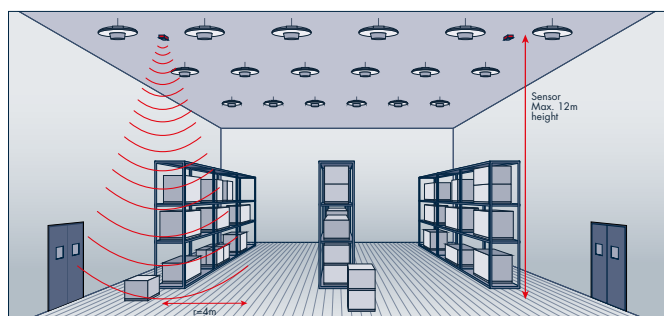


GROUP LUMINAIRES

Group according to the room/space use. Luminaires can be connected with up to 15 sensors to optimise detection and maximise energy savings. Correctly positioned presence detectors switch off luminaires when no occupation is registered.



Large

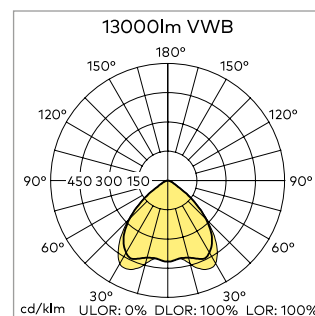
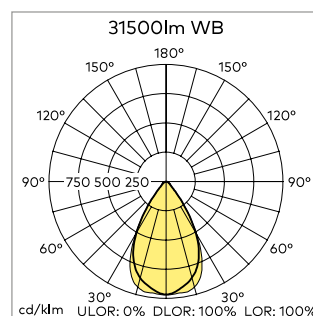


REMOTE SENSOR

Sensors can be distributed freely in the room. Max detection height is 12m. Max radio range is 30m radius. Max detection pattern is 5m radius.

FlexPak LED Vs traditional lamps

Traditional HIE/ HSE Lamp	FlexPak S		FlexPak M		FlexPak L
with CLO	8000 lm	13000 lm	17000 lm	23000 lm	31500 lm
without CLO	(8000 lm)	(15000 lm)	(20000 lm)	(25000 lm)	(37000 lm)
100 - 150 W HIE					
250 W HIE					
400 W HIE					
400 W HSE					
1000 W HIE					





www.thornlighting.co.uk/HIPK
www.thornlighting.ie/HIPK

A single point suspension high bay,
 saving you time, energy and money



- Direct replacement of HID high bays 85W/125W/150W/200W, with up to 40% energy saving
- Plug and play connection for rapid installation
- Cooling fin housing design allows air to flow through the luminaire and prevents overheating of components
- Precise lens technology provides light exactly where it is needed, reducing wasted light and maximising energy savings

MATERIALS/FINISH

Housing: Die cast aluminium (RAL 9006)
 Lens/Diffuser: Polycarbonate
 Luminaire is silicon free

INSTALLATION/MOUNTING

All luminaires are suitable for single point suspension. All wide optic luminaires are supplied with a mounting hook as standard (chain to be ordered separately: 96502605). For rack optic luminaires it is recommended to use the fixed rod suspension or surface wall mounting accessory (ordered separately)

Mounting accessories to be ordered separately:
 stirrup for wall mounting (96642765/96642914), rod suspension for pendant mounting (96642766), wire suspension (96502609) and catenary suspension (96502610). All luminaires are supplied pre-wired with a quick connector plug

SPECIFICATION

To specify state:
 An IP65 single point suspension LED high bay luminaire with plug and play connection for rapid installation. Available in 10000lm, 15000lm, 20000lm and 25000lm, with a choice of rack or wide beam optic. Fixed output (HF) and DALI available as standard.
 As Thorn HiPak.

**LAMPS**

LED

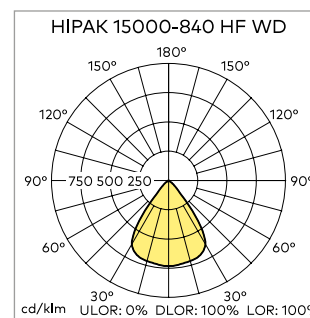
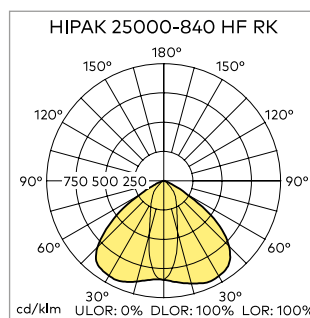
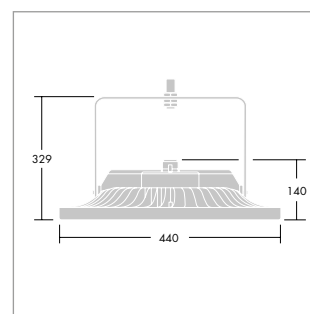
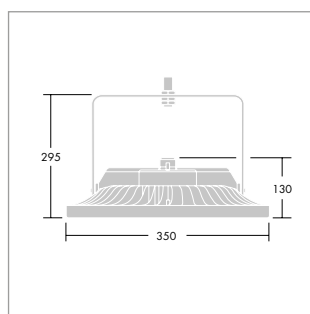
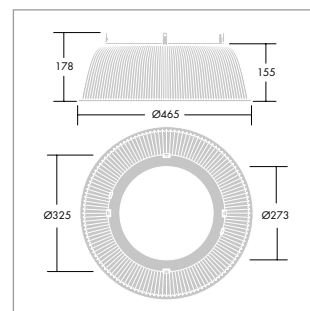
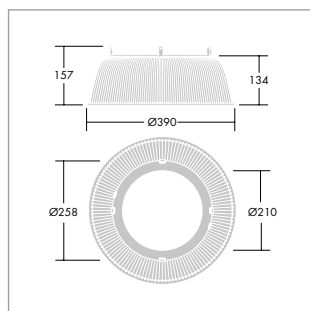
84.7-240W

NORMEN
ORDERING GUIDE

Complete with LED's

Description	Wt (kg)	SAP Code	Cat. No.
HiPak Wide optic			
HIPAK LED10000-840 HF WD GEN2	5.30	96665367	HK10000ZWD
HIPAK LED15000-840 HF WD GEN2	5.40	96665369	HK15000ZWD
HIPAK LED20000-840 HF WD GEN2	7.20	96665373	HK20000ZWD
HIPAK LED25000-840 HF WD GEN2	7.40	96665377	HK25000ZWD
HiPak Wide optic, dimmable			
HIPAK LED10000-840 HFI-X WD GEN2	5.30	96665368	HK10000YWD
HIPAK LED15000-840 HFI-X WD GEN2	5.40	96665370	HK15000YWD
HIPAK LED20000-840 HFI-X WD GEN2	7.20	96665374	HK20000YWD
HIPAK LED25000-840 HFI-X WD GEN2	7.40	96665378	HK25000YWD
HiPak Rack optic			
HIPAK LED15000-840 HF RK GEN2	5.40	96665371	HK15000ZRK
HIPAK LED20000-840 HF RK GEN2	7.20	96665375	HK20000ZRK
HIPAK LED25000-840 HF RK GEN2	7.40	96665379	HK25000ZRK
HiPak Rack optic, dimmable			
HIPAK LED15000-840 HFI-X RK GEN2	5.40	96665372	HK15000YRK
HIPAK LED20000-840 HFI-X RK GEN2	7.20	96665376	HK20000YRK
HIPAK LED25000-840 HFI-X RK GEN2	7.40	96665380	HK25000YRK
HiPak accessories			
HIBAY CONNECTOR 3M + FEM PLUG (10PCS) G2	3.20	96628869	
HIPAK FEMALE CONNECTOR SPARE (10 PCS) G2	0.39	59009133	
HIPAK KIT COVER PR L (6 PCS)	6.12	96665383	HKPRCOV2
HIPAK KIT COVER PR S (6 PCS)	4.02	96665382	HKPRCOV1
HIPAK ROD 1,0M + CEILING ROSE (6PCS.)	0.40	96642766	HKRS
HIPAK STIRRUP L MCE/MWA (6PCS.)	0.40	96642914	HKBRA2
HIPAK STIRRUP S MCE/MWA (6PCS.)	0.40	96642765	HKBRA
PR2/HIPAK FIX/CH	0.10	96502605	
PR2/HIPAK FIX/CAT	0.90	96502610	
PR2/HIPAK FIX/CH	0.04	96502603	
PR2/HIPAK FIX/CHA	0.05	96502604	
PR2/HIPAK MSW1 1000	0.02	96502607	
PR2/HIPAK MSW1 2000	0.06	96502608	
PR2/HIPAK MSW1 5000	0.03	96502609	

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ForceLED



www.thornlighting.co.uk/FORL
www.thornlighting.ie/FORL



Compact IP66 luminaire with unique prismatic diffuser and wireless integrated controls



- Highly efficient LEDs (~120lm/W) reduce energy consumption and costs. Further savings arise from longer maintenance lifecycle.
- Integrated, presence-based dimming controls for further energy savings
- IP66 rated waterproof seal
- Robust, fully recyclable aluminium bodies
- OTHER OPTIONS ARE AVAILABLE (Dimming, Emergency...). See myProduct for configuration options

MATERIALS/FINISH

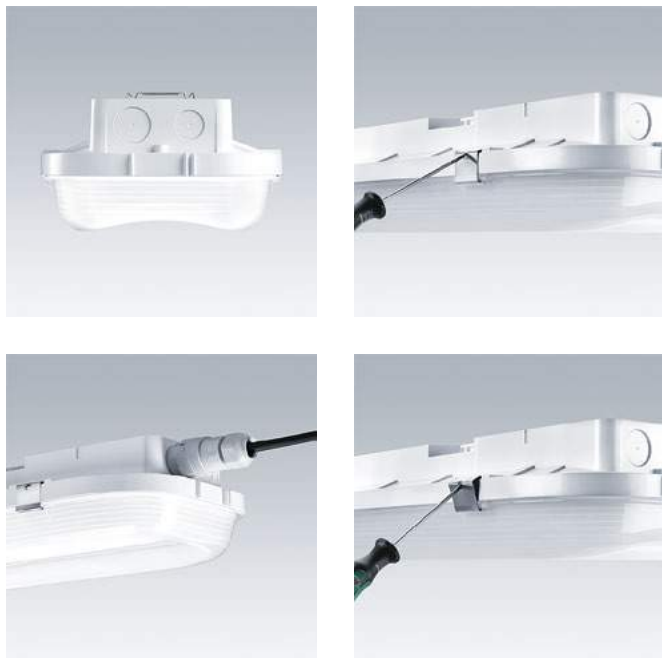
Canopy: aluminium
 Diffuser: polycarbonate with linear prisms
 Gasket: silicone sponge
 Toggles: stainless steel
 Quick fix bracket: stainless steel

INSTALLATION/MOUNTING

For surface, suspended and BESA mounting. Quick-fix installation brackets are supplied with each luminaire for surface mounting and optional accessory kits are available to assist with other mounting options.

SPECIFICATION

To specify state:
 Compact high performance LED IP66, dust and moisture proof luminaire with fully recyclable aluminium body, polycarbonate diffusers and stainless steel toggles, LED light engine offering 4150 and 6150lm, Ra80, 4000K, long service life of 50000 hours.
 As Thorn ForceLED.

**LAMPS**

LED

34-53W

STANDARDS

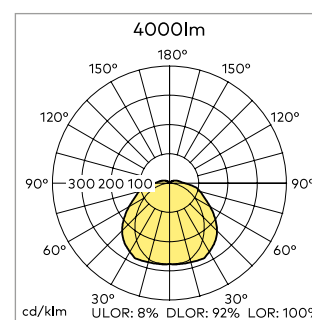
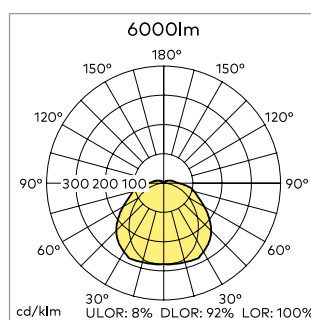
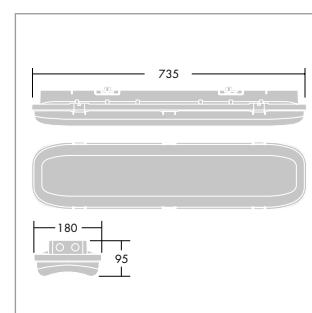
	IP 66	IK 08	T _a 0 +25	T _a 0 +35	T _a -20 +35
T _a -20 +50	850 °C				

ORDERING GUIDE

Supplied complete with LEDs and quick-fix brackets

Description	Wt (kg)	SAP Code	Cat. No.
ForceLED			
FORCELED 4000 HF L840	2.61	96617235	FL4000Z
FORCELED 4000 HF HT L840	2.65	96242063	FL4000ZH
FORCELED 6000 HF L840	2.65	96242061	FL6000Z

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ForceLED

Pro



www.thornlighting.co.uk/FORP
www.thornlighting.ie/FORP



- Robust die-cast aluminium construction and impact resistant up to 80 joules to withstand the harshest environments
- Unique Safe-T locking system for easy installation, maintenance and to aid vandal resilience
- Dust and water resistant with rear gaskets and side/rear (inverted) glands allowing ingress protection to be maintained at IP66 after installation
- Highly efficient LED light engine offers an energy saving alternative to fluorescents
- BESA box compatibility

MATERIALS/FINISH

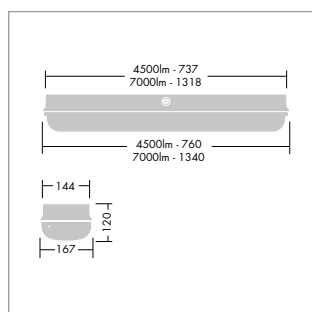
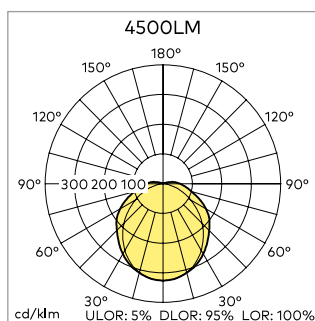
Body: die-cast aluminium, powder coated dark grey
 Diffuser: polycarbonate.
 Safe-T Locking System (SLS): thermoplastic alloy of polycarbonate and acrylonitrile butadiene styrene (ABS).
 Gasket: liquid poured polyurethane.

INSTALLATION/MOUNTING

Suitable for: direct surface mounting with Quick-fix brackets or concealed Secure bracket.

SPECIFICATION

To specify state:
 Vandal resistant dust and waterproof LED luminaire. 4 500lm to 7 000lm, IP66, 4 x IK10, 3000/4000K, with unique safe-T locking system.
 As Thorn ForceLED Pro.



Vandal resistant dust and waterproof LED luminaire

LAMPS

LED 26-51W

STANDARDS

CE IP66 IK10 T_a-20 +35

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
ForceLED Pro			
FORCELED PRO 3000-840 COR	4.00	96628261	FLP4500C4K
FORCELED PRO 3000-840 COR MWS	4.00	96628265	FLP4500CM4K
FORCELED PRO 3000-840 COR MWS RF	4.00	96628266	FLP4500CMW4K
FORCELED PRO 3000-840 COR RF	4.00	96628264	FLP4500CW4K
FORCELED PRO 3000-840 HF	4.00	96628255	FLP4500Z4K
FORCELED PRO 3000-840 HF MWS	4.00	96628259	FLP4500ZM4K
FORCELED PRO 3000-840 HF MWS RF	4.00	96628260	FLP4500ZMW4K
FORCELED PRO 3000-840 HF RF	4.00	96628258	FLP4500ZW4K
FORCELED PRO 3000-840 HF TW	4.00	96628256	FLP4500ZTW4K
FORCELED PRO 3000-840 HFI	4.00	96628062	FLP4500D4K
FORCELED PRO 3000-840 HFI TW	4.00	96628262	FLP4500DTW4K
FORCELED PRO 3000-830 HFI	4.00	96628064	FLP4500D3K
FORCELED PRO 6000-840 COR	8.50	96628273	FLP7000C4K
FORCELED PRO 6000-840 COR MWS	8.50	96628277	FLP7000CM4K
FORCELED PRO 6000-840 COR MWS RF	8.50	96628278	FLP7000CMW4K
FORCELED PRO 6000-840 COR RF	8.50	96628276	FLP7000CW4K
FORCELED PRO 6000-840 HF	8.50	96628267	FLP7000Z4K
FORCELED PRO 6000-840 HF E3	8.50	96628269	FLP7000ZE4K
FORCELED PRO 6000-840 HF MWS	8.50	96628271	FLP7000ZM4K
FORCELED PRO 6000-840 HF MWS RF	8.50	96628272	FLP7000ZMW4K
FORCELED PRO 6000-840 HF RF	8.50	96628270	FLP7000ZW4K
FORCELED PRO 6000-840 HF TW	8.50	96628268	FLP7000ZTW4K
FORCELED PRO 6000-840 HFI	8.50	96628063	FLP7000D4K
FORCELED PRO 6000-840 HFI E3	8.50	96628275	FLP7000DE4K
FORCELED PRO 6000-840 HFI TW	8.50	96628274	FLP7000DTW4K
FORCELED PRO 6000-830 HFI	8.50	96628065	FLP7000D3K
ForceLED Pro Accessories			
FORCELED PRO QUICKFIX BRACKET KIT	0.15	96628089	FLPQBKIT
FORCELED PRO SECURE BRACKET KIT	2.60	96628090	FLPSBKIT
FORCELED PRO SECURITY ALLEN KEY	0.18	96628088	FLPSAKEY

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CorrosionForce II

LED



www.thornlighting.co.uk/**CORR**
www.thornlighting.ie/**CORR**

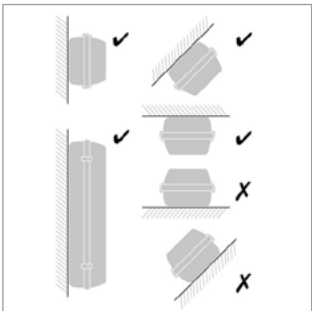


- Good resistance to chemicals and corrosion (polycarbonate free)
- Unique shape and flush toggle design promotes easy cleaning
- For quick and easy maintenance, gear tray simply hangs from internal clips

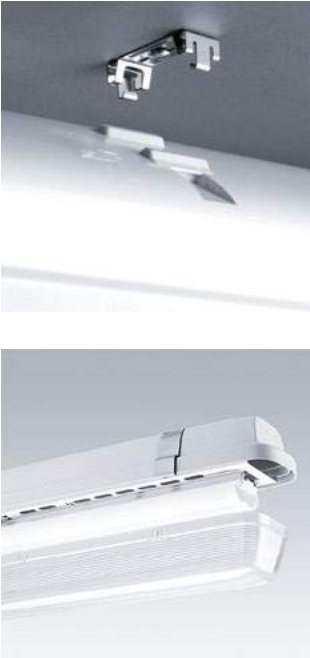
MATERIALS/FINISH
Canopy: glass-fibre reinforced polyester
Diffuser: PMMA with linear prisms
Gasket: expanded polyurethane
Toggles: stainless steel
Gear tray: steel, white enamelled finish

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. Digital dimming and emergency options. As Thorn CorrosionForce II.



A corrosion resistant IP65 range for use in all atmospheres laden with salts, acids and mineral oils



LAMPS
LED 36-56W

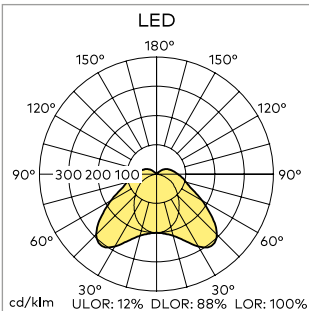
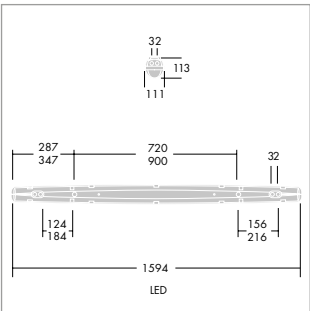
STANDARDS
CE IP65 IK02 IK03
850°C

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
CorrosionForce II LED			
CORRF2 LED4500 AC HF L840	2.00	96627912	CF4500Z
CORRF2 LED4500 AC HFI L840	2.00	96627498	CF4500D
CORRF2 LED7000 AC HF L840	2.00	96627913	CF7000Z
CORRF2 LED7000 AC HFI L840	2.00	96627500	CF7000D
CorrosionForce II Accessories			
FORCE2 BESA KIT	0.53	96503168	AQBESA
FORCE2 FIX KIT	0.02	96503166	AQQFB
FORCE2 FIX/CH KIT	0.02	96503167	AQCHASUS
FORCE2 MCA KIT	0.10	96233817	
FORCE2 MRS KIT	0.06	96503169	AQCONKIT

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AquaForce II

LED



www.thornlighting.co.uk/AQUL
www.thornlighting.ie/AQUL

A range of IP65 rated LED luminaires for high quality low energy lighting in wet and dusty environments



- Installation features include quick fix with Connect options, through wiring and BESA box compatibility (600mm spacing)
- Highly efficient LEDs 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 (RAL 7035)
 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 at 70% light output (L70).

As Thorn Aquaforce II LED

**LAMPS**

LED

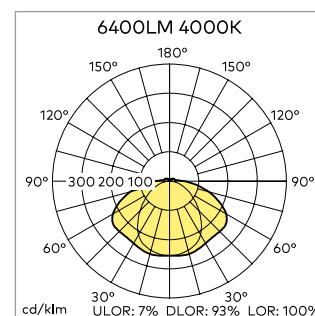
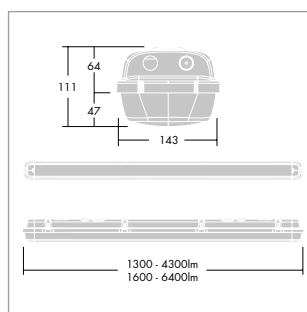
34-53W

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	96628603	AQ4300ZE
AQUAF2 LED 6400 HF E3 L840	3.10	96628604	AQ6400ZE
AquaForce II LED dimmable, emergency			
AQUAF2 LED 4300 HFI E3 L840	2.70	96628605	AQ4300DE
AQUAF2 LED 6400 HFI E3 L840	3.20	96628606	AQ6400DE
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	AQCHASUS
FORCE2 MCA KIT	0.10	96233817	
FORCE2 MRS KIT	0.06	96503169	AQCONKIT

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www.thornlighting.co.uk/DUOP
www.thornlighting.ie/DUOP



LAMPS

LED 34.2-37.1W

STANDARDS

CE EN 60598 IP65 IK07 T_a25 850°C
 T_{p(a)}

- Welded frame corners provide a smooth and easy to clean surface
- Diffuser frame secured by 1/4 turn fasteners for quick installation
- Retention cords 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: opal PMMA

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. 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

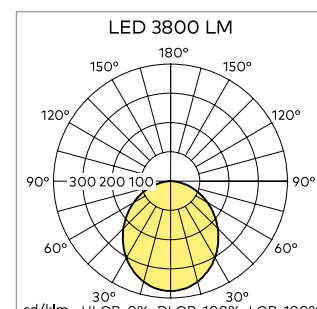
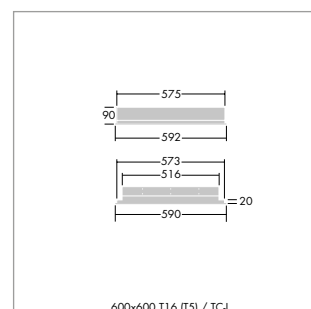
To specify state:
 Recessed IP65 sealed LED luminaire.
 Frame design with welded corners,
 EN ISO 14644-1 Cleanliness Class
 5-9, diffuser. As Thorn Duoproof.

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Duoproof LED			
DUOPRF LED3800-840 HF E3 Q600	9.00	96628425	DP3800ZE
DUOPRF LED3800-840 HF Q600	7.50	96628424	DP3800Z
DUOPRF LED3800-840 HFI E3 Q600	9.00	96628427	DP3800DE
DUOPRF LED3800-840 HFI Q600	7.50	96628426	DP3800D
DUOPRF LED3800-840 HF 1200X300	7.15	96628428	DP3800ZE12X3
DUOPRF LED3800-840 HF E3 1200X300	7.67	96628429	DP3800ZE12X3
DUOPRF LED3800-840 HFI 1200X300	7.15	96628430	DP3800D12X3
DUOPRF LED3800-840 HFI E3 1200X300	7.67	96628431	DP3800D12X3

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





Duoproof, Loughborough University, UK



Gateshead Leisure Centre



Gateshead
Council

Gateshead
Council

Indoor Lighting

SPORTS LUMINAIRES



92
HiPak Pro LED



94
Titus Sport

HiPak

Pro LED



www.thornlighting.co.uk/HIPS
www.thornlighting.ie/HIPS



Extremely efficient, robust and low maintenance LED High Bay



- Dedicated asymmetric optic for use in sports applications
- Ball-proof certified to ensure protection in a sports environment
- Highly efficient operation up to 135lm/W for significant energy savings
- On board thermal management system ensures LED performance and lifetime

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. Chain suspension (96241507), trunking mounting via 20mm holes (96241497), catenary suspension (96241515). To mechanically join two luminaires together both a mounting kit (options from above) and accessory 96241508 need to be ordered. For sports applications an additional bracket should be ordered (96628086) to ensure security upon impact. A 2.5mm² piano key terminal block is accessed via a sliding gear tray cover offering two 20mm cable entries. Emergency versions suitable for maximum ambient temperature up to 30°C.

SPECIFICATION

To specify state:
 LED high bay luminaire made from extruded anodised aluminium, with a choice of open area, rack or asymmetric optic, DALI with sensor or emergency options as standard, LEDs supplied offering 14,000 and 19,000 lumen output, 4000K, 50,000 hours L80, up to 135lm/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)

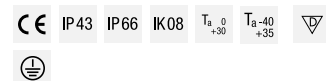


IP66 version

LAMPS

LED

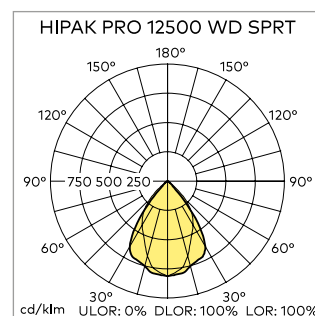
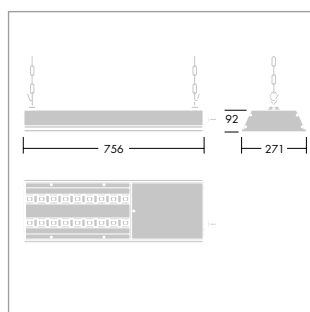
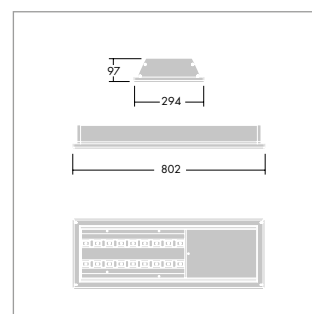
104-152W

STANDARDS**ORDERING GUIDE**

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

Description	Wt (kg)	SAP Code	Cat. No.
HiPAK Pro LED with sport optic			
HIPAK PRO LED12500-840 HFI-X ASY SPRT	9.20	96642965	HPS12500YAS
HIPAK PRO LED12500-840 HFI-X WD SPRT	14.30	96642966	HPS12500YWD
HIPAK PRO LED13500-740 HFI-X ASY SPRT	8.80	96628053	HPS13500YAS
HIPAK PRO LED13500-740 HFI-X WD SPRT	8.80	96642929	HPS13500YWD
HIPAK PRO LED17000-840 HFI-X ASY SPRT	9.20	96642936	HPS17000YAS
HIPAK PRO LED17000-840 HFI-X WD SPRT	8.80	96642941	HPS17000YWD
HIPAK PRO LED18500-740 HFI-X ASY SPRT	8.80	96642950	HPS18500YAS
HIPAK PRO LED18500-740 HFI-X WD SPRT	8.80	96642923	HPS18500YWD
HiPAK Pro LED with sport optic, emergency			
HIPAK PRO LED12500-840 HFI-X E3 ASY SPRT	14.30	96642967	HPS12500YEAS
HIPAK PRO LED12500-840 HFI-X E3 WD SPRT	8.80	96642935	HPS12500YEWWD
HIPAK PRO LED13500-740 HFI-X E3 ASY SPRT	9.20	96628018	HPS13500YEAS
HIPAK PRO LED13500-740 HFI-X E3 WD SPRT	8.80	96642932	HPS13500YEWWD
HIPAK PRO LED17000-840 HFI-X E3 ASY SPRT	9.20	96628050	HPS17000YEAS
HIPAK PRO LED17000-840 HFI-X E3 WD SPRT	9.20	96642942	HPS17000YEWWD
HIPAK PRO LED18500-740 HFI-X E3 ASY SPRT	9.20	96642947	HPS18500YEAS
HIPAK PRO LED18500-740 HFI-X E3 WD SPRT	8.80	96642926	HPS18500YEWWD
HiPAK Pro LED Accessories			
HIPAK LED BRA	0.40	96241497	HPTRUBRA
HIPAK PRO KIT FIX BRA JOINT	0.90	96241508	HPJOINT
HIPAK PRO KIT FIX MCA	0.20	96241515	HPCATSUS
HIPAK PRO KIT FIX SPORT	1.80	96628086	HPSBRA
HIPAK PRO KIT FIX/CH	0.20	96241507	HPCHAIN

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Titus

Sport



www.thornlighting.co.uk/TTUS
www.thornlighting.ie/TTUS



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.



LAMPS

T5 (FDH) G5 49-80W

STANDARDS



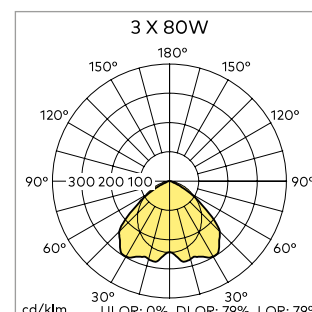
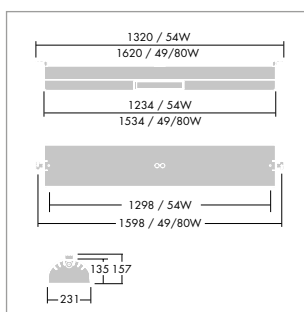
ORDERING GUIDE

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 2X54W L840	6.80	96547439	TTS254Z
TITUS SPORT 3X49W L840	8.10	96547441	TTS349Z
TITUS SPORT 3X54W L840	7.10	96547445	TTS354Z
TITUS SPORT 4X49W L840	8.20	96547450	TTS449Z
TITUS SPORT 4X54W L840	7.20	96547454	TTS454Z
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 4X54W E3 L840	8.80	96547465	TTS454ZE
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 2X54W TW L840	6.90	96547440	TTS254ZTW
TITUS SPORT 3X49W TW L840	8.20	96547444	TTS349ZTW
TITUS SPORT 2X49W TW L840	7.90	96547438	TTS249ZTW
TITUS SPORT 4X49W TW L840	8.30	96547453	TTS449ZTW
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 High frequency, dimmable			
TITUS SPORT 2X49W HFI L840	9.00	96550469	TTS249D
TITUS SPORT 2X54W HFI L840	7.42	96550473	TTS254D
TITUS SPORT 3X49W HFI L840	8.20	96550477	TTS349D
TITUS SPORT 2X80W HFI L840	9.00	96550495	TTS249D
TITUS SPORT 4X49W HFI L840	9.20	96550484	TTS449D
TITUS SPORT 4X54W HFI L840	7.10	96550488	TTS454D
TITUS SPORT 3X80W HFI L840	8.20	96550481	TTS380D
TITUS SPORT 4X80W HFI L840	9.00	96550491	TTS480D

Description	Wt (kg)	SAP Code	Cat. No.
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 4X54W HFI E3 L840	8.90	96550486	TTS454DE
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 4X54W HFI TW L840	8.00	96550489	TTS454DTW
TITUS SPORT 3X80W HFI TW L840	8.40	96550482	TTS380DTW
TITUS SPORT 4X80W HFI TW L840	9.40	96550492	TTS480DTW
Titus Sport Attachments			
TITUS LOUVRE 28W/54W DSB	0.001	96010224	TTI28/54LVD
TITUS LOUVRE 35W/49W PSB	0.95	96010223	TTI35/49LVP
TITUS LOUVRE B 35W/49W DSB	0.001	96010225	TTI35/49LVD
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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ALBERT PRINCE CONSORT
BORN 1819 DIED 1861



Outdoor Lighting

RECESSED ARCHITECTURAL FLOODLIGHTING



98
Mica



101
E/Fact



104
Linn



A series of LED circular recessed drive-over luminaires



- Designed in accordance with the new contact temperature norm: <40°C
- 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. All versions are pre-wired with resined cables for improved waterproofness and speed of installation

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 ENAB44100 (copper free).
Retaining screws: stainless steel
Front glass: toughened semi-frosted or frosted sodic glass.
Glass thicknesses:
Mica Slim A and Mica Slim I: 19mm with stainless steel frame and 15mm with painted aluminium.
Mica Slim S: 15mm with stainless steel frame and 12mm with painted aluminium ENAB44100 (copper free).
Mica Slim SS: 12mm with stainless steel frame and 10mm with painted aluminium ENAB44100 (copper free).
Gasket: anti-ageing silicon.
Recessing box: polypropylene.
Cable: (H07RN-F 3x1,5mm²) min. 0.4m long for all sizes.
Dome window attachments: painted aluminium ENAB44100 for Mica Slim SS versions only.
Anti-slip glass on request.
Holographic films: non-yellowing polycarbonate.
All versions have integral power supply but not dimmable.

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. To facilitate quick installation, the wiring can be done via IP68 wiring connectors (SAP codes 96260810, 96260809, 96272068 and 60800549). For through wiring, IP67 connection boxes can be used (SAP codes 96257909 and 96257908).
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. Colour change RGB lighting technology available 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 in 4 sizes. Polypropylene recessed box and flat stainless steel/flat or dome windows painted aluminium frames. Die cast aluminium body sealed to IP67. With a choice of 3 monochromatic colours for Mica Slim SS, S, A and I. Dynamic RGB versions for 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**

LED

2.5-27.3W

STANDARDS

IP67 IK10

ORDERING GUIDE

Supplied complete with LED.

All Mica versions are supplied pre-wired.

Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim SS LED			
MICA SLIM SS 1L35 ACC 24D 832 AL SF	1.57	96271533	
MICA SLIM SS 1L35 ACC 24D 832 RS SF	1.74	96271534	
MICA SLIM SS 1L35 ACC 24D 840 AL SF	1.57	96271531	
MICA SLIM SS 1L35 ACC 24D 840 RS SF	1.74	96271532	
MICA SLIM SS 1L35 ACC 24D BLU AL SF	1.74	96271535	
MICA SLIM SS 1L35 ACC 24D BLU RS SF	1.74	96271536	
MICA SLIM SS 1L35 ACC 7D 832 AL SF	1.57	96271480	
MICA SLIM SS 1L35 ACC 7D 832 RS SF	1.74	96271477	
MICA SLIM SS 1L35 ACC 7D 840 AL SF	1.57	96271479	
MICA SLIM SS 1L35 ACC 7D 840 RS SF	1.74	96271476	
MICA SLIM SS 1L35 ACC 7D BLU AL SF	1.57	96271481	
MICA SLIM SS 1L35 ACC 7D BLU RS SF	1.74	96271478	
MICA SLIM SS 1L35 SOFT 832 AL FR	1.47	96271474	
MICA SLIM SS 1L35 SOFT 832 RS FR	1.64	96271471	
MICA SLIM SS 1L35 SOFT 840 AL FR	1.47	96271473	
MICA SLIM SS 1L35 SOFT 840 RS FR	1.64	96271470	
MICA SLIM SS 1L35 SOFT BLU AL FR	1.47	96271475	
MICA SLIM SS 1L35 SOFT BLU RS FR	1.64	96271472	
MICA SLIM SS 1L70 ACC 832 EDO W1	1.47	96271488	
MICA SLIM SS 1L70 ACC 832 EDO W2	1.47	96271489	
MICA SLIM SS 1L70 ACC 832 EDO W8	1.47	96271490	
MICA SLIM SS 1L70 ACC 840 EDO W1	1.47	96271482	
MICA SLIM SS 1L70 ACC 840 EDO W2	1.47	96271484	
MICA SLIM SS 1L70 ACC 840 EDO W8	1.47	96271486	
MICA SLIM SS 1L70 ACC BLU EDO W1	1.47	96271483	
MICA SLIM SS 1L70 ACC BLU EDO W2	1.47	96271485	
MICA SLIM SS 1L70 ACC BLU EDO W8	1.47	96271487	

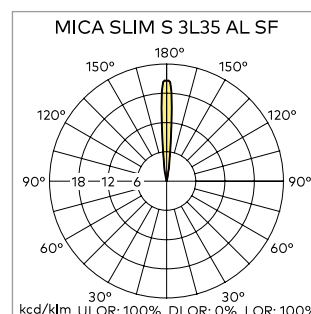
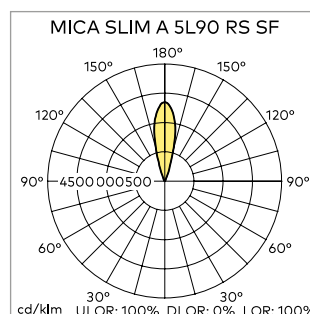
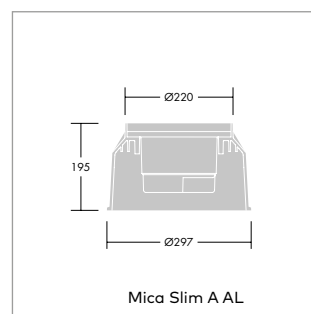
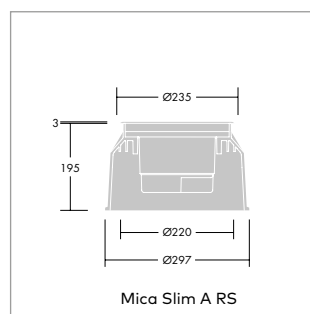
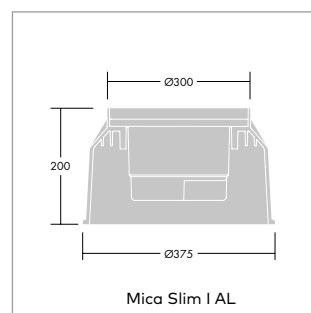
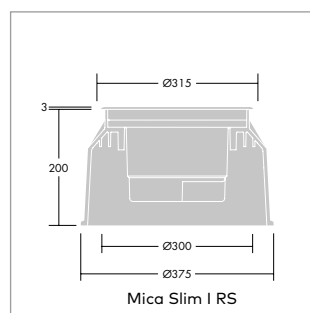
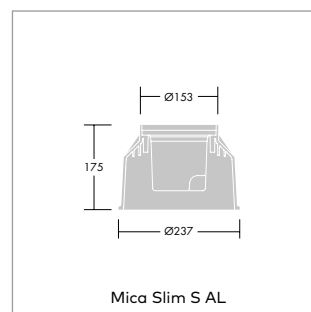
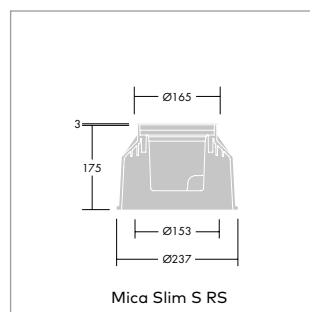
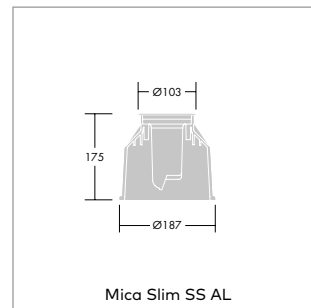
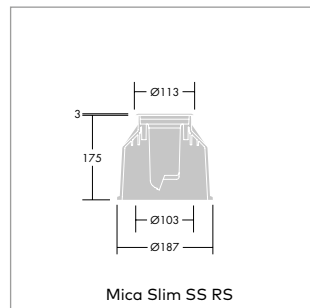
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Mica Slim S LED			
MICA SLIM S 3L35 ACC 10D 832 AL SF	2.34	96271501	
MICA SLIM S 3L35 ACC 10D 832 RS SF	2.60	96271498	
MICA SLIM S 3L35 ACC 10D 840 AL SF	2.34	96271500	
MICA SLIM S 3L35 ACC 10D 840 RS SF	2.60	96271497	
MICA SLIM S 3L35 ACC 10D BLU AL SF	2.34	96271502	
MICA SLIM S 3L35 ACC 10D BLU RS SF	2.60	96271499	
MICA SLIM S 3L35 ACC 23D 832 AL SF	2.34	96271539	
MICA SLIM S 3L35 ACC 23D 832 RS SF	2.60	96271540	
MICA SLIM S 3L35 ACC 23D 840 AL SF	2.34	96271537	
MICA SLIM S 3L35 ACC 23D 840 RS SF	2.60	96271538	
MICA SLIM S 3L35 ACC 23D BLU AL SF	2.34	96271541	
MICA SLIM S 3L35 ACC 23D BLU RS SF	2.60	96271542	
MICA SLIM S 3L35 SOFT 832 AL FR	2.20	96271495	
MICA SLIM S 3L35 SOFT 832 RS FR	2.45	96271492	
MICA SLIM S 3L35 SOFT 840 AL FR	2.20	96271494	
MICA SLIM S 3L35 SOFT 840 RS FR	2.45	96271491	
MICA SLIM S 3L35 SOFT BLU AL FR	2.20	96271496	
MICA SLIM S 3L35 SOFT BLU RS FR	2.45	96271493	
Mica Slim A LED			
MICA SLIM A 5L90 ACC 8D 832 AL SF	4.93	96271513	
MICA SLIM A 5L90 ACC 8D 832 RS SF	5.71	96271510	
MICA SLIM A 5L90 ACC 8D BLU AL SF	4.93	96271514	
MICA SLIM A 5L90 ACC 8D BLU RS SF	5.71	96271511	
MICA SLIM A 5L90 ACC 28D 832 AL SF	4.93	96271545	
MICA SLIM A 5L90 ACC 28D 832 RS SF	5.71	96271546	
MICA SLIM A 5L90 ACC 28D 840 AL SF	4.93	96271543	
MICA SLIM A 5L90 ACC 28D 840 RS SF	5.71	96271544	
MICA SLIM A 5L90 ACC 28D BLU AL SF	4.93	96271547	
MICA SLIM A 5L90 ACC 28D BLU RS SF	5.71	96271548	
MICA SLIM A 4L50 SOFT 832 AL FR	4.43	96271507	
MICA SLIM A 4L50 SOFT 832 RS FR	5.22	96271504	
MICA SLIM A 4L50 SOFT 840 AL FR	4.43	96271506	
MICA SLIM A 4L50 SOFT 840 RS FR	5.22	96271503	
MICA SLIM A 4L50 SOFT BLU AL FR	4.43	96271508	
MICA SLIM A 4L50 SOFT BLU RS FR	5.22	96271505	
MICA SLIM A 5L90 ACC 8D 840 AL SF	4.93	96271512	
MICA SLIM A 5L90 ACC 8D 840 RS SF	5.71	96271509	



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www.thornlighting.ie/MICA

Description	Wt (kg)	SAP Code	Cat. No.
Mica Slim I LED			
MICA SLIM I 9L90 ACC 28D 832 AL SF	8.49	96271551	
MICA SLIM I 9L90 ACC 28D 832 RS SF	9.78	96271552	
MICA SLIM I 9L90 ACC 28D BLU AL SF	8.49	96271553	
MICA SLIM I 9L90 ACC 28D BLU RS SF	9.78	96271554	
MICA SLIM I 9L90 ACC 8D 832 AL SF	8.49	96271517	
MICA SLIM I 9L90 ACC 8D 832 RS SF	9.78	96271518	
MICA SLIM I 9L90 ACC 8D 840 AL SF	8.49	96271515	
MICA SLIM I 9L90 ACC 8D 840 RS SF	9.78	96271516	
MICA SLIM I 9L90 ACC 8D BLU AL SF	8.49	96271519	
MICA SLIM I 9L90 ACC 8D BLU RS SF	9.78	96271520	
MICA SLIM I 15L25 SOFT RGB DMX AL FR	8.49	96271529	
MICA SLIM I 15L25 SOFT RGB DMX RS FR	9.78	96271530	
MICA SLIM I 7L50 ACC 22D RGB DMX AL SF	8.49	96271521	
MICA SLIM I 7L50 ACC 22D RGB DMX RS SF	9.78	96271522	
MICA SLIM I 9L50 SOFT 832 AL FR	8.49	96271525	
MICA SLIM I 9L50 SOFT 832 RS FR	9.78	96271526	
MICA SLIM I 9L50 SOFT 840 AL FR	8.49	96271523	
MICA SLIM I 9L50 SOFT 840 RS FR	9.78	96271524	
MICA SLIM I 9L50 SOFT BLU AL FR	8.49	96271527	
MICA SLIM I 9L50 SOFT BLU RS FR	9.78	96271528	
MICA SLIM I 9L90 ACC 28D 840 AL SF	8.49	96271549	
MICA SLIM I 9L90 ACC 28D 840 RS SF	9.78	96271550	
Mica Slim 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
MICASLIMSS/CESAR1CIRC LED HO-LOFILM60X1°	0.45	96260430	MCSS1
MICASLIMSS/CESAR1CIRC LED HO-LOFILM60X60°	0.45	96260431	MCSS60
MICASLIMSS/CESAR1CIRC LED HO-LOFILM75X45°	0.45	96260432	MCSS45
Mica Accessories			
CON CABLE 3/3X1,5² IP67 ZUM	0.10	60800549	
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	EFCCB3X4
CONNECT CABLE BOX 4/6X2,5² IP67	0.77	96257909	EFCCB4X6
MICA B/I LV 60D	0.42	96002573	MCBLV60
MICA B/I LV 90D	0.37	96002568	MCBLV90
MICA I 70W/150W 6/22D LV	0.05	96272283	

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LAMPS

 LED

1.1-16W

STANDARDS

 IP67 IK08 IK09 

- Designed in accordance with the new contact temperature norm: <40°C
- 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. All versions are pre-wired with resined cables for improved waterproofness and speed of installation

MATERIALS/FINISH

Bodies: die-cast aluminium, ENAB44100 (copper free) with powdered paint finish for high corrosion resistance.
Frame: Stainless steel AISI 316L (2mm thick) treated against corrosion or painted aluminium ENAB44100 (copper free).
Retaining screws: stainless steel
Front glass: toughened semi-frosted or frosted sodic glass.
Glass thicknesses:
E/Fact 00: 8mm.
E/Fact 0: 8mm.
E/Fact 1: 10mm.
Gasket: anti-ageing silicon
Recessing box: polypropylene
Cable: (H07RN-F 3x1,5mm²) min. 0,4m long for all sizes.
Dome window attachments: painted aluminium ENAB44100 for E/Fact 0 round versions only.
Anti-slip glass on request.
Holographic films: non-yellowing polycarbonate.
All versions have integral power supply but not dimmable.
All versions have electronic ballast.

INSTALLATION/MOUNTING

In-ground installation:
Luminaire delivered complete with body, recessed box, frame and glass. 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 with aluminium frame can be installed in ceiling with ceiling kits (to be ordered separately). Only E/Fact 0 and E/Fact 00 can be used in wall. For RGB versions, LEDs are driven by DMX control (not supplied).
To facilitate quick installation, the wiring can be done via IP68 wiring connectors (SAP codes 96260810, 96260809 and 96272068).

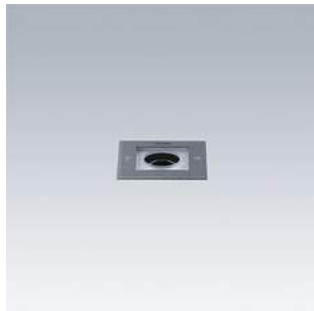
For through wiring, IP67 connection boxes can be used (SAP codes 96257909 and 96257908).
Holographic film: open the front glass and insert the holographic film under the glass thanks to the gasket with the smooth side of the film in contact of the glass. Rotate the film to obtain the required light effect.

SPECIFICATION

To specify state:
Square and round recessed, low temperatures, walk-over luminaires with integral transformer, 4 pre-wired sizes. 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 and 2. Dynamic RGB versions for size 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.



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ORDERING GUIDE

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 size 1 is available with stainless steel only.
 E/Fact 1 RGB version works with remote DMX/gear box.

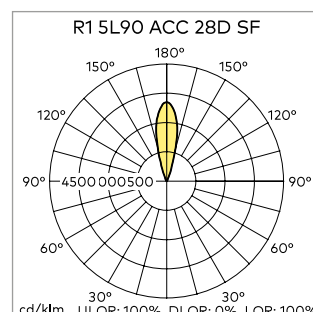
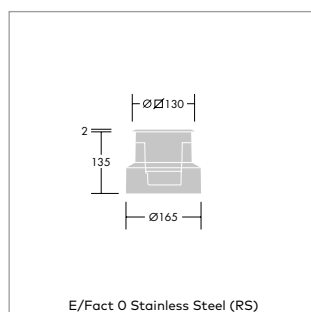
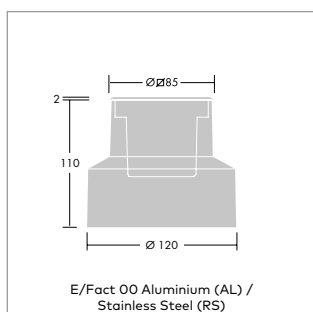
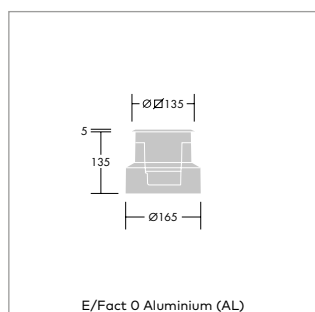
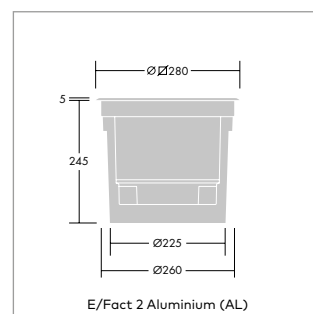
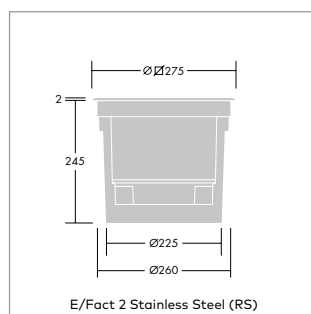
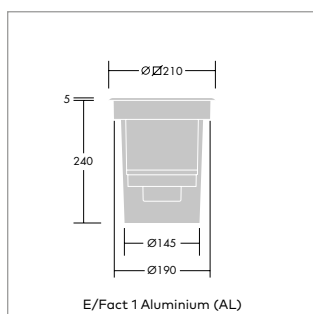
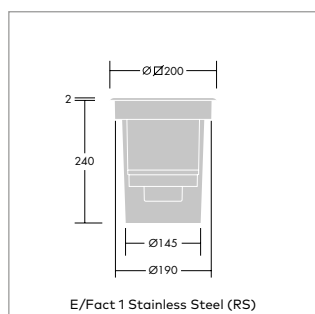
Description	Wt (kg)	SAP Code
E/Fact 00 LED Square		
EFACT C00 1L35 SOFT 832 AL FR	0.70	96271561
EFACT C00 1L35 SOFT 832 RS FR	0.75	96271562
EFACT C00 1L35 SOFT BLU AL FR	0.70	96271557
EFACT C00 1L35 SOFT BLU RS FR	0.75	96271558
EFACT C00 1L35 ACC 24D 832 AL SF	0.72	96271714
EFACT C00 1L35 ACC 24D 832 RS SF	0.78	96271715
EFACT C00 1L35 ACC 24D 840 AL SF	0.72	96271712
EFACT C00 1L35 ACC 24D 840 RS SF	0.78	96271713
EFACT C00 1L35 ACC 24D BLU AL SF	0.72	96271716
EFACT C00 1L35 ACC 24D BLU RS SF	0.78	96271717
EFACT C00 1L35 ACC 7D 832 AL SF	0.72	96271559
EFACT C00 1L35 ACC 7D 832 RS SF	0.78	96271560
EFACT C00 1L35 ACC 7D BLU AL SF	0.72	96271555
EFACT C00 1L35 ACC 7D BLU RS SF	0.78	96271556
EFACT C00 1L35 ACC 7D 840 AL SF	0.72	96271563
EFACT C00 1L35 ACC 7D 840 RS SF	0.78	96271564
EFACT C00 1L35 SOFT 840 AL FR	0.70	96271565
EFACT C00 1L35 SOFT 840 RS FR	0.75	96271566
E/Fact 00 LED Round		
EFACT R00 1L35 SOFT 832 AL FR	0.62	96271573
EFACT R00 1L35 SOFT 832 RS FR	0.66	96271574
EFACT R00 1L35 SOFT 840 AL FR	0.62	96271577
EFACT R00 1L35 SOFT 840 RS FR	0.66	96271578
EFACT R00 1L35 SOFT BLU AL FR	0.62	96271569
EFACT R00 1L35 SOFT BLU RS FR	0.66	96271570
EFACT R00 1L35 ACC 24D 832 AL SF	0.64	96271708
EFACT R00 1L35 ACC 24D 832 RS SF	0.68	96271709
EFACT R00 1L35 ACC 24D 840 AL SF	0.64	96271706
EFACT R00 1L35 ACC 24D 840 RS SF	0.68	96271707
EFACT R00 1L35 ACC 24D BLU AL SF	0.64	96271710
EFACT R00 1L35 ACC 24D BLU RS SF	0.68	96271711
EFACT R00 1L35 ACC 7D 832 AL SF	0.64	96271571
EFACT R00 1L35 ACC 7D 832 RS SF	0.68	96271572
EFACT R00 1L35 ACC 7D BLU AL SF	0.64	96271567
EFACT R00 1L35 ACC 7D BLU RS SF	0.68	96271568
EFACT R00 1L35 ACC 7D 840 AL SF	0.64	96271575
EFACT R00 1L35 ACC 7D 840 RS SF	0.68	96271576

Description	Wt (kg)	SAP Code
E/Fact 0 LED Square		
EFACT C0 1L50 SOFT 832 AL FR	1.45	96271581
EFACT C0 1L50 SOFT 832 RS FR	1.51	96271582
EFACT C0 1L50 SOFT 840 AL FR	1.45	96271583
EFACT C0 1L50 SOFT 840 RS FR	1.51	96271584
EFACT C0 1L50 SOFT BLU AL FR	1.45	96271579
EFACT C0 1L50 SOFT BLU RS FR	1.51	96271580
EFACT C0 3L50 ACC 22D 832 AL SF	1.56	96271726
EFACT C0 3L50 ACC 22D 832 RS SF	1.51	96271727
EFACT C0 3L50 ACC 22D 840 AL SF	1.56	96271724
EFACT C0 3L50 ACC 22D 840 RS SF	1.51	96271725
EFACT C0 3L50 ACC 22D BLU AL SF	1.56	96271728
EFACT C0 3L50 ACC 22D BLU RS SF	1.51	96271729
EFACT C0 3L50 ACC 9D 832 AL SF	1.51	96271589
EFACT C0 3L50 ACC 9D 832 RS SF	1.56	96271590
EFACT C0 3L50 ACC 9D 840 AL SF	1.51	96271591
EFACT C0 3L50 ACC 9D 840 RS SF	1.56	96271592
EFACT C0 3L50 ACC 9D BLU AL SF	1.51	96271593
EFACT C0 3L50 ACC 9D BLU RS SF	1.56	96271594
E/Fact 0 LED Round		
EFACT R0 1L35 SOFT 832 AL EDO/W1	1.19	96272073
EFACT R0 1L35 SOFT 832 AL EDO/W2	1.19	96272074
EFACT R0 1L35 SOFT 840 AL EDO/W2	1.19	96272076
EFACT R0 1L35 SOFT 840 AL EDO/W4	1.19	96272077
EFACT R0 1L35 SOFT 832 AL EDO/W4	1.19	96272075
EFACT R0 1L35 SOFT 840 AL EDO/W1	1.19	96272078
EFACT R0 1L50 SOFT 832 AL FR	1.22	96271630
EFACT R0 1L50 SOFT 832 RS FR	1.27	96271597
EFACT R0 1L50 SOFT 840 AL FR	1.22	96271598
EFACT R0 1L50 SOFT 840 RS FR	1.27	96271599
EFACT R0 1L50 SOFT BLU AL FR	1.22	96271595
EFACT R0 1L50 SOFT BLU RS FR	1.27	96271596
EFACT R0 3L50 ACC 22D 832 AL SF	1.28	96271718
EFACT R0 3L50 ACC 22D 832 RS SF	1.33	96271719
EFACT R0 3L50 ACC 22D 840 AL SF	1.28	96271720
EFACT R0 3L50 ACC 22D 840 RS SF	1.33	96271721
EFACT R0 3L50 ACC 22D BLU AL SF	1.28	96271722
EFACT R0 3L50 ACC 22D BLU RS SF	1.33	96271723
EFACT R0 3L50 ACC 9D 832 AL SF	1.28	96271604
EFACT R0 3L50 ACC 9D 832 RS SF	1.33	96271605
EFACT R0 3L50 ACC 9D 840 AL SF	1.28	96271606
EFACT R0 3L50 ACC 9D 840 RS SF	1.33	96271607
EFACT R0 3L50 ACC 9D BLU AL SF	1.28	96271608
EFACT R0 3L50 ACC 9D BLU RS SF	1.33	96271609

Description	Wt (kg)	SAP Code
E/Fact 1 LED Square		
EFACT C1 4L50 SOFT 832 AL FR	3.59	96271620
EFACT C1 4L50 SOFT 832 RS FR	3.72	96271621
EFACT C1 4L50 SOFT 840 AL FR	3.59	96271622
EFACT C1 4L50 SOFT 840 RS FR	3.72	96271623
EFACT C1 4L50 SOFT BLU AL FR	3.59	96271616
EFACT C1 4L50 SOFT BLU RS FR	3.72	96271617
EFACT C1 5L90 ACC 8D 832 AL SF	3.89	96271612
EFACT C1 5L90 ACC 8D 832 RS SF	4.02	96271613
EFACT C1 5L90 ACC 8D BLU AL SF	3.89	96271610
EFACT C1 5L90 ACC 8D BLU RS SF	4.02	96271611
EFACT C1 5L90 ACC 28D 832 AL SF	3.89	96271738
EFACT C1 5L90 ACC 28D 832 RS SF	4.02	96271739
EFACT C1 5L90 ACC 28D 840 AL SF	3.89	96271740
EFACT C1 5L90 ACC 28D 840 RS SF	4.02	96271741
EFACT C1 5L90 ACC 28D BLU AL SF	3.89	96271736
EFACT C1 5L90 ACC 28D BLU RS SF	4.02	96271737
EFACT C1 5L90 ACC 8D 840 AL SF	3.89	96271614
EFACT C1 5L90 ACC 8D 840 RS SF	4.02	96271615
E/Fact 1 LED Round		
EFACT R1 4L50 SOFT 832 AL FR	2.99	96271634
EFACT R1 4L50 SOFT 832 RS FR	2.99	96271635
EFACT R1 4L50 SOFT 840 AL FR	2.99	96271636
EFACT R1 4L50 SOFT 840 RS FR	2.99	96271637
EFACT R1 4L50 SOFT BLU AL FR	2.99	96271632
EFACT R1 4L50 SOFT BLU RS FR	2.99	96271633
EFACT R1 5L90 ACC 8D 832 AL SF	3.29	96271626
EFACT R1 5L90 ACC 8D 832 RS SF	3.41	96271627
EFACT R1 5L90 ACC 8D BLU AL SF	3.29	96271624
EFACT R1 5L90 ACC 8D BLU RS SF	3.41	96271625
EFACT R1 5L90 ACC 28D 832 AL SF	3.29	96271732
EFACT R1 5L90 ACC 28D 832 RS SF	3.41	96271733
EFACT R1 5L90 ACC 28D 840 AL SF	3.29	96271734
EFACT R1 5L90 ACC 28D 840 RS SF	3.41	96271735
EFACT R1 5L90 ACC 28D BLU AL SF	3.29	96271730
EFACT R1 5L90 ACC 28D BLU RS SF	3.41	96271731
EFACT R1 5L90 ACC 8D 840 AL SF	3.29	96271628
EFACT R1 5L90 ACC 8D 840 RS SF	3.41	96271629

Description	Wt (kg)	SAP Code
E/Fact LED holographic films		
EFACT C0 LED HOLO FILM 60X1°	0.45	96260412
EFACT C0 LED HOLO FILM 60X60°	0.45	96260413
EFACT C0 LED HOLO FILM 75X45°	0.45	96260414
EFACT C1 LED HOLO FILM 60X1°	0.95	96260418
EFACT C1 LED HOLO FILM 60X60°	0.95	96260419
EFACT C1 LED HOLO FILM 75X45°	0.95	96260420
EFACT C2 LED HOLO FILM 60X1°	0.95	96260424
EFACT C2 LED HOLO FILM 60X60°	0.95	96260425
EFACT C2 LED HOLO FILM 75X45°	0.95	96260426
EFACT R1 LED HOLO FILM 60X1°	0.95	96260421
EFACT R1 LED HOLO FILM 60X60°	0.95	96260422
EFACT R1 LED HOLO FILM 75X45°	0.95	96260423
EFACT R2 LED HOLO FILM 60X1°	0.95	96260427
EFACT R2 LED HOLO FILM 60X60°	0.95	96260428
EFACT R2 LED HOLO FILM 75X45°	0.95	96260429
E/Fact Accessories		
CON CABLE 3/3X1,5° IP67 ZUM	0.10	60800549
CONNECT CABLE 2/3X1,5°-4° TH390 IP68	0.05	96260809
CONNECT CABLE 2/4X1,5°-4° TH391 IP68	0.05	96260810
CONNECT CABLE BOX 3/4X2,5° IP67	0.40	96257908
CONNECT CABLE BOX 4/6X2,5° IP67	0.77	96257909
EFACT0 AL FRAME MCE KIT	0.10	96272285
EFACT00 AL FRAME MCE KIT	0.10	96272284
EFACT1 AL FRAME MCE KIT	0.10	96272286
EFACT2 AL FRAME MCE KIT	0.10	96272287

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- 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 LED colour temperatures (3200K and 4200K) and four frame designs (frosted glass, visor, baffle, grid and clear glass) in a square or rectangular shape. As Thorn Linn.

A complete LED modular wall recessed range offering extensive choice for all types of pathway lighting applications



ORDERING GUIDE

All Linn luminaires require recessed box to prepare the wall installation, to be ordered separately. If you need standard Allen screws instead of the Torx with central pin, order the code 96262922 or 96262927 depending on the Linn shape.

Description	Wt (kg)	SAP Code	Cat. No.
Linn Square body			
LINN SQ LED 2L35 832	0.30	96262124	LN32K34S
LINN SQ LED 2L35 842	0.30	96262125	LN42K34S
Linn Rectangular body			
LINN RCT LED 6L50 832	0.67	96262126	LN32K115R
LINN RCT LED 6L50 842	0.67	96262127	LN42K115R
Linn Performance versions			
LINN RCT LED 6L50 732 CL GL	1.05	96262137	LN32K11R
LINN RCT LED 6L50 742 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	LNFGSD
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 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
Linn Bollard			
LINN RCT BOLLARD EXTENSION	4.35	96264336	
LINN RCT BOLLARD GROUND BASE	2.50	96264339	

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Frosted glass frame version



Visor frame version



Performance version



Baffle frame version



Grid frame version



Bollard version

LAMPS

LED

11.3W

STANDARDS

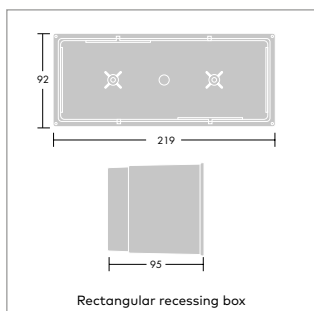
EN 60598

IP65

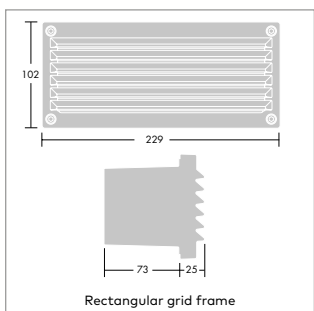
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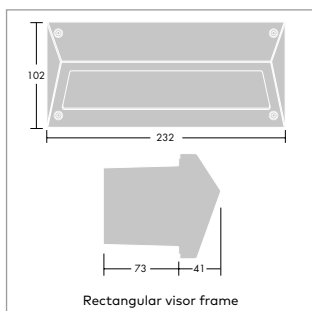
850 °C



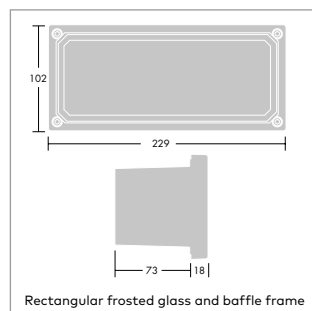
Rectangular recessing box



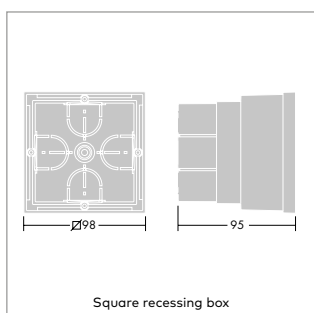
Rectangular grid frame



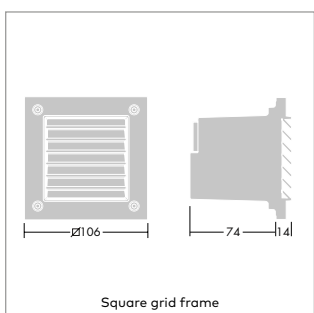
Rectangular visor frame



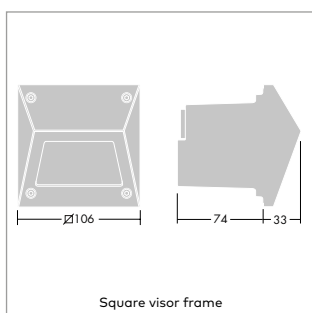
Rectangular frosted glass and baffle frame



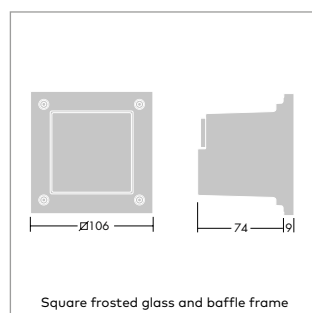
Square recessing box



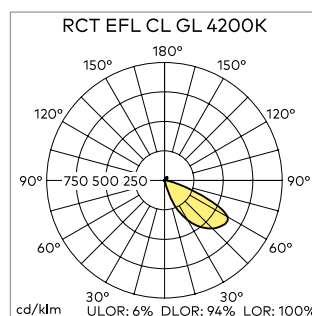
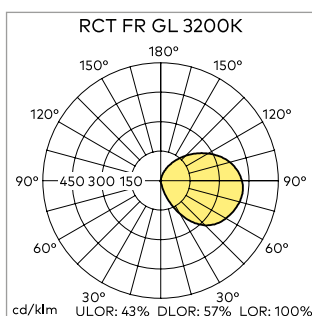
Square grid frame



Square visor frame



Square frosted glass and baffle frame





Outdoor Lighting

SURFACE MOUNTED ARCHITECTURAL FLOODLIGHTING



108
Cesar



109
Cesar
Rectangular



110
Contrast 2 LED



114
Olsys Illumination



116
Satin 2



123
Vioo



- Robust 'minimalist' luminaire with integral gear, for easy integration into any environment
- Adjustable positioning, reflectors, and lenses optimises light output and provides creative effects. Light effects via LEDs + holographic films or colour filters
- 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. 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: 8-12mm Supplied with fast connector.

Cable diameters: 8-12mm

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 IP65 protected, gear integrated, optional colour filters, frosted glass or louvre available as accessories.
As Thorn Cesar

Versatile and contemporary LED architectural floodlight for decorative lighting of building façades



LAMPS

LED 3W

STANDARDS

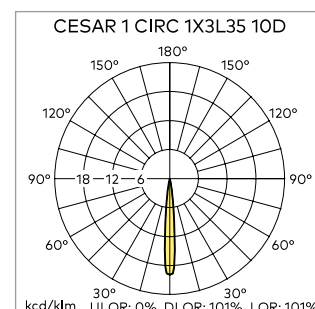
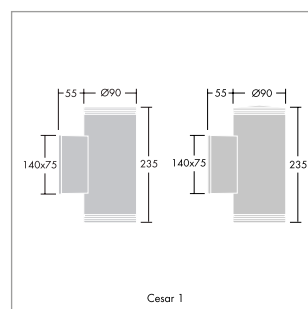
CE EN 60598 IP65 IK08

ORDERING GUIDE

Supplied complete with lamp(s)

Description	Wt (kg)	SAP Code	Cat. No.
Cesar Size 1 LED, downlight			
CESAR 1 CIRC 1X3L35 10D 760	1.72	96231435	CS16K3D10
CESAR 1 CIRC 1X3L35 10D 830	2.07	96260451	
CESAR 1 CIRC 1X3L35 10D BU	1.72	96231436	CS1B3D10
CESAR 1 CIRC 1X3L35 10D GN	1.72	96231437	CS1G3D10
CESAR 1 CIRC 1X3L35 10D RD	1.72	96231438	CS1R3D10
CESAR 1 CIRC 1X3L35 10D YE	1.72	96231439	CS1Y3D10
Cesar Size 1 LED, up/downlight			
CESAR 1 CIRC 2X3L35 10D BU	1.94	96231453	CS1B3UD10
CESAR 1 CIRC 2X3L35 10D GN	1.94	96231454	CS1G3UD10
CESAR 1 CIRC 2X3L35 10D RD	1.94	96231455	CS1R3UD10
CESAR 1 CIRC 2X3L35 10D YE	1.94	96231456	CS1Y3UD10
CESAR 1 CIRC 2X3L35 10D 760	1.94	96231452	CS16K3UD10
CESAR 1 CIRC 2X3L35 10D 830	2.30	96260452	
Cesar Accessories			
CESAR 1 CIRC FILTER BLU	0.09	96231457	CS1BF
CESAR 1 CIRC FILTER FR	0.09	96231461	CS1FF
CESAR 1 CIRC FILTER GRN	0.09	96231458	CS1GF
CESAR 1 CIRC FILTER RED	0.09	96231459	CS1RF
CESAR 1 CIRC FILTER YEL	0.09	96231460	CS1YF
CESAR 1 CIRC RX GL EXT	0.03	96251771	
CESAR 1 CIRC RX LR1	0.04	96251773	
MICASLIMSS/CESAR1CIRC LED HOLOFILM60X1°	0.45	96260430	MCSS1
MICASLIMSS/CESAR1CIRC LED HOLOFILM60X60°	0.45	96260431	MCSS60
MICASLIMSS/CESAR1CIRC LED HOLOFILM75X45°	0.45	96260432	MCSS45

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





Compact LED floodlight providing outdoor and indoor wall light effects

LAMPS

 LED

8-17W

STANDARDS

  IP65 IK06 T_a35 

- Compact, minimalist rectangular body easily integrates with indoor and outdoor façades
- Choice of 2 light effects for up/down installation in 2 colour temperatures
- All integral in a compact body
- Additional fixing plate for side wire entry when drilling through the wall is not possible

MATERIALS/FINISH

Body: die-cast aluminium EN AB 47100 painted dark sanded grey close to RAL 7043
 Front glass: tempered glass, 4mm thick
 Fixing plate: polycarbonate
 Fixing plate accessory: galvanised steel, painted dark sanded grey
 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 Cesar with the aluminium body part via 4 grub screws. Possibility of through wiring installation.

SPECIFICATION

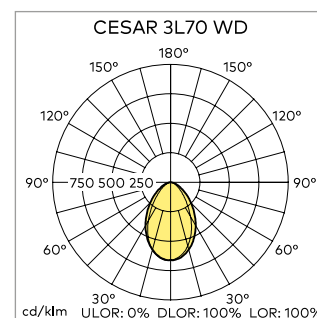
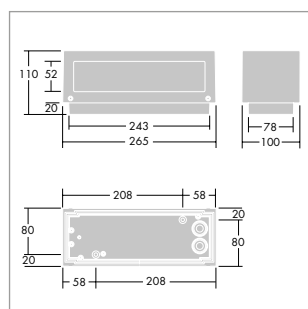
To specify state:
 Compact rectangular floodlight range for soft light effects on walls with 2 white colour temperatures and choice of 2 versions.
 As Thorn Cesar Rectangular.

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code
Cesar Rectangular		
CESAR RECT 3L70 1WD 832	2.10	96268564
CESAR RECT 3L70 1WD 840	2.10	96264341
CESAR RECT 6L70 2WD 832	2.20	96268563
CESAR RECT 6L70 2WD 840	2.20	96264340
CESAR RECT METAL FIX PLATE	0.40	96268565

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



Contrast 2

LED



www.thornlighting.co.uk/CON2
www.thornlighting.ie/CON2



A compact architectural floodlight range combining high output LEDs of predefined beams offering complete flexibility



- 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 three body sizes
- Manual dimming on monochromatic versions (Medium and Large) and DMX controls on RGB versions for a variety of lighting effects
- All small versions are MENA compliant. Medium and Large MENA versions are indicated by KIT description. All bodies are up to 50°C, all MENA versions are remote gear boxed
- Versions in all sizes with remote gear boxes are available on request to support countries with temperatures of use of 50°C

MATERIAL/FINISH

Body: Die-cast painted aluminium EN AC 47100 DF sanded, silver grey 150
 Glass: tempered glass, 4mm thick
 Gasket: EPDM
 Screws: stainless steel
 Medium and Large high temperature bodies are pre-wired with 1.5m cable.
 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 Ø15mm hole and 2 x Ø8mm holes for the medium and large size. Small versions fixed via central bolt hole Ø15mm and 1 x Ø8mm hole. Aiming simplified by indicator on stirrup, locked via central Ø6mm 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.

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 Ø8-13mm cable. Attachments and ground recessed boxes available. No LED module replacement.

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. Easy access to power supply and DMX card on the product rear for RGB DMX medium and large sizes. 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.

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:

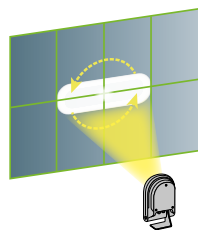
Small and Medium versions available in whites (3000K and 4000K), colours (R, G and B) and RGB DMX. Amber, 2700K and 6000K on request.

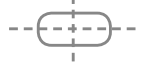
Large versions available in whites (3000K, 4000K and 6000K) and RGB DMX versions.

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 1x60°, 5x30° and 60x60°.
- 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 LED 8-88W

STANDARDS

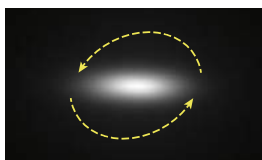




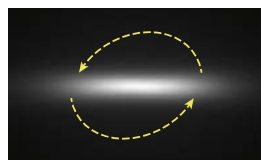




Small version 12°



12° + 5 x 30° holographic film



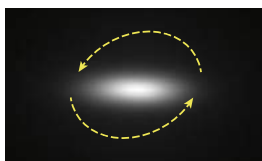
12° + 1 x 60° holographic film



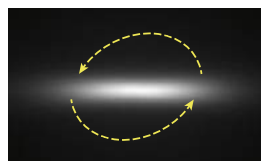
12° + 60 x 60° holographic film



Medium version 8°



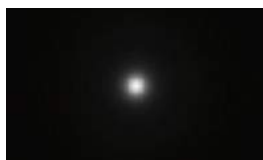
8° + 5 x 30° holographic film



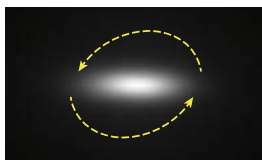
8° + 1 x 60° holographic film



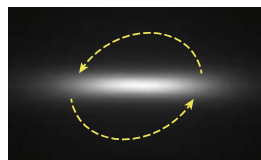
8° + 60 x 60° holographic film



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.co.uk/CON2
www.thornlighting.ie/CON2

ORDERING GUIDE

Standard versions.

Small:

Small versions delivered without gear box. For small monochromatic versions, two gear box type possibilities 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 small RGB DMX versions, you need to order the power supply/DMX gear box SAP code 96261426.

Medium and large:

Medium and large sizes 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:

(Please contact your local sales representative).

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.

High ambient temperature versions.

Small:

See above

Medium and large:

Bodies delivered complete pre-wired with 1.5m cable.

A compact architectural floodlight range combining high output LEDs of predefined beams offering complete flexibility

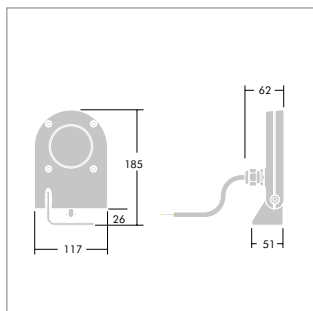
Description	Wt (kg)	SAP Code	Cat. No.
Contrast 2 LED Small, monochromatic			
CONTRAST 2 LED S 4L70 R/S 12° RD NG	0.77	96263250	CT25R12
CONTRAST 2 LED S 4L70 R/S 32° RD NG	0.77	96263251	CT25R32
CONTRAST 2 LED S 4L70 S/S 44X12° RD NG	0.77	96263252	CT25R4412
CONTRAST 2 LED S 4L70 R/S 12° BU NG	0.77	96263256	CT25B12
CONTRAST 2 LED S 4L70 R/S 12° GN NG	0.77	96263253	CT25G12
CONTRAST 2 LED S 4L70 R/S 32° BU NG	0.77	96263257	CT25B32
CONTRAST 2 LED S 4L70 R/S 32° GN NG	0.77	96263254	CT25G32
CONTRAST 2 LED S 4L70 S/S 44X12° BU NG	0.77	96263258	CT25B4412
CONTRAST 2 LED S 4L70 S/S 44X12° GN NG	0.77	96263255	CT25G4412
CONTRAST 2 LED S 4L105 R/S 12° 830 NG	0.77	96261327	CT253K12
CONTRAST 2 LED S 4L105 R/S 12° 840 NG	0.77	96263247	CT254K12
CONTRAST 2 LED S 4L105 R/S 32° 830 NG	0.77	96261329	CT253K32
CONTRAST 2 LED S 4L105 R/S 32° 840 NG	0.77	96263248	CT254K32
CONTRAST 2 LED S 4L105 S/S 44X12° 830 NG	0.77	96261330	CT253K4412
CONTRAST 2 LED S 4L105 S/S 44X12° 840 NG	0.77	96263249	CT254K4412
Contrast 2 LED Small, monochromatic connection box and power supply			
CONTRAST 2 LED S 2X4L105 CBOX GT WHITE	1.50	96261425	CT2521CBX
CONTRAST 2 LED S 2X4L70 CBOX GT MONO	1.50	96261898	CT2527CBX
CONTRAST 2 LED S 4X4L105 CBOX GT WHITE	1.30	96261427	CT2541CBX
CONTRAST 2 LED S 4X4L70 CBOX GT MONO	1.30	96261899	CT2547CBX
Contrast 2 LED Small, RGB bodies			
CONTRAST 2 LED S 4L70 R/S 12° RGB NG	0.77	96261328	CT2512
CONTRAST 2 LED S 4L70 R/S 32° RGB NG	0.77	96263259	CT2532
CONTRAST 2 LED S 4L70 S/S 44X12° RGB NG	0.77	96263260	CT254412
Contrast 2 LED Small, RGB DMX connection box and power supply			
CONTRAST 2 LED S CBOX GT RGB DMX	1.30	96261426	CT25XCXB
Contrast 2 LED Small, accessories			
CONTRAST 2 LED S LR 1X60°	0.12	96261861	CT25160
CONTRAST 2 LED S LR 5X30°	0.12	96261862	CT25560
CONTRAST 2 LED S LR 60X60°	0.12	96261860	CT256060
CONTRAST 2 LED S VISOR	0.06	96261859	CT25V

Description	Wt (kg)	SAP Code	Cat. No.
Contrast 2 LED Medium, monochromatic			
CONTRAST 2 LED M 12L70 A/S RD	3.91	96263232	CT2MR255050
CONTRAST 2 LED M 12L70 R/S 24° RD	3.91	96263229	CT2MR2524
CONTRAST 2 LED M 12L70 R/S 36° RD	3.91	96263230	CT2MR2536
CONTRAST 2 LED M 12L70 R/S 8° RD	3.91	96263228	CT2MR258
CONTRAST 2 LED M 12L70 S/S 8X16° RD	3.91	96263231	CT2MR25816
CONTRAST 2 LED M 12L70 A/S BU	3.91	96263242	CT2MB355050
CONTRAST 2 LED M 12L70 A/S GN	3.91	96263237	CT2MG355050
CONTRAST 2 LED M 12L70 R/S 24° BU	3.91	96263239	CT2MB3524
CONTRAST 2 LED M 12L70 R/S 24° GN	3.91	96263234	CT2MG3524
CONTRAST 2 LED M 12L70 R/S 36° BU	3.91	96263240	CT2MB3536
CONTRAST 2 LED M 12L70 R/S 36° GN	3.91	96263235	CT2MG3536
CONTRAST 2 LED M 12L70 R/S 8° BU	3.91	96263238	CT2MB358
CONTRAST 2 LED M 12L70 R/S 8° GN	3.91	96263233	CT2MG358
CONTRAST 2 LED M 12L70 S/S 8X16° BU	3.91	96263241	CT2MB35816
CONTRAST 2 LED M 12L70 S/S 8X16° GN	3.91	96263236	CT2MG35816
CONTRAST 2 LED M 12L105 A/S 830	3.91	96261336	CT2M3K455050
CONTRAST 2 LED M 12L105 A/S 840	3.91	96263227	CT2M4K455050
CONTRAST 2 LED M 12L105 R/S 24° 830	3.91	96261333	CT2M3K4524
CONTRAST 2 LED M 12L105 R/S 24° 840	3.91	96263224	CT2M4K4524
CONTRAST 2 LED M 12L105 R/S 36° 830	3.91	96261334	CT2M3K4536
CONTRAST 2 LED M 12L105 R/S 36° 840	3.91	96263225	CT2M4K4536
CONTRAST 2 LED M 12L105 R/S 8° 830	3.91	96261331	CT2M3K458
CONTRAST 2 LED M 12L105 R/S 8° 840	3.91	96263223	CT2M4K458
CONTRAST 2 LED M 12L105 S/S 8X16° 830	3.91	96261335	CT2M3K45816
CONTRAST 2 LED M 12L105 S/S 8X16° 840	3.91	96263226	CT2M4K45816
Contrast 2 LED Medium, RGB DMX			
CONTRAST 2 LED M 12L70 R/S 24° RGB DMX	3.91	96263243	CT2M4024
CONTRAST 2 LED M 12L70 R/S 36° RGB DMX	3.91	96263244	CT2M4036
CONTRAST 2 LED M 12L70 R/S 8° RGB DMX	3.91	96261332	CT2M408
CONTRAST 2 LED M 12L70 S/S 8X16° RGB DMX	3.91	96263245	CT2M40816
CONTRAST 2 LED M 12L70 A/S RGB DMX	3.91	96263246	CT2M405050
Contrast 2 LED Medium, accessories			
CONTRAST 2 LED M LR 1X60°	0.26	96261857	CT2M160
CONTRAST 2 LED M LR 5X30°	0.26	96261858	CT2M530
CONTRAST 2 LED M LR 60X60°	0.26	96261856	CT2M6060
CONTRAST 2 LED M LV	0.08	96261855	CT2MLV
CONTRAST 2 LED M VISOR	0.21	96261854	CT2MV
Contrast 2 LED Large, monochromatic			
CONTRAST 2 LED L 36L105 A/S 757	7.55	96263211	CT2L6K1255050
CONTRAST 2 LED L 36L105 A/S 830	7.55	96261342	CT2L3K1255050
CONTRAST 2 LED L 36L105 A/S 840	7.55	96263206	CT2L4K1255050
CONTRAST 2 LED L 36L105 R/S 24° 757	7.55	96263208	CT2L6K12524
CONTRAST 2 LED L 36L105 R/S 24° 830	7.55	96261339	CT2L3K12524
CONTRAST 2 LED L 36L105 R/S 36° 757	7.55	96263209	CT2L6K12536
CONTRAST 2 LED L 36L105 R/S 36° 830	7.55	96261340	CT2L3K12536
CONTRAST 2 LED L 36L105 R/S 36° 840	7.55	96263204	CT2L4K12536
CONTRAST 2 LED L 36L105 R/S 8° 757	7.55	96263207	CT2L6K1258
CONTRAST 2 LED L 36L105 R/S 8° 830	7.55	96261337	CT2L3K1258
CONTRAST 2 LED L 36L105 R/S 8° 840	7.55	96261919	CT2L4K1258
CONTRAST 2 LED L 36L105 S/S 8X16° 757	7.55	96263210	CT2L6K125816
CONTRAST 2 LED L 36L105 S/S 8X16° 830	7.55	96261341	CT2L3K125816
CONTRAST 2 LED L 36L105 S/S 8X16° 840	7.55	96263205	CT2L4K125816
CONTRAST 2 LED L 36L105 R/S 24° 840	7.55	96263203	CT2L4K12524
Contrast 2 LED Large, RGB DMX			
CONTRAST 2 LED L 36L70 A/S RGB DMX	7.55	96263215	CT2L955050
CONTRAST 2 LED L 36L70 R/S 24° RGB DMX	7.55	96263212	CT2L9524
CONTRAST 2 LED L 36L70 R/S 36° RGB DMX	7.55	96263213	CT2L9536
CONTRAST 2 LED L 36L70 R/S 8° RGB DMX	7.55	96261338	CT2L958
CONTRAST 2 LED L 36L70 S/S 8X16° RGB DMX	7.55	96263214	CT2L95816
Contrast 2 LED Large, accessories			
CONTRAST 2 LED L LR 1X60°	0.49	96261852	CT2L160
CONTRAST 2 LED L LR 5X30°	0.49	96261853	CT2L530
CONTRAST 2 LED L LR 60X60°	0.49	96261851	CT2L6060
CONTRAST 2 LED L LV	0.17	96261850	CT2LLV
CONTRAST 2 LED L VISOR	0.43	96261849	CT2LV

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

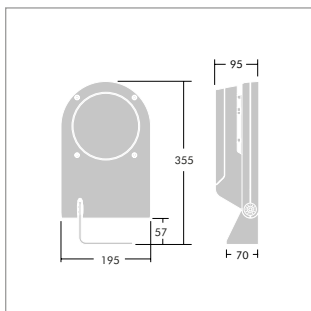
Small versions

Standard and high ambient temperatures



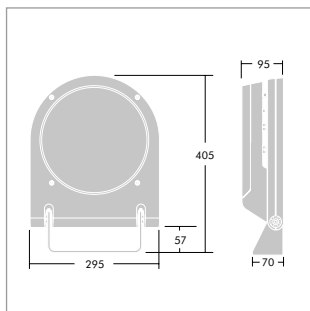
Medium versions

Standard

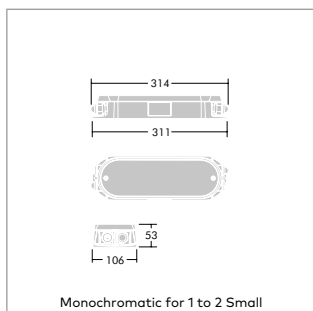


Large versions

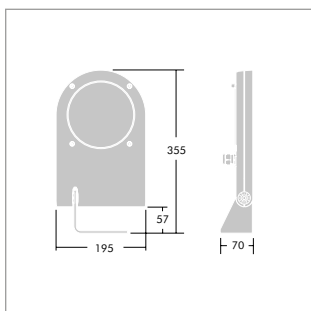
Standard



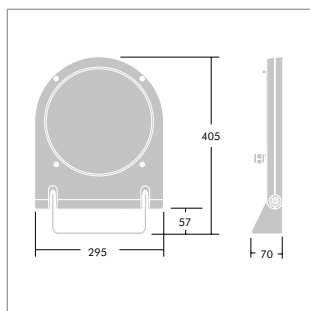
Power supply boxes



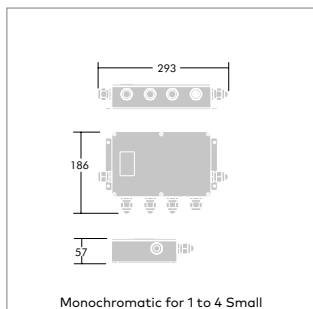
High ambient temperature



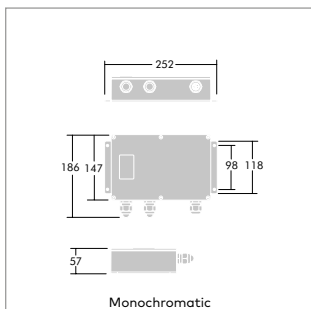
High ambient temperature



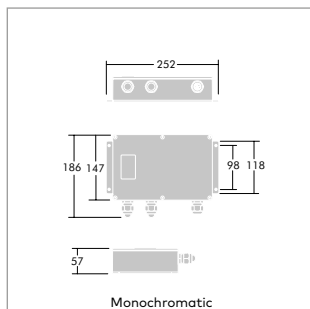
Power supply boxes



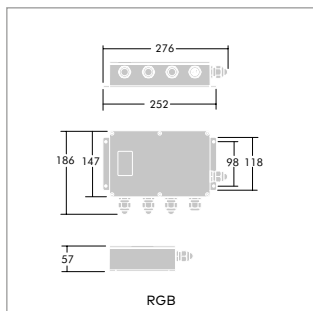
Power supply boxes



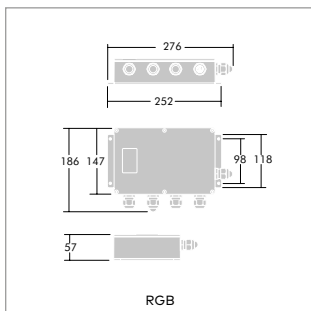
Power supply boxes



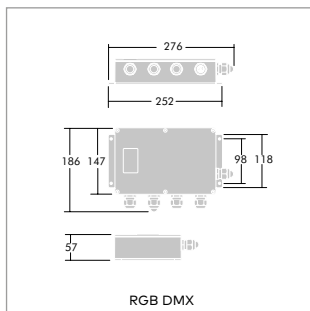
Power supply boxes



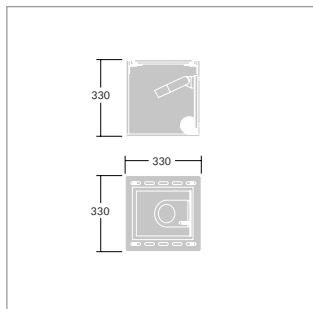
Power supply boxes



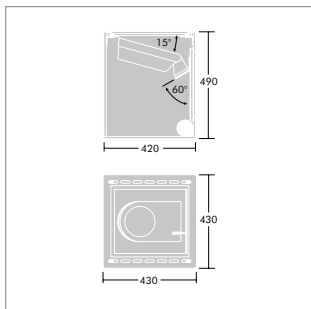
Power supply boxes



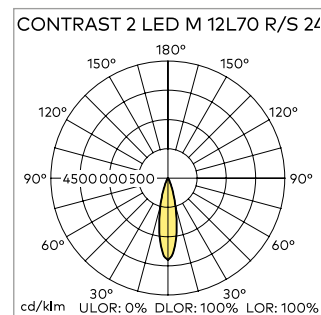
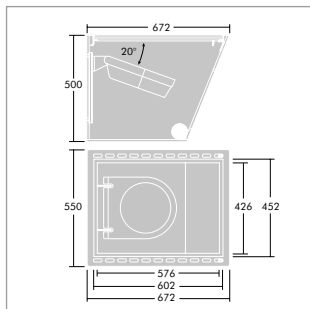
Recessed boxes



Recessed boxes



Recessed boxes





Discreet, durable and efficient
LED floodlight for creating
decorative lighting effects



- No accessories required for the decorative lighting effects
- -90°/+90° 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: clear UV stabilised PC
Optics: PC
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 3540Llm) LED floodlight with intensive distribution for wall or ground mounting.
As Thorn Olsys illumination.

Satin 2



www.thornlighting.co.uk/SAT2
www.thornlighting.ie/SAT2



A discreet linear LED floodlight range offering extensive static/dynamic illumination choice and flexibility



- Compact body with integral power supply for monochromatic and RGBW versions
- Exceptional flexibility with a choice of LED colours, light distributions, lengths and installation possibilities
- Side by side installation for a uniform light beam

MATERIALS/FINISH

Standard versions
 Body: extruded aluminium (EN AW-6060 T6), painted textured silver grey
 Side: grey polycarbonate
 Enclosure: UV stabilised polycarbonate
 Stirrups: powder coated stainless steel and powder coated galvanised steel
 Glue: 1 component silicon adhesive
 Cable: 1m of H05RNF (2x1mm²) for mains connections 1m of DMX512 cable for DMX versions

Connection box monochromatic: extruded aluminium (EN AW-6060 T6), painted textured silver grey
 Gasket: silicon
 Screws: stainless steel
 Cable glands: brass

Connection box RGBW: die-cast aluminium (EN AB-47100), painted textured silver grey
 Gasket: rubber/neoprene
 Screws: stainless steel

Ground recessed box:
 Box: fibre/cement 10mm
 Frame: stainless steel (304L)
 Glass: tempered security glass 10mm

INSTALLATION/MOUNTING

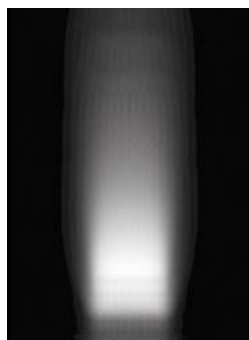
Standard versions
 Suitable for surface and ground recessed box mounting on two fully adjustable stirrups. Fix the stirrups (delivered in a separate bag) to a surface or on a wall with the 8mm diameter surface mounting bracket. The corresponding part of the stirrup is pre-installed on the Satin 2 body. The stirrups can slide along the body for adjustments in front of the first stirrup part. Assemble the 2 stirrups with the 2 screws. Make the angle adjustment and tighten the screws. Connect the products together with connectors.

All standard versions are pre-wired with H05RNF cable 1m long for mains. One cable gland for IN versions and two cable glands for IN/OUT versions. The OUT mains wire has a plastic cap to avoid injuries. This cap needs to be cut before through wiring installation. RGBW versions have DMX512 cable 1m long in addition to the mains cable. Two cable glands for IN versions (one for the DMX IN and one for the mains IN) and four cable glands for IN/OUT versions (two for the DMX IN & OUT and two for the mains IN & OUT).

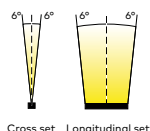
Attachments to mount Satin 2 side by side and ground recessed boxes are available.
 No LED module replacement.
 Ground recessed box
 IK10
 Static load: 500kg
 Adjustments: from 0 to 25°
 Closing: anti-vandal clips

Four light distribution variants available in four lengths

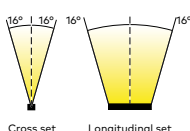
Wall: width 2m, height 3m, position Satin 2: 9cm wall distance (12°, 32° and 12 x 44° versions)
or 25cm distance from the wall (asymmetrical) - angle 0°



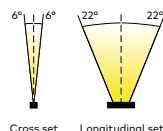
Light distribution
Narrow spot 12°



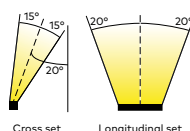
Light distribution
Narrow spot 32°



Light distribution elliptical
T12° x L44°



Asymmetrical beam

**LAMPS**

LED

11-57W

STANDARDS

EN
60598

IP67

IK08

T_a25

850 °C

**SPECIFICATION**

To specify state:

Compact linear floodlight range
for static or dynamic illumination
applications with choice of four
lengths (330/430mm, 630mm,
930mm and 1230mm), four light
distributions (12°, 12x44°, 32° and
asymmetric), six LED colours (Red,
Green, Blue, 3000K, 4000K and
RGBW), two installation types
(surface and ground recessed
box) and through wiring or end of
line versions. 5700K, amber and
dimmable white versions on request.
As Thorn Satin 2.

ORDERING GUIDE

Standard versions

Satin 2 delivered complete with stirrups and integral power supply for the static versions
and with integral power supply DMX card for the dynamic versions. Order IN/OUT versions
for through wiring and 1 IN to finish the product line.

Connectors to be ordered separately. For a working static monochromatic Satin 2
installation, you must order one three pole connector per product (96260810). For a working
dynamic RGBW Satin 2 installation, you must order one three pole connector per product
(962608100 and one five pole connector per product (96241232).

Like all other DMX driven luminaires, Satin 2 can be controlled using Sensa DMX stand alone
controller and software.

Once recorded, lighting scenarios can be run autonomously without the need for a
laptop. With its range of splitters, accessories and cables especially designed for outdoor
applications, Sensa DMX provides a complete and simple solution for the implementation of
DMX networks, from small to large scale installations. The Sensa DMX products are listed
below. For more information and for planning support, please contact your local
Thorn office.

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Surface, through wiring, 330/430mm, 12°			
SATIN2 MWA L330 12L35 12° RD IO	1.40	96264833	SA235WL3312RDIO
SATIN2 MWA L330 12L35 12° 830 IO	1.40	96264836	SA235WL331283IO
SATIN2 MWA L330 12L35 12° 840 IO	1.40	96264837	SA235WL331284IO
SATIN2 MWA L330 12L35 12° BU IO	1.40	96264835	SA235WL3312BUIO
SATIN2 MWA L330 12L35 12° GN IO	1.40	96264834	SA235WL3312GNIO
SATIN2 MWA L430 12L35 12° RGBW IO	2.20	96264838	SA235WL4312RGBWIO
Satin 2 Surface, through wiring, 330/430mm, 32°			
SATIN2 MWA L330 12L35 32° RD IO	1.40	96264857	SA235WL3332RDIO
SATIN2 MWA L330 12L35 32° 830 IO	1.40	96264860	SA235WL333283IO
SATIN2 MWA L330 12L35 32° 840 IO	1.40	96264861	SA235WL333284IO
SATIN2 MWA L330 12L35 32° BU IO	1.40	96264859	SA235WL3332BUIO
SATIN2 MWA L330 12L35 32° GN IO	1.40	96264858	SA235WL3332GNIO
SATIN2 MWA L430 12L35 32° RGBW IO	2.30	96264862	SA235WL4332RGBWIO
Satin 2 Surface, through wiring, 330/430mm, 12x44°			
SATIN2 MWA L330 12L35 12X44° RD IO	1.40	96264881	SA235WL3344RDIO
SATIN2 MWA L330 12L35 12X44° 830 IO	1.40	96264884	SA235WL334483IO
SATIN2 MWA L330 12L35 12X44° 840 IO	1.40	96264885	SA235WL334484IO
SATIN2 MWA L330 12L35 12X44° BU IO	1.40	96264883	SA235WL3344BUIO
SATIN2 MWA L330 12L35 12X44° GN IO	1.40	96264882	SA235WL3344GNIO
SATIN2 MWA L430 12L35 12X44° RGBW IO	2.20	96264886	SA235WL4344RGBWIO

Satin 2



www.thornlighting.co.uk/SAT2
www.thornlighting.ie/SAT2

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Surface, through wiring, 330/430mm, asymmetric			
SATIN2 MWA L330 12L35 A/S RD IO	1.40	96264905	SA235WL33ASRDIO
SATIN2 MWA L330 12L35 A/S 830 IO	1.40	96264908	SA235WL33AS830IO
SATIN2 MWA L330 12L35 A/S 840 IO	1.40	96264909	SA235WL33AS840IO
SATIN2 MWA L330 12L35 A/S BU IO	1.40	96264907	SA235WL33ASBUIO
SATIN2 MWA L330 12L35 A/S GN IO	1.40	96264906	SA235WL33ASGNIO
SATIN2 MWA L430 12L35 A/S RGBW IO	2.30	96264910	SA235WL43ASRGBWIO
Satin 2 Surface, through wiring, 630mm, 12°			
SATIN2 MWA L630 24L35 12° RD IO	2.60	96264839	SA235WL6312RDIO
SATIN2 MWA L630 24L35 12° 830 IO	2.60	96264842	SA235WL6312830IO
SATIN2 MWA L630 24L35 12° 840 IO	2.60	96264843	SA235WL6312840IO
SATIN2 MWA L630 24L35 12° BU IO	2.60	96264841	SA235WL6312BUIO
SATIN2 MWA L630 24L35 12° GN IO	2.60	96264840	SA235WL6312GNIO
SATIN2 MWA L630 24L35 12° RGBW IO	3.00	96264844	SA235WL6312RGBWIO
Satin 2 Surface, through wiring, 630mm, 32°			
SATIN2 MWA L630 24L35 32° RD IO	2.60	96264863	SA235WL6332RDIO
SATIN2 MWA L630 24L35 32° 830 IO	2.60	96264866	SA235WL6332830IO
SATIN2 MWA L630 24L35 32° 840 IO	2.60	96264867	SA235WL6332840IO
SATIN2 MWA L630 24L35 32° BU IO	2.60	96264865	SA235WL6332BUIO
SATIN2 MWA L630 24L35 32° GN IO	2.60	96264864	SA235WL6332GNIO
SATIN2 MWA L630 24L35 32° RGBW IO	3.00	96264868	SA235WL6332RGBWIO
Satin 2 Surface, through wiring, 630mm, 12x44°			
SATIN2 MWA L630 24L35 12X44° RD IO	2.60	96264887	SA235WL6344RDIO
SATIN2 MWA L630 24L35 12X44° 830 IO	2.60	96264890	SA235WL6344830IO
SATIN2 MWA L630 24L35 12X44° 840 IO	2.60	96264891	SA235WL6344840IO
SATIN2 MWA L630 24L35 12X44° BU IO	2.60	96264889	SA235WL6344BUIO
SATIN2 MWA L630 24L35 12X44° GN IO	2.60	96264888	SA235WL6344GNIO
SATIN2 MWA L630 24L35 12X44° RGBW IO	3.00	96264892	SA235WL6344RGBWIO
Satin 2 Surface, through wiring, 630mm, asymmetric			
SATIN2 MWA L630 24L35 A/S RD IO	2.60	96264911	SA235WL63ASRDIO
SATIN2 MWA L630 24L35 A/S 830 IO	2.60	96264914	SA235WL63AS830IO
SATIN2 MWA L630 24L35 A/S 840 IO	2.60	96264915	SA235WL63AS840IO
SATIN2 MWA L630 24L35 A/S BU IO	2.60	96264913	SA235WL63ASBUIO
SATIN2 MWA L630 24L35 A/S GN IO	2.60	96264912	SA235WL63ASGNIO
SATIN2 MWA L630 24L35 A/S RGBW IO	3.00	96264916	SA235WL63ASRGBWIO
Satin 2 Surface, through wiring, 930mm, 12°			
SATIN2 MWA L930 36L35 12° RD IO	3.90	96264845	SA235WL9312RDIO
SATIN2 MWA L930 36L35 12° 830 IO	3.90	96264848	SA235WL9312830IO
SATIN2 MWA L930 36L35 12° 840 IO	3.90	96264849	SA235WL9312840IO
SATIN2 MWA L930 36L35 12° BU IO	3.90	96264847	SA235WL9312BUIO
SATIN2 MWA L930 36L35 12° GN IO	3.90	96264846	SA235WL9312GNIO
SATIN2 MWA L930 36L35 12° RGBW IO	4.30	96264850	SA235WL9312RGBWIO
Satin 2 Surface, through wiring, 930mm, 32°			
SATIN2 MWA L930 36L35 32° RD IO	3.90	96264869	SA235WL9332RDIO
SATIN2 MWA L930 36L35 32° 830 IO	3.90	96264872	SA235WL9332830IO
SATIN2 MWA L930 36L35 32° 840 IO	3.90	96264873	SA235WL9332840IO
SATIN2 MWA L930 36L35 32° BU IO	3.90	96264871	SA235WL9332BUIO
SATIN2 MWA L930 36L35 32° GN IO	3.90	96264870	SA235WL9332GNIO
SATIN2 MWA L930 36L35 32° RGBW IO	4.30	96264874	SA235WL9332RGBWIO
Satin 2 Surface, through wiring, 930mm, 12x44°			
SATIN2 MWA L930 36L35 12X44° RD IO	3.90	96264893	SA235WL9344RDIO
SATIN2 MWA L930 36L35 12X44° 830 IO	3.90	96264896	SA235WL9344830IO
SATIN2 MWA L930 36L35 12X44° 840 IO	3.90	96264897	SA235WL9344840IO
SATIN2 MWA L930 36L35 12X44° BU IO	3.90	96264895	SA235WL9344BUIO
SATIN2 MWA L930 36L35 12X44° GN IO	3.90	96264894	SA235WL9344GNIO
SATIN2 MWA L930 36L35 12X44° RGBW IO	4.30	96264898	SA235WL9344RGBWIO
Satin 2 Surface, through wiring, 930mm, asymmetric			
SATIN2 MWA L930 36L35 A/S RD IO	3.90	96264917	SA235WL93ASRDIO
SATIN2 MWA L930 36L35 A/S 830 IO	3.90	96264920	SA235WL93AS830IO
SATIN2 MWA L930 36L35 A/S 840 IO	3.90	96264921	SA235WL93AS840IO
SATIN2 MWA L930 36L35 A/S BU IO	3.90	96264919	SA235WL93ASBUIO
SATIN2 MWA L930 36L35 A/S GN IO	3.90	96264918	SA235WL93ASGNIO
SATIN2 MWA L930 36L35 A/S RGBW IO	3.90	96264922	SA235WL93ASRGBWIO
Satin 2 Surface, through wiring, 1230mm, 12°			
SATIN2 MWA L1230 48L35 12° RD IO	4.90	96264851	SA235WL12312RDIO
SATIN2 MWA L1230 48L35 12° 830 IO	4.90	96264854	SA235WL12312830IO
SATIN2 MWA L1230 48L35 12° 840 IO	4.90	96264855	SA235WL12312840IO
SATIN2 MWA L1230 48L35 12° BU IO	4.90	96264853	SA235WL12312BUIO
SATIN2 MWA L1230 48L35 12° GN IO	4.90	96264852	SA235WL12312GNIO
SATIN2 MWA L1230 48L35 12° RGBW IO	5.60	96264856	SA235WL12312RGBWIO

A discreet linear LED floodlight range offering extensive static/dynamic illumination choice and flexibility

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Surface, through wiring, 1230mm, 32°			
SATIN2 MWA L1230 48L35 32° RD IO	4.90	96264875	SA235WL12332RDIO
SATIN2 MWA L1230 48L35 32° 830 IO	4.90	96264878	SA235WL12332830IO
SATIN2 MWA L1230 48L35 32° 840 IO	4.90	96264879	SA235WL12332840IO
SATIN2 MWA L1230 48L35 32° BU IO	4.90	96264877	SA235WL12332BUIO
SATIN2 MWA L1230 48L35 32° GN IO	4.90	96264876	SA235WL12332GNIO
SATIN2 MWA L1230 48L35 32° RGBW IO	5.60	96264880	SA235WL12332RGBWIO
Satin 2 Surface, through wiring, 1230mm, 12x44°			
SATIN2 MWA L1230 48L35 12X44° RD IO	4.90	96264899	SA235WL12344RDIO
SATIN2 MWA L1230 48L35 12X44° 830 IO	4.90	96264902	SA235WL12344830IO
SATIN2 MWA L1230 48L35 12X44° 840 IO	4.90	96264903	SA235WL12344840IO
SATIN2 MWA L1230 48L35 12X44° BU IO	4.90	96264901	SA235WL12344BUIO
SATIN2 MWA L1230 48L35 12X44° GN IO	4.90	96264900	SA235WL12344GNIO
SATIN2 MWA L1230 48L35 12X44° RGBW IO	5.60	96264904	SA235WL12344RGBWIO
Satin 2 Surface, through wiring, 1230mm, asymmetric			
SATIN2 MWA L1230 48L35 A/S RD IO	4.90	96264923	SA235WL123ASRDIO
SATIN2 MWA L1230 48L35 A/S 830 IO	4.90	96264926	SA235WL123AS830IO
SATIN2 MWA L1230 48L35 A/S 840 IO	4.90	96264927	SA235WL123AS840IO
SATIN2 MWA L1230 48L35 A/S BU IO	4.90	96264925	SA235WL123ASBUIO
SATIN2 MWA L1230 48L35 A/S GN IO	4.90	96264924	SA235WL123ASGNIO
SATIN2 MWA L1230 48L35 A/S RGBW IO	5.60	96264928	SA235WL123ASRGBWIO
Satin 2 Surface, end of line, 330/430mm, 12°			
SATIN2 MWA L330 12L35 12° RD IN	1.30	96264929	SA235WL3312RDIN
SATIN2 MWA L330 12L35 12° 830 IN	1.30	96264932	SA235WL331283IN
SATIN2 MWA L330 12L35 12° 840 IN	1.30	96264933	SA235WL331284IN
SATIN2 MWA L330 12L35 12° BU IN	1.30	96264931	SA235WL3312BUIIN
SATIN2 MWA L330 12L35 12° GN IN	1.30	96264930	SA235WL3312GNIN
SATIN2 MWA L430 12L35 12° RGBW IN	2.20	96264934	SA235WL4312RGIN
Satin 2 Surface, end of line, 330/430mm, 32°			
SATIN2 MWA L330 12L35 32° RD IN	1.30	96264953	SA235WL3332RDIN
SATIN2 MWA L330 12L35 32° 830 IN	1.30	96264956	SA235WL333283IN
SATIN2 MWA L330 12L35 32° 840 IN	1.30	96264957	SA235WL333284IN
SATIN2 MWA L330 12L35 32° BU IN	1.30	96264955	SA235WL3332BUIIN
SATIN2 MWA L330 12L35 32° GN IN	1.30	96264954	SA235WL3332GNIN
SATIN2 MWA L430 12L35 32° RGBW IN	2.20	96264958	SA235WL4332RGIN
Satin 2 Surface, end of line, 330/430mm, 12x44°			
SATIN2 MWA L330 12L35 12X44° RD IN	1.30	96264977	SA235WL3344RDIN
SATIN2 MWA L330 12L35 12X44° 830 IN	1.30	96264980	SA235WL3344830IN
SATIN2 MWA L330 12L35 12X44° 840 IN	1.30	96264981	SA235WL3344840IN
SATIN2 MWA L330 12L35 12X44° BU IN	1.30	96264979	SA235WL3344BUIIN
SATIN2 MWA L330 12L35 12X44° GN IN	1.30	96264978	SA235WL3344GNIN
SATIN2 MWA L430 12L35 12X44° RGBW IN	2.20	96264982	SA235WL4344RGBWIN
Satin 2 Surface, end of line, 330/430mm, asymmetric			
SATIN2 MWA L330 12L35 A/S RD IN	1.30	96265001	SA235WL33ASRDIN
SATIN2 MWA L330 12L35 A/S 830 IN	1.30	96265004	SA235WL33AS830IN
SATIN2 MWA L330 12L35 A/S 840 IN	1.30	96265005	SA235WL33AS840IN
SATIN2 MWA L330 12L35 A/S BU IN	1.30	96265003	SA235WL33ASBUIIN
SATIN2 MWA L330 12L35 A/S GN IN	1.30	96265002	SA235WL33ASGNIN
SATIN2 MWA L430 12L35 A/S RGBW IN	2.20	96265006	SA235WL43ASRGBWIN
Satin 2 Surface, end of line, 630mm, 12°			
SATIN2 MWA L630 24L35 12° RD IN	2.50	96264935	SA235WL6312RDIN
SATIN2 MWA L630 24L35 12° 830 IN	2.50	96264938	SA235WL6312830IN
SATIN2 MWA L630 24L35 12° 840 IN	2.50	96264939	SA235WL6312840IN
SATIN2 MWA L630 24L35 12° BU IN	2.50	96264937	SA235WL6312BUIIN
SATIN2 MWA L630 24L35 12° GN IN	2.50	96264936	SA235WL6312GNIN
SATIN2 MWA L630 24L35 12° RGBW IN	2.80	96264940	SA235WL6312RGBWIN
Satin 2 Surface, end of line, 630mm, 32°			
SATIN2 MWA L630 24L35 32° RD IN	2.50	96264959	SA235WL6332RDIN
SATIN2 MWA L630 24L35 32° 830 IN	2.50	96264962	SA235WL6332830IN
SATIN2 MWA L630 24L35 32° 840 IN	2.50	96264963	SA235WL6332840IN
SATIN2 MWA L630 24L35 32° BU IN	2.50	96264961	SA235WL6332BUIIN
SATIN2 MWA L630 24L35 32° GN IN	2.50	96264960	SA235WL6332GNIN
SATIN2 MWA L630 24L35 32° RGBW IN	2.80	96264964	SA235WL6332RGBWIN
Satin 2 Surface, end of line, 630mm, 12x44°			
SATIN2 MWA L630 24L35 12X44° RD IN	2.50	96264983	SA235WL6344RDIN
SATIN2 MWA L630 24L35 12X44° 830 IN	2.50	96264986	SA235WL6344830IN
SATIN2 MWA L630 24L35 12X44° 840 IN	2.50	96264987	SA235WL6344840IN
SATIN2 MWA L630 24L35 12X44° BU IN	2.50	96264985	SA235WL6344BUIIN
SATIN2 MWA L630 24L35 12X44° GN IN	2.50	96264984	SA235WL6344GNIN
SATIN2 MWA L630 24L35 12X44° RGBW IN	2.80	96264988	SA235WL6344RGBWIN

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Surface, end of line, 630mm, asymmetric			
SATIN2 MWA L630 24L35 A/S RD IN	2.50	96265007	SA235WL63ASRDIN
SATIN2 MWA L630 24L35 A/S 830 IN	2.50	96265010	SA235WL63AS830IN
SATIN2 MWA L630 24L35 A/S 840 IN	2.50	96265011	SA235WL63AS840IN
SATIN2 MWA L630 24L35 A/S BU IN	2.50	96265009	SA235WL63ASBUIN
SATIN2 MWA L630 24L35 A/S GN IN	2.50	96265008	SA235WL63ASGNIN
SATIN2 MWA L630 24L35 A/S RGBW IN	2.80	96265012	SA235WL63ASRGBWIN
Satin 2 Surface, end of line, 930mm, 12°			
SATIN2 MWA L930 36L35 12° RD IN	3.80	96264941	SA235WL9312RDIN
SATIN2 MWA L930 36L35 12° 830 IN	3.80	96264944	SA235WL9312830IN
SATIN2 MWA L930 36L35 12° 840 IN	3.80	96264945	SA235WL9312840IN
SATIN2 MWA L930 36L35 12° BU IN	3.80	96264943	SA235WL9312BUIN
SATIN2 MWA L930 36L35 12° GN IN	3.80	96264942	SA235WL9312GNIN
SATIN2 MWA L930 36L35 12° RGBW IN	4.10	96264946	SA235WL9312RGBWIN
Satin 2 Surface, end of line, 930mm, 32°			
SATIN2 MWA L930 36L35 32° RD IN	3.80	96264965	SA235WL9332RDIN
SATIN2 MWA L930 36L35 32° 830 IN	3.80	96264968	SA235WL9332830IN
SATIN2 MWA L930 36L35 32° 840 IN	3.80	96264969	SA235WL9332840IN
SATIN2 MWA L930 36L35 32° BU IN	3.80	96264967	SA235WL9332BUIN
SATIN2 MWA L930 36L35 32° GN IN	3.80	96264966	SA235WL9332GNIN
SATIN2 MWA L930 36L35 32° RGBW IN	4.10	96264970	SA235WL9332RGBWIN
Satin 2 Surface, end of line, 930mm, 12x44°			
SATIN2 MWA L930 36L35 12X44° RD IN	3.80	96264989	SA235WL9344RDIN
SATIN2 MWA L930 36L35 12X44° 830 IN	3.80	96264992	SA235WL9344830IN
SATIN2 MWA L930 36L35 12X44° 840 IN	3.80	96264993	SA235WL9344840IN
SATIN2 MWA L930 36L35 12X44° BU IN	3.80	96264991	SA235WL9344BUIN
SATIN2 MWA L930 36L35 12X44° GN IN	3.80	96264990	SA235WL9344GNIN
SATIN2 MWA L930 36L35 12X44° RGBW IN	4.10	96264994	SA235WL9344RGBWIN
Satin 2 Surface, end of line, 930mm, asymmetric			
SATIN2 MWA L930 36L35 A/S RD IN	3.80	96265013	SA235WL93ASRDIN
SATIN2 MWA L930 36L35 A/S 830 IN	3.80	96265016	SA235WL93AS830IN
SATIN2 MWA L930 36L35 A/S 840 IN	3.80	96265017	SA235WL93AS840IN
SATIN2 MWA L930 36L35 A/S BU IN	3.80	96265015	SA235WL93ASBUIN
SATIN2 MWA L930 36L35 A/S GN IN	3.80	96265014	SA235WL93ASGNIN
SATIN2 MWA L930 36L35 A/S RGBW IN	3.80	96265018	SA235WL93ASRGBWIN
Satin 2 Surface, end of line, 1230mm, 12°			
SATIN2 MWA L1230 48L35 12° RD IN	4.80	96264947	SA235WL12312RDIN
SATIN2 MWA L1230 48L35 12° 830 IN	4.80	96264950	SA235WL12312830IN
SATIN2 MWA L1230 48L35 12° 840 IN	4.80	96264951	SA235WL12312840IN
SATIN2 MWA L1230 48L35 12° BU IN	4.80	96264949	SA235WL12312BUIN
SATIN2 MWA L1230 48L35 12° GN IN	4.80	96264948	SA235WL12312GNIN
SATIN2 MWA L1230 48L35 12° RGBW IN	5.20	96264952	SA235WL12312RGBWIN
Satin 2 Surface, end of line, 1230mm, 32°			
SATIN2 MWA L1230 48L35 32° RD IN	4.80	96264971	SA235WL12332RDIN
SATIN2 MWA L1230 48L35 32° 830 IN	4.80	96264974	SA235WL12332830IN
SATIN2 MWA L1230 48L35 32° 840 IN	4.80	96264975	SA235WL12332840IN
SATIN2 MWA L1230 48L35 32° BU IN	4.80	96264973	SA235WL12332BUIN
SATIN2 MWA L1230 48L35 32° GN IN	4.80	96264972	SA235WL12332GNIN
SATIN2 MWA L1230 48L35 32° RGBW IN	5.20	96264976	SA235WL12332RGBWIN
Satin 2 Surface, end of line, 1230mm, 12x44°			
SATIN2 MWA L1230 48L35 12X44° RD IN	4.80	96264995	SA235WL12344RDIN
SATIN2 MWA L1230 48L35 12X44° 830 IN	4.80	96264998	SA235WL12344830IN
SATIN2 MWA L1230 48L35 12X44° 840 IN	4.80	96264999	SA235WL12344840IN
SATIN2 MWA L1230 48L35 12X44° BU IN	4.80	96264997	SA235WL12344BUIN
SATIN2 MWA L1230 48L35 12X44° GN IN	4.80	96264996	SA235WL12344GNIN
SATIN2 MWA L1230 48L35 12X44° RGBW IN	5.20	96265000	SA235WL12344RGBWIN
Satin 2 L1230 A/S IN			
SATIN2 MWA L1230 48L35 A/S RD IN	4.80	96265019	SA235WL123ASRDIN
SATIN2 MWA L1230 48L35 A/S 830 IN	4.80	96265022	SA235WL123AS830IN
SATIN2 MWA L1230 48L35 A/S 840 IN	4.80	96265023	SA235WL123AS840IN
SATIN2 MWA L1230 48L35 A/S BU IN	4.80	96265021	SA235WL123ASBUIN
SATIN2 MWA L1230 48L35 A/S GN IN	4.80	96265020	SA235WL123ASGNIN
SATIN2 MWA L1230 48L35 A/S RGBW IN	5.20	96265024	SA235WL123ASRGBWIN
Satin 2 Surface, high ambient temperature, 330mm, 12°			
SATIN2 MWA L360 12L35 12° 830 KIT	1.40	96268054	
SATIN2 MWA L360 12L35 12° 840 KIT	1.40	96268055	
SATIN2 MWA L330 12L35 12° RGBW KIT	2.20	96268056	

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Surface, high ambient temperature, 330mm, 32°			
SATIN2 MWA L360 12L35 32° 830 KIT	1.40	96268066	
SATIN2 MWA L360 12L35 32° 840 KIT	1.40	96268067	
SATIN2 MWA L330 12L35 32° RGBW KIT	2.20	96268068	
Satin 2 Surface, high ambient temperature, 330mm, 12x44°			
SATIN2 MWA L360 12L35 12X44° 830 KIT	1.40	96268078	
SATIN2 MWA L360 12L35 12X44° 840 KIT	1.40	96268079	
SATIN2 MWA L330 12L35 12X44° RGBW KIT	2.20	96268080	
Satin 2 Surface, high ambient temperature, 330mm, asymmetric			
SATIN2 MWA L360 12L35 A/S 830 KIT	1.40	96268090	
SATIN2 MWA L360 12L35 A/S 840 KIT	1.40	96268091	
SATIN2 MWA L330 12L35 A/S RGBW KIT	2.20	96268092	
Satin 2 Surface, high ambient temperature, 630mm, 12°			
SATIN2 MWA L630 24L35 12° 830 KIT	2.60	96268057	
SATIN2 MWA L630 24L35 12° 840 KIT	2.60	96268058	
SATIN2 MWA L630 24L35 12° RGBW KIT	3.00	96268059	
Satin 2 Surface, high ambient temperature, 630mm, 32°			
SATIN2 MWA L630 24L35 32° 830 KIT	2.60	96268069	
SATIN2 MWA L630 24L35 32° 840 KIT	2.60	96268070	
SATIN2 MWA L630 24L35 32° RGBW KIT	3.00	96268071	
Satin 2 Surface, high ambient temperature, 630mm, 12x44°			
SATIN2 MWA L630 24L35 12X44° 830 KIT	2.60	96268081	
SATIN2 MWA L630 24L35 12X44° 840 KIT	2.60	96268082	
SATIN2 MWA L630 24L35 12X44° RGBW KIT	3.00	96268083	
Satin 2 Surface, high ambient temperature, 630mm, asymmetric			
SATIN2 MWA L630 24L35 A/S 830 KIT	2.60	96268093	
SATIN2 MWA L630 24L35 A/S 840 KIT	2.60	96268094	
SATIN2 MWA L630 24L35 A/S RGBW KIT	3.00	96268095	
Satin 2 Surface, high ambient temperature, 930mm, 12°			
SATIN2 MWA L930 36L35 12° 830 KIT	3.90	96268060	
SATIN2 MWA L930 36L35 12° 840 KIT	3.90	96268061	
SATIN2 MWA L930 36L35 12° RGBW KIT	4.30	96268062	
Satin 2 Surface, high ambient temperature, 930mm, 32°			
SATIN2 MWA L930 36L35 32° 830 KIT	3.90	96268072	
SATIN2 MWA L930 36L35 32° 840 KIT	3.90	96268073	
SATIN2 MWA L930 36L35 32° RGBW KIT	4.30	96268074	
Satin 2 Surface, high ambient temperature, 930mm, 12x44°			
SATIN2 MWA L930 36L35 12X44° 830 KIT	3.90	96268084	
SATIN2 MWA L930 36L35 12X44° 840 KIT	3.90	96268085	
SATIN2 MWA L930 36L35 12X44° RGBW KIT	4.30	96268086	
Satin 2 Surface, high ambient temperature, 930mm, asymmetric			
SATIN2 MWA L930 36L35 A/S 830 KIT	3.90	96268096	
SATIN2 MWA L930 36L35 A/S 840 KIT	3.90	96268097	
SATIN2 MWA L930 36L35 A/S RGBW KIT	4.30	96268098	
Satin 2 Surface, high ambient temperature, 1230mm, 12°			
SATIN2 MWA L1230 48L35 12° 830 KIT	4.90	96268063	
SATIN2 MWA L1230 48L35 12° 840 KIT	4.90	96268064	
SATIN2 MWA L1230 48L35 12° RGBW KIT	5.60	96268065	
Satin 2 Surface, high ambient temperature, 1230mm, 32°			
SATIN2 MWA L1230 48L35 32° 830 KIT	4.90	96268075	
SATIN2 MWA L1230 48L35 32° 840 KIT	4.90	96268076	
SATIN2 MWA L1230 48L35 32° RGBW KIT	5.60	96268077	
Satin 2 Surface, high ambient temperature, 1230mm, 12x44°			
SATIN2 MWA L1230 48L35 12X44° 830 KIT	4.90	96268087	
SATIN2 MWA L1230 48L35 12X44° 840 KIT	4.90	96268088	
SATIN2 MWA L1230 48L35 12X44° RGBW KIT	5.60	96268089	
Satin 2 Surface, high ambient temperature, 1230mm, asymmetric			
SATIN2 MWA L1230 48L35 A/S 830 KIT	4.90	96268099	
SATIN2 MWA L1230 48L35 A/S 840 KIT	4.90	96268100	
SATIN2 MWA L1230 48L35 A/S RGBW KIT	5.60	96268101	
Satin 2 Recessed, through wiring, 350mm, 12°			
SATIN2 MRE L350 12L35 12° RD IO	1.86	96267186	
SATIN2 MRE L350 12L35 12° 830 IO	1.86	96267189	
SATIN2 MRE L350 12L35 12° 840 IO	1.86	96267190	
SATIN2 MRE L350 12L35 12° BU IO	1.86	96267188	
SATIN2 MRE L350 12L35 12° GN IO	1.86	96267187	
SATIN2 MRE L350 12L35 12° RGBW KIT	2.96	96267287	

Satin 2



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Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Recessed, through wiring, 350mm, 32°			
SATIN2 MRE L350 12L35 32° 830 IO	1.86	96267213	
SATIN2 MRE L350 12L35 32° 840 IO	1.86	96267214	
SATIN2 MRE L350 12L35 32° BU IO	1.86	96267212	
SATIN2 MRE L350 12L35 32° GN IO	1.86	96267211	
SATIN2 MRE L350 12L35 32° RD IO	1.86	96267210	
SATIN2 MRE L350 12L35 32° RGBW KIT	2.96	96267311	
Satin 2 Recessed, through wiring, 350mm, 12x44°			
SATIN2 MRE L350 12L35 12X44° RD IO	1.86	96267234	
SATIN2 MRE L350 12L35 12X44° 830 IO	1.86	96267237	
SATIN2 MRE L350 12L35 12X44° 840 IO	1.86	96267238	
SATIN2 MRE L350 12L35 12X44° BU IO	1.86	96267236	
SATIN2 MRE L350 12L35 12X44° GN IO	1.86	96267235	
SATIN2 MRE L350 12L35 12X44° RGBW KIT	2.96	96267335	
Satin 2 Recessed, through wiring, 350mm, asymmetric			
SATIN2 MRE L350 12L35 A/S RD IO	1.86	96267258	
SATIN2 MRE L350 12L35 A/S 830 IO	1.86	96267261	
SATIN2 MRE L350 12L35 A/S 840 IO	1.86	96267262	
SATIN2 MRE L350 12L35 A/S BU IO	1.86	96267260	
SATIN2 MRE L350 12L35 A/S GN IO	1.86	96267259	
SATIN2 MRE L350 12L35 A/S RGBW KIT	2.96	96267359	
Satin 2 Recessed, through wiring, 650mm, 12°			
SATIN2 MRE L650 24L33 12° RD IO	3.16	96267192	
SATIN2 MRE L650 24L33 12° 830 IO	3.16	96267195	
SATIN2 MRE L650 24L33 12° 840 IO	3.16	96267196	
SATIN2 MRE L650 24L33 12° BU IO	3.16	96267194	
SATIN2 MRE L650 24L33 12° GN IO	3.16	96267193	
SATIN2 MRE L650 24L35 12° RGBW KIT	3.84	96267293	
Satin 2 Recessed, through wiring, 650mm, 32°			
SATIN2 MRE L650 24L33 32° RD IO	3.16	96267216	
SATIN2 MRE L650 24L33 32° 830 IO	3.16	96267219	
SATIN2 MRE L650 24L33 32° 840 IO	3.50	96267220	
SATIN2 MRE L650 24L33 32° BU IO	3.16	96267218	
SATIN2 MRE L650 24L33 32° GN IO	3.16	96267217	
SATIN2 MRE L650 24L35 32° RGBW KIT	3.84	96267317	
Satin 2 Recessed, through wiring, 650mm, 12x44°			
SATIN2 MRE L650 24L33 12X44° RD IO	3.16	96267240	
SATIN2 MRE L650 24L33 12X44° 830 IO	3.16	96267243	
SATIN2 MRE L650 24L33 12X44° 840 IO	3.16	96267244	
SATIN2 MRE L650 24L33 12X44° BU IO	3.16	96267242	
SATIN2 MRE L650 24L33 12X44° GN IO	3.16	96267241	
SATIN2 MRE L650 24L35 12X44° RGBW KIT	3.84	96267341	
Satin 2 Recessed, through wiring, 650mm, asymmetric			
SATIN2 MRE L650 24L33 A/S RD IO	3.16	96267264	
SATIN2 MRE L650 24L33 A/S 830 IO	3.16	96267267	
SATIN2 MRE L650 24L33 A/S 840 IO	3.16	96267268	
SATIN2 MRE L650 24L33 A/S BU IO	3.16	96267266	
SATIN2 MRE L650 24L33 A/S GN IO	3.16	96267265	
SATIN2 MRE L650 24L35 A/S RGBW KIT	3.84	96267365	
Satin 2 Recessed, through wiring, 950mm, 12°			
SATIN2 MRE L950 36L33 12° RD IO	4.80	96267198	
SATIN2 MRE L950 36L33 12° 830 IO	4.80	96267201	
SATIN2 MRE L950 36L33 12° 840 IO	4.80	96267202	
SATIN2 MRE L950 36L33 12° BU IO	4.80	96267200	
SATIN2 MRE L950 36L33 12° GN IO	4.80	96267199	
SATIN2 MRE L950 36L35 12° RGBW KIT	5.90	96267299	
Satin 2 Recessed, through wiring, 950mm, 32°			
SATIN2 MRE L950 36L33 32° RD IO	4.80	96267222	
SATIN2 MRE L950 36L33 32° 830 IO	4.80	96267225	
SATIN2 MRE L950 36L33 32° 840 IO	4.80	96267226	
SATIN2 MRE L950 36L33 32° BU IO	4.80	96267224	
SATIN2 MRE L950 36L33 32° GN IO	4.80	96267223	
SATIN2 MRE L950 36L35 32° RGBW KIT	5.90	96267323	
Satin 2 Recessed, through wiring, 950mm, 12x44°			
SATIN2 MRE L950 36L33 12X44° RD IO	4.80	96267246	
SATIN2 MRE L950 36L33 12X44° 830 IO	4.80	96267249	
SATIN2 MRE L950 36L33 12X44° 840 IO	4.80	96267250	
SATIN2 MRE L950 36L33 12X44° BU IO	4.80	96267248	
SATIN2 MRE L950 36L33 12X44° GN IO	4.80	96267247	
SATIN2 MRE L950 36L35 12X44° RGBW KIT	5.90	96267347	

A discreet linear LED floodlight range offering extensive static/dynamic illumination choice and flexibility

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Recessed, through wiring, 950mm, asymmetric			
SATIN2 MRE L950 36L33 A/S RD IO	4.80	96267270	
SATIN2 MRE L950 36L33 A/S 830 IO	4.80	96267273	
SATIN2 MRE L950 36L33 A/S 840 IO	4.80	96267274	
SATIN2 MRE L950 36L33 A/S BU IO	4.80	96267272	
SATIN2 MRE L950 36L33 A/S GN IO	4.80	96267271	
SATIN2 MRE L950 36L35 A/S RGBW KIT	5.90	96267371	
Satin 2 Recessed, through wiring, 1250mm, 12°			
SATIN2 MRE L1250 48L33 12° RD IO	6.00	96267204	
SATIN2 MRE L1250 48L33 12° 830 IO	6.00	96267207	
SATIN2 MRE L1250 48L33 12° 840 IO	6.00	96267208	
SATIN2 MRE L1250 48L33 12° BU IO	6.00	96267206	
SATIN2 MRE L1250 48L33 12° GN IO	6.00	96267205	
SATIN2 MRE L1250 48L35 12° RGBW KIT	7.10	96267305	
Satin 2 Recessed, through wiring, 1250mm, 32°			
SATIN2 MRE L1250 48L33 32° RD IO	6.00	96267228	
SATIN2 MRE L1250 48L33 32° 830 IO	6.00	96267231	
SATIN2 MRE L1250 48L33 32° 840 IO	6.00	96267232	
SATIN2 MRE L1250 48L33 32° BU IO	6.00	96267230	
SATIN2 MRE L1250 48L33 32° GN IO	6.00	96267229	
SATIN2 MRE L1250 48L35 32° RGBW KIT	7.10	96267329	
Satin 2 Recessed, through wiring, 1250mm, 12x44°			
SATIN2 MRE L1250 48L33 12X44° RD IO	6.00	96267252	
SATIN2 MRE L1250 48L33 12X44° 830 IO	6.00	96267255	
SATIN2 MRE L1250 48L33 12X44° 840 IO	6.00	96267256	
SATIN2 MRE L1250 48L33 12X44° BU IO	6.00	96267254	
SATIN2 MRE L1250 48L33 12X44° GN IO	6.00	96267253	
SATIN2 MRE L1250 48L35 12X44° RGBW KIT	7.10	96267353	
Satin 2 Recessed, through wiring, 1250mm, asymmetric			
SATIN2 MRE L1250 48L33 A/S RD IO	6.00	96267276	
SATIN2 MRE L1250 48L33 A/S 830 IO	6.00	96267279	
SATIN2 MRE L1250 48L33 A/S 840 IO	6.00	96267280	
SATIN2 MRE L1250 48L33 A/S BU IO	6.00	96267278	
SATIN2 MRE L1250 48L33 A/S GN IO	6.00	96267277	
SATIN2 MRE L1250 48L35 A/S RGBW KIT	7.10	96267377	
Satin 2 Recessed, end of line, 350mm, 12°			
SATIN2 MRE L350 12L35 12° RD IN	1.86	96267282	
SATIN2 MRE L350 12L35 12° 830 IN	1.86	96267285	
SATIN2 MRE L350 12L35 12° 840 IN	1.86	96267286	
SATIN2 MRE L350 12L35 12° BU IN	1.86	96267284	
SATIN2 MRE L350 12L35 12° GN IN	1.86	96267283	
Satin 2 Recessed, end of line, 350mm, 32°			
SATIN2 MRE L350 12L35 32° 830 IN	1.86	96267309	
SATIN2 MRE L350 12L35 32° 840 IN	1.86	96267310	
SATIN2 MRE L350 12L35 32° BU IN	1.86	96267308	
SATIN2 MRE L350 12L35 32° GN IN	1.86	96267307	
SATIN2 MRE L350 12L35 32° RD IN	1.86	96267306	
Satin 2 Recessed, end of line, 350mm, 12x44°			
SATIN2 MRE L350 12L35 12X44° RD IN	1.86	96267330	
SATIN2 MRE L350 12L35 12X44° 830 IN	1.86	96267333	
SATIN2 MRE L350 12L35 12X44° 840 IN	1.86	96267334	
SATIN2 MRE L350 12L35 12X44° BU IN	1.86	96267332	
SATIN2 MRE L350 12L35 12X44° GN IN	1.86	96267331	
Satin 2 Recessed, end of line, 350mm, asymmetric			
SATIN2 MRE L350 12L35 A/S RD IN	1.86	96267354	
SATIN2 MRE L350 12L35 A/S 830 IN	1.86	96267357	
SATIN2 MRE L350 12L35 A/S 840 IN	1.86	96267358	
SATIN2 MRE L350 12L35 A/S BU IN	1.86	96267356	
SATIN2 MRE L350 12L35 A/S GN IN	1.86	96267355	
Satin 2 Recessed, end of line, 650mm, 12°			
SATIN2 MRE L650 24L33 12° RD IN	3.16	96267288	
SATIN2 MRE L650 24L33 12° 830 IN	3.16	96267291	
SATIN2 MRE L650 24L33 12° 840 IN	3.16	96267292	
SATIN2 MRE L650 24L33 12° BU IN	3.16	96267290	
SATIN2 MRE L650 24L33 12° GN IN	3.16	96267289	
Satin 2 Recessed, end of line, 650mm, 32°			
SATIN2 MRE L650 24L33 32° RD IN	3.16	96267312	
SATIN2 MRE L650 24L33 32° 830 IN	3.16	96267315	
SATIN2 MRE L650 24L33 32° 840 IN	3.16	96267316	
SATIN2 MRE L650 24L33 32° BU IN	3.16	96267314	
SATIN2 MRE L650 24L33 32° GN IN	3.16	96267313	

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Recessed, end of line, 650mm, 12x44°			
SATIN2 MRE L650 24L33 12X44° RD IN	3.16	96267336	
SATIN2 MRE L650 24L33 12X44° 830 IN	3.16	96267339	
SATIN2 MRE L650 24L33 12X44° 840 IN	3.16	96267340	
SATIN2 MRE L650 24L33 12X44° BU IN	3.16	96267338	
SATIN2 MRE L650 24L33 12X44° GN IN	3.16	96267337	
Satin 2 Recessed, end of line, 650mm, asymmetric			
SATIN2 MRE L650 24L33 A/S RD IN	3.16	96267360	
SATIN2 MRE L650 24L33 A/S 830 IN	3.16	96267363	
SATIN2 MRE L650 24L33 A/S 840 IN	3.16	96267364	
SATIN2 MRE L650 24L33 A/S BU IN	3.16	96267362	
SATIN2 MRE L650 24L33 A/S GN IN	3.16	96267361	
Satin 2 Recessed, end of line, 950mm, 12°			
SATIN2 MRE L950 36L33 12° RD IN	4.80	96267294	
SATIN2 MRE L950 36L33 12° 830 IN	4.80	96267297	
SATIN2 MRE L950 36L33 12° 840 IN	4.80	96267298	
SATIN2 MRE L950 36L33 12° BU IN	4.80	96267296	
SATIN2 MRE L950 36L33 12° GN IN	4.80	96267295	
Satin 2 Recessed, end of line, 950mm, 32°			
SATIN2 MRE L950 36L33 32° RD IN	4.80	96267318	
SATIN2 MRE L950 36L33 32° 830 IN	4.80	96267321	
SATIN2 MRE L950 36L33 32° 840 IN	4.80	96267322	
SATIN2 MRE L950 36L33 32° BU IN	4.80	96267320	
SATIN2 MRE L950 36L33 32° GN IN	4.80	96267319	
Satin 2 Recessed, end of line, 950mm, 12x44°			
SATIN2 MRE L950 36L33 12X44° RD IN	4.80	96267342	
SATIN2 MRE L950 36L33 12X44° 830 IN	4.80	96267345	
SATIN2 MRE L950 36L33 12X44° 840 IN	4.80	96267346	
SATIN2 MRE L950 36L33 12X44° BU IN	4.80	96267344	
SATIN2 MRE L950 36L33 12X44° GN IN	4.80	96267343	
Satin 2 Recessed, end of line, 950mm, asymmetric			
SATIN2 MRE L950 36L33 A/S RD IN	4.80	96267366	
SATIN2 MRE L950 36L33 A/S 830 IN	4.80	96267369	
SATIN2 MRE L950 36L33 A/S 840 IN	4.80	96267370	
SATIN2 MRE L950 36L33 A/S BU IN	4.80	96267368	
SATIN2 MRE L950 36L33 A/S GN IN	4.80	96267367	
Satin 2 Recessed, end of line, 1250mm, 12°			
SATIN2 MRE L1250 48L33 12° RD IN	6.00	96267300	
SATIN2 MRE L1250 48L33 12° 830 IN	6.00	96267303	
SATIN2 MRE L1250 48L33 12° 840 IN	6.00	96267304	
SATIN2 MRE L1250 48L33 12° BU IN	6.00	96267302	
SATIN2 MRE L1250 48L33 12° GN IN	6.00	96267301	
Satin 2 Recessed, end of line, 1250mm, 32°			
SATIN2 MRE L1250 48L33 32° RD IN	6.00	96267324	
SATIN2 MRE L1250 48L33 32° 830 IN	6.00	96267327	
SATIN2 MRE L1250 48L33 32° 840 IN	6.00	96267328	
SATIN2 MRE L1250 48L33 32° BU IN	6.00	96267326	
SATIN2 MRE L1250 48L33 32° GN IN	6.00	96267325	
Satin 2 Recessed, end of line, 1250mm, 12x44°			
SATIN2 MRE L1250 48L33 12X44° RD IN	6.00	96267348	
SATIN2 MRE L1250 48L33 12X44° 830 IN	6.00	96267351	
SATIN2 MRE L1250 48L33 12X44° 840 IN	6.00	96267352	
SATIN2 MRE L1250 48L33 12X44° BU IN	6.00	96267350	
SATIN2 MRE L1250 48L33 12X44° GN IN	6.00	96267349	
Satin 2 Recessed, end of line, 1250mm, asymmetric			
SATIN2 MRE L1250 48L33 A/S RD IN	6.00	96267372	
SATIN2 MRE L1250 48L33 A/S 830 IN	6.00	96267375	
SATIN2 MRE L1250 48L33 A/S 840 IN	6.00	96267376	
SATIN2 MRE L1250 48L33 A/S BU IN	6.00	96267374	
SATIN2 MRE L1250 48L33 A/S GN IN	6.00	96267373	
Satin 2 Recessed, high ambient temperature, 350mm, 12°			
SATIN2 MRE L350 12L35 12° 830 KIT	2.86	96268102	
SATIN2 MRE L350 12L35 12° 840 KIT	2.86	96268103	
SATIN2 MRE L350 12L35 12° RGBW KIT	2.96	96267287	
Satin 2 Recessed, high ambient temperature, 350mm, 32°			
SATIN2 MRE L350 12L35 32° 830 KIT	2.86	96268110	
SATIN2 MRE L350 12L35 32° 840 KIT	2.86	96268111	
SATIN2 MRE L350 12L35 32° RGBW KIT	2.96	96267311	

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Recessed, high ambient temperature, 350mm, 12x44°			
SATIN2 MRE L350 12L35 12X44° 830 KIT	2.86	96268118	
SATIN2 MRE L350 12L35 12X44° 840 KIT	2.86	96268119	
SATIN2 MRE L350 12L35 12X44° RGBW KIT	2.96	96267335	
Satin 2 Recessed, high ambient temperature, 350mm, asymmetric			
SATIN2 MRE L350 12L35 A/S 830 KIT	2.86	96268126	
SATIN2 MRE L350 12L35 A/S 840 KIT	2.86	96268127	
SATIN2 MRE L350 12L35 A/S RGBW KIT	2.96	96267359	
Satin 2 Recessed, high ambient temperature, 650mm, 12°			
SATIN2 MRE L650 24L35 12° 830 KIT	4.44	96268104	
SATIN2 MRE L650 24L35 12° 840 KIT	4.44	96268105	
SATIN2 MRE L650 24L35 12° RGBW KIT	3.84	96267293	
Satin 2 Recessed, high ambient temperature, 650mm, 32°			
SATIN2 MRE L650 24L35 32° 830 KIT	4.56	96268112	
SATIN2 MRE L650 24L35 32° 840 KIT	4.56	96268113	
SATIN2 MRE L650 24L35 32° RGBW KIT	3.84	96267317	
Satin 2 Recessed, high ambient temperature, 650mm, 12x44°			
SATIN2 MRE L650 24L35 12X44° 830 KIT	4.44	96268120	
SATIN2 MRE L650 24L35 12X44° 840 KIT	4.44	96268121	
SATIN2 MRE L650 24L35 12X44° RGBW KIT	3.84	96267341	
Satin 2 Recessed, high ambient temperature, 650mm, asymmetric			
SATIN2 MRE L650 24L35 A/S 830 KIT	4.44	96268128	
SATIN2 MRE L650 24L35 A/S 840 KIT	4.44	96268129	
SATIN2 MRE L650 24L35 A/S RGBW KIT	3.84	96267365	
Satin 2 Recessed, high ambient temperature, 950mm, 12°			
SATIN2 MRE L950 36L35 12° 830 KIT	6.14	96268106	
SATIN2 MRE L950 36L35 12° 840 KIT	6.10	96268107	
SATIN2 MRE L950 36L35 12° RGBW KIT	5.90	96267299	
Satin 2 Recessed, high ambient temperature, 950mm, 32°			
SATIN2 MRE L950 36L35 32° 830 KIT	5.10	96268114	
SATIN2 MRE L950 36L35 32° 840 KIT	5.10	96268115	
SATIN2 MRE L950 36L35 32° RGBW KIT	5.90	96267323	
Satin 2 Recessed, high ambient temperature, 950mm, 12x44°			
SATIN2 MRE L950 36L35 12X44° 830 KIT	6.10	96268122	
SATIN2 MRE L950 36L35 12X44° 840 KIT	6.10	96268123	
SATIN2 MRE L950 36L35 12X44° RGBW KIT	5.90	96267347	
Satin 2 Recessed, high ambient temperature, 950mm, asymmetric			
SATIN2 MRE L950 36L35 A/S 830 KIT	5.10	96268130	
SATIN2 MRE L950 36L35 A/S 840 KIT	5.10	96268131	
SATIN2 MRE L950 36L35 A/S RGBW KIT	5.90	96267371	
Satin 2 Recessed, high ambient temperature, 1250mm, 12°			
SATIN2 MRE L1250 48L35 12° 830 KIT	7.30	96268108	
SATIN2 MRE L1250 48L35 12° 840 KIT	7.30	96268109	
SATIN2 MRE L1250 48L35 12° RGBW KIT	7.10	96267305	
Satin 2 Recessed, high ambient temperature, 1250mm, 32°			
SATIN2 MRE L1250 48L35 32° 830 KIT	7.30	96268116	
SATIN2 MRE L1250 48L35 32° 840 KIT	7.30	96268117	
SATIN2 MRE L1250 48L35 32° RGBW KIT	7.10	96267329	
Satin 2 Recessed, high ambient temperature, 1250mm, 12x44°			
SATIN2 MRE L1250 48L35 12X44° 830 KIT	7.30	96268124	
SATIN2 MRE L1250 48L35 12X44° 840 KIT	7.30	96268125	
SATIN2 MRE L1250 48L35 12X44° RGBW KIT	7.10	96267353	
Satin 2 Recessed, high ambient temperature, 1250mm, asymmetric			
SATIN2 MRE L1250 48L35 A/S 830 KIT	7.30	96268132	
SATIN2 MRE L1250 48L35 A/S 840 KIT	7.30	96268133	
SATIN2 MRE L1250 48L35 A/S RGBW KIT	7.10	96267377	
Satin 2 Accessories, connections			
CON CABLE GEL 3/3X2,5° 5650/3 IP68	0.01	96272068	
CONNECT CABLE 2/4X1,5°-4° TH391 IP68	0.05	96260810	EFCC2X4
WL FEMALE MALE CONNECT 3POL IP66	0.10	96241229	
XLR FEMALE CONNECT SPOL DMX IP65	0.10	96241231	
XLR MAL/FEMA CONNECT SPOL DMX IP65	0.10	96241232	

Satin 2

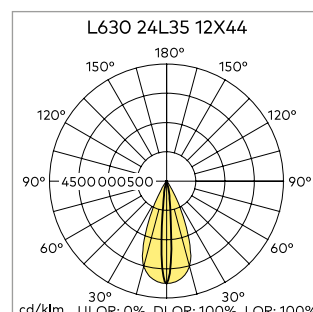
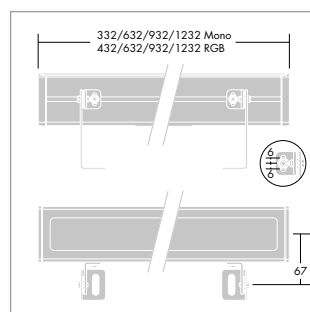
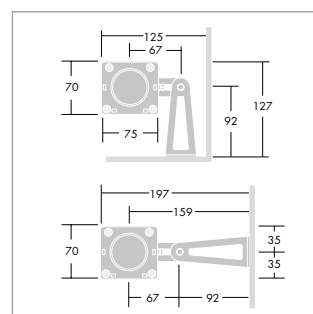


www.thornlighting.co.uk/SAT2
www.thornlighting.ie/SAT2

A discreet linear LED floodlight range offering extensive static/dynamic illumination choice and flexibility

Description	Wt (kg)	SAP Code	Cat. No.
Satin 2 Accessories, DMX controllers			
SENSA DMX CONTROLLER BOX IP65	1.10	96261598	
SENSA DMX CONTROLLER KIT	1.10	96261600	
SENSA DMX TS CONTROLLER BLACK	0.10	96261606	
SENSA DMX TS CONTROLLER WHITE	0.10	96261599	
Satin 2 Accessories, DMX splitters			
SENSA DMX SPLITTER X4	0.15	96261602	
SENSA DMX SPLITTER X4 IP65	1.50	96261605	
Satin 2 Accessories, DMX accessories			
SENSA DMX ADAPTOR PORT X8	0.10	96261604	
SENSA DMX CABLE DMX512	0.12	96261601	
SENSA DMX POWER SUPPLY	0.10	96261603	
SENSA DMX SWITCH 8 POS PREWIRED 3M	0.05	96264082	
Satin 2 Surface accessories, installation			
SATIN2 MWA ALIGNER (X2)	0.15	96270086	
Satin 2 Surface accessories, ground recessed boxes			
SATIN2 1230MM FB GL 1300X170X250	24.00	96267393	
SATIN2 330MM FB GL 420X170X250	9.00	96267390	
SATIN2 430MM FB GL 500X170X250	10.00	96268947	
SATIN2 630MM FB GL 700X170X250	14.00	96267391	
SATIN2 930MM FB GL 1000X170X250	19.00	96267392	
Satin 2 Recessed Accessories - Ground recessing boxes			
SATIN2 MRE L1250 RBOX	5.95	96272113	
SATIN2 MRE L350 RBOX	1.45	96272110	
SATIN2 MRE L650 RBOX	3.90	96272111	
SATIN2 MRE L950 RBOX	4.45	96272112	

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 LED

4.7W

STANDARDS

EN
60598

IP65

IK10



- Precise ellipsoidal light beam for focused illumination
- Discreet with no visible screws thanks to a clip locking mechanism
- Small dimensions to appear invisible when installed on window surrounds
- Adapts to all window types and windowsill inclinations with accurate adjustments inside the fixing plate

Product body front: painted die-cast aluminium (AB47100) with high corrosion resistance. Marine environment resistance as standard. Light grey (close to RAL 9006) and dark grey (close to RAL 9007). Other RAL colours available on request (minimum order of 20 pieces)
Front glass: polycarbonate
Cable: 1,5m H05RN-F - 3x1mm²
Screws: A4 grade stainless steel screws with 2,5-3% molybdenum content for better corrosion resistance.

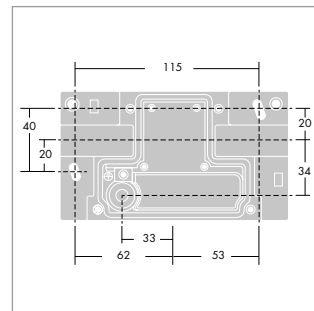
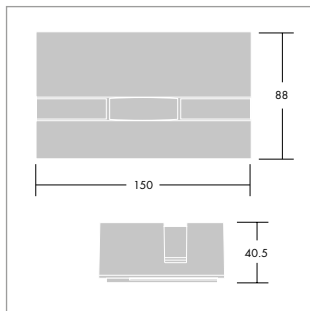
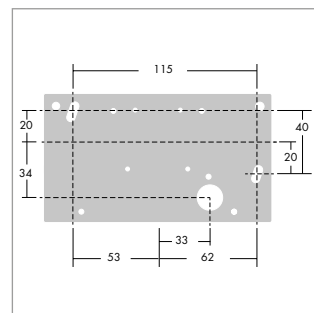
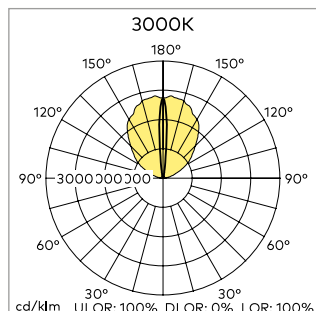
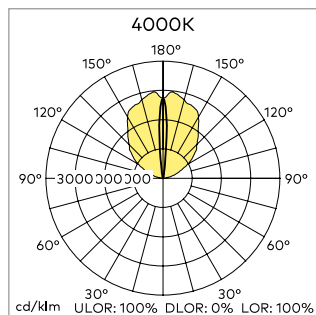
Suitable for surface mounting using screws (not supplied). Ceiling installation is possible. Supplied with 1,5m H05RN-F - 3 x 1mm² cable. Carefully position prior to fixing. Vioo can be precisely adjusted using 2 Allen keys. Through wiring is not possible.

To specify state:
Small floodlight with ellipsoidal
light beam for window surround
illumination, indoor and outdoor
use, two body colours and two
colour temperature versions
(3000K/4000K).
As Thorn Vioo.

Product supplied complete with fixing plate, front, LED and cable.

Description	Wt (kg)	SAP Code
Vioo		
VIOO 1L120 740 ANT	0.71	96271769
VIOO 1L120 740 LGRY	0.71	96271767
VIOO 1L120 830 ANT	0.71	96271768
VIOO 1L120 830 L GRY	0.71	96271766

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Outdoor Lighting

AREA FLOODLIGHTING



126
Altis Area



128
Areaflood Pro



132
LED Fit



134
Olsys Area



High power LED floodlight for area lighting applications



- Excellent control of obtrusive light (Ocd at 90°)
- Flexible optical system optimising lighting distributions for best in class results
- Compact and low weight for minimal structural costs
- Fully controllable solution enabling instant light and stepped illumination levels
- Up to 120 000lm

MATERIALS/FINISH

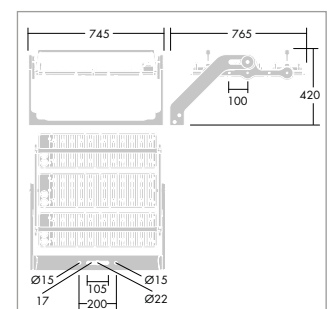
Body : die-cast aluminium (EN AC-47100), painted dark sandy grey (close to RAL 7043)
 Frame and stirrup : die-cast aluminium (EN AC-44100 / EN AC-42200), painted dark sandy grey (close to RAL 7043)
 Glass: 5mm toughened, meeting requirements of CEI 60598-2-5
 Screws: stainless steel

INSTALLATION/MOUNTING

Stirrup fixed using three fixation points available one Ø22mm hole and two Ø15mm holes (nuts and bolts not provided). Frame fixed to stirrup with M10 Hex screw and M8 set screw with the possibility to move the position horizontally (100mm). Tilttable LED modules (+/-50°) fixed on frame with M8 screws and M5 set screw. Vertical aiming from the horizontal: -90° / +90°. Reversible stirrup allows hang down position.
 The LED modules are pre-wired with a 1m long cable and connected to a single harness. Gear Tray IP21 or gear box IP65 installed remotely and supplied separately. Electrical connection to the floodlight is done via a single multi-core cable (female IP68 connector supplied for quick plug-in connection). Main power supply and control (DALI) made via IP68 connectors (supplied). Precision aiming device available and adjustable on top or bottom of LED module.

SPECIFICATION

To specify state:
 High power LED floodlight for high mast area lighting. The floodlight is installed horizontally to avoid obtrusive light (Ocd at 90°) and has tilttable LED modules to optimise lighting designs and minimise number of floodlights in an installation. (28kg for three bricks version and 22kg for two bricks version), highly resistant (IP66, IK08), available with three excellent lighting distribution at both Ta25° and Ta35°C (other ambient temperature available on request). As Thorn Altis Area.





LAMPS

LED

547-1032W

STANDARDS

 IP66 IK08 T_a25 T_a35

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Altis Area 396 4000K & 5700K Ta 25°		
ALTIS A 396L85 A4 CL1 L740 v2	30.7	96275218
ALTIS A 396L85 A5 CL1 L740 v2	30.7	96275219
ALTIS A 396L85 A6 CL1 L740 v2	30.7	96275220
ALTIS A 396L85 A4 CL1 L757 v2	30.7	96275221
ALTIS A 396L85 A5 CL1 L757 v2	30.7	96275222
ALTIS A 396L85 A6 CL1 L757 v2	30.7	96275223
ALTIS A 396L85 A4 CL1 L857 v2	30.7	96275224
ALTIS A 396L85 A5 CL1 L857 v2	30.7	96275225
ALTIS A 396L85 A6 CL1 L857 v2	30.7	96275226
ALTIS A 396L85 A4 CL1 L957-TLCI90 v2	30.7	96275227
ALTIS A 396L85 A5 CL1 L957-TLCI90 v2	30.7	96275228
ALTIS A 396L85 A6 CL1 L957-TLCI90 v2	30.7	96275229
Altis Area 396 Ta 25° remote gear control		
GT ALTIS IP21 396L85 CL1 v2	6.20	96275230
GB ALTIS IP65 396L85 CL1 v2	13.0	96275231
Altis Area 264 4000K & 5700K Ta 25°		
ALTIS A 264L85 A4 CL1 L740 v2	23.5	96275232
ALTIS A 264L85 A5 CL1 L740 v2	23.5	96275233
ALTIS A 264L85 A6 CL1 L740 v2	23.5	96275234
ALTIS A 264L85 A4 CL1 L757 v2	23.5	96275235
ALTIS A 264L85 A5 CL1 L757 v2	23.5	96275236
ALTIS A 264L85 A6 CL1 L757 v2	23.5	96275237
ALTIS A 264L85 A4 CL1 L857 v2	23.5	96275238
ALTIS A 264L85 A5 CL1 L857 v2	23.5	96275239
ALTIS A 264L85 A6 CL1 L857 v2	23.5	96275240
ALTIS A 264L85 A4 CL1 L957-TLCI90 v2	23.5	96275241
ALTIS A 264L85 A5 CL1 L957-TLCI90 v2	23.5	96275242
ALTIS A 264L85 A6 CL1 L957-TLCI90 v2	23.5	96275243

Description	Wt (kg)	SAP Code
Altis Area 264 Ta 25° remote gear control		
GT ALTIS IP21 264L85 CL1 v2	6.2	96275244
GB ALTIS IP65 264L85 CL1 v2	8.4	96275245
Altis Area 396 4000K & 5700K Ta 35°		
ALTIS A 396L70 A4 CL1 L740 T35 v2	30.7	96275274
ALTIS A 396L70 A5 CL1 L740 T35 v2	30.7	96275275
ALTIS A 396L70 A6 CL1 L740 T35 v2	30.7	96275276
ALTIS A 396L70 A4 CL1 L757 T35 v2	30.7	96275277
ALTIS A 396L70 A5 CL1 L757 T35 v2	30.7	96275278
ALTIS A 396L70 A6 CL1 L757 T35 v2	30.7	96275279
ALTIS A 396L70 A4 CL1 L857 T35 v2	30.7	96275280
ALTIS A 396L70 A5 CL1 L857 T35 v2	30.7	96275281
ALTIS A 396L70 A6 CL1 L857 T35 v2	30.7	96275282
ALTIS A 396L70 A4 CL1 L957-TLCI90 T35 v2	30.7	96275283
ALTIS A 396L70 A5 CL1 L957-TLCI90 T35 v2	30.7	96275284
ALTIS A 396L70 A6 CL1 L957-TLCI90 T35 v2	30.7	96275285
Altis Area 396 Ta 35° remote gear control		
GT ALTIS IP21 396L70 CL1 T35 v2	6.20	96275286
GB ALTIS IP65 396L70 CL1 T35 v2	13.0	96275287
Altis Area 264 4000K & 5700K Ta 35°		
ALTIS A 264L70 A4 CL1 L740 T35 v2	23.5	96275288
ALTIS A 264L70 A5 CL1 L740 T35 v2	23.5	96275289
ALTIS A 264L70 A6 CL1 L740 T35 v2	23.5	96275290
ALTIS A 264L70 A4 CL1 L757 T35 v2	23.5	96275291
ALTIS A 264L70 A5 CL1 L757 T35 v2	23.5	96275292
ALTIS A 264L70 A6 CL1 L757 T35 v2	23.5	96275293
ALTIS A 264L70 A4 CL1 L857 T35 v2	23.5	96275294
ALTIS A 264L70 A5 CL1 L857 T35 v2	23.5	96275295
ALTIS A 264L70 A6 CL1 L857 T35 v2	23.5	96275296
ALTIS A 264L70 A4 CL1 L957-TLCI90 T35 v2	23.5	96275297
ALTIS A 264L70 A5 CL1 L957-TLCI90 T35 v2	23.5	96275298
ALTIS A 264L70 A6 CL1 L957-TLCI90 T35 v2	23.5	96275299
Altis Area 264 Ta 35° remote gear control		
GT ALTIS IP21 264L70 CL1 T35 v2	6.2	96275300
GB ALTIS IP65 264L70 CL1 T35 v2	8.4	96275301

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Areaflood

Pro



www.thornlighting.co.uk/AFLP
www.thornlighting.ie/AFLP



- Best optical performance and efficiency
- Optimal control of light (Ocd at 90°, minimal spill light) for the comfort of inhabitants
- Compactness and reduced weight to avoid additional structural costs in retrofit installations
- 100k hrs rated lifetime on both drivers and LEDs
- Medium and large versions are compliant with DIN 18032-3:1997-04 (Sports halls - halls for gymnastics, games and multi-purpose use - Part 3: Testing of safety against ball throwing)

MATERIALS/FINISH

Body and stirrup: die-cast aluminium (EN AC-46000) painted grey (RAL 9006)
 Glass: 4mm toughened
 Screws: stainless steel

INSTALLATION/MOUNTING

For small version, stirrup fixed by a single bolt through one Ø22mm hole or two Ø12mm holes. For medium and large versions, it is fixed by a single bolt through one Ø22mm hole or two Ø15mm holes or two Ø12mm holes. Stirrup is reversible for hang down position. Integral gear tray, access by removal of canopy via 4 allen screws. Cable gland for Ø8-12mm cable. Optional spigot adaptors available separately for post top mounting. Typical installation position is horizontal, although limited tilt may be useful to optimise lighting distributions. Uplighting position allowed. A special surface treatment is required for swimming pool installation and coastal areas.

SPECIFICATION

To specify state:
 Asymmetrical LED floodlight for general purpose area lighting and sports lighting. 3 sizes available, lumen package from 5 to 37klm, with a range of 5 light distributions. High performance floodlight with excellent control of light (Ocd at 90°), high mechanical resistance (IP66, IK08) and full controls compatibility (dimming, lighting controls). Available in electrical class I and class II.
 As Thorn Areaflood Pro.

General purpose LED area floodlight with superior optical performance and control



ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Small, Asymmetric optic 40°, bi-power			
AFP S 24L35-740 A/S4 BPS CL1	6.18	96644710	AFPS24L35BSA4
AFP S 24L50-740 A/S4 BPS CL1	6.18	96644730	AFPS24L50BSA4
AFP S 36L35-740 A/S4 BPS CL1	6.22	96644770	AFPS36L35BSA4
AFP S 24L70-740 A/S4 BPS CL1	6.18	96644750	AFPS24L70BSA4
AFP S 36L50-740 A/S4 BPS CL1	6.22	96644790	AFPS36L50BSA4
AFP S 36L70-740 A/S4 BPS CL1	6.27	96644820	AFPS36L70BSA4
Areaflood Pro Small, Asymmetric optic 40°, DALI dimmable			
AFP S 24L35-740 A/S4 HFX CL1	6.16	96644725	AFPS24L35YA4
AFP S 24L50-740 A/S4 HFX CL1	6.16	96644745	AFPS24L50YA4
AFP S 36L35-740 A/S4 HFX CL1	6.20	96644785	AFPS36L35YA4
AFP S 24L70-740 A/S4 HFX CL1	6.16	96644765	AFPS24L70YA4
AFP S 36L50-740 A/S4 HFX CL1	6.20	96644815	AFPS36L50YA4
AFP S 36L70-740 A/S4 HFX CL1	6.25	96644853	AFPS36L70YA4
Areaflood Pro Small, Asymmetric optic 40°, configured products			
AFP S 36L50-740 A/S4 BPS CLO CL1	6.22	96644800	AFPS36L50BSA4
AFP S 36L70-740 A/S4 BPS CL1 HT	6.29	96644840	AFPS36L70BSA4H
AFP S 36L70-740 A/S4 BPS CL1 PM	6.37	96644835	AFPS36L70BSMA4
AFP S 36L70-740 A/S4 BPS CL1 PN	6.39	96644830	AFPS36L70BSNA4
AFP S 36L70-740 A/S4 HFX CL1 HT	6.29	96644858	AFPS36L70YA4H
Areaflood Pro Small, Asymmetric optic 50°, bi-power			
AFP S 24L35-740 A/S5 BPS CL1	6.18	96644712	AFPS24L35BSA5
AFP S 24L50-740 A/S5 BPS CL1	6.18	96644732	AFPS24L50BSA5
AFP S 36L35-740 A/S5 BPS CL1	6.22	96644772	AFPS36L35BSA5
AFP S 24L70-740 A/S5 BPS CL1	6.18	96644752	AFPS24L70BSA5
AFP S 36L50-740 A/S5 BPS CL1	6.22	96644792	AFPS36L50BSA5
AFP S 36L70-740 A/S5 BPS CL1	6.27	96644822	AFPS36L70BSA5
Areaflood Pro Small, Asymmetric optic 50°, DALI dimmable			
AFP S 24L35-740 A/S5 HFX CL1	6.16	96644726	AFPS24L35YA5
AFP S 24L50-740 A/S5 HFX CL1	6.16	96644746	AFPS24L50YA5
AFP S 36L35-740 A/S5 HFX CL1	6.20	96644786	AFPS36L35YA5
AFP S 24L70-740 A/S5 HFX CL1	6.16	96644766	AFPS24L70YA5
AFP S 36L50-740 A/S5 HFX CL1	6.20	96644816	AFPS36L50YA5
AFP S 36L70-740 A/S5 HFX CL1	6.25	96644854	AFPS36L70YA5
Areaflood Pro Small, Asymmetric optic 50°, configured products			
AFP S 36L50-740 A/S5 BPS CLO CL1	6.22	96644802	AFPS36L50BSA5
AFP S 36L70-740 A/S5 BPS CL1 HT	6.29	96644841	AFPS36L70BSA5H
AFP S 36L70-740 A/S5 BPS CL1 PM	6.37	96644836	AFPS36L70BSMA5
AFP S 36L70-740 A/S5 BPS CL1 PN	6.39	96644831	AFPS36L70BSNA5
AFP S 36L70-740 A/S5 HFX CL1 HT	6.29	96644859	AFPS36L70YA5H



Small version



Large version



Medium version

LAMPS



LED

28-308W

STANDARDS



IP 66 IK 08



Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Small, Asymmetric optic 60°, bi-power			
AFP S 24L35-740 A/S6 BPS CL1	6.18	96644714	AFPS24L35BSA6
AFP S 24L50-740 A/S6 BPS CL1	6.18	96644734	AFPS24L50BSA6
AFP S 36L35-740 A/S6 BPS CL1	6.22	96644774	AFPS36L35BSA6
AFP S 24L70-740 A/S6 BPS CL1	6.18	96644754	AFPS24L70BSA6
AFP S 36L50-740 A/S6 BPS CL1	6.22	96644794	AFPS36L50BSA6
AFP S 36L70-740 A/S6 BPS CL1	6.27	96644824	AFPS36L70BSA6
Areaflood Pro Small, Asymmetric optic 60°, DALI dimmable			
AFP S 24L35-740 A/S6 HFX CL1	6.16	96644727	AFPS24L35YA6
AFP S 24L50-740 A/S6 HFX CL1	6.16	96644747	AFPS24L50YA6
AFP S 36L35-740 A/S6 HFX CL1	6.20	96644787	AFPS36L35YA6
AFP S 24L70-740 A/S6 HFX CL1	6.16	96644767	AFPS24L70YA6
AFP S 36L50-740 A/S6 HFX CL1	6.20	96644817	AFPS36L50YA6
AFP S 36L70-740 A/S6 HFX CL1	6.25	96644855	AFPS36L70YA6
Areaflood Pro Small, Asymmetric optic 60°, configured products			
AFP S 36L50-740 A/S6 BPS CLO CL1	6.22	96644804	AFPS36L50BSCA6
AFP S 36L70-740 A/S6 BPS CL1 HT	6.29	96644842	AFPS36L70BSA6H
AFP S 36L70-740 A/S6 BPS CL1 PM	6.37	96644837	AFPS36L70BSMA6
AFP S 36L70-740 A/S6 BPS CL1 PN	6.39	96644832	AFPS36L70BSNA6
AFP S 36L70-740 A/S6 HFX CL1 HT	6.29	96644860	AFPS36L70YA6H
Areaflood Pro Small, Extra wide road optic, bi-power			
AFP S 24L35-740 EWR BPS CL1	6.18	96644716	AFPS24L35BSXR
AFP S 24L50-740 EWR BPS CL1	6.18	96644736	AFPS24L50BSXR
AFP S 36L35-740 EWR BPS CL1	6.22	96644776	AFPS36L35BSXR
AFP S 24L70-740 EWR BPS CL1	6.18	96644756	AFPS24L70BSXR
AFP S 36L50-740 EWR BPS CL1	6.22	96644796	AFPS36L50BSXR
AFP S 36L70-740 EWR BPS CL1	6.27	96644826	AFPS36L70BSXR
Areaflood Pro Small, Extra wide road optic, DALI dimmable			
AFP S 24L35-740 EWR HFX CL1	6.16	96644728	AFPS24L35YXR
AFP S 24L50-740 EWR HFX CL1	6.16	96644748	AFPS24L50YXR
AFP S 36L35-740 EWR HFX CL1	6.20	96644788	AFPS36L35YXR
AFP S 24L70-740 EWR HFX CL1	6.16	96644768	AFPS24L70YXR
AFP S 36L50-740 EWR HFX CL1	6.20	96644818	AFPS36L50YXR
AFP S 36L70-740 EWR HFX CL1	6.25	96644856	AFPS36L70YXR
Areaflood Pro Small, Extra wide road optic, configured products			
AFP S 36L50-740 EWR BPS CLO CL1	6.22	96644806	AFPS36L50BSCXR
AFP S 36L70-740 EWR BPS CL1 10KV	6.37	96644845	AFPS36L70BSXRT10
AFP S 36L70-740 EWR BPS CL1 HT	6.29	96644843	AFPS36L70BSXRH
AFP S 36L70-740 EWR BPS CL1 HT 10KV	6.34	96644847	AFPS36L70BSX-RH10
AFP S 36L70-740 EWR BPS CL1 PM	6.37	96644838	AFPS36L70BSMXR
AFP S 36L70-740 EWR BPS CL1 PN	6.39	96644833	AFPS36L70BSNXR
AFP S 36L70-740 EWR CL1 PMS	6.51	96644875	AFPS36L70BSN5XR

Description	Wt (kg)	SAP Code	Cat. No.
AFP S 36L70-740 EWR CL1 RF		96644874	AFPS36L70BSWXR
AFP S 36L70-740 EWR HFX CL1 10KV	6.34	96644864	AFPS36L70YXR10
AFP S 36L70-740 EWR HFX CL1 HT	6.29	96644861	AFPS36L70YXRH
AFP S 36L70-740 EWR HFX CL1 HT 10KV	6.34	96644865	AFPS36L70YXRH10
Areaflood Pro Small, Wide road optic, bi-power			
AFP S 24L35-740 WR BPS CL1	6.18	96644718	AFPS24L35BSWR
AFP S 24L50-740 WR BPS CL1	6.18	96644738	AFPS24L50BSWR
AFP S 36L35-740 WR BPS CL1	6.22	96644778	AFPS36L35BSWR
AFP S 24L70-740 WR BPS CL1	6.18	96644758	AFPS24L70BSWR
AFP S 36L50-740 WR BPS CL1	6.22	96644798	AFPS36L50BSWR
AFP S 36L70-740 WR BPS CL1	6.27	96644828	AFPS36L70BSWR
Areaflood Pro Small, Wide road optic, DALI dimmable			
AFP S 24L35-740 WR HFX CL1	6.16	96644729	AFPS24L35YWR
AFP S 24L50-740 WR HFX CL1	6.16	96644749	AFPS24L50YWR
AFP S 36L35-740 WR HFX CL1	6.20	96644789	AFPS36L35YWR
AFP S 24L70-740 WR HFX CL1	6.16	96644769	AFPS24L70YWR
AFP S 36L50-740 WR HFX CL1	6.20	96644819	AFPS36L50YWR
AFP S 36L70-740 WR HFX CL1	6.25	96644857	AFPS36L70YWR
Areaflood Pro Small, Wide road optic, configured products			
AFP S 36L50-740 WR BPS CLO CL1	6.22	96644808	AFPS36L50BSCWR
AFP S 36L70-740 WR BPS CL1 HT	6.29	96644844	AFPS36L70BSWRH
AFP S 36L70-740 WR BPS CL1 PM	6.37	96644839	AFPS36L70BSMWR
AFP S 36L70-740 WR BPS CL1 PN	6.39	96644834	AFPS36L70BSNWR
AFP S 36L70-740 WR HFX CL1 HT	6.29	96644862	AFPS36L70YWRH
Areaflood Pro Medium, Asymmetric optic 40°, bi-power			
AFP M 48L35-740 A/S4 BPS CL1	13.00	96644878	AFPM48L35BSA4
AFP M 48L50-740 A/S4 BPS CL1	13.01	96644898	AFPM48L50BSA4
AFP M 72L35-740 A/S4 BPS CL1	13.81	96644938	AFPM72L35BSA4
AFP M 48L70-740 A/S4 BPS CL1	13.68	96644918	AFPM48L70BSA4
AFP M 72L50-740 A/S4 BPS CL1	13.81	96644958	AFPM72L50BSA4
AFP M 72L70-740 A/S4 BPS CL1	13.81	96644988	AFPM72L70BSA4
Areaflood Pro Medium, Asymmetric optic 40°, DALI dimmable			
AFP M 48L35-740 A/S4 HFX CL1	13.98	96644893	AFPM48L35YA4
AFP M 48L50-740 A/S4 HFX CL1	13.98	96644913	AFPM48L50YA4
AFP M 72L35-740 A/S4 HFX CL1	13.78	96644953	AFPM72L35YA4
AFP M 48L70-740 A/S4 HFX CL1	13.65	96644933	AFPM48L70YA4
AFP M 72L50-740 A/S4 HFX CL1	13.88	96644983	AFPM72L50YA4
AFP M 72L70-740 A/S4 HFX CL1	13.78	96645021	AFPM72L70YA4

Areaflood

Pro



www.thornlighting.co.uk/AFLP
www.thornlighting.ie/AFLP

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Medium, Asymmetric optic 40°, configured products			
AFP M 72L50-740 A/S4 BPS CLO CL1	13.81	96644968	AFPM72L50BSCA4
AFP M 72L70-740 A/S4 BPS CL1 HT	13.82	96645008	AFPM72L70BSA4H
AFP M 72L70-740 A/S4 BPS CL1 PM	13.89	96645003	AFPM72L70BSMA4
AFP M 72L70-740 A/S4 BPS CL1 PN	13.91	96644998	AFPM72L70BSNA4
AFP M 72L70-740 A/S4 HFX CL1 HT	13.82	96645026	AFPM72L70YA4H
Areaflood Pro Medium, Asymmetric optic 50°, bi-power			
AFP M 48L35-740 A/S5 BPS CL1	13.00	96644880	AFPM48L35BSA5
AFP M 48L50-740 A/S5 BPS CL1	13.01	96644900	AFPM48L50BSA5
AFP M 72L35-740 A/S5 BPS CL1	13.81	96644940	AFPM72L35BSA5
AFP M 48L70-740 A/S5 BPS CL1	13.68	96644920	AFPM48L70BSA5
AFP M 72L50-740 A/S5 BPS CL1	13.81	96644960	AFPM72L50BSA5
AFP M 72L70-740 A/S5 BPS CL1	13.81	96644990	AFPM72L70BSA5
Areaflood Pro Medium, Asymmetric optic 50°, DALI dimmable			
AFP M 48L35-740 A/S5 HFX CL1	13.98	96644894	AFPM48L35YA5
AFP M 48L50-740 A/S5 HFX CL1	13.98	96644914	AFPM48L50YA5
AFP M 72L35-740 A/S5 HFX CL1	13.78	96644954	AFPM72L35YA5
AFP M 48L70-740 A/S5 HFX CL1	13.65	96644934	AFPM48L70YA5
AFP M 72L50-740 A/S5 HFX CL1	13.78	96644984	AFPM72L50YA5
AFP M 72L70-740 A/S5 HFX CL1	13.78	96645022	AFPM72L70YA5
Areaflood Pro Medium, Asymmetric optic 50°, configured products			
AFP M 72L50-740 A/S5 BPS CLO CL1	13.81	96644970	AFPM72L50BSCA5
AFP M 72L70-740 A/S5 BPS CL1 HT	13.82	96645009	AFPM72L70BSA5H
AFP M 72L70-740 A/S5 BPS CL1 PM	13.89	96645004	AFPM72L70BSMA5
AFP M 72L70-740 A/S5 BPS CL1 PN	13.91	96644999	AFPM72L70BSNA5
AFP M 72L70-740 A/S5 HFX CL1 HT	13.82	96645027	AFPM72L70YA5H
Areaflood Pro Medium, Asymmetric optic 60°, bi-power			
AFP M 48L35-740 A/S6 BPS CL1	13.00	96644882	AFPM48L35BSA6
AFP M 48L50-740 A/S6 BPS CL1	13.01	96644902	AFPM48L50BSA6
AFP M 72L35-740 A/S6 BPS CL1	13.81	96644942	AFPM72L35BSA6
AFP M 48L70-740 A/S6 BPS CL1	13.68	96644922	AFPM48L70BSA6
AFP M 72L50-740 A/S6 BPS CL1	13.81	96644962	AFPM72L50BSA6
AFP M 72L70-740 A/S6 BPS CL1	13.81	96644992	AFPM72L70BSA6
Areaflood Pro Medium, Asymmetric optic 60°, DALI dimmable			
AFP M 48L35-740 A/S6 HFX CL1	13.98	96644895	AFPM48L35YA6
AFP M 48L50-740 A/S6 HFX CL1	13.98	96644915	AFPM48L50YA6
AFP M 72L35-740 A/S6 HFX CL1	13.78	96644955	AFPM72L35YA6
AFP M 48L70-740 A/S6 HFX CL1	13.65	96644935	AFPM48L70YA6
AFP M 72L50-740 A/S6 HFX CL1	13.78	96644985	AFPM72L50YA6
AFP M 72L70-740 A/S6 HFX CL1	13.78	96645023	AFPM72L70YA6
Areaflood Pro Medium, Asymmetric optic 60°, configured products			
AFP M 72L50-740 A/S6 BPS CLO CL1	13.81	96644972	AFPM72L50BSCA6
AFP M 72L70-740 A/S6 BPS CL1 HT	13.82	96645010	AFPM72L70BSA6H
AFP M 72L70-740 A/S6 BPS CL1 PM	13.89	96645005	AFPM72L70BSMA6
AFP M 72L70-740 A/S6 BPS CL1 PN	13.91	96645000	AFPM72L70BSNA6
AFP M 72L70-740 A/S6 HFX CL1 HT	13.82	96645028	AFPM72L70YA6H
Areaflood Pro Medium, Extra wide road optic, bi-power			
AFP M 48L35-740 EWR BPS CL1	13.00	96644884	AFPM48L35BSXR
AFP M 48L50-740 EWR BPS CL1	13.01	96644904	AFPM48L50BSXR
AFP M 72L35-740 EWR BPS CL1	13.81	96644944	AFPM72L35BSXR
AFP M 48L70-740 EWR BPS CL1	13.68	96644924	AFPM48L70BSXR
AFP M 72L50-740 EWR BPS CL1	13.81	96644964	AFPM72L50BSXR
AFP M 72L70-740 EWR BPS CL1	13.81	96644994	AFPM72L70BSXR
Areaflood Pro Medium, Extra wide road optic, DALI dimmable			
AFP M 48L35-740 EWR HFX CL1	13.98	96644896	AFPM48L35YXR
AFP M 48L50-740 EWR HFX CL1	13.98	96644916	AFPM48L50YXR
AFP M 72L35-740 EWR HFX CL1	13.78	96644956	AFPM72L35YXR
AFP M 48L70-740 EWR HFX CL1	13.65	96644936	AFPM48L70YXR
AFP M 72L50-740 EWR HFX CL1	13.78	96644986	AFPM72L50YXR
AFP M 72L70-740 EWR HFX CL1	13.78	96645024	AFPM72L70YXR
Areaflood Pro Medium, Extra wide road optic, configured products			
AFP M 72L50-740 EWR BPS CLO CL1	13.81	96644974	AFPM72L50BSCXR
AFP M 72L70-740 EWR BPS CL1 10KV	13.90	96645013	AFPM72L70BSXRX10
AFP M 72L70-740 EWR BPS CL1 HT	13.82	96645011	AFPM72L70BSXRXH
AFP M 72L70-740 EWR BPS CL1 HT 10KV	13.92	96645015	AFPM72L70BSX-RH10
AFP M 72L70-740 EWR BPS CL1 PM	13.89	96645006	AFPM72L70BSMXR
AFP M 72L70-740 EWR BPS CL1 PN	13.91	96645001	AFPM72L70BSNXR
AFP M 72L70-740 EWR CL1 PNS	13.92	96645043	AFPM72L70BSN5XR
AFP M 72L70-740 EWR CL1 RF	11.90	96645042	AFPM72L70BSWXR
AFP M 72L70-740 EWR HFX CL1 10KV	13.91	96645032	AFPM72L70YXRX10
AFP M 72L70-740 EWR HFX CL1 HT	13.82	96645029	AFPM72L70YXRXH
AFP M 72L70-740 EWR HFX CL1 HT 10KV	13.92	96645033	AFPM72L70YXRXH10

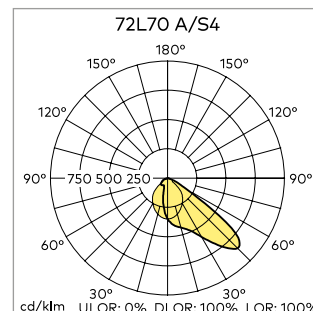
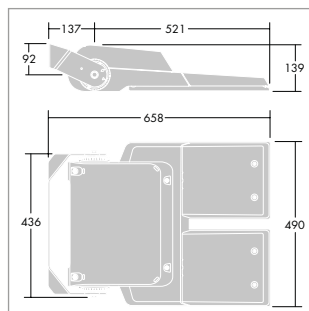
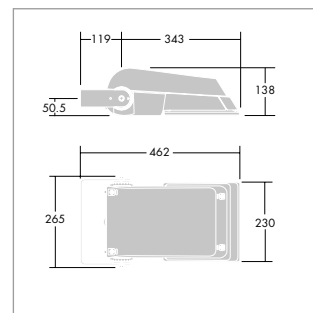
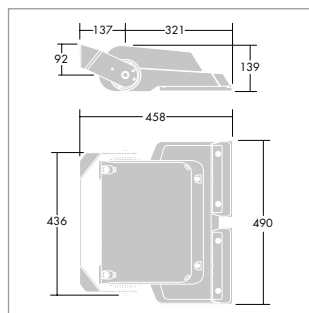
General purpose LED area floodlight with superior optical performance and control

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Medium, Wide road optic, bi-power			
AFP M 48L35-740 WR BPS CL1	13.00	96644886	AFPM48L35BSWR
AFP M 48L50-740 WR BPS CL1	13.01	96644906	AFPM48L50BSWR
AFP M 72L35-740 WR BPS CL1	13.81	96644946	AFPM72L35BSWR
AFP M 48L70-740 WR BPS CL1	13.68	96644926	AFPM48L70BSWR
AFP M 72L50-740 WR BPS CL1	13.81	96644966	AFPM72L50BSWR
AFP M 72L70-740 WR BPS CL1	13.81	96644996	AFPM72L70BSWR
Areaflood Pro Medium, Wide road optic, DALI dimmable			
AFP M 48L35-740 WR HFX CL1	13.98	96644897	AFPM48L35YWR
AFP M 72L35-740 WR HFX CL1	13.78	96644957	AFPM72L35YWR
AFP M 48L50-740 WR HFX CL1	13.98	96644917	AFPM48L50YWR
AFP M 48L70-740 WR HFX CL1	13.65	96644937	AFPM48L70YWR
AFP M 72L50-740 WR HFX CL1	13.78	96644987	AFPM72L50YWR
AFP M 72L70-740 WR HFX CL1	13.78	96645025	AFPM72L70YWR
Areaflood Pro Medium, Wide road optic, configured products			
AFP M 72L50-740 WR BPS CLO CL1	13.81	96644976	AFPM72L50BSCWR
AFP M 72L70-740 WR BPS CL1 HT	13.82	96645012	AFPM72L70BSWRH
AFP M 72L70-740 WR BPS CL1 PM	13.89	96645007	AFPM72L70BSMWR
AFP M 72L70-740 WR BPS CL1 PN	13.91	96645002	AFPM72L70BSNWR
AFP M 72L70-740 WR HFX CL1 HT	13.82	96645030	AFPM72L70YWRH
Areaflood Pro Large, Asymmetric optic 40°, bi-power			
AFP L 96L35-740 A/S4 BPS CL1	17.36	96645046	AFPL96L35BSA4
AFP L 120L35-740 A/S4 BPS CL1	17.08	96644542	AFPL120L35BSA4
AFP L 96L50-740 A/S4 BPS CL1	17.36	96645066	AFPL96L50BSA4
AFP L 144L35-740 A/S4 BPS CL1	18.52	96644602	AFPL144L35BSA4
AFP L 120L50-740 A/S4 BPS CL1	18.43	96644562	AFPL120L50BSA4
AFP L 96L70-740 A/S4 BPS CL1	18.43	96645086	AFPL96L70BSA4
AFP L 144L50-740 A/S4 BPS CL1	18.52	96644622	AFPL144L50BSA4
AFP L 120L70-740 A/S4 BPS CL1	18.43	96644582	AFPL120L70BSA4
AFP L 144L70-740 A/S4 BPS CL1	18.52	96644652	AFPL144L70BSA4
Areaflood Pro Large, Asymmetric optic 40°, DALI dimmable			
AFP L 96L35-740 A/S4 HFX CL1	15.27	96645061	AFPL96L35YA4
AFP L 120L35-740 A/S4 HFX CL1	17.10	96644557	AFPL120L35YA4
AFP L 96L50-740 A/S4 HFX CL1	15.27	96645081	AFPL96L50YA4
AFP L 144L35-740 A/S4 HFX CL1	18.54	96644617	AFPL144L35YA4
AFP L 120L50-740 A/S4 HFX CL1	18.45	96644577	AFPL120L50YA4
AFP L 96L70-740 A/S4 HFX CL1	18.40	96645101	AFPL96L70YA4
AFP L 144L50-740 A/S4 HFX CL1	18.54	96644647	AFPL144L50YA4
AFP L 120L70-740 A/S4 HFX CL1	18.45	96644597	AFPL120L70YA4
AFP L 144L70-740 A/S4 HFX CL1	18.54	96644685	AFPL144L70YA4
Areaflood Pro Large, Asymmetric optic 40°, configured products			
AFP L 144L50-740 A/S4 BPS CLO CL1	18.52	96644632	AFPL144L50BSCA4
AFP L 144L70-740 A/S4 BPS CL1 HT	18.55	96644672	AFPL144L70BSA4H
AFP L 144L70-740 A/S4 BPS CL1 PM	18.62	96644667	AFPL144L70BSMA4
AFP L 144L70-740 A/S4 BPS CL1 PN	18.64	96644662	AFPL144L70BSNA4
AFP L 144L70-740 A/S4 HFX CL1 HT	18.56	96644690	AFPL144L70YA4H
Areaflood Pro Large, Asymmetric optic 50°, bi-power			
AFP L 96L35-740 A/S5 BPS CL1	17.36	96645048	AFPL96L35BSA5
AFP L 120L35-740 A/S5 BPS CL1	17.08	96644544	AFPL120L35BSA5
AFP L 96L50-740 A/S5 BPS CL1	17.36	96645068	AFPL96L50BSA5
AFP L 144L35-740 A/S5 BPS CL1	18.52	96644604	AFPL144L35BSA5
AFP L 120L50-740 A/S5 BPS CL1	18.43	96644564	AFPL120L50BSA5
AFP L 96L70-740 A/S5 BPS CL1	18.43	96645088	AFPL96L70BSA5
AFP L 144L50-740 A/S5 BPS CL1	18.52	96644624	AFPL144L50BSA5
AFP L 120L70-740 A/S5 BPS CL1	18.43	96644584	AFPL120L70BSA5
AFP L 144L70-740 A/S5 BPS CL1	18.52	96644654	AFPL144L70BSA5
Areaflood Pro Large, Asymmetric optic 50°, DALI dimmable			
AFP L 96L35-740 A/S5 HFX CL1	15.27	96645062	AFPL96L35YA5
AFP L 120L35-740 A/S5 HFX CL1	17.10	96644558	AFPL120L35YA5
AFP L 96L50-740 A/S5 HFX CL1	15.27	96645082	AFPL96L50YA5
AFP L 144L35-740 A/S5 HFX CL1	18.54	96644618	AFPL144L35YA5
AFP L 120L50-740 A/S5 HFX CL1	18.45	96644578	AFPL120L50YA5
AFP L 96L70-740 A/S5 HFX CL1	18.40	96645102	AFPL96L70YA5
AFP L 144L50-740 A/S5 HFX CL1	18.54	96644648	AFPL144L50YA5
AFP L 120L70-740 A/S5 HFX CL1	18.45	96644598	AFPL120L70YA5
AFP L 144L70-740 A/S5 HFX CL1	18.54	96644686	AFPL144L70YA5
Areaflood Pro Large, Asymmetric optic 50°, configured products			
AFP L 144L50-740 A/S5 BPS CLO CL1	18.52	96644634	AFPL144L50BSCA5
AFP L 144L70-740 A/S5 BPS CL1 HT	18.55	96644673	AFPL144L70BSA5H
AFP L 144L70-740 A/S5 BPS CL1 PM	18.62	96644668	AFPL144L70BSMA5
AFP L 144L70-740 A/S5 BPS CL1 PN	18.64	96644663	AFPL144L70BSNA5
AFP L 144L70-740 A/S5 HFX CL1 HT	18.56	96644691	AFPL144L70YA5H

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Large, Asymmetric optic 60°, bi-power			
AFP L 96L35-740 A/S6 BPS CL1	17.36	96645050	AFPL96L35BSA6
AFP L 120L35-740 A/S6 BPS CL1	17.08	96644546	AFPL120L35BSA6
AFP L 96L50-740 A/S6 BPS CL1	17.36	96645070	AFPL96L50BSA6
AFP L 144L35-740 A/S6 BPS CL1	18.52	96644606	AFPL144L35BSA6
AFP L 120L50-740 A/S6 BPS CL1	18.43	96644566	AFPL120L50BSA6
AFP L 96L70-740 A/S6 BPS CL1	18.43	96645090	AFPL96L70BSA6
AFP L 144L50-740 A/S6 BPS CL1	18.52	96644626	AFPL144L50BSA6
AFP L 120L70-740 A/S6 BPS CL1	18.43	96644586	AFPL120L70BSA6
AFP L 144L70-740 A/S6 BPS CL1	18.52	96644656	AFPL144L70BSA6
Areaflood Pro Large, Asymmetric optic 60°, DALI dimmable			
AFP L 96L35-740 A/S6 HFX CL1	15.27	96645063	AFPL96L35YA6
AFP L 120L35-740 A/S6 HFX CL1	17.10	96644559	AFPL120L35YA6
AFP L 96L50-740 A/S6 HFX CL1	15.27	96645083	AFPL96L50YA6
AFP L 144L35-740 A/S6 HFX CL1	18.54	96644619	AFPL144L35YA6
AFP L 120L50-740 A/S6 HFX CL1	18.45	96644579	AFPL120L50YA6
AFP L 96L70-740 A/S6 HFX CL1	18.40	96645103	AFPL96L70YA6
AFP L 144L50-740 A/S6 HFX CL1	18.54	96644649	AFPL144L50YA6
AFP L 120L70-740 A/S6 HFX CL1	18.45	96644599	AFPL120L70YA6
AFP L 144L70-740 A/S6 HFX CL1	18.54	96644687	AFPL144L70YA6
Areaflood Pro Large, Asymmetric optic 60°, configured products			
AFP L 144L50-740 A/S6 BPS CLO CL1	18.52	96644636	AFPL144L50BSCA6
AFP L 144L70-740 A/S6 BPS CL1 HT	18.55	96644674	AFPL144L70BSA6H
AFP L 144L70-740 A/S6 BPS CL1 PM	18.62	96644669	AFPL144L70BSMA6
AFP L 144L70-740 A/S6 BPS CL1 PN	18.64	96644664	AFPL144L70BSNA6
AFP L 144L70-740 A/S6 HFX CL1 HT	18.56	96644692	AFPL144L70YA6H
Areaflood Pro Large, Extra wide road optic, bi-power			
AFP L 96L35-740 EWR BPS CL1	17.36	96645052	AFPL96L35BSXR
AFP L 120L35-740 EWR BPS CL1	17.08	96644548	AFPL120L35BSXR
AFP L 96L50-740 EWR BPS CL1	17.36	96645072	AFPL96L50BSXR
AFP L 144L35-740 EWR BPS CL1	18.52	96644608	AFPL144L35BSXR
AFP L 120L50-740 EWR BPS CL1	18.43	96644568	AFPL120L50BSXR
AFP L 96L70-740 EWR BPS CL1	18.43	96645092	AFPL96L70BSXR
AFP L 144L50-740 EWR BPS CL1	18.52	96644628	AFPL144L50BSXR
AFP L 120L70-740 EWR BPS CL1	18.43	96644588	AFPL120L70BSXR
AFP L 144L70-740 EWR BPS CL1	18.52	96644658	AFPL144L70BSXR
Areaflood Pro Large, Extra wide road optic, DALI dimmable			
AFP L 96L35-740 EWR HFX CL1	15.27	96645064	AFPL96L35YXR
AFP L 120L35-740 EWR HFX CL1	17.10	96644560	AFPL120L35YXR
AFP L 96L50-740 EWR HFX CL1	15.27	96645084	AFPL96L50YXR
AFP L 144L35-740 EWR HFX CL1	18.54	96644620	AFPL144L35YXR
AFP L 120L50-740 EWR HFX CL1	18.45	96644580	AFPL120L50YXR
AFP L 96L70-740 EWR HFX CL1	18.40	96645104	AFPL96L70YXR
AFP L 144L50-740 EWR HFX CL1	18.54	96644650	AFPL144L50YXR
AFP L 120L70-740 EWR HFX CL1	18.45	96644600	AFPL120L70YXR
AFP L 144L70-740 EWR HFX CL1	18.54	96644688	AFPL144L70YXR
Areaflood Pro Large, Extra wide road optic, configured products			
AFP L 144L50-740 EWR BPS CLO CL1	18.52	96644638	AFPL144L50BSCXR
AFP L 144L70-740 EWR BPS CL1 10KV	18.64	96644677	AFPL144L70BSXR10
AFP L 144L70-740 EWR BPS CL1 HT	18.55	96644675	AFPL144L70BSXRH
AFP L 144L70-740 EWR BPS CL1 HT 10KV	18.66	96644679	AFPL144L70BSX-RH10
AFP L 144L70-740 EWR BPS CL1 PM	18.62	96644670	AFPL144L70BSMXR
AFP L 144L70-740 EWR BPS CL1 PN	18.64	96644665	AFPL144L70BSNXR
AFP L 144L70-740 EWR CL1 PNs	18.64	96644707	AFPL144L70BSN5XR
AFP L 144L70-740 EWR CL1 RF		96644706	AFPL144L70BSWXR
AFP L 144L70-740 EWR CL2 RF 10KV		96644709	
AFP L 144L70-740 EWR HFX CL1 10KV	18.62	96644696	AFPL144L70YXR10
AFP L 144L70-740 EWR HFX CL1 HT	18.56	96644693	AFPL144L70YXRH
AFP L 144L70-740 EWR HFX CL1 HT 10KV	18.66	96644697	AFPL144L70YXRH10

Description	Wt (kg)	SAP Code	Cat. No.
Areaflood Pro Large, Wide road optic, bi-power			
AFP L 96L35-740 WR BPS CL1	17.36	96645054	AFPL96L35BSWR
AFP L 120L35-740 WR BPS CL1	17.08	96644550	AFPL120L35BSWR
AFP L 96L50-740 WR BPS CL1	17.36	96645074	AFPL96L50BSWR
AFP L 144L35-740 WR BPS CL1	18.52	96644610	AFPL144L35BSWR
AFP L 120L50-740 WR BPS CL1	18.43	96644570	AFPL120L50BSWR
AFP L 96L70-740 WR BPS CL1	18.43	96645094	AFPL96L70BSWR
AFP L 144L50-740 WR BPS CL1	18.52	96644630	AFPL144L50BSWR
AFP L 120L70-740 WR BPS CL1	18.43	96644590	AFPL120L70BSWR
AFP L 144L70-740 WR BPS CL1	18.52	96644660	AFPL144L70BSWR
Areaflood Pro Large, Wide road optic, DALI dimmable			
AFP L 96L35-740 WR HFX CL1	15.27	96645065	AFPL96L35YWR
AFP L 120L35-740 WR HFX CL1	17.10	96644561	AFPL120L35YWR
AFP L 96L50-740 WR HFX CL1	15.27	96645085	AFPL96L50YWR
AFP L 144L35-740 WR HFX CL1	18.54	96644621	AFPL144L35YWR
AFP L 120L50-740 WR HFX CL1	18.45	96644581	AFPL120L50YWR
AFP L 96L70-740 WR HFX CL1	18.40	96645105	AFPL96L70YWR
AFP L 144L50-740 WR HFX CL1	18.54	96644651	AFPL144L50YWR
AFP L 120L70-740 WR HFX CL1	18.45	96644601	AFPL120L70YWR
AFP L 144L70-740 WR HFX CL1	18.54	96644689	AFPL144L70YWR
Areaflood Pro Large, Wide road optic, configured products			
AFP L 144L50-740 WR BPS CLO CL1	18.52	96644640	AFPL144L50BSCWR
AFP L 144L70-740 WR BPS CL1 HT	18.55	96644676	AFPL144L70BSWRH
AFP L 144L70-740 WR BPS CL1 PM	18.62	96644671	AFPL144L70BSMWR
AFP L 144L70-740 WR BPS CL1 PN	18.64	96644666	AFPL144L70BSNWR
AFP L 144L70-740 WR HFX CL1 HT	18.56	96644694	AFPL144L70YWRH
Areaflood Pro Accessories			
AFP MTP 60MM R9006	1.66	96274660	
AFP MTP 76MM R9006	1.60	96274659	
AFP L LOUVRES F+B		96645110	
AFP M LOUVRES F+B		96645109	
AFP MTP60		96645106	
AFP MTP76		96645107	
AFP S LOUVRES F+B		96645108	

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LED Fit



www.thornlighting.co.uk/LEDf
www.thornlighting.ie/LEDf



An ultra lightweight, reliable and efficient LED floodlight with best in class optic



- Ultra lightweight, compact design for ease of installation and minimal aesthetic impact
- True asymmetric optic provides light distribution and excellent light control (0cd at 90°) with no need to tilt
- Maintenance free for 50 000 hours lifetime
- Reduce energy consumption by approximately 80% compared to similar HID solutions
- 4000K

MATERIALS/FINISH

Body : die-cast aluminium painted grey RAL 9006
Stirrup : galvanized steel
Visor : polycarbonate with external surface powder coated RAL 9006 (light grey)

INSTALLATION/MOUNTING

Pre-wired with 60cm cable.
Stirrup can be fixed via three fixation points - one M10 and two M8 - and is reversible allowing different mounting positions.

SPECIFICATION

To specify state:
A simple, reliable and efficient alternative to general purpose HID floodlights with true asymmetric optic to cover the requirements of low area lighting, building surroundings and facade lighting. Ultra lightweight, compact design for ease of installation and minimal aesthetic impact available in 2 sizes - Small and Medium - with lumen packages of 4 500lm and 9 000lm and high mechanical resistance (IP66, IK07). The reversible mounting stirrup allows different mounting positions to cover all the applications needs.
As Thorn LED Fit



45W version



90W version



Wall mounted - Area



Pre-wired

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
LED Fit			
LEDFIT S 45W A/S CL1 L840	1.70	96628332	LFS45
LEDFIT M 90W A/S CL1 L840	3.00	96628333	LFM90

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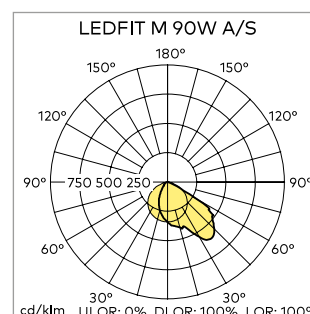
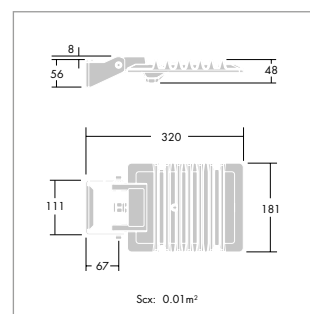
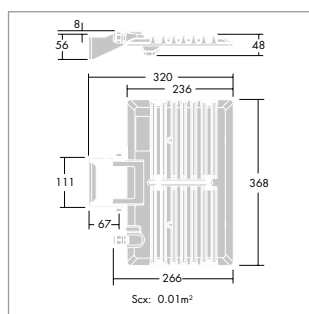
LAMPS

LED

45-90W

STANDARDS

CE IP66 IK07



Olsys

Area



www.thornlighting.co.uk/OSYS
www.thornlighting.ie/OSYS



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 $^{\circ}$)
- 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
- 3000K and 4000K

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 24-85W (up to 8530lm) with asymmetric distribution.
 As Thorn Olsys Area.



Wall mounting



Size 1 optics



Size 2 optics

LAMPS

LED

24-85W

STANDARDS

EN 60598



IP66

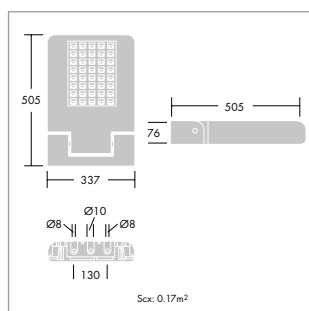
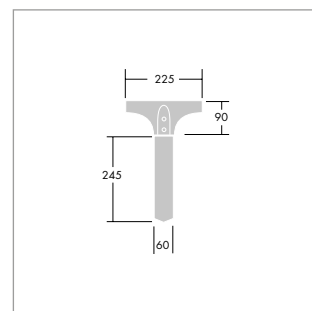
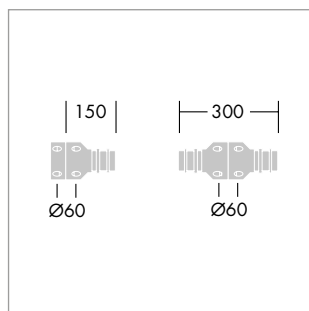
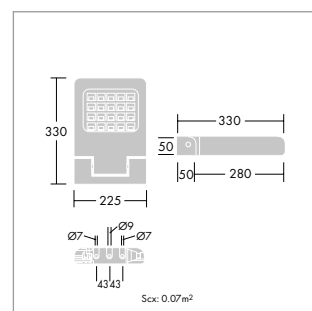
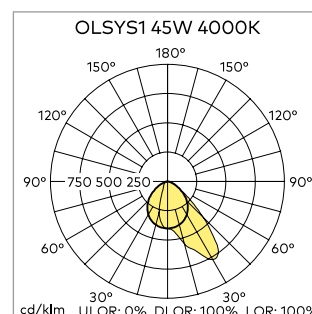
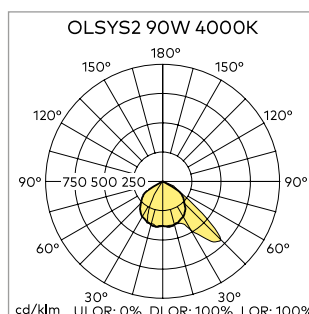
IK08

T₅₀**ORDERING GUIDE**

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Olsys 1 area			
OLSYS1 10L70-740 A/S CL1	2.60	96274076	
OLSYS1 20L70-730 A/S CL1	2.80	96274082	
OLSYS1 20L70-740 A/S CL1	2.85	96274086	
Olsys 1 area, mounting accessories			
OLSYS1 SPIKE	1.30	96262334	OY1ASPK
Olsys 2 area			
OLSYS2 24L70-740 A/S CL1	8.50	96274089	
OLSYS2 36L70-740 A/S CL1	8.50	96274095	
Olsys 2 area, mounting accessories			
OLSYS2 MTP 60/76	2.90	96262304	OY2APT60

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Sca: 0.17m²Sca: 0.07m²



Outdoor Lighting

SPORTS FLOODLIGHTING



138
Altis



140
Altis Sport



142
Champion



144
Mundial C



- 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
- Full electronic solution for flickerfree superslow motion viewing

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-inforced).
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.

High performance discharge floodlight suitable for international sports TV broadcasting



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 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
Altis 2kW CL1 Hot Restrike			
ALTIS HR 2KW R1 HQITS-S CL1 WI	16.70	96263388	AT2HRR1
ALTIS HR 2KW R1 HQITSS-HF/MHNSBHO CL1 WI	16.70	96263394	ATH2HRR1
ALTIS HR 2KW R2 HQITS-S CL1 WI	16.63	96263389	AT2HRR2
ALTIS HR 2KW R2 HQITSS-HF/MHNSBHO CL1 WI	16.63	96263395	ATH2HRR2
ALTIS HR 2KW R3 HQITS-S CL1 WI	16.70	96263390	AT2HRR3
ALTIS HR 2KW R3 HQITSS-HF/MHNSBHO CL1 WI	16.70	96263396	ATH2HRR3
ALTIS HR 2KW R4 HQITS-S CL1 WI	16.80	96263391	AT2HRR4
ALTIS HR 2KW R4 HQITSS-HF/MHNSBHO CL1 WI	16.80	96263397	ATH2HRR4
ALTIS HR 2KW R5 HQITS-S CL1 WI	16.55	96263392	AT2HRR5
ALTIS HR 2KW R5 HQITSS-HF/MHNSBHO CL1 WI	16.55	96263398	ATH2HRR5
ALTIS HR 2KW R6 HQITS-S CL1 WI	16.92	96263393	AT2HRR6
ALTIS HR 2KW R6 HQITSS-HF/MHNSBHO CL1 WI	16.92	96263399	ATH2HRR6
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



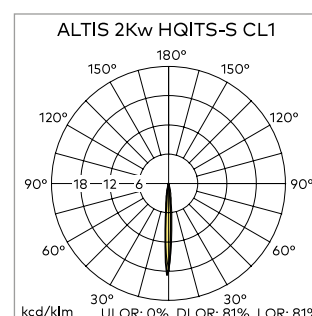
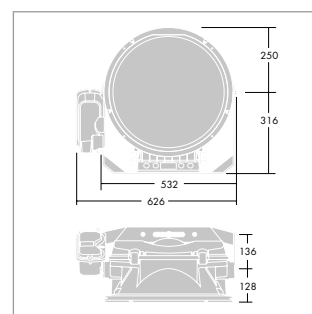
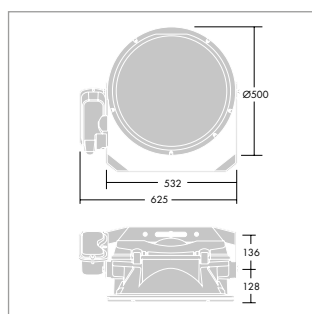
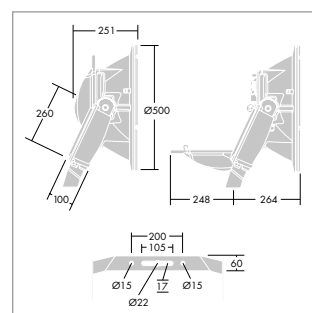
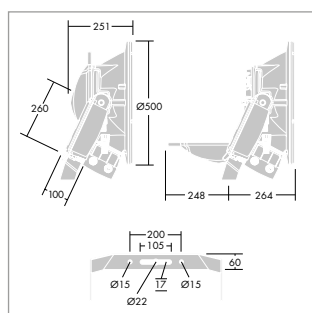
LAMPS

	HIT-DE (MD) Cable 1000-2000W
	HIT-DE OSS (MD) Cable 2000W

STANDARDS

T _a 25	T _a 35			

Description	Wt (kg)	SAP Code	Cat. No.
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 electronic system			
ALTIS 2KW R1 HO/HF DGE CL1 WI SC	14.40	96267922	
ALTIS 2KW R2 HO/HF DGE CL1 WI SC	14.33	96267923	
ALTIS 2KW R3 HO/HF DGE CL1 WI SC	14.40	96267924	
ALTIS 2KW R4 HO/HF DGE CL1 WI SC	14.50	96267925	
ALTIS 2KW R5 HO/HF DGE CL1 WI SC	14.25	96267926	
ALTIS 2KW R6 HO/HF DGE CL1 WI SC	14.25	96267927	
GT 2KW 230-240V HO/HF DGE CL1 WI SC	3.60	96267936	
Altis 1kW electronic system			
ALTIS 1KW R1 HQITS-S DGE CL1 WI SC	14.40	96268732	
ALTIS 1KW R2 HQITS-S DGE CL1 WI SC	14.33	96268733	
ALTIS 1KW R3 HQITS-S DGE CL1 WI SC	14.40	96268734	
ALTIS 1KW R4 HQITS-S DGE CL1 WI SC	14.50	96268735	
ALTIS 1KW R5 HQITS-S DGE CL1 WI SC	14.25	96268736	
ALTIS 1KW R6 HQITS-S DGE CL1 WI SC	14.25	96268737	
GT 1KW 230-240V HQITS-S DGE CL1 WI SC	3.60	96268731	
Altis Accessories			
ALTIS AIMING DEVICE COMPLETE	0.50	96264278	
ALTIS MEMORY SETTING	0.10	96264500	
ALTIS VS	1.80	96264276	
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/HQITS S HF	20.00	96261551	ATMH2GT
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



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Altis

Sport



www.thornlighting.co.uk/ALTS
www.thornlighting.ie/ALTS



High power LED floodlight for sports lighting applications



- Unique quality of light with flickerfree operation suitable for HDTV broadcasting
- Flexible optical system optimising lighting distributions for best in class results
- Compact and low weight for minimal structural costs
- Fully controllable solution enabling instant lighting, stepped illumination levels and event lighting with dynamic lighting scenarios
- Up to 140 000lm

MATERIALS/FINISH

Body : die-cast aluminium (EN AC-47100), painted dark sandy grey (close to RAL 7043)
 Frame and stirrup : die-cast aluminium (EN AC-44100/ EN AC-42200), painted dark sandy grey (close to RAL 7043)
 Glass: 5mm toughened, meeting requirements of CEI 60598-2-5
 Screws: stainless steel.

INSTALLATION/MOUNTING

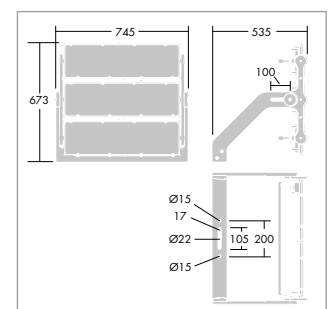
Stirrup fixed using three fixation points available one Ø22mm hole and two Ø15mm holes (nuts and bolts not provided). Frame fixed to stirrup with M10 Hex screw and M8 set screw with the possibility to move the position horizontally (100mm). Tilttable LED modules (+/-50°) fixed on frame with M8 screws and M5 set screw. Vertical aiming from the horizontal: -90° / +90°. Reversible stirrup allows hang down position.

The LED modules are pre-wired with a 1m long cable and connected to a single harness. Gear Tray IP21 or gear box IP65 installed remotely and supplied separately. Electrical connection to the floodlight is done via a single multi-core cable (female IP68 connector supplied for quick plug-in connection). Main power supply and control (DALI) made via IP68 connectors (supplied). Precision aiming device available and adjustable on top or bottom of LED module.

SPECIFICATION

To specify state:
 High power LED floodlight for sports lighting applications. Offering the best in class quality of light (5700K / TLCI94) and flicker free operation suitable for HDTV broadcasting. Other CRI (87/80/70) and CCT (4000K) available to satisfy all the applications needs. The floodlight has tilttable LED modules to optimise lighting designs and minimise the number of floodlights in an installation. Compact floodlight (28kg for three bricks version and 22kg for two bricks version), highly resistant (IP66, IK08), available with three excellent lighting distribution at both Ta25° and Ta35°C (other ambient temperature available on request).

As Thorn Altis Sport





LAMPS

LED

706-1277W

STANDARDS

 IP 66 IK 08 T_a25 T_a35

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Altis Sport 396 4000K & 5700K Ta 25°		
ALTIS S 396L105 NB CL1 L740 v2	27.6	96275190
ALTIS S 396L105 MB CL1 L740 v2	27.6	96275191
ALTIS S 396L105 WB CL1 L740 v2	27.6	96275192
ALTIS S 396L105 NB CL1 L757 v2	27.6	96275193
ALTIS S 396L105 MB CL1 L757 v2	27.6	96275194
ALTIS S 396L105 WB CL1 L757 v2	27.6	96275195
ALTIS S 396L105 NB CL1 L857 v2	27.6	96275196
ALTIS S 396L105 MB CL1 L857 v2	27.6	96275197
ALTIS S 396L105 WB CL1 L857 v2	27.6	96275198
ALTIS S 396L105 NB CL1 L957-TLCI90 v2	27.6	96275199
ALTIS S 396L105 MB CL1 L957-TLCI90 v2	27.6	96275200
ALTIS S 396L105 WB CL1 L957-TLCI90 v2	27.6	96275201
Altis Sport 396 Ta 25° remote gear control		
GT ALTIS IP21 396L105 CL1 v2	6.20	96275202
GB ALTIS IP65 396L105 CL1 v2	13.0	96275203
Altis Sport 264 4000K & 5700K Ta 25°		
ALTIS S 264L105 NB CL1 L740 v2	21.7	96275204
ALTIS S 264L105 MB CL1 L740 v2	21.7	96275205
ALTIS S 264L105 WB CL1 L740 v2	21.7	96275206
ALTIS S 264L105 NB CL1 L757 v2	21.7	96275207
ALTIS S 264L105 MB CL1 L757 v2	21.7	96275208
ALTIS S 264L105 WB CL1 L757 v2	21.7	96275209
ALTIS S 264L105 NB CL1 L857 v2	21.7	96275210
ALTIS S 264L105 MB CL1 L857 v2	21.7	96275211
ALTIS S 264L105 WB CL1 L857 v2	21.7	96275212
ALTIS S 264L105 NB CL1 L957-TLCI90 v2	21.7	96275213
ALTIS S 264L105 MB CL1 L957-TLCI90 v2	21.7	96275214
ALTIS S 264L105 WB CL1 L957-TLCI90 v2	21.7	96275215
Altis Sport 264 Ta 25° remote gear control		
GT ALTIS IP21 264L105 CL1 v2	6.2	96275216
GB ALTIS IP65 264L105 CL1 v2	8.4	96275217

Description	Wt (kg)	SAP Code
Altis Sport 396 4000K & 5700K Ta 35°		
ALTIS S 396L90 NB CL1 L740 T35 v2	27.6	96275246
ALTIS S 396L90 MB CL1 L740 T35 v2	27.6	96275247
ALTIS S 396L90 WB CL1 L740 T35 v2	27.6	96275248
ALTIS S 396L90 NB CL1 L757 T35 v2	27.6	96275249
ALTIS S 396L90 MB CL1 L757 T35 v2	27.6	96275250
ALTIS S 396L90 WB CL1 L757 T35 v2	27.6	96275251
ALTIS S 396L90 NB CL1 L857 T35 v2	27.6	96275252
ALTIS S 396L90 MB CL1 L857 T35 v2	27.6	96275253
ALTIS S 396L90 WB CL1 L857 T35 v2	27.6	96275254
ALTIS S 396L90 NB CL1 L957-90 T35 v2	27.6	96275255
ALTIS S 396L90 MB CL1 L957-TLCI90 T35 v2	27.6	96275256
ALTIS S 396L90 WB CL1 L957-TLCI90 T35 v2	27.6	96275257
Altis Sport 396 Ta 35° remote gear control		
GT ALTIS IP21 396L90 CL1 T35 v2	6.20	96275258
GB ALTIS IP65 396L90 CL1 T35 v2	13.0	96275259
Altis Sport 264 4000K & 5700K Ta 25°		
ALTIS S 264L90 NB CL1 L740 T35 v2	23.5	96275260
ALTIS S 264L90 MB CL1 L740 T35 v2	23.5	96275261
ALTIS S 264L90 WB CL1 L740 T35 v2	23.5	96275262
ALTIS S 264L90 NB CL1 L757 T35 v2	23.5	96275263
ALTIS S 264L90 MB CL1 L757 T35 v2	23.5	96275264
ALTIS S 264L90 WB CL1 L757 T35 v2	23.5	96275265
ALTIS S 264L90 NB CL1 L857 T35 v2	23.5	96275266
ALTIS S 264L90 MB CL1 L857 T35 v2	23.5	96275267
ALTIS S 264L90 WB CL1 L857 T35 v2	23.5	96275268
ALTIS S 264L90 NB CL1 L957-TLCI90 T35 v2	23.5	96275269
ALTIS S 264L90 MB CL1 L957-TLCI90 T35 v2	23.5	96275270
ALTIS S 264L90 WB CL1 L957-TLCI90 T35 v2	23.5	96275271
Altis Sport 264 Ta 35° remote gear control		
GT ALTIS IP21 264L90 CL1 T35 v2	6.2	96275272
GB ALTIS IP65 264L90 CL1 T35 v2	8.4	96275273

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Champion



www.thornlighting.co.uk/CHMP
www.thornlighting.ie/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

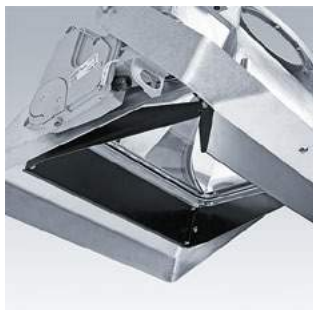
Body: die-cast aluminium (EN AC-47100), unpainted
 Glass: 4mm toughened
 Wiring / ignitor box: polyamide (66 VO Black: 20% glass fibre re-inforced).
 Screws: stainless steel

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

ORDERING GUIDE

ORDERING GUIDE
Lamps and control gear to be ordered separately

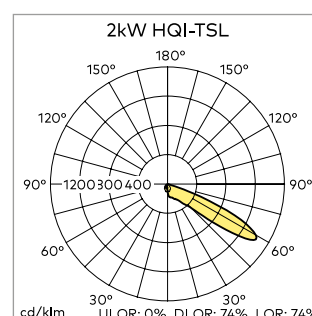
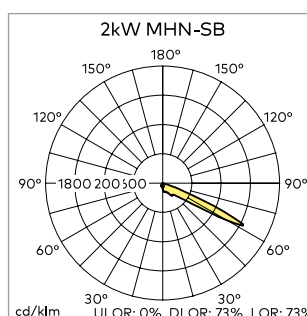
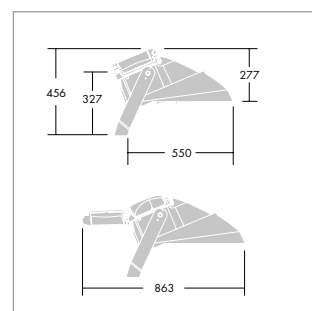
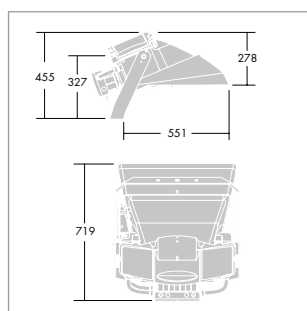
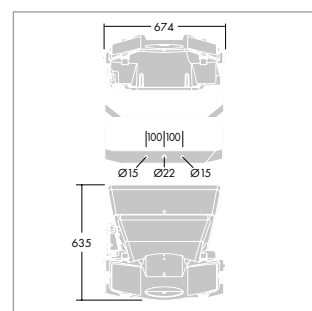
Description	Wt (kg)	SAP Code	Cat. No.
Champion 1kW			
CHPK1000HPITGB CHAMPION 1KW PHI WI		96263078	
CHPK1000HPITGT CHAMPION 1KW PHI WI	28.52	96263077	CPMP1GT
CHPK1000HPSGB CHAMPION 1KW WI	33.74	96263074	CP5G1GB
CHPK1000HPSGT CHAMPION 1KW WI	32.19	96263073	CP5G1GT
CHPK1000HQITGB CHAMPION 1KW O WI	33.61	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
CHPK2000HQITSLG CHAMPION 2KW O WI	30.97	96263089	CPMOS2GL
CHPK2000HQITSLGB CHAMPION 2KW WI	43.42	96263085	CPMOL2GB
CHPK2000HQITSLGL CHAMPION 2KW WI	30.97	96263086	
CHPK2000MHNFCGB CHAMPION 2KW PHI WI		96263091	CPMPF2GB
CHPK2000MHNFCGL CHAMPION 2KW PHI WI		96263092	
CHPK2000PMHGB CHAMPION 2KW PHI WI	43.17	96263082	CPMPL2GB
CHPK2000HQITSHFGB CHAMPION 2KW O WI	42.86	96263097	CPMOH2GB
CHPK2000HQITSHFGL CHAMPION 2KW O WI		96263098	
CHPK2000HQITSHFGT CHAMPION 2KW O WI		96263096	CPMOH2GT
CHPK2000MHNBSHOGB CHAMPION 2KW PHI WI	42.80	96263094	CPMPH2GB
CHPK2000MHNBSHOGGL CHAMPION 2KW PHI WI		96263095	
CHPK2000MHNBSHOGT CHAMPION 2KW PHI WI		96263093	CPMPH2GT
CHAMPION 2KW MHTS-XL CL1 WI	20.62	96265716	
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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LAMPS

	HIT-DE (MD)	K12s	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



Mundial C



www.thornlighting.co.uk/MUNC
www.thornlighting.ie/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

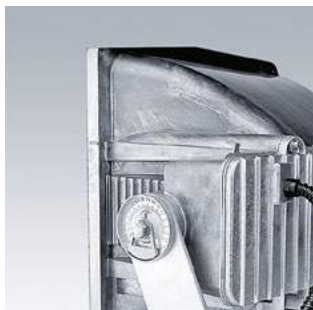
Stirrup fixed by single M20 bolt through 22mm Ø central hole, or twin bolts through 15mm Ø holes. Cable clamp supplied for 7.5-13mm Ø flexible cable. Gearless floodlight (geartray to be ordered separately). Hood accessory fixed via 4 screws.

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

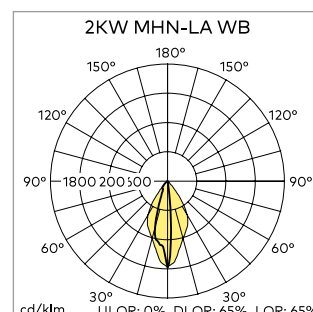
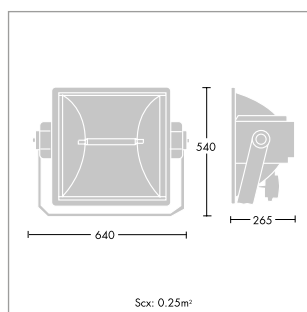
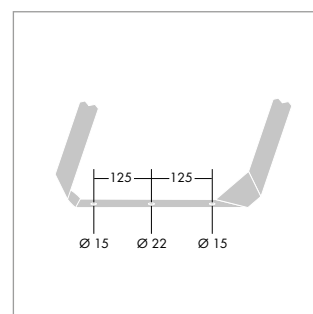


ORDERING GUIDE

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 C 2 kW			
MUNDIAL 2KW S/S EXT WB WI MHN-LA/L	16.75	96546791	MUCMPD2EXS
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 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 NI	16.60	96270876	
Mundial C Attachments and accessories			
MUNDIAL LV	3.92	96008489	MUCLV
MUNDIAL VS	5.00	96011307	MUCV

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Outdoor Lighting

WALL MOUNTED LUMINAIRES



148
Avenue Wall
300 II



149
Escort



150
EyeKon LED



152
Leopard



154
Piazza II LED

Avenue

Wall 300 II



www.thornlighting.co.uk/AVW2
www.thornlighting.ie/AVW2



- Sealed to IP65.
- Choice of colour temperatures:
3200K or 4200K

MATERIALS/FINISH

Body: cast aluminium, sanded grey
 (close to RAL7043)
 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

Elegant LED wall light,
 complementing the Avenue Deco post
 top lantern and bollard range



LAMPS		
	LED	14W

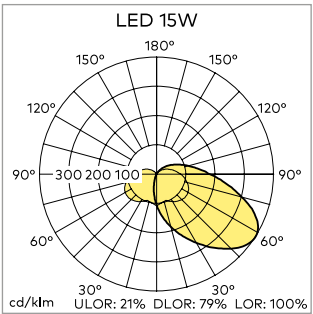
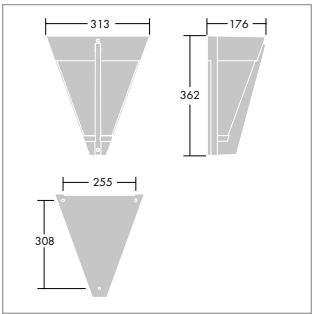
STANDARDS				
	IP65	IK09		

ORDERING GUIDE

Supplied complete with LEDs

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 12L35 740 CL2	3.42	96259038	AUW42K15

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 inside the back cover. For more information please visit our website
www.thornlighting.co.uk and simply search for our products.



Escort



www.thornlighting.co.uk/ESCT
www.thornlighting.ie/ESCT



LAMPS



LED

7-12W

STANDARDS



EN 60598

IP65

IK10

T_a25

850 °C



- Durable cast alloy construction for interior and exterior usage
- Emergency versions are also available (see Voyager Escort range)

MATERIALS/FINISH

Diffuser: opal polycarbonate with vandal resistant screws
Control gear: switch start

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. Cable gland and blanking grommets (2) supplied.

SPECIFICATION

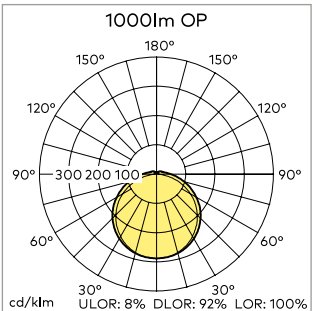
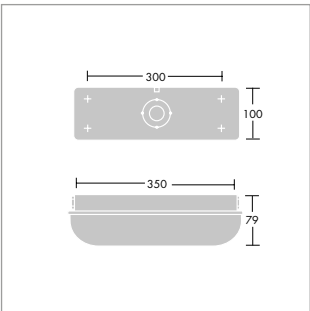
To specify state:
Self-contained exterior LED bulkhead for standard mains operation. Cast aluminium body and opal polycarbonate diffuser. IP65.
As Thorn Escort

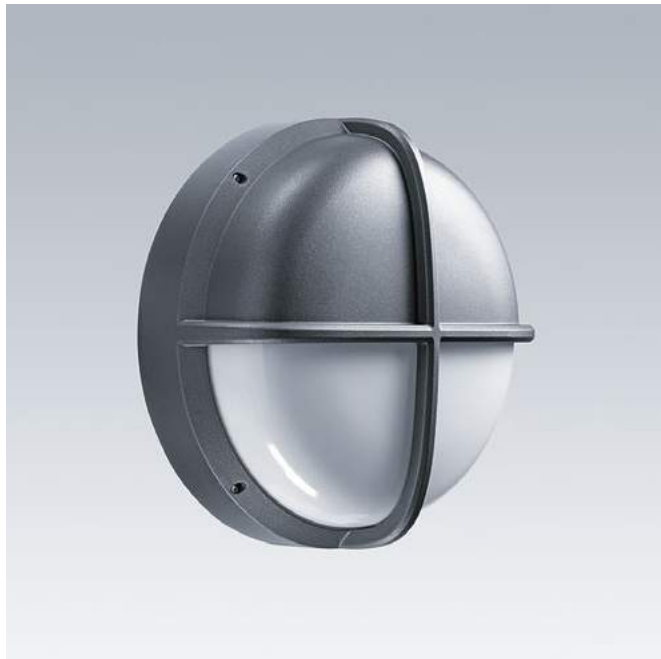
ORDERING GUIDE

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Escort			
ESCORT LED 800 OP WHI	1.20	96241510	ESL8
ESCORT LED 1000 OP WHI	1.20	96241059	ESL10

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- Available in two sizes, four designs and three colour options
- Lumen packages from 400 to 1550 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
Diffuser: opal polycarbonate
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 emergency/presence sensor/energy saving options.
As Thorn EyeKon LED

Energy efficient, robust and impact resistant LED bulkheads



LAMPS

LED 7-16W

STANDARDS

CE EN 60598 IP65 IK10 T_a25 T_a35
850 °C

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
EyeKon LED Small with bezel, anthracite			
EYE BE LED700-830 HF S ANT	2.30	96665954	EYS7ZB3K
EYE BE LED700-840 HF S ANT	2.30	96665862	EYS7ZB4K
EYE BE LED700-840 MWS S ANT	2.40	96665863	EYS7ZMB4K
EYE BE LED1100-830 HF S ANT	2.30	96665956	EYS11ZB3K
EYE BE LED1100-840 HF S ANT	2.30	96665878	EYS11ZB4K
EYE BE LED1100-840 MWS S ANT	2.40	96665879	EYS11ZMB4K
EyeKon LED Small with bezel, emergency, anthracite			
EYE BE LED700-840 HF E3 S ANT	2.60	96665864	EYS7ZEB4K
EYE BE LED700-840 MWS E3 S ANT	2.70	96665865	EYS7ZMEB4K
EYE BE LED1100-840 HF E3 S ANT	2.60	96665880	EYS11ZEB4K
EYE BE LED1100-840 MWS E3 S ANT	2.70	96665881	EYS11ZMEB4K
EyeKon LED Small with cross, anthracite			
EYE CR LED600-830 HF S ANT	2.50	96665953	EYS6ZC3K
EYE CR LED600-840 HF S ANT	2.50	96665858	EYS6ZC4K
EYE CR LED600-840 MWS S ANT	2.60	96665859	EYS6ZMC4K
EYE CR LED950-830 HF S ANT	2.50	96665955	EYS9ZC3K
EYE CR LED950-840 HF S ANT	2.50	96665874	EYS9ZC4K
EYE CR LED950-840 MWS S ANT	2.60	96665875	EYS9ZMC4K
EyeKon LED Small with cross, emergency, anthracite			
EYE CR LED600-840 HF E3 S ANT	2.80	96665860	EYS6ZEC4K
EYE CR LED600-840 MWS E3 S ANT	2.90	96665861	EYS6ZMEC4K
EYE CR LED950-840 HF E3 S ANT	2.80	96665876	EYS9ZEC4K
EYE CR LED950-840 MWS E3 S ANT	2.90	96665877	EYS9ZMEC4K
EyeKon LED Small with halo-visor, anthracite			
EYE HA LED400-830 HF S ANT	2.50	96665952	EYS4ZH3K
EYE HA LED400-840 HF S ANT	2.50	96665850	EYS4ZH4K
EYE HA LED400-840 MWS S ANT	2.60	96665851	EYS4ZMH4K
EYE HA LED700-830 HF S ANT	2.50	96628454	EYS7ZH3K
EYE HA LED700-840 HF S ANT	2.50	96665866	EYS7ZH4K
EYE HA LED700-840 MWS S ANT	2.60	96665867	EYS7ZMH4K
EyeKon LED Small with halo-visor, emergency, anthracite			
EYE HA LED400-840 HF E3 S ANT	2.80	96665852	EYS4ZEH4K
EYE HA LED400-840 MWS E3 S ANT	2.90	96665853	EYS4ZMEH4K
EYE HA LED700-840 HF E3 S ANT	2.80	96665868	EYS7ZEH4K
EYE HA LED700-840 MWS E3 S ANT	2.90	96665869	EYS7ZMEH4K
EyeKon LED Small with visor, anthracite			
EYE VS LED400-830 COR MWS RF S ANT	2.52	96666054	EYS4CMWV3K
EYE VS LED400-830 HF S ANT	2.50	96628455	EYS4ZV3K
EYE VS LED400-830 MWS RF S ANT	2.45	96666051	EYS4ZMWV3K



White, with bezel



Black, with halo-visor



Silver grey, with cross



Anthracite bollard, with visor

Description	Wt (kg)	SAP Code	Cat. No.
EYE VS LED400-840 HF S ANT	2.50	96665854	EYS4ZV4K
EYE VS LED400-840 MWS S ANT	2.60	96665855	EYS4ZMV4K
EYE VS LED700-830 COR MWS RF S ANT	3.46	96666060	EYS7CMWV3K
EYE VS LED700-830 HF S ANT	2.50	96628456	EYS7ZV3K
EYE VS LED700-830 MWS RF S ANT	3.40	96666057	EYS7ZMWV3K
EYE VS LED700-840 HF S ANT	2.50	96665870	EYS7ZV4K
EYE VS LED700-840 MWS S ANT	2.60	96665871	EYS7ZMV4K

Eyekon LED Small with visor, emergency, anthracite

EYE VS LED400-830 HF RF E3 S ANT	2.34	96666052	EYS4ZWEV3K
EYE VS LED400-830 HF RF E3TX S ANT	2.48	96666053	EYS4ZWEXV3K
EYE VS LED400-830 MWS E3 S ANT	2.45	96666049	EYS4ZMEV3K
EYE VS LED400-830 MWS E3TX S ANT	2.44	96666050	EYS4ZMEV3K
EYE VS LED400-840 HF E3 S ANT	2.80	96665856	EYS4ZEV4K
EYE VS LED400-840 MWS E3 S ANT	2.90	96665857	EYS4ZMEV4K
EYE VS LED700-830 HF E3 S ANT	2.42	96666055	EYS7ZEV3K
EYE VS LED700-830 HF E3TX S ANT	3.43	96666056	EYS7ZEXV3K
EYE VS LED700-830 HF RF E3 S ANT	3.58	96666058	EYS7ZWEV3K
EYE VS LED700-830 HF RF E3TX S ANT	3.58	96666059	EYS7ZWEXV3K
EYE VS LED700-840 HF E3 S ANT	2.80	96665872	EYS7ZEV4K
EYE VS LED700-840 MWS E3 S ANT	2.90	96665873	EYS7ZMEV4K

Eyekon LED Large with bezel, anthracite

EYE BE LED1150-830 HF L ANT	3.30	96665958	EYL11ZB3K
EYE BE LED1150-840 HF L ANT	3.30	96665894	EYL11ZB4K
EYE BE LED1150-840 MWS L ANT	3.40	96665895	EYL11ZMB4K
EYE BE LED1150-830 HF L ANT	3.30	96665961	EYL15ZB3K
EYE BE LED1150-840 HF L ANT	3.30	96665910	EYL15ZB4K
EYE BE LED1150-840 MWS L ANT	3.40	96665911	EYL15ZMB4K

Eyekon LED Large with bezel, emergency, anthracite

EYE BE LED1150-840 HF E3 L ANT	3.60	96665896	EYL11ZEB4K
EYE BE LED1150-840 MWS E3 L ANT	3.70	96665897	EYL11ZMEB4K
EYE BE LED1150-840 HF E3 L ANT	3.60	96665912	EYL15ZEB4K
EYE BE LED1150-840 MWS E3 L ANT	3.70	96665913	EYL15ZMEB4K

Eyekon LED Large with cross, anthracite

EYE CR LED1000-830 HF L ANT	3.50	96665959	EYL10ZC3K
EYE CR LED1000-840 HF L ANT	3.50	96665890	EYL10ZC4K
EYE CR LED1000-840 MWS L ANT	3.60	96665891	EYL10ZMC4K
EYE CR LED1350-830 HF L ANT	3.50	96665960	EYL13ZC3K
EYE CR LED1350-840 HF L ANT	3.50	96665906	EYL13ZC4K
EYE CR LED1350-840 MWS L ANT	3.60	96665907	EYL13ZMC4K

Eyekon LED Large with cross, emergency, anthracite

EYE CR LED1000-840 HF E3 L ANT	3.80	96665892	EYL10ZEC4K
EYE CR LED1000-840 MWS E3 L ANT	3.90	96665893	EYL10ZMEC4K
EYE CR LED1350-840 HF E3 L ANT	3.80	96665908	EYL13ZEC4K
EYE CR LED1350-840 MWS E3 L ANT	3.90	96665909	EYL13ZMEC4K

Eyekon LED Large with visor, anthracite

EYE VS LED750-830 HF L ANT	3.50	96628458	EYL7ZV3K
EYE VS LED750-840 HF L ANT	3.50	96665886	EYL7ZV4K
EYE VS LED750-840 MWS L ANT	3.60	96665887	EYL7ZMV4K
EYE VS LED1000-830 HF L ANT	3.50	96628459	EYL10ZV3K
EYE VS LED1000-840 HF L ANT	3.50	96665902	EYL10ZV4K
EYE VS LED1000-840 MWS L ANT	3.60	96665903	EYL10ZMV4K

Eyekon LED Large with visor, emergency, anthracite

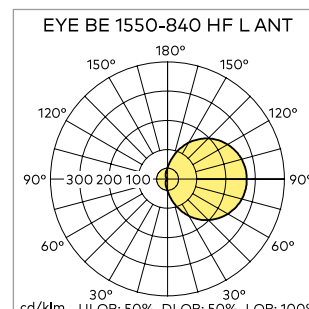
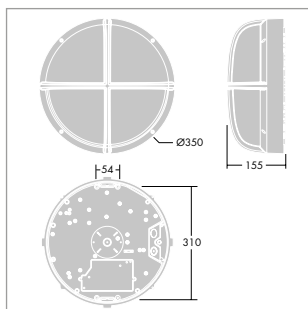
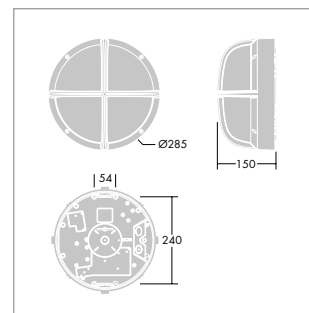
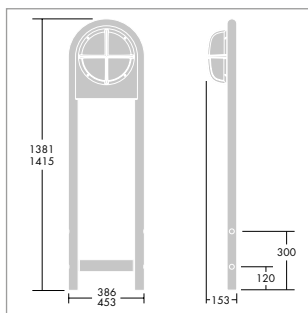
EYE VS LED750-830 COR MWS E3 L ANT	3.44	96666063	EYL7CMEV3K
EYE VS LED750-830 COR MWS E3TX L ANT	3.48	96666064	EYL7CMEV3K
EYE VS LED750-830 COR RF E3 L ANT	3.54	96666065	EYL7CWV3K
EYE VS LED750-830 COR RF E3TX L ANT	3.36	96666066	EYL7CWV3K
EYE VS LED750-830 MWS E3 L ANT	3.50	96666061	EYL7ZMEV3K
EYE VS LED750-830 MWS E3TX L ANT	3.46	96666062	EYL7ZMEV3K
EYE VS LED750-840 HF E3 L ANT	3.80	96665888	EYL7ZEV4K
EYE VS LED750-840 MWS E3 L ANT	3.90	96665889	EYL7ZMEV4K

Description	Wt (kg)	SAP Code	Cat. No.
EYE VS LED1000-830 COR MWS E3 L ANT	2.44	96666069	EYL10CMEV3K
EYE VS LED1000-830 COR MWS E3TX L ANT	3.17	96666070	EYL10CMEV3K
EYE VS LED1000-830 COR RF E3 L ANT	3.10	96666071	EYL10CWV3K
EYE VS LED1000-830 MWS E3 L ANT	3.47	96666067	EYL10ZMEV3K
EYE VS LED1000-830 MWS E3TX L ANT	2.28	96666068	EYL10ZMEV3K
EYE VS LED1000-840 COR RF E3TX L ANT	3.37	96666072	EYL10CWV4K
EYE VS LED1000-840 HF E3 L ANT	3.80	96665904	EYL10ZMEV4K
EYE VS LED1000-840 MWS E3 L ANT	3.90	96665905	EYL10ZMEV4K

Eyekon LED Bollards

EYE BOLLARD LARGE ANT	9.00	96207081	EYLBOLA
EYE BOLLARD SMALL ANT	9.00	96207085	EYSBOLA

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Leopard



www.thornlighting.co.uk/LPRD
www.thornlighting.ie/LPRD

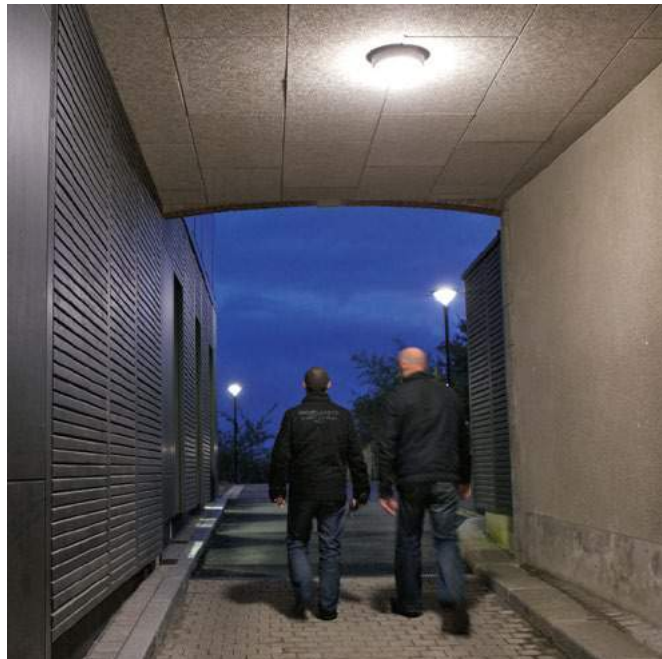


- Sealed to IP65 for exterior applications when supplied gasket fitted
- Energy saving sensor options, luminaire is activated when movement has been detected, then will switch off
- Integral emergency version as standard
- With sensor and emergency lighting options

MATERIALS/FINISH

Bodies: white polycarbonate
Diffusers: polycarbonate opal
Geartray: Pre-coated steel

Series of vandal resistant
LED luminaires for wall
or ceiling mounting



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 white base, tool-less gear tray fixation. With unique opal diffuser. As Thorn Leopard.

**LAMPS**

LED

10-13W

STANDARDSEN
60598

IP65

IK10

T_a25

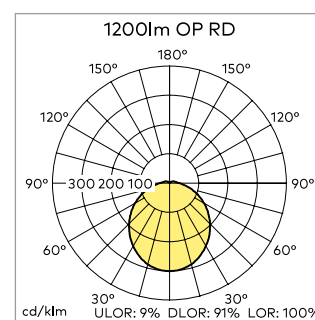
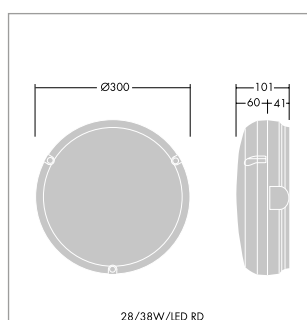
850 °C

**ORDERING GUIDE**

Supplied complete with lamp/LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Leopard LED			
LEOPARD 900 LED2 OP RD WH L840	0.73	96627757	LER9ZOPW
LEOPARD 900 LED2 MWS OP RD WH L840	0.81	96627758	LER9ZSOPW
LEOPARD 1200 LED2 E3 OP RD WH L840	1.18	96617047	LER12ZOPW
LEOPARD 1200 LED2 OP RD WH L840	0.95	96617046	LER12ZOPW
Leopard Accessories			
LEOPARD 1X28W TC-DD HF E3 CONVERSION KIT	1.50	96010367	LE128EKIT
LEOPARD PHOTOCELL KIT	0.30	96010365	LEPCKIT
LEOPARD VANDAL PROOF SCREW KIT	0.10	96010366	LEVPKIT

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NEW

Piazza II

LED



www.thornlighting.co.uk/PIA2
www.thornlighting.ie/PIA2



- Unique photometrics with 3m forward light throw and 12m spacing - ideal for perimeter walkways
- Very low upward light throw with less than 2.5% ULOR
- Excellent 116 lm/W efficiency
- Easy installation, back mounted, BESA and surface mounted conduit compatible

MATERIAL/FINISH

Back-plate: die-cast aluminium painted anthracite (RAL7016)
Body: polycarbonate in anthracite colour (RAL 7016)
Diffuser: textured clear polycarbonate

Path lighting with maximised efficiency and minimal light pollution



INSTALLATION/MOUNTING

Wall mountable. Ø20 mm cable entry via rear or side conduit entries. Recommended 3-4 metre mounting height.

SPECIFICATION

IP65, IK10 vandal resistant wall mounting luminaire in anthracite (RAL 7016) with less than 2.5% ULOR. In polycarbonate body & cast aluminium back-plate. 1690/2700 lumen output with fixed output or DALI dimmable control gear/ integral photo sensor/integral manual or Self/Addressable test 3 hour emergency lighting options. As Thorn Piazza II LED.

**LAMPS**

LED

106lm/W

STANDARDS

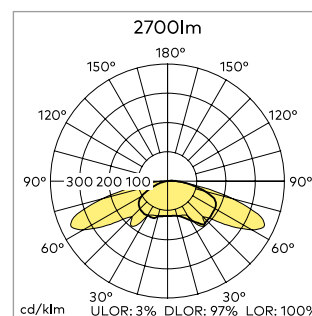
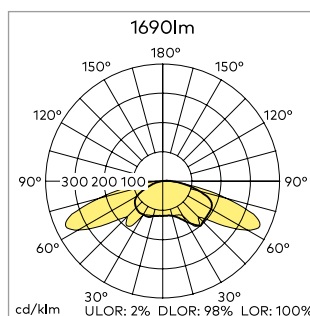
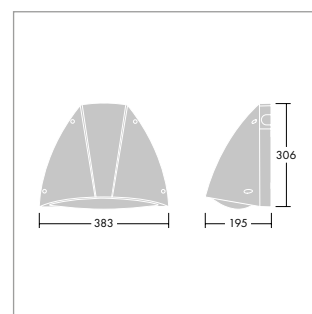
IP65 IK10

ORDERING GUIDE

Supplied complete with lamp/LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Piazza II LED			
PIAZZA II LED 1690-840 HF ANT	2.8	96666256	PZLL1690HF
PIAZZA II LED 1690-840 HF P ANT	2.8	96666259	PZLL1690HFPP
PIAZZA II LED 2700-840 HF ANT	2.8	96666261	PZLL12700F
PIAZZA II LED 2700-840 HF P ANT	2.8	96666264	PZLL2700HFPP
Piazza II LED, emergency			
PIAZZA II LED 1690-840 HF E3 ANT	3.1	96666257	PZLL1690HFE
PIAZZA II LED 1690-840 HF E3TX ANT	3.1	96666258	PZLL1690HFET
PIAZZA II LED 2700-840 HF E3 ANT	3.1	96666262	PZLL2700HFE
PIAZZA II LED 2700-840 HF E3TX ANT	3.1	96666263	PZLL2700HFET
Piazza II LED, dimmable			
PIAZZA II LED 1690-840 HFI-X EC ANT	2.8	96666260	PZLL1690HFEC
PIAZZA II LED 2700-840 HFI-X EC ANT	2.8	96666265	PZLL2700HFEC

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Outdoor Lighting

URBAN AMENITY LIGHTING



158
Urba Deco



162
Avenue D² LED



164
Avenue F2 LED



166
Legend



168
Plurio LED



172
FleXity



174
Gamma LED



176
Alumet Control
Direct LED



178
Alumet Stage II

Bollards



180
Urba Bollard



181
Thor Bollard



184
D-CO LED
Bollard

See also



104
Linn Bollard



204
Orus LED Bollard

Urba Deco



www.thornlighting.co.uk/URBD
www.thornlighting.ie/URBD



- Unique architectural shape with a sophisticated light signature
- A harmonious balance between performance and comfort
- A choice of 25 light distributions, please refer to page 205 for the Thorn R-PEC[®] LED options
- A choice of five mounting options offering versatility in lighting projects
- Low weight and pre-wired for easy installation and tool-free maintenance
- From 92 up to 128lm/W

MATERIALS/FINISH

Canopy and base: die cast aluminium (AS9U3, LM24 equivalent, EN AC-46000) sandy black close to RAL 9005

Glass: 6mm thick clear or prismatic glass

Arms: die cast aluminium sandy black close to RAL 9005, covered with a white or black shield in plastic ASA

INSTALLATION/MOUNTING

Suitable for post top, catenary, suspension and wall mounting. Recommended mounting height: post top 3 to 6m, suspended 3 to 8m, catenary 5 to 8m. Post Top: mounting on spigot/columns Ø60mm or Ø76mm: with 2 screws (Allen 4). Maintenance with access from above. Pre-wired versions (6m), supplied complete and ready to install, in a single box. Catenary and suspension: fixing through 34G, maintenance with access from below. Dedicated columns and brackets available.

SPECIFICATION

To specify state:
Decorative post top LED lantern with an unique lighting signature. Offered as post top, suspended and catenary variants, with up to 8 500 Llm. Wide optical offer with 24 light distributions, and a performance clear or a comfort prismatic variant. Post top mounting for diameter 60mm or 76mm. DALI and BP as standard, or LRT, also through wiring for the catenary. Offering a collection of dedicated supports. As Thorn Urba Deco.

Smart, sophisticated
architectural urban LED lighting



ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Urba Deco, MTP 250mA, Pedestrian walkway and cycle path, symmetrical optic			
UD 24L25-730 PWC-S CL CL1 6M MTP60-L	7.50	96272785	UD24L253KCPCSP
UD 24L25-730 PWC-S CL CL1 6M MTP60-T	7.50	96272784	UD24L253KCPCSP
UD 24L25-740 PWC-S CL CL1 6M MTP60-L	7.50	96272995	UD24L254KCPCSP
UD 24L25-740 PWC-S CL CL1 6M MTP60-T	7.50	96272994	UD24L254KCPCSP
Urba Deco, MTP 500mA, Pedestrian walkway and cycle path, symmetrical optic			
UD 24L50-730 PWC-S CL CL1 6M MTP60-L	7.50	96272789	UD24L503KCPCSP
UD 24L50-730 PWC-S CL CL1 6M MTP60-T	7.50	96272788	UD24L503KCPCSP
UD 24L50-740 PWC-S CL CL1 6M MTP60-L	7.50	96272999	UD24L504KCPCSP
UD 24L50-740 PWC-S CL CL1 6M MTP60-T	7.50	96272998	UD24L504KCPCSP
Urba Deco, MTP 250mA, Pedestrian walkway and cycle path, asymmetrical optic			
UD 24L25-730 PWC-A CL CL1 6M MTP60-L	7.50	96272791	UD24L253KCPCAP
UD 24L25-730 PWC-A CL CL1 6M MTP60-T	7.50	96272790	UD24L253KCPCAP
UD 24L25-740 PWC-A CL CL1 6M MTP60-L	7.50	96273001	UD24L254KCPCAP
UD 24L25-740 PWC-A CL CL1 6M MTP60-T	7.50	96273000	UD24L254KCPCAP
Urba Deco, MTP 500mA, Pedestrian walkway and cycle path, asymmetrical optic			
UD 24L50-730 PWC-A CL CL1 6M MTP60-L	7.50	96272795	UD24L503KCPCAP
UD 24L50-730 PWC-A CL CL1 6M MTP60-T	7.50	96272794	UD24L503KCPCAP
UD 24L50-740 PWC-A CL CL1 6M MTP60-L	7.50	96273005	UD24L504KCPCAP
UD 24L50-740 PWC-A CL CL1 6M MTP60-T	7.50	96273004	UD24L504KCPCAP
Urba Deco, MTP 500mA, Wide street, symmetric optic			
UD 24L50-730 WS-S CL CL1 6M MTP60-T	7.50	96272798	UD24L503KCWSCS
UD 24L50-740 WS-S CL CL1 6M MTP60-T	7.50	96273008	UD24L504KCWSCS
Urba Deco, MTP 500mA, Wide street, asymmetric optic			
UD 24L50-730 WS-A CL CL1 6M MTP60-T	7.50	96272802	UD24L503KCWSAP
UD 24L50-740 WS-A CL CL1 6M MTP60-T	7.50	96273012	UD24L504KCWSAP
Urba Deco, MTP 250mA CL, Wide street comfort, symmetrical optic			
UD 24L25-730 WSC-S CL CL1 6M MTP60-L	7.50	96272805	UD24L253KCWCSP
UD 24L25-730 WSC-S CL CL1 6M MTP60-T	7.50	96272804	UD24L253KCWCSP
UD 24L25-740 WSC-S CL CL1 6M MTP60-L	7.50	96273015	UD24L254KCWCSP
UD 24L25-740 WSC-S CL CL1 6M MTP60-T	7.50	96273014	UD24L254KCWCSP
Urba Deco, MTP 250mA PR, Wide street comfort, symmetrical optic			
UD 24L25-730 WSC-S PR CL1 6M MTP60-L	7.50	96273960	
UD 24L25-730 WSC-S PR CL1 6M MTP60-T	7.50	96272826	UD24L253KPWCSP
UD 24L25-730 WSC-S PR CL1 6M MTP76-L	7.85	96273964	
UD 24L25-740 WSC-S PR CL1 6M MTP60-L	7.50	96273962	
UD 24L25-740 WSC-S PR CL1 6M MTP60-T	7.50	96273036	UD24L254KPWCSP
UD 24L25-740 WSC-S PR CL1 6M MTP76-L	7.85	96273966	

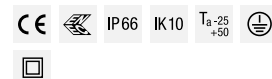


LAMPS

LED

20-72W

STANDARDS



Description	Wt (kg)	SAP Code	Cat. No.
Urba Deco, MTP 350mA PR, Wide street comfort, symmetrical optic			
UD 48L35-730 WSC-S PR CL1 6M MTP60-T	7.50	96272829	UD48L353KPWCST
UD 48L35-740 WSC-S PR CL1 6M MTP60-T	7.50	96273039	UD48L354KPWCST
Urba Deco, MTP 500mA CL, Wide street comfort, symmetrical optic			
UD 24L50-730 WSC-S CL CL1 6M MTP60-L	7.50	96272809	UD24L503KCWCST
UD 24L50-730 WSC-S CL CL1 6M MTP60-T	7.50	96272808	UD24L503KCWCST
UD 24L50-740 WSC-S CL CL1 6M MTP60-L	7.50	96273019	UD24L504KCWCST
UD 24L50-740 WSC-S CL CL1 6M MTP60-T	7.50	96273018	UD24L504KCWCST
Urba Deco, MTP 500mA PR, Wide street comfort, symmetrical optic			
UD 24L50-730 WSC-S PR CL1 6M MTP60-L	7.50	96273976	
UD 24L50-730 WSC-S PR CL1 6M MTP60-T	7.50	96272828	UD24L503KPWCST
UD 24L50-730 WSC-S PR CL1 6M MTP76-L	7.85	96273980	
UD 24L50-740 WSC-S PR CL1 6M MTP60-L	7.50	96273978	
UD 24L50-740 WSC-S PR CL1 6M MTP60-T	7.50	96273038	UD24L504KPWCST
UD 24L50-740 WSC-S PR CL1 6M MTP76-L	7.85	96273982	
Urba Deco, MTP 250mA CL, Wide street comfort, asymmetrical optic			
UD 24L25-730 WSC-A CL CL1 6M MTP60-L	7.50	96272811	UD24L253KCWCST
UD 24L25-730 WSC-A CL CL1 6M MTP60-T	7.50	96272810	UD24L253KCWCST
UD 24L25-740 WSC-A CL CL1 6M MTP60-L	7.50	96273021	UD24L254KCWCST
UD 24L25-740 WSC-A CL CL1 6M MTP60-T	7.50	96273020	UD24L254KCWCST
Urba Deco, MTP 250mA PR, Wide street comfort, asymmetrical optic			
UD 24L25-730 WSC-A PR CL1 6M MTP60-T	7.50	96272830	UD24L253KPWCST
UD 24L25-730 WSC-A PR CL1 6M MTP76-L	7.85	96273972	
UD 24L25-740 WSC-A PR CL1 6M MTP60-L	7.50	96273970	
UD 24L25-740 WSC-A PR CL1 6M MTP76-L	7.85	96273974	
Urba Deco, MTP 350mA PR, Wide street comfort, asymmetrical optic			
UD 48L35-730 WSC-A PR CL1 6M MTP60-T	7.50	96272833	UD48L353KPWCST
UD 48L35-740 WSC-A PR CL1 6M MTP60-T	7.50	96273043	UD48L354KPWCST
Urba Deco, MTP 500mA CL, Wide street comfort, asymmetrical optic			
UD 24L50-730 WSC-A CL CL1 6M MTP60-L	7.50	96272815	UD24L503KCWCST
UD 24L50-730 WSC-A CL CL1 6M MTP60-T	7.50	96272814	UD24L503KCWCST
UD 24L50-740 WSC-A CL CL1 6M MTP60-L	7.50	96273025	UD24L504KCWCST
UD 24L50-740 WSC-A CL CL1 6M MTP60-T	7.50	96273024	UD24L504KCWCST
Urba Deco, MTP 500mA PR, Wide street comfort, asymmetrical optic			
UD 24L50-730 WSC-A PR CL1 6M MTP60-L	7.50	96273984	
UD 24L50-730 WSC-A PR CL1 6M MTP60-T	7.50	96272832	UD24L503KPWCST
UD 24L50-730 WSC-A PR CL1 6M MTP76-L	7.85	96273988	
UD 24L50-740 WSC-A PR CL1 6M MTP60-L	7.50	96273986	
UD 24L50-740 WSC-A PR CL1 6M MTP60-T	7.50	96273042	UD24L504KPWCST
UD 24L50-740 WSC-A PR CL1 6M MTP76-L	7.85	96273990	

Description	Wt (kg)	SAP Code	Cat. No.
Urba Deco, MTP 500mA, Extra wide street comfort, symmetrical optic			
UD 48L50-730 EWSC-S CL CL1 6M MTP60-T	7.50	96272816	UD48L503KCWCST
UD 48L50-740 EWSC-S CL CL1 6M MTP60-T	7.50	96273026	UD48L504KCWCST
Urba Deco, MTP 500mA, Extra wide street comfort, asymmetrical optic			
UD 48L50-730 EWSC-A CL CL1 6M MTP60-T	7.50	96272817	UD48L503KCWCST
UD 48L50-740 EWSC-A CL CL1 6M MTP60-T	7.50	96273027	UD48L504KCWCST
Urba Deco, MTP 500mA, Extra wide road, symmetric optic			
UD 24L50-730 EWR-S CL CL1 6M MTP60-T	7.50	96272818	UD24L503KCXCST
Urba Deco, MTP 500mA, Extra wide road, asymmetric optic			
UD 24L50-730 EWR-A CL CL1 6M MTP60-T	7.50	96272819	UD24L503KCXCST
UD 24L50-740 EWR-A CL CL1 6M MTP60-T	7.50	96273029	UD24L504KCXCST
Urba Deco, MTP 350mA, Street comfort, symmetric optic			
UD 48L35-730 SC-S CL CL1 6M MTP60-T	7.50	96272824	UD48L353KCSCST
UD 48L35-740 SC-S CL CL1 6M MTP60-T	7.00	96273034	UD48L354KCSCST
Urba Deco, MTP 500mA, Street comfort, symmetric optic			
UD 24L50-730 SC-S CL CL1 6M MTP60-T	7.50	96272822	UD24L503KCSCST
UD 24L50-740 SC-S CL CL1 6M MTP60-T	7.50	96273032	UD24L504KCSCST
Urba Deco, MTP 350mA, Street comfort, asymmetric optic			
UD 48L35-730 SC-A CL CL1 6M MTP60-T	7.50	96272825	UD48L353KCSCST
UD 48L35-740 SC-A CL CL1 6M MTP60-T	7.50	96273035	UD48L354KCSCST
Urba Deco, MTP 500mA, Street comfort, asymmetric optic			
UD 24L50-730 SC-A CL CL1 6M MTP60-T	7.50	96272823	UD24L503KCSCST
UD 24L50-740 SC-A CL CL1 6M MTP60-T	7.50	96273033	UD24L504KCSCST
Urba Deco, MSU 250mA, Pedestrian walkway and cycle path, asymmetrical optic			
UD 24L25-730 PWC-A CL CL1 MSU-T	6.70	96272855	UD24L253KPCST
UD 24L25-740 PWC-A CL CL1 MSU-T	6.70	96273069	UD24L254KPCST
Urba Deco, MSU 500mA, Pedestrian walkway and cycle path, asymmetrical optic			
UD 24L50-730 PWC-A CL CL1 MSU-T	6.70	96272857	UD24L503KPCST
UD 24L50-740 PWC-A CL CL1 MSU-T	6.70	96273071	UD24L504KPCST
Urba Deco, MSU 500mA, Wide street, asymmetric optic			
UD 24L50-730 WS-A CL CL1 MSU-T	6.70	96272861	UD24L503KCWSCST
UD 24L50-740 WS-A CL CL1 MSU-T	6.70	96273075	UD24L504KCWSCST
Urba Deco, MSU 250mA CL, Wide street comfort, asymmetrical optic			
UD 24L25-730 WSC-A CL CL1 MSU-T	6.70	96272864	UD24L253KCWCST
UD 24L25-740 WSC-A CL CL1 MSU-T	6.70	96273078	UD24L254KCWCST
Urba Deco, MSU 250mA PR, Wide street comfort, asymmetrical optic			
UD 24L25-730 WSC-A PR CL1 MSU-T	6.70	96272879	UD24L253KPWCST
UD 24L25-740 WSC-A PR CL1 MSU-T	6.70	96273093	UD24L254KPWCST

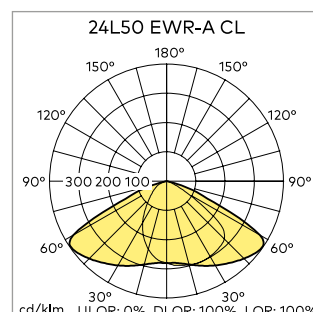
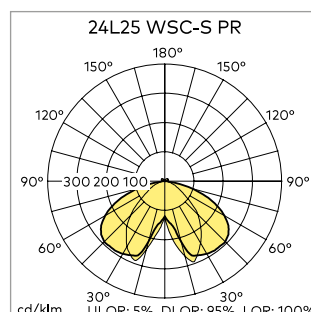
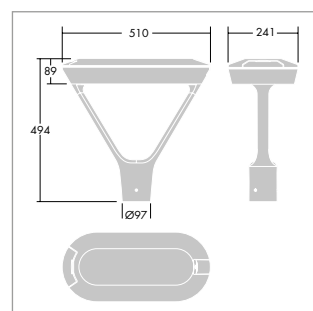
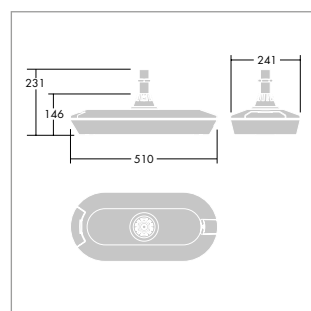
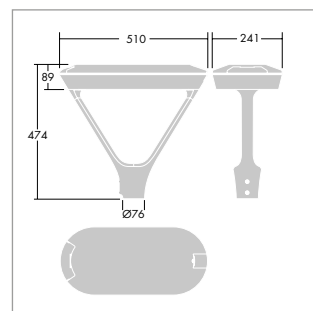
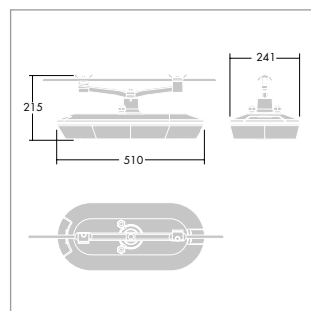
Urba Deco



www.thornlighting.co.uk/URBD
www.thornlighting.ie/URBD

Description	Wt (kg)	SAP Code	Cat. No.
Urba Deco, MSU 350mA PR, Wide street comfort, asymmetrical optic			
UD 48L35-730 WSC-A PR CL1 MSU-T	6.70	96272881	UD48L353KPWCAST
UD 48L35-740 WSC-A PR CL1 MSU-T	6.70	96273095	UD48L354KPWCAST
Urba Deco, MSU 500mA PR, Wide street comfort, asymmetrical optic			
UD 24L50-730 WSC-A PR CL1 MSU-T	6.70	96272880	UD24L503KPWCAST
UD 24L50-740 WSC-A PR CL1 MSU-T	6.70	96273094	UD24L504KPWCAST
Urba Deco, MSU 500mA, Extra wide street comfort, asymmetrical optic			
UD 48L50-730 EWSC-A CL CL1 MSU-T	6.70	96272869	UD48L503KCWCAST
UD 48L50-740 EWSC-A CL CL1 MSU-T	6.70	96273083	UD48L504KCWCAST
Urba Deco, MSU 500mA, Extra wide road, asymmetric optic			
UD 24L50-730 EWR-A CL CL1 MSU-T	6.70	96272871	UD24L503KCXRAST
UD 24L50-740 EWR-A CL CL1 MSU-T	6.70	96273085	UD24L504KCXRAST
Urba Deco, MSU 500mA, Street comfort, asymmetric optic			
UD 24L50-730 SC-A CL CL1 MSU-T	6.70	96272875	UD24L503KCSCAST
UD 24L50-740 SC-A CL CL1 MSU-T	6.70	96273089	UD24L504KCSCAST
Urba Deco, MCA 500mA, Narrow road, symmetric optic			
UD 24L50-730 NR-S CL CL1 MCA-T	7.00	96272882	UD24L503KCNRSAT
UD 24L50-740 NR-S CL CL1 MCA-T	7.00	96273096	UD24L504KCNRSAT
UD 48L50-730 NR-S CL CL1 MCA-T	7.00	96272883	UD48L503KCNRSAT
UD 48L50-740 NR-S CL CL1 MCA-T	7.00	96273097	UD48L504KCNRSAT

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Avenue

D² LED



www.thornlighting.co.uk/AVD2
www.thornlighting.ie/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
- From 93 up to 106lm/W

MATERIALS/FINISH

Base and arms: die cast aluminium.
 Canopy: spun aluminium.
 Finish: powder coated dark sandy grey 900 (close to RAL 7043).
 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 21-40W 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

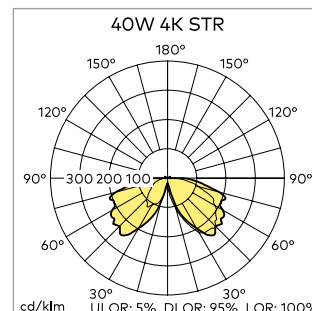
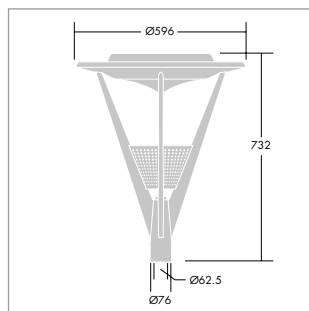
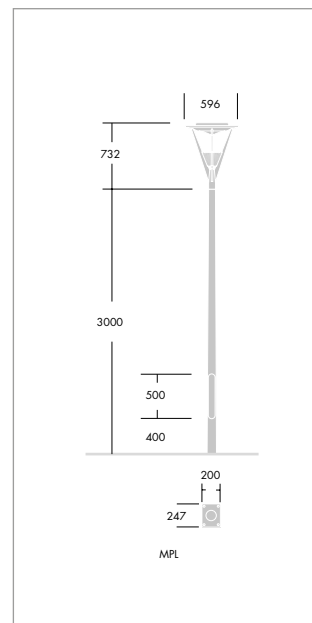
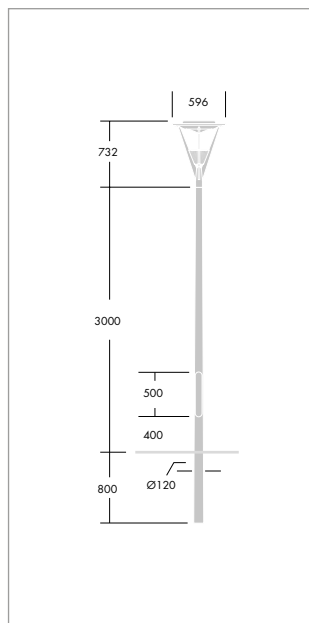
CE EN 60598 IP66 IK08

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Avenue D² LED Symmetrical optic, copper lampshield			
AVN D2 18L35 R/S BPSW CL1 D60 L740 CU	8.60	96261392	AUD24K20B8RC
AVN D2 18L50 R/S BPSW CL1 D60 L740 CU	8.60	96261393	AUD24K30B8RC
AVN D2 18L70 R/S BPSW CL1 D60 L740 CU	8.60	96261394	AUD24K40B8RC
Avenue D² LED Symmetrical optic, stainless steel lampshield			
AVN D2 18L35 R/S BPSW CL1 D60 L740 RS	8.60	96261395	AUD24K20B8RS
AVN D2 18L50 R/S BPSW CL1 D60 L740 RS	8.60	96261396	AUD24K30B8RS
AVN D2 18L70 R/S BPSW CL1 D60 L740 RS	8.60	96261397	AUD24K40B8RS
Avenue D² LED Asymmetrical (street) optic, copper lampshield			
AVN D2 18L35 WST BPSW CL1 D60 L740 CU	8.60	96261398	AUD24K20B8SC
AVN D2 18L50 WST BPSW CL1 D60 L740 CU	8.60	96261399	AUD24K30B8SC
AVN D2 18L70 WST BPSW CL1 D60 L740 CU	8.60	96261400	AUD24K40B8SC
Avenue D² LED Asymmetrical (street) optic, stainless steel lampshield			
AVN D2 18L35 WST BPSW CL1 D60 L740 RS	8.60	96261401	AUD24K20B8SS
AVN D2 18L50 WST BPSW CL1 D60 L740 RS	8.60	96261402	AUD24K30B8SS
AVN D2 18L70 WST BPSW CL1 D60 L740 RS	8.60	96261403	AUD24K40B8SS
Avenue D² LED Accessories			
AVENUE D BRA MWA TX ANT	4.00	96005422	J136825

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Avenue

F2 LED



www.thornlighting.co.uk/AVFL
www.thornlighting.ie/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
- From 88 up to 95lm/W

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 HO5 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 21-40W LED, powder coated dark grey finish, with street or symmetrical optics, integrated dimming system and coordinated decorative columns.
 As Thorn Avenue F2 LED.



LAMPS

LED

21-42W

STANDARDS



EN 60598

IP66

IK08

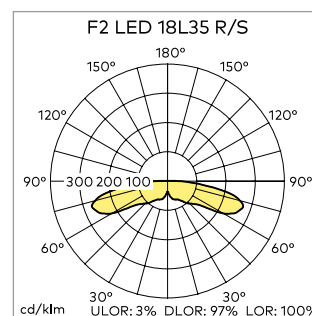
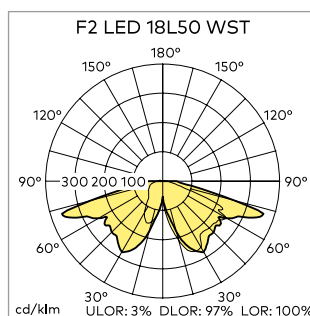
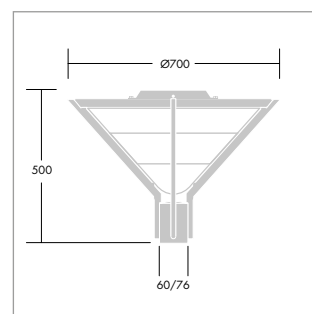


ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Avenue F2 LED with power reduction			
AVN F2 LED 18L35 R/S BPSW CL1 D60 L730	9.00	96265462	
AVN F2 LED 18L35 R/S BPSW CL1 D60 L740	9.00	96260128	
AVN F2 LED 18L35 R/S BPSW CL1 D76 L730	9.00	96265465	
AVN F2 LED 18L50 R/S BPSW CL1 D60 L730	9.00	96265461	
AVN F2 LED 18L50 R/S BPSW CL1 D60 L740	9.00	96260127	AUF30B860
AVN F2 LED 18L50 R/S BPSW CL1 D76 L730	9.00	96265466	
AVN F2 LED 18L70 R/S BPSW C1 PM D76 L730	9.10	96265444	
AVN F2 LED 18L70 R/S BPSW CL1 D60 L730	9.05	96265447	
AVN F2 LED 18L70 R/S BPSW CL1 D60 L740	9.00	96260059	AUF40B860
AVN F2 LED 18L70 R/S BPSW CL1 D76 L730	9.10	96265443	
AVN F2 LED 18L70 R/S BPSW CL1 D76 L740	9.10	96260021	AUF40B876
AVN F2 LED 18L70 R/S BPSW CL1 PM D76L740	9.10	96260022	AUF40B8M76
Avenue F2 LED with power reduction, street optic			
AVN F2 LED 18L35 WST BPSW CL1 D60 L730	9.30	96265463	
AVN F2 LED 18L35 WST BPSW CL1 D60 L740	9.30	96260231	
AVN F2 LED 18L50 WST BPSW CL1 D60 L730	9.30	96265464	
AVN F2 LED 18L50 WST BPSW CL1 D60 L740	9.30	96260232	
AVN F2 LED 18L70 WST BPSW CL1 D60 L730	9.30	96265454	
AVN F2 LED 18L70 WST BPSW CL1 D60 L740	9.30	96260096	
AVN F2 LED 18L70 WST BPSW CL1 D76 L730	9.20	96265445	
AVN F2 LED 18L70 WST BPSW CL1 D76 L740	9.20	96260033	AUF40B8S76
AVN F2 LED 18L70 WST BPSW CL1 PM D76L730	9.30	96265446	
AVN F2 LED 18L70 WST CL1 PM D76 L740	9.30	96260034	AUF40B8MS76

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Legend



www.thornlighting.co.uk/LGNC
www.thornlighting.ie/LGNC



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
- From 108 up to 115lm/W

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 34G 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 O.
 As Thorn Legend.





Suspended version



LAMPS

LED

58-84W

STANDARDS

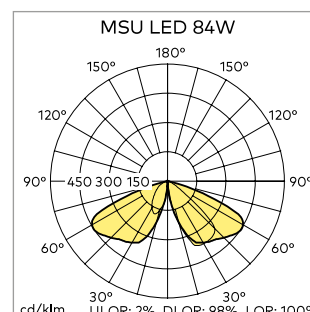
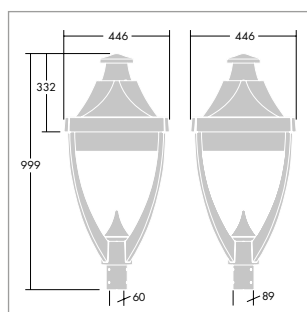
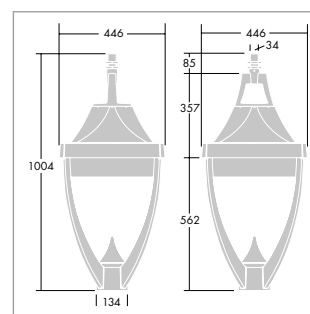
CE EN 60598 IP65 IK08

ORDERING GUIDE

All LED version supplied with LEDs. All HID versions supplied complete with lamps.

Description	Wt (kg)	SAP Code	Cat. No.
Legend Suspended, LED			
LEG MSU LED 36L50 RC 730 BP PM CL1 D34G	16.50	96262561	LG3K58B8M
LEG MSU LED 36L50 RC 740 BP PM CL1 D34G	16.50	96262560	LG4K58B8M
LEGEND MSU LED 36L50 RC 730 BP CL1 D34G	16.50	96262559	LG3K58B8
LEGEND MSU LED 36L50 RC 730 CL1 D34G	16.50	96262557	LG3K58
LEGEND MSU LED 36L50 RC 740 BP CL1 D34G	16.50	96262558	LG4K58B8
LEGEND MSU LED 36L50 RC 740 CL1 D34G	16.50	96262556	LG4K58
LEG MSU LED 36L70 RC 730 BP PM CL1 D34G	16.50	96262567	LG3K84B8M
LEG MSU LED 36L70 RC 740 BP PM CL1 D34G	16.50	96262566	LG4K84B8M
LEGEND MSU LED 36L70 RC 730 BP CL1 D34G	16.50	96262565	LG3K84B8
LEGEND MSU LED 36L70 RC 730 CL1 D34G	16.50	96262563	LG3K84
LEGEND MSU LED 36L70 RC 740 BP CL1 D34G	16.50	96262564	LG4K84B8
LEGEND MSU LED 36L70 RC 740 CL1 D34G	16.50	96262562	LG4K84
Legend Post top, closed optic, LED			
LEG MTP LED 36L50 RC 730 BP PM CL1 D60	17.50	96262578	LG3K58B8MPT
LEG MTP LED 36L50 RC 740 BP PM CL1 D60	17.50	96262579	LG4K58B8MPT
LEGEND MTP LED 36L50 RC 730 BP CL1 D60	17.50	96262576	LG3K58B8PT
LEGEND MTP LED 36L50 RC 740 BP CL1 D60	17.50	96262577	LG4K58B8PT
LEG MTP LED 36L70 RC 730 BP PM CL1 D60	17.50	96262582	LG3K84B8MPT
LEG MTP LED 36L70 RC 740 BP PM CL1 D60	17.50	96262583	LG4K84B8MPT
LEGEND MTP LED 36L70 RC 730 BP CL1 D60	17.50	96262580	LG3K84B8PT
LEGEND MTP LED 36L70 RC 740 BP CL1 D60	17.50	96262581	LG4K84B8PT
Legend LED retrofits, closed optic			
LEGEND GT LED 36L50 RC 730 BP CL1	3.10	96262736	LG3K58GTBP
LEGEND GT LED 36L50 RC 730 CL1	3.10	96262732	LG4K58GT
LEGEND GT LED 36L50 RC 740 BP CL1	3.10	96262735	LG4K58GTBP
LEGEND GT LED 36L50 RC 740 CL1	3.10	96262731	LG4K58GT
LEGEND GT LED 36L70 RC 730 BP CL1	3.10	96262738	LG3K84GTBP
LEGEND GT LED 36L70 RC 730 CL1	3.10	96262734	LG3K84GT
LEGEND GT LED 36L70 RC 740 BP CL1	3.10	96262737	LG4K84GTBP
LEGEND GT LED 36L70 RC 740 CL1	3.10	96262733	LG4K84GT

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Plurio

LED



www.thornlighting.co.uk/PLRL
www.thornlighting.ie/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
- From 80 up to 102lm/W

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 bicolour 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 (H05VVf2x1.5)
 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 21-60W 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

21-60W

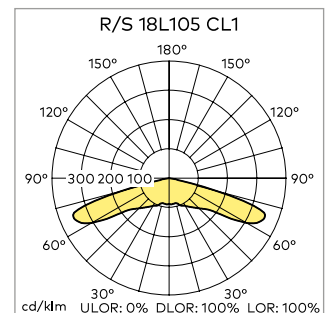
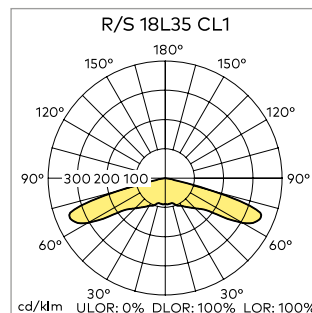
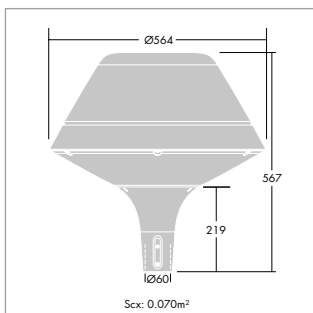
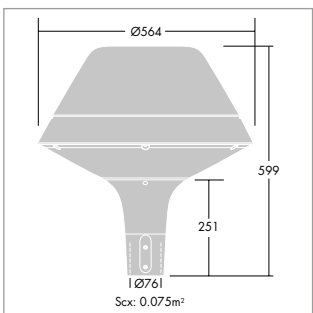
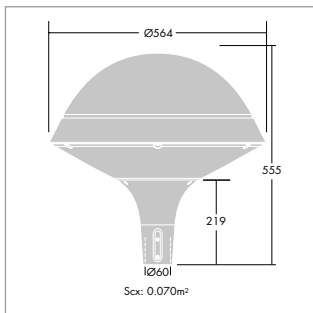
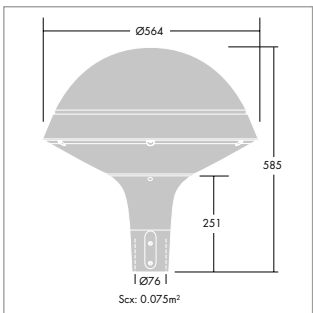
STANDARDS



EN 60598

IP66

IK08



Plurio

LED



www.thornlighting.co.uk/PLRL
www.thornlighting.ie/PLRL

ORDERING GUIDE

Supplied complete with LEDs.

Description	Wt (kg)	SAP Code	Cat. No.
Plurio LED Symmetrical optic, original canopy			
PLU O LED 18L35 R/S BP CL1 D60 L730	7.20	96265497	
PLU O LED 18L35 R/S BP CL1 D76 L730	7.50	96265498	
PLU O LED 18L35 R/S BPSW CL1 D60 L740	7.20	96260708	PL20B860
PLU O LED 18L35 R/S BPSW CL1 D76 L740	7.50	96260709	PL20B876
PLU O LED 18L50 R/S BP CL1 D60 L730	7.20	96265511	
PLU O LED 18L50 R/S BP CL1 D76 L730	7.50	96265512	
PLU O LED 18L50 R/S BPSW CL1 D60 L740	7.20	96260722	PL30B860
PLU O LED 18L50 R/S BPSW CL1 D76 L740	7.50	96260723	PL30B876
PLU O LED 18L70 R/S BP CL1 D60 L730	7.20	96265469	
PLU O LED 18L70 R/S BP CL1 D76 L730	9.80	96265471	
PLU O LED 18L70 R/S BP CL1 SIL D60 L730	7.20	96265858	
PLU O LED 18L70 R/S BPSW CL1 D60 L740	7.20	96260674	PL40B860
PLU O LED 18L70 R/S BPSW CL1 D76 L740	9.80	96260676	PL40B876
PLU O 18L105 R/S BPSW CL1 D60 L730	7.80	96272420	PL63603K
PLU O 18L105 R/S BPSW CL1 D60 L740	7.80	96272421	PL63604K
PLU O 18L105 R/S BPSW CL1 D76 L730	8.10	96272422	PL63763K
PLU O 18L105 R/S BPSW CL1 D76 L740	8.10	96272424	PL63764K
PLU O 18L105 R/S BPSW CL1 GRY D60 L730	7.80	96272427	PL6376S3K
Plurio LED Symmetrical optic, original bi-colour canopy			
PLU O LED 18L70 R/S BP CL1 D76 L730 S/G	7.50	96265860	
PLU O LED 18L70 R/S BPSW CL1 D76 L740 S/	7.50	96260684	PL40B876S
PLU O LED 18L70 R/S BPSW CL1 S/G D60 L74	7.20	96260682	PL40B860S
PLU O 18L105 R/S BPSW CL1 D76 L730 S/G	8.10	96272423	PL6360S3K
PLU O 18L105 R/S BPSW CL1 D76 L740 S/G	8.10	96272425	PL6360S4K
PLU O 18L105 R/S BPSW CL1 S/G D60 L740	7.80	96272426	PL6376S4K
Plurio LED Symmetrical optic, round canopy			
PLU R LED 18L35 R/S BP CL1 D76 L730	7.50	96265505	
PLU R LED 18L35 R/S BPSW CL1 D76 L740	7.50	96260716	PL20RB876
PLU R LED 18L50 R/S BP CL1 D76 L730	7.50	96265519	
PLU R LED 18L50 R/S BPSW CL1 D76 L740	7.50	96260730	PL30RB876
PLU R LED 18L70 R/S BP CL1 D60 L730	7.20	96265485	
PLU R LED 18L70 R/S BP CL1 D76 L730	7.50	96265487	
PLU R LED 18L70 R/S BPSW CL1 D60 L740	7.20	96260690	PL40RB860
PLU R LED 18L70 R/S BPSW CL1 D76 L740	7.50	96260698	PL40RB876
PLU R 18L105 R/S BPSW CL1 D60 L730	7.80	96272439	PL63R603K
PLU R 18L105 R/S BPSW CL1 D60 L740	7.80	96272440	PL63R604K
PLU R 18L105 R/S BPSW CL1 D76 L730	8.10	96272441	PL63R763K
PLU R 18L105 R/S BPSW CL1 D76 L740	8.10	96272442	PL63R764K
Plurio LED Street optic, original canopy			
PLU O LED 18L35 WST BP CL1 D76 L730	7.50	96265499	
PLU O LED 18L35 WST BPSW CL1 D76 L740	7.50	96260710	PL20B8S76
PLU O LED 18L50 WST BP CL1 D76 L730	7.50	96265513	
PLU O LED 18L50 WST BPSW CL1 D76 L740	7.50	96260724	PL30B8S76
PLU O LED 18L70 WST BP CL1 D60 L730	7.20	96265470	
PLU O LED 18L70 WST BP CL1 D76 L730	7.50	96265472	
PLU O LED 18L70 WST BP CL1 SIL D60 L730	7.20	96265859	
PLU O LED 18L70 WST BPSW CL1 D60 L740	7.20	96260675	PL40B8S60
PLU O LED 18L70 WST BPSW CL1 D76 L740	7.50	96260677	PL40B8S76
PLU O 18L105 NST BPSW CL1 D60 L730	7.80	96272352	PLN63603K
PLU O 18L105 NST BPSW CL1 D60 L740	7.80	96272353	PLN63604K
PLU O 18L105 NST BPSW CL1 D76 L730	8.10	96272354	PLN63763K
PLU O 18L105 NST BPSW CL1 D76 L740	8.10	96272356	PLN63764K
PLU O 18L105 NST BPSW CL1 SIL D60 L730	7.80	96272359	PLN6360S3K
PLU O 18L105 WST BPSW CL1 D60 L730	7.80	96272381	PLW63603K
PLU O 18L105 WST BPSW CL1 D60 L740	7.80	96272392	PLW63604K
PLU O 18L105 WST BPSW CL1 D76 L730	8.10	96272393	PLW63763K
PLU O 18L105 WST BPSW CL1 D76 L740	8.10	96272395	PLW63764K
PLU O 18L105 WST BPSW CL1 GRY D60 L730	7.80	96272398	PLW6376S3K

Post top LED lanterns combining high performance with obtrusive light avoidance; ideal for residential and urban areas

Description	Wt (kg)	SAP Code	Cat. No.
Plurio LED Street optic, original bi-colour canopy			
PLU O LED 18L70 WST BP CL1 D76 L730 S/G	7.50	96265861	
PLU O LED 18L70 WST BPSW CL1 D76 L740 S/	7.50	96260685	PL40B8S76S
PLU O LED 18L70 WST BPSW CL1 S/G D60 L74	7.20	96260683	PL40B8S60S
PLU O 18L105 NST BPSW CL1 D76 L730 S/G	8.10	96272355	PLN6376S3K
PLU O 18L105 NST BPSW CL1 D76 L740 S/G	8.10	96272357	PLN6376S4K
PLU O 18L105 NST BPSW CL1 S/G D60 L740	7.80	96272358	PLN6360S4K
PLU O 18L105 WST BPSW CL1 D76 L730 S/G	8.10	96272394	PLW6360S3K
PLU O 18L105 WST BPSW CL1 D76 L740 S/G	8.10	96272396	PLW6360S4K
PLU O 18L105 WST BPSW CL1 S/G D60 L740	7.80	96272397	PLW6376S4K
Plurio LED Street optic, round canopy			
PLU R LED 18L35 WST BP CL1 D60 L730	7.20	96265504	
PLU R LED 18L35 WST BP CL1 D76 L730	7.50	96265506	
PLU R LED 18L35 WST BPSW CL1 D60 L740	7.20	96260715	PL20RB8S60
PLU R LED 18L35 WST BPSW CL1 D76 L740	7.50	96260717	PL20RB8S76
PLU R LED 18L50 WST BP CL1 D60 L730	7.20	96265518	
PLU R LED 18L50 WST BP CL1 D76 L730	7.50	96265520	
PLU R LED 18L50 WST BPSW CL1 D60 L740	7.20	96260729	PL30RB8S60
PLU R LED 18L50 WST BPSW CL1 D76 L740	7.50	96260731	PL30RB8S76
PLU R LED 18L70 WST BP CL1 D60 L730	7.20	96265486	
PLU R LED 18L70 WST BP CL1 D76 L730	7.50	96265488	
PLU R LED 18L70 WST BPSW CL1 D60 L740	7.20	96260691	PL40RB8S60
PLU R LED 18L70 WST BPSW CL1 D76 L740	7.50	96260699	PL40RB8S76
PLU R 18L105 NST BPSW CL1 D60 L730	7.80	96272371	PLN63R603K
PLU R 18L105 NST BPSW CL1 D60 L740	7.80	96272372	PLN63R604K
PLU R 18L105 NST BPSW CL1 D76 L730	8.10	96272373	PLN63R763K
PLU R 18L105 NST BPSW CL1 D76 L740	8.10	96272374	PLN63R764K
PLU R 18L105 WST BPSW CL1 D60 L730	7.80	96272410	PLW63R603K
PLU R 18L105 WST BPSW CL1 D60 L740	7.80	96272411	PLW63R604K
PLU R 18L105 WST BPSW CL1 D76 L730	8.10	96272412	PLW63R763K
PLU R 18L105 WST BPSW CL1 D76 L740	8.10	96272413	PLW63R764K

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www.thornlighting.co.uk/FLEX
www.thornlighting.ie/FLEX



- Modern, discreet and versatile post top LED lantern which is easy to integrate into the cityscape and residential areas
- 100 000 hour maintenance free lifetime for fast return on investment and low total cost of ownership
- LED light source, dedicated optics and integrated Bi-power dimming for energy savings. Compatible with DALI, 1-10V, RF, Power Line, Minicell, Nema, Presence Detection
- Two enclosures: clear for optimised performance and diffuse for optimised comfort
- From 80 up to 100lm/W

MATERIALS/FINISH

Canopy and base: die cast aluminium (EN AC-46100), powder coated dark grey (close to RAL 7043) or light grey (close to RAL 9006) finish
 Flat enclosures: clear UV stabilised polycarbonate diffuser

INSTALLATION/MOUNTING

Recommended mounting height: 3 to 6m
 Distribution: clear glass: symmetric or asymmetric (street optic) and diffuser: radial symmetric
 Post top mounting on spigot/ columns Ø60mm or Ø76mm.
 Internal height of base 75mm
 5m pre-wired version available
 Connector version supplied with 1m wire and connector

SPECIFICATION

To specify state:
 Modern and discreet urban lantern with 100 000 hour lifetime.
 As Thorn FleXity.

Discreet and versatile LED lantern with a fast return on investment for city space lighting



ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code
FleXity 250mA diffuse - radial symmetric distribution		
FLEX 24L25-730 OP CL1 W5M D76 ANT	4.70	96270783
FLEX 24L25-730 OP CL1 W5M D76 GY	4.70	96642813
FLEX 24L25-740 OP CL1 W5M D76 ANT	4.70	96270784
FLEX 24L25-740 OP CL1 W5M D76 GY	4.70	96642814
FleXity 250mA clear - symmetric distribution		
FLEX 24L25-730 WSC-S CL1 W5M D76 ANT	4.70	96271211
FLEX 24L25-730 WSC-S CL1 W5M D76 GY	4.70	96642882
FLEX 24L25-740 WSC-S CL1 W5M D76 ANT	4.70	96271212
FLEX 24L25-740 WSC-S CL1 W5M D76 GY	4.70	96642883
FleXity 250mA clear - asymmetric distribution (street optic)		
FLEX 24L25-730 WSC-A CL1 W5M D76 ANT	4.70	96271227
FLEX 24L25-730 WSC-A CL1 W5M D76 GY	4.70	96642890
FLEX 24L25-740 WSC-A CL1 W5M D76 ANT	4.70	96271228
FLEX 24L25-740 WSC-A CL1 W5M D76 GY	4.70	96642891
FleXity 500mA clear - symmetric distribution		
FLEX 24L50-730 WSC-S CL1 W5M D76 ANT	4.70	96270785
FLEX 24L50-730 WSC-S CL1 W5M D76 GY	4.70	96642815
FLEX 24L50-740 WSC-S CL1 W5M D76 ANT	4.70	96270786
FLEX 24L50-740 WSC-S CL1 W5M D76 GY	4.70	96642816
FleXity 500mA clear - symmetric distribution, bi-power		
FLEX 24L50-730 WSC-S BP CL1 W5M D76 ANT	4.70	96270809
FLEX 24L50-730 WSC-S BP CL1 W5M D76 GY	4.70	96642831
FLEX 24L50-740 WSC-S BP CL1 W5M D76 ANT	4.70	96270810
FLEX 24L50-740 WSC-S BP CL1 W5M D76 GY	4.70	96642832
FleXity 500mA clear - asymmetric distribution (street optic)		
FLEX 24L50-730 WSC-A CL1 W5M D76 ANT	4.70	96270793
FLEX 24L50-730 WSC-A CL1 W5M D76 GY	4.70	96642823
FLEX 24L50-740 WSC-A CL1 W5M D76 ANT	4.70	96270794
FLEX 24L50-740 WSC-A CL1 W5M D76 GY	4.70	96642824



Diffuse - optimised for comfort



LAMPS

LED

20-83W

STANDARDS



EN 60598

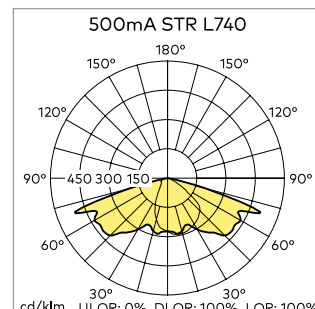
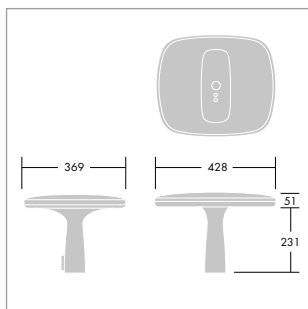


IP66

IK09

Description	Wt (kg)	SAP Code
FleXity 500mA clear - asymmetric distribution (street optic), bi-power		
FLEX 24L50-730 WSC-A BP CL1 W5M D76 ANT	4.70	96270817
FLEX 24L50-730 WSC-A BP CL1 W5M D76 GY	4.70	96642839
FLEX 24L50-740 WSC-A BP CL1 W5M D76 ANT	4.70	96270818
FLEX 24L50-740 WSC-A BP CL1 W5M D76 GY	4.70	96642840
FleXity 1,05A clear - symmetric distribution		
FLEX 24L105-730 WSC-S CL1 W5M D76 ANT	4.70	96271121
FLEX 24L105-730 WSC-S CL1 W5M D76 GY	4.70	96642855
FLEX 24L105-740 WSC-S CL1 W5M D76 ANT	4.70	96271122
FLEX 24L105-740 WSC-S CL1 W5M D76 GY	4.70	96642856
FleXity 1,05A clear - symmetric distribution, bi-power		
FLEX 24L105-730 WSC-S BP CL1 W5M D76 ANT	4.70	96271119
FLEX 24L105-730 WSC-S BP CL1 W5M D76 GY	4.70	96642853
FLEX 24L105-740 WSC-S BP CL1 W5M D76 ANT	4.70	96271120
FLEX 24L105-740 WSC-S BP CL1 W5M D76 GY	4.70	96642854
FleXity 1,05A clear - asymmetric distribution (street optic)		
FLEX 24L105-730 WSC-A CL1 W5M D76 ANT	4.70	96271137
FLEX 24L105-730 WSC-A CL1 W5M D76 GY	4.70	96642871
FLEX 24L105-740 WSC-A CL1 W5M D76 ANT	4.70	96271138
FLEX 24L105-740 WSC-A CL1 W5M D76 GY	4.70	96642872
FleXity 1,05A clear - asymmetric distribution (street optic), bi-power		
FLEX 24L105-730 WSC-A BP CL1 W5M D76 ANT	4.70	96271135
FLEX 24L105-730 WSC-A BP CL1 W5M D76 GY	4.70	96642869
FLEX 24L105-740 WSC-A BP CL1 W5M D76 ANT	4.70	96271136
FLEX 24L105-740 WSC-A BP CL1 W5M D76 GY	4.70	96642870

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Gamma LED



www.thornlighting.co.uk/GAML
www.thornlighting.ie/GAML



Versatile lantern which blends effortlessly into the cityscape, offering a quick return on investment



- Simply designed post top LED lantern which is easy to integrate into cityscapes and residential areas
- 100 000 hour maintenance free lifetime for a quick return on investment and low total cost of ownership
- Wide choice of control options including, integrated Bi-power dimming for energy savings, also compatible with DALI, 1-10V, RF, Power Line, Minicell, Nema and Presence Detection
- Complete range adaptable for any market requirements
- From 100 up to 107lm/W

MATERIALS/FINISH

Canopy and base: die cast aluminium (EN AC-46100), powder coated light grey (close to RAL 9006) finish
 Enclosure: polycarbonate diffuser

INSTALLATION/MOUNTING

Suitable for post top mounting.
 Recommended mounting height: 3 to 6m
 Distribution: diffuser, radial symmetric. Post top mounting on spigot/columns Ø60mm or Ø76mm.
 Internal height of base 75mm.
 Pre-wired with 5m cable.

SPECIFICATION

To specify state:
 Simply designed and discreet urban lantern with 100 000 hour lifetime with no maintenance required.
 Control options including, integrated Bi-power dimming for energy savings, also compatible with DALI, 1-10V, RF, Power Line, Minicell, Nema and Presence Detection. Post top mounting diameters 60 or 76mm.
 As Thorn Gamma LED.

ORDERING GUIDE

Description	Wt (kg)	SAP Code
Gamma LED 350mA diffuse, symmetric distribution		
GAMMA 24L35-730 SC-S CL1 W5M D60 GY	6.30	96273585
GAMMA 24L35-730 SC-S CL1 W5M D76 GY	6.40	96273587
GAMMA 24L35-740 SC-S CL1 W5M D60 GY	6.30	96273586
GAMMA 24L35-740 SC-S CL1 W5M D76 GY	6.40	96273588
Gamma LED 350mA diffuse, symmetric distribution, bi-power		
GAMMA 24L35-730 SC-S BP CL1 W5M D60 GY	6.30	96273577
GAMMA 24L35-730 SC-S BP CL1 W5M D76 GY	6.40	96273579
GAMMA 24L35-740 SC-S BP CL1 W5M D60 GY	6.30	96273578
GAMMA 24L35-740 SC-S BP CL1 W5M D76 GY	6.40	96273580
Gamma LED 700mA diffuse, symmetric distribution		
GAMMA 24L70-730 SC-S CL1 W5M D60 GY	6.30	96273569
GAMMA 24L70-730 SC-S CL1 W5M D76 GY	6.40	96273571
GAMMA 24L70-740 SC-S CL1 W5M D60 GY	6.30	96273570
GAMMA 24L70-740 SC-S CL1 W5M D76 GY	6.40	96273572
Gamma LED 700mA diffuse, symmetric distribution, bi-power		
GAMMA 24L70-730 SC-S BP CL1 W5M D60 GY	6.30	96273561
GAMMA 24L70-730 SC-S BP CL1 W5M D76 GY	6.40	96273563
GAMMA 24L70-740 SC-S BP CL1 W5M D60 GY	6.30	96273562
GAMMA 24L70-740 SC-S BP CL1 W5M D76 GY	6.40	96273564
Gamma LED 350mA, wide street asymmetric distribution		
GAMMA 24L35-730 WS-A BP CL1 W5M D60 GY	6.30	96628227
GAMMA 24L35-730 WS-A BP CL1 W5M D76 GY	6.40	96628228
GAMMA 24L35-730 WS-A CL1 W5M D60 GY	6.30	96628235
GAMMA 24L35-730 WS-A CL1 W5M D76 GY	6.40	96629249
GAMMA 24L35-740 WS-A BP CL1 W5M D60 GY	6.30	96628228
GAMMA 24L35-740 WS-A BP CL1 W5M D76 GY	6.40	96629250
GAMMA 24L35-740 WS-A CL1 W5M D60 GY	6.30	96628236
GAMMA 24L35-740 WS-A CL1 W5M D76 GY	6.40	96629251
Gamma LED 350mA, narrow road asymmetric distribution		
GAMMA 24L35-730 NR-A BP CL1 W5M D60 GY	6.30	96629258
GAMMA 24L35-730 NR-A BP CL1 W5M D76 GY	6.40	96628229
GAMMA 24L35-730 NR-A CL1 W5M D60 GY	6.30	96629256
GAMMA 24L35-730 NR-A CL1 W5M D76 GY	6.40	96628237
GAMMA 24L35-740 NR-A BP CL1 W5M D60 GY	6.30	96629259
GAMMA 24L35-740 NR-A BP CL1 W5M D76 GY	6.40	96628230
GAMMA 24L35-740 NR-A CL1 W5M D60 GY	6.30	96629257
GAMMA 24L35-740 NR-A CL1 W5M D76 GY	6.40	96628238

**LAMPS**

LED

28-53W

STANDARDS

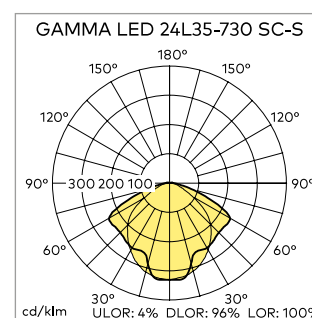
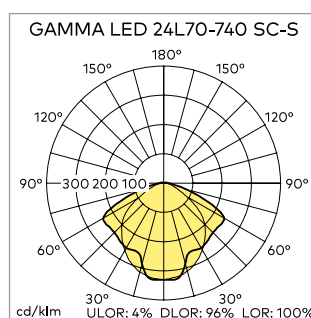
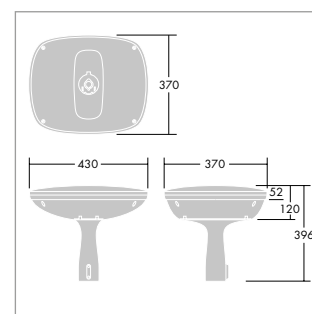
IP 66

IK 10

T_a-20
+25

Description	Wt (kg)	SAP Code
Gamma LED 700mA, wide street asymmetric distribution		
GAMMA 24L70-730 WS-A BP CL1 W5M D60 GY	6.30	96628211
GAMMA 24L70-730 WS-A BP CL1 W5M D76 GY	6.40	96629252
GAMMA 24L70-730 WS-A CL1 W5M D60 GY	6.30	96628219
GAMMA 24L70-730 WS-A CL1 W5M D76 GY	6.40	96629253
GAMMA 24L70-740 WS-A BP CL1 W5M D60 GY	6.30	96628212
GAMMA 24L70-740 WS-A BP CL1 W5M D76 GY	6.40	96629254
GAMMA 24L70-740 WS-A CL1 W5M D60 GY	6.30	96628220
GAMMA 24L70-740 WS-A CL1 W5M D76 GY	6.40	96629255
Gamma LED 700mA, narrow road asymmetric distribution		
GAMMA 24L70-730 NR-A BP CL1 W5M D60 GY	6.30	96629262
GAMMA 24L70-730 NR-A BP CL1 W5M D76 GY	6.40	96628213
GAMMA 24L70-730 NR-A CL1 W5M D60 GY	6.30	96629260
GAMMA 24L70-730 NR-A CL1 W5M D76 GY	6.40	96628221
GAMMA 24L70-740 NR-A BP CL1 W5M D60 GY	6.30	96629263
GAMMA 24L70-740 NR-A BP CL1 W5M D76 GY	6.40	96628214
GAMMA 24L70-740 NR-A CL1 W5M D60 GY	6.30	96629261
GAMMA 24L70-740 NR-A CL1 W5M D76 GY	6.40	96628222

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Alumet

Control Direct LED



www.thornlighting.co.uk/ALUL
www.thornlighting.ie/ALUL



Combines elegance, performance,
and intelligence



- Best optical offer & efficacy
- Great integration with a fine design and appearance
- Decorative accessories are also available
- From 83 up to 118lm/W

MATERIALS/FINISH

Diffuser: clear UV stabilised PC treated with anti-graffiti varnish
 Top cap: die-cast aluminium
 Column: extruded aluminium
 Accessory: 180° decorative lampshields in aluminium. Other patterns on request
 Top/Column/Cover: powder coated textured silver grey (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 LED via 2 M6 screws in the top. Access to the driver and electronic tray by lifting up the PC diffuser and the bottom components cover. Pre-wired with 4m cable.

SPECIFICATION

To specify state:
 IP66 decorative lighting column with a unique design. Wide optical offer with a performance clear or a comfort prismatic variant. Post top mounting on dedicated columns. DALI, LRT, and motion detection as standard. Providing SmartCity options and offering decorative accessories.

As Thorn Alumet Control Direct LED

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Alumet Control Direct LED, radial symmetric comfort optic			
ALUMET CD 18L35-730 R/S PR HFX CL1 W4M	10.10	96274719	
ALUMET CD 18L35-740 R/S PR HFX CL1 W4M	10.10	96274721	
Alumet Control Direct LED, radial symmetric comfort optic, motion detection			
ALUMET CD 18L35-730 R/S PR MAS CL1 W4M	10.00	96274761	
ALUMET CD 18L35-730 R/S PR SLA CL1 W4M	9.90	96274767	
ALUMET CD 18L35-740 R/S PR MAS CL1 W4M	10.00	96274763	
ALUMET CD 18L35-740 R/S PR SLA CL1 W4M	9.90	96274769	
Alumet Control Direct LED, radial symmetric performance optic			
ALUMET CD 18L25-730 R/S CL HFX CL1 W4M	10.00	96274725	
ALUMET CD 18L25-740 R/S CL HFX CL1 W4M	10.00	96274727	
ALUMET CD 18L50-730 R/S CL HFX CL1 W4M	10.00	96274729	
ALUMET CD 18L50-740 R/S CL HFX CL1 W4M	10.00	96274731	
Alumet Control Direct LED, narrow road asymmetric optic			
ALUMET CD 24L25-730 NR-A CL HFX CL1 W4M	9.90	96274733	
ALUMET CD 24L25-740 NR-A CL HFX CL1 W4M	9.90	96274735	
ALUMET CD 24L35-730 NR-A CL HFX CL1 W4M	9.90	96274855	
ALUMET CD 24L35-740 NR-A CL HFX CL1 W4M	9.90	96274857	
Alumet Control Direct LED, wet road symmetric optic			
ALUMET CD 24L25-730 RWETS CL HFX CL1 W4M	9.90	96274765	
ALUMET CD 24L25-740 RWETS CL HFX CL1 W4M	9.90	96274771	
ALUMET CD 24L35-730 RWETS CL HFX CL1 W4M	9.90	96274849	
ALUMET CD 24L35-740 RWETS CL HFX CL1 W4M	9.90	96274851	



Description	Wt (kg)	SAP Code	Cat. No.
Alumet Control Direct LED, wide street comfort asymmetric optic			
ALUMET CD 24L25-730 WSC-A CL HFX CL1 W4M	9.90	96274739	
ALUMET CD 24L25-740 WSC-A CL HFX CL1 W4M	9.90	96274741	
ALUMET CD 24L35-730 WSC-A CL HFX CL1 W4M	9.90	96274861	
ALUMET CD 24L35-740 WSC-A CL HFX CL1 W4M	9.90	96274863	
Alumet Control Direct LED, columns			
ALUMET COL 3M MGR AL GRY NG	38.00	96259923	AL3RT
ALUMET COL 3M MGS AL GRY NG	35.00	96259918	AL3SPK
ALUMET COL 3M MPL AL FAI GRY NG	35.00	96259919	AL3FP
ALUMET COL 4M MGR AL GRY NG	37.20	96259920	AL4RT
ALUMET COL 4M MGS AL GRY NG	37.20	96259921	AL4SPK
ALUMET COL 4M MPL AL FAI GRY NG	36.00	96259922	AL4FP
Alumet Control Direct LED, lamp shields			
ALUMET LAMPSHIELD 180° ARABESQUE	3.45	96255210	ALALS
ALUMET LAMPSHIELD 180° SQUARE	3.60	96254469	ALSLS

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LAMPS



LED

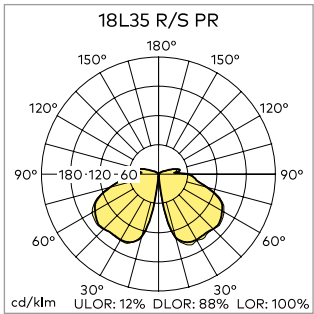
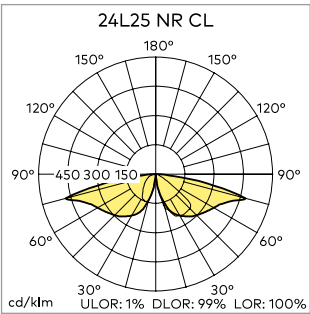
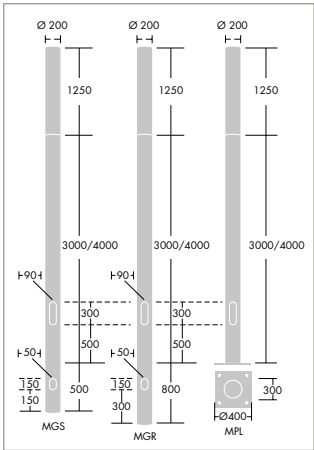
16-29W

STANDARDS



IP65

IK10



NEW

Alumet

Stage II



www.thornlighting.co.uk/ALS2
www.thornlighting.ie/ALS2



More powerful, more flexible
 and ready for the smart cities
 of the future



- Up to 6 modules with multi-positioning and 360° rotation of the spots, create a wide variety of adjustable effects without the need to change the position of the luminaire
- Wide choice of beam optics and colours: Either at colour temperatures of 3 000 K or 4 000 K with 12° or 32° beam or coloured modules controlled as dynamic RGBW or set to fixed colours
- Resistant and quality materials to resist vandalism, graffiti and weather
- The fully customisable decorative lampshield accessory provides further aesthetical appeal and integration within architectural projects

MATERIAL/FINISH

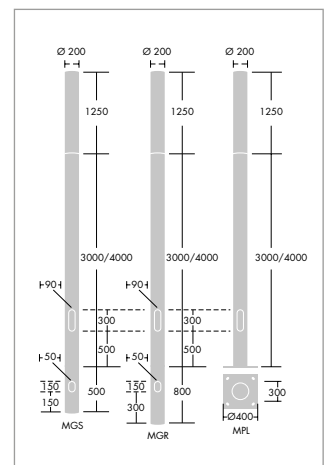
Diffuser: clear UV stabilised PC treated with anti-graffiti varnish
 Top cap: die-cast aluminium
 Lamp support: polyamid
 Spine: steel
 Column: extruded aluminium
 Accessory: 180° decorative lampshields in aluminium.
 Other patterns on request.
 Top/Column/Frame/Lampshield: powder coated textured silver 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 optional accessory by one single tool. Access to LED via 2 M6 screws in the top.
 Access to the driver and electronic tray by lifting up the PC diffuser and the bottom components cover.
 Pre-wired with 4m cable.

SPECIFICATION

To specify state:
 IP66 decorative lighting column with a unique design. Wide optical offer with white or colored spot variant. Post top mounting on dedicated columns. DALI and DMX as standard. Offering decorative accessories.
 As Thorn Alumet Stage II



**LAMPS**

LED

13W

STANDARDS

IP66 IK10

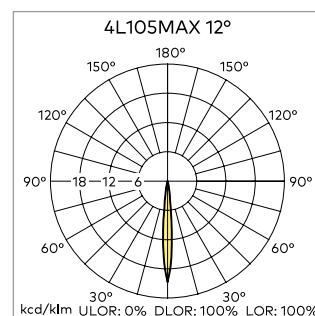
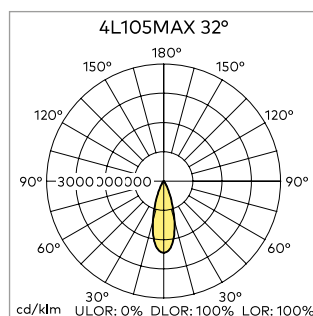
ORDERING GUIDE

For complete fitting order head, column and LED spot modules. Lampshields sold as accessory.

Description	Wt (kg)	SAP Code
Heads		
ALUMET ST HEAD 4X105 WHITE CL2 G4M3	9.22	96275333
ALUMET ST HEAD 4X105 WHITE HFX CL1 W4M	9.22	96275331
ALUMET ST HEAD 4X105 WHITE HFX CL2 W4M	9.22	96275332
ALUMET ST HEAD 4X70 CLRMIX CL2 G4M3	9.22	96275327
ALUMET ST HEAD 4X70 CLRMIX HFX CL1 W4M	9.22	96275325
ALUMET ST HEAD 4X70 CLRMIX HFX CL2 W4M	9.22	96275326
ALUMET ST HEAD 5-6X105 WHITE CL2 G4M3	9.22	96275336
ALUMET ST HEAD 5-6X105 WHITE HFX CL1 W4M	9.22	96275334
ALUMET ST HEAD 5-6X105 WHITE HFX CL2 W4M	9.22	96275335
ALUMET ST HEAD 5-6X70 CLRMIX CL2 G4M3	9.22	96275330
ALUMET ST HEAD 5-6X70 CLRMIX HFX CL1 W4M	9.22	96275328
ALUMET ST HEAD 5-6X70 CLRMIX HFX CL2 W4M	9.22	96275329
ALUMET ST HEAD 6X70 RGBW DMX CL1 W4M	12.0	96275420
ALUMET ST HEAD 6X70 RGBW DMX CL2 G4M3	12.0	96275422
ALUMET ST HEAD 6X70 RGBW DMX CL2 W4M	12.0	96275421
Spots		
ALUMET ST SPOT 4L105MAX 12° 830	0.27	96275340
ALUMET ST SPOT 4L105MAX 12° 840	0.27	96275341
ALUMET ST SPOT 4L105MAX 32° 830	0.27	96275342
ALUMET ST SPOT 4L105MAX 32° 840	0.27	96275343
ALUMET ST SPOT 4L70MAX 12° BU	0.27	96275337
ALUMET ST SPOT 4L70MAX 12° GN	0.27	96275338
ALUMET ST SPOT 4L70MAX 12° RD	0.27	96275339
ALUMET ST SPOT 4L70MAX 12° RGBW DMX	0.27	96275423

Description	Wt (kg)	SAP Code
Columns		
ALUMET COL 3M MGR AL GRY NG	38.0	96259923
ALUMET COL 3M MGR AL NG R9999	38.0	96259927
ALUMET COL 3M MGS AL GRY NG	35.0	96259918
ALUMET COL 3M MGS AL NG R9999	35.0	96259928
ALUMET COL 3M MPL AL FAI GRY NG	35.0	96259919
ALUMET COL 3M MPL AL FAI NG R9999	35.0	96259929
ALUMET COL 4M MGR AL GRY NG	37.2	96259920
ALUMET COL 4M MGR AL NG R9999	37.2	96259930
ALUMET COL 4M MGS AL GRY NG	37.2	96259921
ALUMET COL 4M MGS AL NG R9999	37.2	96259931
ALUMET COL 4M MPL AL FAI GRY NG	36.0	96259922
ALUMET COL 4M MPL AL FAI NG R9999	36.0	96259932
Lampshields		
ALUMET LAMPSHIELD 180° ARABESQUE	3.4	96255210
ALUMET LAMPSHIELD 180° SQUARE	3.6	96254469

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A tall, black, cylindrical floor lamp with a curved, illuminated shade. The lamp has a sleek, modern design with a black finish. The shade is curved and illuminated from within, creating a warm glow. The lamp is positioned against a light gray background.

 LED

STANDARDS



-
- Technical drawing of the MGR (Main Guide Rail) showing side and end views with dimensions:
- Side View (Left):**
 - Total height: 522
 - Bottom flange width: 80
 - Bottom flange outer diameter: $\varnothing 11$
 - Bottom flange inner diameter: 113
 - Side View (Right):**
 - Total height: 976
 - Top flange outer diameter: $\varnothing 201$
 - Top flange height: 122
 - Top flange inner diameter: 320
 - Top flange thickness: 396
 - Bottom flange outer diameter: $\varnothing 108$
 - Bottom flange height: 800

4L105-740

180° 150° 120° 90° 60° 30°

300 200 100

cd/km

U.I.O.R.: 2% D.I.O.R.: 98% I.O.R.: 100%

Thor

Bollard



www.thornlighting.co.uk/ADLB
www.thornlighting.ie/ADLB

Elegant vandal resistant bollard
 with high performance optic
 offering a comfortable light
 and energy saving solution



LAMPS

 LED

11-13W

STANDARDS

 IP66 IK10 T_a25 T_a50 


- Best in class LED optic provides a comfortable, low glare direct and indirect light with asymmetric or symmetric distribution, sympathetic to users with a lower viewing angle
- Available in two sizes - slim and wide - with the wide version also suitable for use as street furniture
- Durable and vandal resistant. Slim is IK10+ (resistance to 40J). Wide is IK10 (resistance to 20J)
- Bi power dimming and presence detection options reduce energy consumption

MATERIALS/FINISH

Column and base: aluminium (EN AW 6060)
 Canopy: die-cast aluminum (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), spacing: 150mm.
 Wide version: suitable for Flange mounting: 4 x anchor bolts M14 (to be ordered separately), spacing: 200mm.
 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 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 Thor Bollard.

Thor Bollard



www.thornlighting.co.uk/ADLB
www.thornlighting.ie/ADLB

Elegant vandal resistant bollard
with high performance optic
offering a comfortable light
and energy saving solution



ORDERING GUIDE

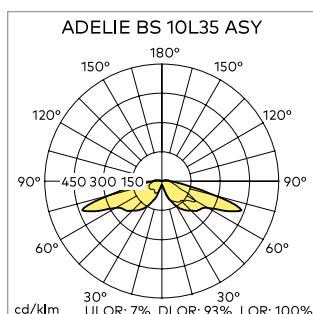
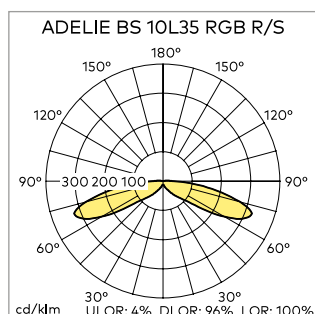
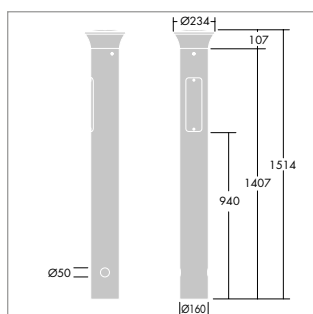
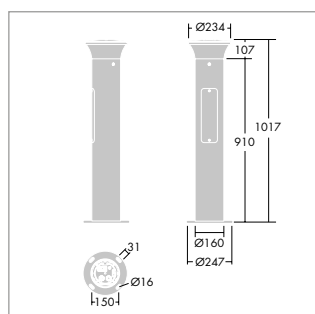
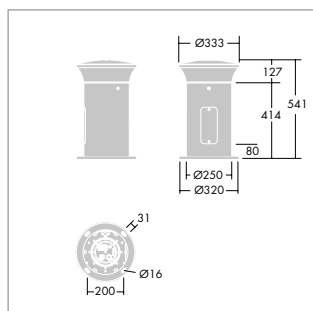
Supplied complete with LEDs.

Description	Wt (kg)	SAP Code
Thor Bollard Slim 250 mA, lit band, flange mounted		
THOR B S 10L25 730 RGB ASY CL1 MPL	7.66	96264232
THOR B S 10L25 730 RGB R/S CL1 MPL	7.66	96264231
THOR B S 10L25 740 RGB ASY CL1 MPL	7.66	96264230
THOR B S 10L25 740 RGB R/S CL1 MPL	7.66	96264229
Thor Bollard Slim 250 mA, without lit band, flange mounted		
THOR B S 10L25 730 ASY CL1 MPL	7.66	96264228
THOR B S 10L25 730 R/S CL1 MPL	7.66	96264227
THOR B S 10L25 740 ASY CL1 MPL	7.66	96264226
THOR B S 10L25 740 R/S CL1 MPL	7.66	96264225
Thor Bollard Slim 250 mA, lit band, root mounted		
THOR B S 10L25 730 RGB ASY CL1 MGR	9.30	96264248
THOR B S 10L25 730 RGB R/S CL1 MGR	9.30	96264247
THOR B S 10L25 740 RGB ASY CL1 MGR	9.30	96264246
THOR B S 10L25 740 RGB R/S CL1 MGR	9.30	96264245
Thor Bollard Slim 250 mA, without lit band, root mounted		
THOR B S 10L25 730 ASY CL1 MGR	9.30	96264244
THOR B S 10L25 730 R/S CL1 MGR	9.30	96264243
THOR B S 10L25 740 ASY CL1 MGR	9.30	96264242
THOR B S 10L25 740 R/S CL1 MGR	9.30	96264241
Thor Bollard Slim 350 mA, lit band, flange mounted		
THOR B S 10L35 BPSW 730 RGB ASY CL1 MPL	7.70	96273277
THOR B S 10L35 BPSW 730 RGB R/S CL1 MPL	7.70	96273276
THOR B S 10L35 BPSW 740 RGB ASY CL1 MPL	7.70	96273275
THOR B S 10L35 BPSW 740 RGB R/S CL1 MPL	7.70	96273274
Thor Bollard Slim 350 mA, without lit band, flange mounted		
THOR B S 10L35 BPSW 730 ASY CL1 MPL	7.70	96273273
THOR B S 10L35 BPSW 730 R/S CL1 MPL	7.70	96273272
THOR B S 10L35 BPSW 740 ASY CL1 MPL	7.70	96273302
THOR B S 10L35 BPSW 740 R/S CL1 MPL	7.70	96273301
Thor Bollard Slim 350 mA, lit band, root mounted		
THOR B S 10L35 BPSW 730 RGB ASY CL1 MGR	9.30	96273293
THOR B S 10L35 BPSW 730 RGB R/S CL1 MGR	9.30	96273292
THOR B S 10L35 BPSW 740 RGB ASY CL1 MGR	9.30	96273291
THOR B S 10L35 BPSW 740 RGB R/S CL1 MGR	9.30	96273290

Description	Wt (kg)	SAP Code
Thor Bollard Slim 350 mA, without lit band, root mounted		
THOR B S 10L35 BPSW 730 ASY CL1 MGR	9.30	96273289
THOR B S 10L35 BPSW 730 R/S CL1 MGR	9.30	96273288
THOR B S 10L35 BPSW 740 ASY CL1 MGR	9.30	96273287
THOR B S 10L35 BPSW 740 R/S CL1 MGR	9.30	96273286
Thor Bollard Slim, presence detection master, flange mounted		
THOR B S 10L25 MAS 730 RGB ASY CL1 MPL	7.90	96265402
THOR B S 10L25 MAS 730 RGB R/S CL1 MPL	7.90	96265401
THOR B S 10L25 MAS 740 RGB ASY CL1 MPL	7.90	96265400
THOR B S 10L25 MAS 740 RGB R/S CL1 MPL	7.90	96265399
THOR B S 10L35 MAS 730 RGB ASY CL1 MPL	7.70	96273309
THOR B S 10L35 MAS 730 RGB R/S CL1 MPL	7.70	96273308
THOR B S 10L35 MAS 740 RGB ASY CL1 MPL	7.70	96273307
THOR B S 10L35 MAS 740 RGB R/S CL1 MPL	7.70	96273306
Thor Bollard Slim, presence detection master, root mounted		
THOR B S 10L25 MAS 730 RGB ASY CL1 MGR	9.50	96265410
THOR B S 10L25 MAS 730 RGB R/S CL1 MGR	9.50	96265409
THOR B S 10L25 MAS 740 RGB ASY CL1 MGR	9.50	96265408
THOR B S 10L25 MAS 740 RGB R/S CL1 MGR	9.50	96265407
THOR B S 10L35 MAS 730 RGB ASY CL1 MGR	9.30	96273315
THOR B S 10L35 MAS 730 RGB R/S CL1 MGR	9.30	96273314
THOR B S 10L35 MAS 740 RGB ASY CL1 MGR	9.30	96273313
THOR B S 10L35 MAS 740 RGB R/S CL1 MGR	9.30	96273312
Thor Bollard Slim, presence detection slave, flange mounted		
THOR B S 10L25 SLA 730 RGB ASY CL1 MPL	7.70	96265418
THOR B S 10L25 SLA 730 RGB R/S CL1 MPL	7.70	96265417
THOR B S 10L25 SLA 740 RGB ASY CL1 MPL	7.70	96265416
THOR B S 10L25 SLA 740 RGB R/S CL1 MPL	7.70	96265415
THOR B S 10L35 SLA 730 RGB ASY CL1 MPL	7.70	96273327
THOR B S 10L35 SLA 730 RGB R/S CL1 MPL	7.70	96273326
THOR B S 10L35 SLA 740 RGB ASY CL1 MPL	7.70	96273325
THOR B S 10L35 SLA 740 RGB R/S CL1 MPL	7.70	96273324

Description	Wt (kg)	SAP Code
Thor Bollard Slim, presence detection slave, root mounted		
THOR B S 10L25 SLA 730 RGB ASY CL1 MGR	9.30	96265426
THOR B S 10L25 SLA 730 RGB R/S CL1 MGR	9.30	96265425
THOR B S 10L25 SLA 740 RGB ASY CL1 MGR	9.30	96265424
THOR B S 10L25 SLA 740 RGB R/S CL1 MGR	9.30	96265423
THOR B S 10L35 SLA 730 RGB ASY CL1 MGR	9.30	96273332
THOR B S 10L35 SLA 730 RGB R/S CL1 MGR	9.30	96273331
THOR B S 10L35 SLA 740 RGB ASY CL1 MGR	9.30	96273330
THOR B S 10L35 SLA 740 RGB R/S CL1 MGR	9.30	96273329
Thor Bollard Wide, lit band, flange mounted		
THOR B W 10L25 730 RGB ASY CL1 MPL	9.00	96264264
THOR B W 10L25 730 RGB R/S CL1 MPL	9.00	96264263
THOR B W 10L25 740 RGB ASY CL1 MPL	9.00	96264262
THOR B W 10L25 740 RGB R/S CL1 MPL	9.00	96264261
Thor Bollard Wide, without lit band, flange mounted		
THOR B W 10L25 730 ASY CL1 MPL	9.00	96264260
THOR B W 10L25 730 R/S CL1 MPL	9.00	96264259
THOR B W 10L25 740 ASY CL1 MPL	9.00	96264258
THOR B W 10L25 740 R/S CL1 MPL	9.00	96264257
Anchor bolts, flange mounting		
FA M14X200/50	0.28	96009822
Connection box, Slim version		
TEMPO16 CL2 4X16 1C/C	0.46	96012372
Connection box, Wide version		
CONNECT CABLE BOX 3/4X2,5" IP67	0.40	96257908

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D-CO LED

Bollard



www.thornlighting.co.uk/DCOB
www.thornlighting.ie/DCOB



A timeless bollard offering comfortable visual guidance



LAMPS

LED 14W

STANDARDS



- Comfortable white light with no glare provided by a semi-opal anti-UV PC diffuser
- Suitable for any application thanks to high specs and two heights
- 60,000 hour lifetime (L80, 25°) ensures low maintenance costs
- Flange mounting, compatible with root spikes

MATERIALS/FINISH

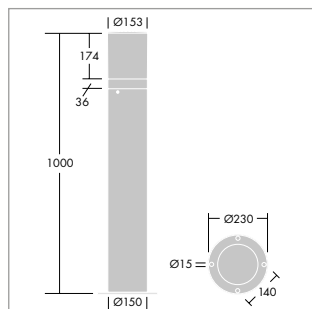
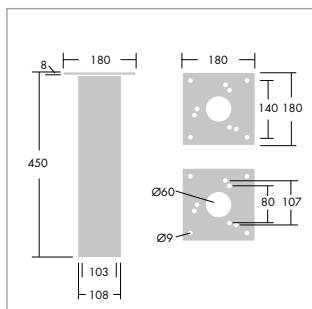
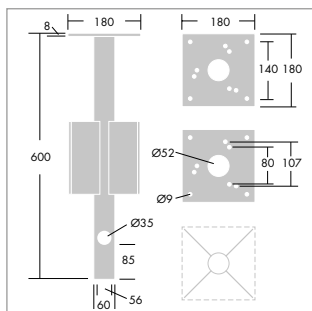
Top and body: aluminium, powder coated grey 900
 Diffuser: semi-opal anti-UV polycarbonate

INSTALLATION/MOUNTING

Suitable for flange mounting. Can fit a 500mm root spike to be fixed into concrete base. Can fit a 800mm root spike to be fixed into the ground.

SPECIFICATION

To specify state:
 Timeless design 14W LED bollard with semi-opal diffuser and symmetrical light distribution.
 As Thorn D-CO LED Bollard.

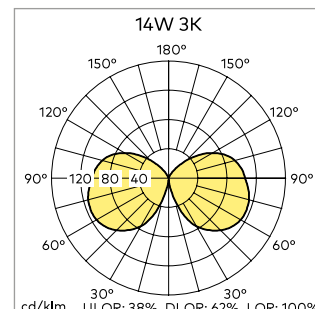
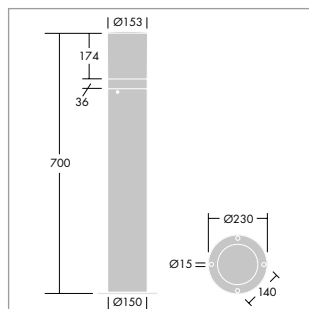


ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
D-CO LED Bollard			
D-CO LED BOLLARD 1000 30L50 830 CL1	5.45	96262100	DCB23K14
D-CO LED BOLLARD 1000 30L50 840 CL1	5.45	96262145	DCB24K14
D-CO LED BOLLARD 700 30L50 830 CL1	4.15	96262101	DCB13K14
D-CO LED BOLLARD 700 30L50 840 CL1	4.15	96262146	DCB14K14
D-CO LED Bollard MGR base adaptors			
MGR BASE PROM/AVENUE/MADISON/DCO	10.00	96100253	PMB1RT
MGR SPIKE PROM/AVENUE/DCO	10.00	96005367	PMB2RT

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Outdoor Lighting

STREET LIGHTING



188
R2L2



191
Urba



194
CivITEQ



198
Olsys Street



200
Thor



202
Dyana LED



204
Orus LED



205
R-PEC®

R2L2



www.thornlighting.co.uk/R2L2
www.thornlighting.ie/R2L2



A complete road lantern family at the forefront of LED technology to offer excellent lighting performance and cover all applications



- Comprehensive range available in two sizes with extensive optical, lumen and light distribution choice for all road applications
- Efficient (up to 120lm/W) R-PEC® optic offering 12 types of light distribution for precise light placement with no waste light. please refer to page 205 for the Thorn R-PEC® LED options
- Maximises energy savings with a wide range of intelligent lighting control solutions from stand alone dimming to fully remote control via central monitoring system
- Attractive, universal and integrated spigot offering flexibility through top and side entry as well as tilt adjustment

MATERIALS/FINISH

Housing, canopies, spigot: die-cast aluminium with powder coating and min 1000hrs salt fog resistance
 Glass: extra-white tempered, 4mm thick
 Screws: Ecolubric® treated
 Powder coating texturised light grey as standard. Other RAL or AKZO colours available on request. Other special treatment on request.

INSTALLATION/MOUNTING

Post-top mounting: Ø60-76mm
 Side-entry mounting: Ø48-60mm or Ø32-42-48-60mm
 (CL1 as standard)
 Operating temperature:
 -25°C < Ta < +35°C
 Suitable for use up to +50°C through the use of heat regulation system
 Recommended mounting height:
 4m to 14m
 Adjustable tilt angle side:
 0°/-5°/-10°/-15°
 Adjustable tilt angle top:
 0°/+5°/+10°

SPECIFICATION

To specify state:
 Two sizes with extensive optical, lumen and light distribution choice for all road applications. Wide range of intelligent lighting control solutions from stand alone dimming to fully remote control via central monitoring system. Attractive, universal and integrated spigot offering flexibility through top and side entry as well as tilt adjustment up to 15°. Easy to fit back and front louvres which can be fitted retrospectively for extra light control and comfort. Four spare parts defined: canopy, glass enclosure, gear tray incl. driver, LED cover (incl. LED module and lenses).
 As Thorn R2L2.

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
R2L2 Small, Narrow road optic			
R2L2 S 12L35 NR 740 CL1	9.08	96268397	RLS1235NR
R2L2 S 12L50 NR 740 CL1	9.08	96268405	RLS1250NR
R2L2 S 12L70 NR 740 CL1	9.08	96268418	RLS1270NR
R2L2 S 24L35 NR 740 CL1	9.54	96268430	RLS2435NR
R2L2 S 24L50 NR 740 CL1	9.54	96268440	RLS2450NR
R2L2 S 36L35 NR 740 CL1	9.51	96268464	RLS3635NR
R2L2 S 48L35 NR 740 CL1	9.56	96268498	RLS4835NR
R2L2 S 24L70 NR 740 CL1	9.54	96268453	RLS2470NR
R2L2 S 36L50 NR 740 CL1	9.51	96268474	RLS3650NR
R2L2 S 48L50 NR L740 CL1	9.56	96266286	RLS4850NR
R2L2 S 36L70 NR 740 CL1	9.51	96268487	RLS3670NR
R2L2 S 48L70 NR L740 CL1	9.97	96266347	RLS4870NR
R2L2 Small, Wide street optic			
R2L2 S 12L35 WS 740 CL1	9.08	96268401	
R2L2 S 12L50 WS 740 CL1	9.08	96268411	
R2L2 S 12L70 WS 740 CL1	9.08	96268425	
R2L2 S 24L35 WS 740 CL1	9.54	96268436	
R2L2 S 24L50 WS 740 CL1	9.54	96268446	
R2L2 S 36L35 WS 740 CL1	9.51	96268470	
R2L2 S 48L35 WS 740 CL1	9.56	96268504	
R2L2 S 24L70 WS 740 CL1	9.54	96268459	
R2L2 S 36L50 WS 740 CL1	9.51	96268480	RLS3650WS
R2L2 S 48L50 WS L740 CL1	9.56	96266314	RLS4850WS
R2L2 S 36L70 WS 740 CL1	9.51	96268493	
R2L2 S 48L70 WS L740 CL1	9.97	96266358	RLS4870WS
R2L2 Small, Wide street comfort optic			
R2L2 S 12L35 WSC 740 CL1	9.08	96268402	
R2L2 S 12L50 WSC 740 CL1	9.08	96268414	
R2L2 S 12L70 WSC 740 CL1	9.08	96268426	
R2L2 S 24L35 WSC 740 CL1	9.54	96268437	
R2L2 S 24L50 WSC 740 CL1	9.54	96268449	
R2L2 S 36L35 WSC 740 CL1	9.51	96268471	
R2L2 S 48L35 WSC 740 CL1	9.56	96268505	
R2L2 S 24L70 WSC 740 CL1	9.54	96268460	
R2L2 S 36L50 WSC 740 CL1	9.51	96268483	
R2L2 S 48L50 WSC L740 CL1	9.56	96266324	RLS4850WSC
R2L2 S 36L70 WSC 740 CL1	9.51	96268494	
R2L2 S 48L70 WSC L740 CL1	9.97	96266369	RLS4870WSC



LAMPS



15-271W

STANDARDS



IP66

IK08

T_a35T_s50

Description	Wt (kg)	SAP Code	Cat. No.
R2L2 Small, Wet road optic			
R2L2 S 12L35 RWET 740 CL1	9.08	96268399	
R2L2 S 12L50 RWET 740 CL1	9.08	96268409	
R2L2 S 12L70 RWET 740 CL1	9.08	96268422	
R2L2 S 24L35 RWET 740 CL1	9.54	96268433	
R2L2 S 24L50 RWET 740 CL1	9.54	96268444	
R2L2 S 36L35 RWET 740 CL1	9.51	96268467	
R2L2 S 48L35 RWET 740 CL1	9.56	96268501	
R2L2 S 24L70 RWET 740 CL1	9.54	96268456	
R2L2 S 36L50 RWET 740 CL1	9.51	96268478	
R2L2 S 48L50 RWET 740 CL1	9.56	96268510	
R2L2 S 36L70 RWET 740 CL1	9.51	96268490	
R2L2 S 48L70 RWET 740 CL1	9.97	96268517	
R2L2 Small, Road comfort optic			
R2L2 S 12L35 RC 740 CL1	9.08	96268398	
R2L2 S 12L50 RC 740 CL1	9.08	96268406	
R2L2 S 12L70 RC 740 CL1	9.08	96268420	
R2L2 S 24L35 RC 740 CL1	9.54	96268431	
R2L2 S 24L50 RC 740 CL1	9.54	96268441	
R2L2 S 36L35 RC 740 CL1	9.51	96268465	
R2L2 S 48L35 RC 740 CL1	9.56	96268499	
R2L2 S 24L70 RC 740 CL1	9.54	96268454	
R2L2 S 36L50 RC 740 CL1	9.51	96268475	
R2L2 S 48L50 RC L740 CL1	9.56	96266298	RLS4850RC
R2L2 S 36L70 RC 740 CL1	9.51	96268488	
R2L2 S 48L70 RC L740 CL1	9.97	96266353	RLS4870RC
R2L2 Small, Wide road optic			
R2L2 S 12L35 WR 740 CL1	9.08	96268400	
R2L2 S 12L50 WR 740 CL1	9.08	96268410	
R2L2 S 12L70 WR 740 CL1	9.08	96268423	
R2L2 S 24L35 WR 740 CL1	9.54	96268434	
R2L2 S 24L50 WR 740 CL1	9.54	96268445	
R2L2 S 36L35 WR 740 CL1	9.51	96268468	
R2L2 S 48L35 WR 740 CL1	9.56	96268502	
R2L2 S 24L70 WR 740 CL1	9.54	96268457	
R2L2 S 36L50 WR 740 CL1	9.51	96268479	
R2L2 S 48L50 WR L740 CL1	9.56	96266308	RLS4850WR
R2L2 S 36L70 WR 740 CL1	9.51	96268491	
R2L2 S 48L70 WR 740 CL1 HT	10.02	96269273	
R2L2 S 48L70 WR L740 CL1	9.97	96266356	RLS4870WR

Description	Wt (kg)	SAP Code	Cat. No.
R2L2 Small, Extra wide street optic			
R2L2 S 12L35 EWS 740 CL1	9.08	96268395	
R2L2 S 12L50 EWS 740 CL1	9.08	96268403	
R2L2 S 12L70 EWS 740 CL1	9.08	96268415	
R2L2 S 24L35 EWS 740 CL1	9.54	96268427	
R2L2 S 24L50 EWS 740 CL1	9.54	96268438	
R2L2 S 36L35 EWS 740 CL1	9.51	96268461	
R2L2 S 48L35 EWS 740 CL1	9.56	96268495	
R2L2 S 24L70 EWS 740 CL1	9.54	96268450	
R2L2 S 36L50 EWS 740 CL1	9.51	96268472	
R2L2 S 48L50 EWS 740 CL1	9.56	96268506	RLS4850EWS
R2L2 S 36L70 EWS 740 CL1	9.51	96268484	
R2L2 S 48L70 EWS 740 CL1	9.97	96268513	
R2L2 Small, Extra wide street comfort optic			
R2L2 S 12L35 EWSC 740 CL1	9.08	96268396	
R2L2 S 12L50 EWSC 740 CL1	9.08	96268404	
R2L2 S 12L70 EWSC 740 CL1	9.08	96268416	
R2L2 S 24L35 EWSC 740 CL1	9.54	96268428	
R2L2 S 24L50 EWSC 740 CL1	9.54	96268439	
R2L2 S 36L35 EWSC 740 CL1	9.51	96268462	
R2L2 S 48L35 EWSC 740 CL1	9.56	96268496	
R2L2 S 24L70 EWSC 740 CL1	9.54	96268451	
R2L2 S 36L50 EWSC 740 CL1	9.51	96268473	
R2L2 S 48L50 EWSC 740 CL1	9.56	96268507	
R2L2 S 36L70 EWSC 740 CL1	9.51	96268485	
R2L2 S 48L70 EWSC 740 CL1	9.97	96268514	
R2L2 Medium, Narrow road optic			
R2L2 M 60L35 NR 740 CL1	12.86	96268295	RLM6035NR
R2L2 M 72L35 NR 740 CL1	12.83	96268324	RLM7235NR
R2L2 M 84L35 NR 740 CL1	13.29	96266575	RLM8435NR
R2L2 M 60L50 NR L740 CL1	13.26	96266416	RLM6050NR
R2L2 M 96L35 NR 740 CL1	13.34	96266687	RLM9635NR
R2L2 M 72L50 NR L740 CL1	13.24	96266504	RLM7250NR
R2L2 M 84L50 NR 740 CL1	13.29	96266607	RLM8450NR
R2L2 M 60L70 NR 740 CL1 HT	13.31	96269279	
R2L2 M 60L70 NR L740 CL1	13.26	96266448	RLM6070NR
R2L2 M 96L50V2 NR 740 CL1	13.64	96266721	RLM9650NR
R2L2 M 96L50V2 NR 740 CL1 HT	13.69	96269309	
R2L2 M 72L70V2 NR 740 CL1 HT	13.58	96269289	
R2L2 M 72L70V2 NR L740 CL1	13.53	96266541	RLM7270NR
R2L2 M 84L70 NR 740 CL1	13.58	96266653	RLM8470NR
R2L2 M 84L70 NR 740 CL1 HT	13.63	96269299	
R2L2 M 96L70 NR 740 CL1	14.45	96266760	RLM9670NR
R2L2 M 96L90 NR 740 CL1	14.50	96274635	

R2L2



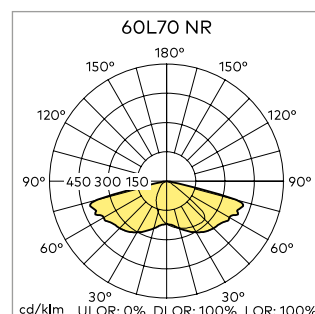
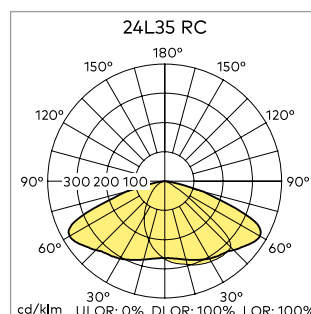
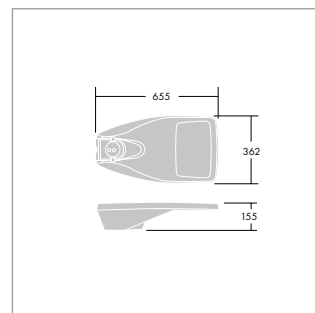
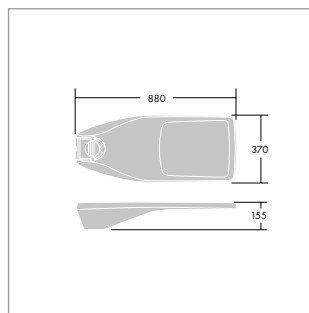
www.thornlighting.co.uk/R2L2
www.thornlighting.ie/R2L2

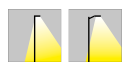
Description	Wt (kg)	SAP Code	Cat. No.
R2L2 Medium, Wide street optic			
R2L2 M 60L35 WS 740 CL1	12.86	96268303	
R2L2 M 72L35 WS 740 CL1	12.83	96268332	
R2L2 M 84L35 WS 740 CL1	13.29	96266590	RLM8435WS
R2L2 M 60L50 WS L740 CL1	13.26	96266432	RLM6050WS
R2L2 M 96L35 WS 740 CL1	13.34	96266705	RLM9635WS
R2L2 M 72L50 WS L740 CL1	13.24	96266523	RLM7250WS
R2L2 M 84L50 WS 740 CL1	13.29	96266635	RLM8450WS
R2L2 M 60L70 WS 740 CL1 HT	13.31	96269285	
R2L2 M 60L70 WS L740 CL1	13.26	96266466	RLM6070WS
R2L2 M 96L50 WS 740 CL1 HT	13.69	96269315	
R2L2 M 96L50V2 WS 740 CL1	13.64	96266740	RLM9650WS
R2L2 M 72L70V2 WS L740 CL1	13.53	96266559	RLM7270WS
R2L2 M 84L70 WS 740 CL1	13.58	96266671	RLM8470WS
R2L2 M 84L70 WS 740 CL1 HT	13.63	96269305	
R2L2 M 96L70 WS 740 CL1	14.45	96266779	RLM9670WS
R2L2 M 96L90 WS 740 CL1	14.50	96274640	
R2L2 Medium, Wide street comfort optic			
R2L2 M 60L35 WSC 740 CL1	12.86	96268304	
R2L2 M 72L35 WSC 740 CL1	12.83	96268333	
R2L2 M 84L35 WSC 740 CL1	13.29	96266598	RLM8435WSC
R2L2 M 60L50 WSC L740 CL1	13.26	96266440	RLM6050WSC
R2L2 M 96L35 WSC 740 CL1	13.34	96266713	RLM9635WSC
R2L2 M 72L50 WSC L740 CL1	13.24	96266531	RLM7250WSC
R2L2 M 84L50 WSC 740 CL1	13.29	96266643	RLM8450WSC
R2L2 M 60L70 WSC 740 CL1 HT	13.31	96269287	
R2L2 M 60L70 WSC L740 CL1	13.26	96266474	RLM6070WSC
R2L2 M 96L50 WSC 740 CL1 HT	13.69	96269317	
R2L2 M 96L50V2 WSC 740 CL1	13.64	96266748	RLM9650WSC
R2L2 M 72L70V2 WSC 740 CL1	13.53	96266567	RLM7270WSC
R2L2 M 84L70 WSC 740 CL1	13.58	96266679	RLM8470WSC
R2L2 M 84L70 WSC 740 CL1 HT	13.63	96269307	
R2L2 M 96L70 WSC 740 CL1	14.45	96266787	RLM9670WSC
R2L2 M 96L90 WSC 740 CL1	14.50	96274641	
R2L2 Medium, Wet road optic			
R2L2 M 60L35 RWET 740 CL1	12.86	96268300	
R2L2 M 72L35 RWET 740 CL1	12.83	96268329	
R2L2 M 84L35 RWET 740 CL1	13.29	96268356	
R2L2 M 60L50 RWET 740 CL1	13.26	96268309	
R2L2 M 96L35 RWET 740 CL1	13.34	96268379	
R2L2 M 72L50 RWET 740 CL1	13.24	96268338	
R2L2 M 84L50 RWET 740 CL1	13.29	96268362	
R2L2 M 60L70 RWET 740 CL1	13.26	96268318	
R2L2 M 96L50 RWET 740 CL1	13.64	96268385	
R2L2 M 72L70 RWET 740 CL1	13.53	96268347	
R2L2 M 84L70 RWET 740 CL1	13.58	96268371	
R2L2 M 96L70 RWET 740 CL1	14.45	96268393	RLM9670RWET
R2L2 M 96L90 RWET 740 CL1	14.50	96274637	
R2L2 Medium, Road comfort optic			
R2L2 M 60L35 RC 740 CL1	12.86	96268297	
R2L2 M 72L35 RC 740 CL1	12.83	96268326	
R2L2 M 84L35 RC 740 CL1	13.29	96266577	RLM8435RC
R2L2 M 60L50 RC L740 CL1	13.26	96266419	RLM6050RC
R2L2 M 96L35 RC 740 CL1	13.34	96266692	RLM9635RC
R2L2 M 72L50 RC L740 CL1	13.24	96266509	RLM7250RC
R2L2 M 84L50 RC 740 CL1	13.29	96266615	RLM8450RC
R2L2 M 60L70 RC L740 CL1	13.26	96266453	RLM6070RC
R2L2 M 96L50 RC 740 CL1 HT	13.69	96269311	
R2L2 M 96L50V2 RC 740 CL1	13.64	96266727	RLM9650RC
R2L2 M 72L70V2 RC 740 CL1 HT	13.58	96269291	
R2L2 M 72L70V2 RC L740 CL1	13.53	96266546	RLM7270RC
R2L2 M 84L70 RC 740 CL1	13.58	96266658	RLM8470RC
R2L2 M 84L70 RC 740 CL1 HT	13.63	96269301	
R2L2 M 96L70 RC 740 CL1	14.45	96266763	RLM9670RC
R2L2 M 96L90 RC 740 CL1	14.50	96274636	

A complete road lantern family at the forefront of LED technology to offer excellent lighting performance and cover all applications

Description	Wt (kg)	SAP Code	Cat. No.
R2L2 Medium, Wide road optic			
R2L2 M 60L35 WR 740 CL1	12.86	96268301	
R2L2 M 72L35 WR 740 CL1	12.83	96268330	
R2L2 M 84L35 WR 740 CL1	13.29	96266582	
R2L2 M 60L50 WR L740 CL1	13.26	96266424	
R2L2 M 96L35 WR 740 CL1	13.34	96266697	
R2L2 M 72L50 WR L740 CL1	13.24	96266515	
R2L2 M 84L50 WR 740 CL1	13.29	96266627	
R2L2 M 60L70 WR L740 CL1	13.26	96266458	
R2L2 M 96L50 WR 740 CL1 HT	13.69	96269313	
R2L2 M 96L50V2 WR 740 CL1	13.64	96266732	
R2L2 M 72L70V2 WR L740 CL1	13.53	96266551	
R2L2 M 84L70 WR 740 CL1	13.58	96266663	
R2L2 M 84L70 WR 740 CL1 HT	13.63	96269303	
R2L2 M 96L70 WR 740 CL1	14.45	96266770	
R2L2 M 96L90 WR 740 CL1	14.50	96274639	
R2L2 Medium, Extra wide street optic			
R2L2 M 60L35 EWS 740 CL1	12.86	96268291	
R2L2 M 72L35 EWS 740 CL1	12.83	96268320	
R2L2 M 84L35 EWS 740 CL1	13.29	96268349	
R2L2 M 60L50 EWS 740 CL1	13.26	96268305	
R2L2 M 96L35 EWS 740 CL1	13.34	96268373	
R2L2 M 72L50 EWS 740 CL1	13.24	96268334	
R2L2 M 84L50 EWS 740 CL1	13.29	96268358	
R2L2 M 60L70 EWS 740 CL1	13.26	96268312	
R2L2 M 96L50V2 EWS 740 CL1	13.64	96268381	
R2L2 M 72L70V2 EWS 740 CL1	13.53	96268341	RLM7270EWS
R2L2 M 84L70 EWS 740 CL1	13.58	96268365	
R2L2 M 96L70 EWS 740 CL1	14.45	96268388	
R2L2 M 96L90 EWS 740 CL1	14.50	96274632	
R2L2 M 96L90 EWS 740 CL2	14.30	96274643	
R2L2 Medium, Extra wide street comfort optic			
R2L2 M 96L90 EWSC 740 CL1	14.50	96274633	
R2L2 Medium, 900mA			
R2L2 M 96L90 EWR 740 CL1	14.50	96274631	
R2L2 M 96L90 SC 740 CL1	14.50	96274638	

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Exclusively designed LED lantern
 by world renowned architects,
 city planners and designers
 Wilmotte & Industries



LAMPS

 LED

28-178W

STANDARDS

  IP66 IK09  

- Unique signature at day and night thanks to an optical system designed with special care for comfort
- Outstanding versatility: 9 optics, lumen packages up to 15,000 Llm, 2 sizes, 3 mounting options to fulfill a wide scope of projects (new and renovation) from S5 to Me2. Please refer to page 205 for the Thorn R-PEC® LED options
- Latest generation LED technology with integrated controls to minimise energy and maintenance costs

MATERIALS/FINISH

Luminaire:

Body: die cast aluminium - two options: dark grey (close to RAL 7043) or black (close to RAL 9005) textured finish
 Glass: tempered flat glass or dichroic flat glass (5mm). Prismatic glass on request
 Frame: aluminium - powder polycarbonate, metallised aluminium and varnish
 Deflector: ABS anti-UV white (RAL 9016)

Brackets with coordinated columns: Painted galvanised steel, dark grey or black textured finish.
 Two diameter conical columns dedicated to Urba post top lantern: Painted aluminium, dark grey or black textured finish

INSTALLATION/MOUNTING

Luminaire: Supplied complete and ready to install, in a single box. Pre-wired post-top versions with 8m (small version) or 10m (large version) HO7RN-F cable. The following options are available: side-entry mounting Ø60mm with adjustable tilt angles: 0°, -5°, -10°, post-top mounting Ø60mm or Ø76mm, spigot length 100mm. Weight: 12kg (small versions) and 17kg (large version)

Brackets with coordinated columns: Dedicated range of columns and brackets. Recommended heights for Urba small: 4 to 6m, for Urba large: 6 to 8m. Columns delivered with anchoring bolts. Aluminium columns (diameters: internal 76mm, external 96mm - internal 60mm and external 81mm) with flange mountings: 200x200mm. Galvanised steel columns with flange mountings: 300x300mm

SPECIFICATION

To specify Urba luminaire state: Highly designed urban street lantern with 2 sizes, 7 mounting options, 3 enclosures, 9 light distributions with 2 dedicated optics to comfort (G6). Efficient (up to 100 Llm/W) R-PEC optic. Side entry and post top mountings, 60mm and 76mm diameters, with tilt adjustments. Wide range of intelligent lighting control solutions from stand alone dimming to remote control. As Thorn Urba

To specify Urba brackets and columns state: Wide range of coordinated short and long galvanised steel brackets, diameter 76mm top. Cylindrical conical galvanised steel columns up to 8m. Dark grey and black textured finish. 2 diameter aluminium cylindrical conical columns up to 6m. Dark grey and black textured finish. As Thorn Urba brackets and columns



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Exclusively designed LED lantern
 by world renowned architects,
 city planners and designers
 Wilmotte & Industries



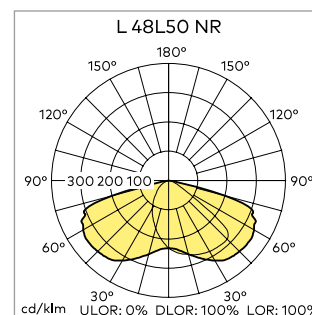
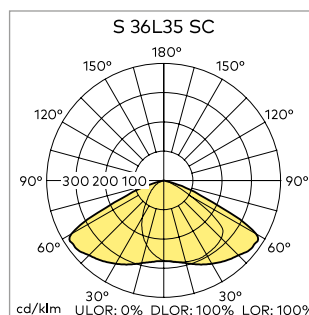
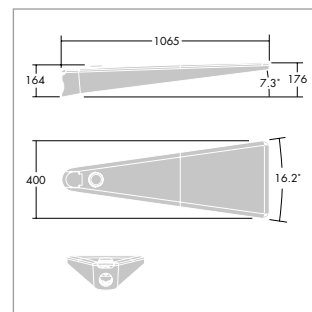
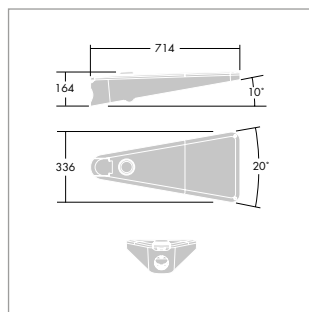
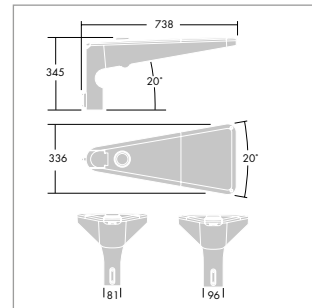
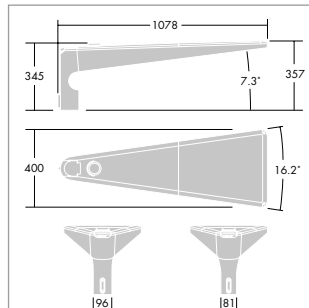
ORDERING GUIDE

Description	Wt (kg)	SAP Code
Urba S RWET		
URBA S 36L70 RWET ANT BP CL1 MLE L740	10.50	96269786
Urba S NR		
URBA S 24L35 NR ANT BP CL1 8M MTP76 L740	10.50	96269824
URBA S 24L35 NR ANT BP CL1 MLE L740	10.50	96269769
URBA S 24L50 NR ANT BP CL1 8M MTP76 L740	10.50	96269827
URBA S 24L50 NR ANT BP CL1 MLE L740	10.50	96269772
URBA S 36L35 NR ANT BP CL1 8M MTP76 L740	10.50	96269825
URBA S 36L35 NR ANT BP CL1 MLE L740	10.50	96269770
URBA S 24L70 NR ANT BP CL1 8M MTP76 L740	10.50	96269830
URBA S 24L70 NR ANT BP CL1 MLE L740	10.50	96269775
URBA S 36L50 NR ANT BP CL1 8M MTP76 L740	10.50	96269828
URBA S 36L50 NR ANT BP CL1 MLE L740	10.50	96269773
URBA S 36L70 NR ANT BP CL1 8M MTP76 L740	10.50	96269831
URBA S 36L70 NR ANT BP CL1 MLE L740	10.50	96269776
URBA S 36L70 NR ANT CL1 MLE L740	10.50	96269850
Urba S WR		
URBA S 24L35 WR ANT BP CL1 8M MTP76 L740	10.50	96269833
URBA S 24L35 WR ANT BP CL1 MLE L740	10.50	96269778
URBA S 24L50 WR ANT BP CL1 8M MTP76 L740	10.50	96269836
URBA S 24L50 WR ANT BP CL1 MLE L740	10.50	96269781
URBA S 36L35 WR ANT BP CL1 MLE L740	10.50	96269779
URBA S 36L35 WR ANT BP CL1 8M MTP76 L740	10.50	96269834
URBA S 24L70 WR ANT BP CL1 8M MTP76 L740	10.50	96269839
URBA S 24L70 WR ANT BP CL1 MLE L740	10.50	96269784
URBA S 36L50 WR ANT BP CL1 8M MTP76 L740	10.50	96269837
URBA S 36L50 WR ANT BP CL1 MLE L740	10.50	96269782
URBA S 36L70 WR ANT BP CL1 8M MTP76 L740	10.50	96269840
URBA S 36L70 WR ANT BP CL1 MLE L740	10.50	96269785

Description	Wt (kg)	SAP Code
Urba S WSC		
URBA S 24L35 WSC ANT BP CL1 8M MTP76 740	10.50	96269842
URBA S 24L35 WSC ANT BP CL1 MLE L740	10.50	96269788
URBA S 24L50 WSC ANT BP CL1 8M MTP76 740	10.50	96269845
URBA S 24L50 WSC ANT BP CL1 MLE L740	10.50	96269791
URBA S 36L35 WSC ANT BP CL1 8M MTP76 740	10.50	96269843
URBA S 36L35 WSC ANT BP CL1 MLE L740	10.50	96269789
URBA S 24L70 WSC ANT BP CL1 8M MTP76 740	10.50	96269848
URBA S 24L70 WSC ANT BP CL1 MLE L740	10.50	96269794
URBA S 36L50 WSC ANT BP CL1 8M MTP76 740	10.50	96269846
URBA S 36L50 WSC ANT BP CL1 MLE L740	10.50	96269792
URBA S 36L70 WSC ANT BP CL1 8M MTP76 740	10.50	96269849
URBA S 36L70 WSC ANT BP CL1 MLE L740	10.50	96269795
Urba S SC		
URBA S 24L35 SC ANT BP CL1 MLE L740	10.50	96269797
URBA S 24L50 SC ANT BP CL1 MLE L740	10.50	96269800
URBA S 36L35 SC ANT BP CL1 8M MTP76 740	10.50	96270862
URBA S 36L35 SC ANT BP CL1 MLE L740	10.50	96269798
URBA S 36L35 SC BK BP CL1 8M MTP76 740	10.50	96270860
URBA S 24L70 SC ANT BP CL1 MLE L740	10.50	96269803
URBA S 36L50 SC ANT BP CL1 MLE L740	10.50	96269801
URBA S 36L70 SC ANT BP CL1 MLE L740	10.50	96269804
Urba S PWC		
URBA S 24L35 PWC ANT BP CL1 MLE L740	10.50	96269806
URBA S 24L50 PWC ANT BP CL1 MLE L740	10.50	96269809
URBA S 36L35 PWC ANT BP CL1 MLE L740	10.50	96269807
URBA S 36L35 PWC BK BP CL1 8M MTP76 740	10.50	96270076
URBA S 24L70 PWC ANT BP CL1 MLE L740	10.50	96269812
URBA S 36L50 PWC ANT BP CL1 MLE L740	10.50	96269810
URBA S 36L70 PWC ANT BP CL1 MLE L740	10.50	96269813

Description	Wt (kg)	SAP Code
Urba L RC		
URBA L 48L35 RC ANT BP CL1 10M MTP76 L74	16.00	96270021
URBA L 48L35 RC ANT BP CL1 MLE L740	16.00	96270002
URBA L 48L50 RC ANT BP CL1 10M MTP76 L74	16.00	96270024
URBA L 48L50 RC ANT BP CL1 MLE L740	16.00	96270005
URBA L 72L35 RC ANT BP CL1 10M MTP76 L74	16.00	96270022
URBA L 72L35 RC ANT BP CL1 MLE L740	16.00	96270003
URBA L 84L35 RC ANT BP CL1 10M MTP76 L74	16.00	96270023
URBA L 84L35 RC ANT BP CL1 MLE L740	16.00	96270004
URBA L 48L70 RC ANT BP CL1 10M MTP76 L74	16.00	96270027
URBA L 48L70 RC ANT BP CL1 MLE L740	16.00	96270008
URBA L 72L50 RC ANT BP CL1 10M MTP76 L74	16.00	96270025
URBA L 72L50 RC ANT BP CL1 MLE L740	16.00	96270006
URBA L 84L50 RC ANT BP CL1 10M MTP76 L74	16.00	96270026
URBA L 84L50 RC ANT BP CL1 MLE L740	16.00	96270007
URBA L 60L70 RC ANT BP CL1 10M MTP76 L74	16.00	96270053
URBA L 60L70 RC ANT BP CL1 MLE L740	16.00	96270051
URBA L 72L70V2 RC ANT BP CL1 10MMTP76 740	16.00	96270028
URBA L 72L70V2 RC ANT BP CL1 MLE L740	16.00	96270009
URBA L 84L70 RC ANT BP CL1 10M MTP76 L74	16.00	96270029
URBA L 84L70 RC ANT BP CL1 MLE L740	16.00	96270010
Urba L NR		
URBA L 48L35 NR ANT BP CL1 10M MTP76 L74	16.00	96270012
URBA L 48L35 NR ANT BP CL1 MLE L740	16.00	96269993
URBA L 48L50 NR ANT BP CL1 10M MTP76 L74	16.00	96270015
URBA L 48L50 NR ANT BP CL1 MLE L740	16.00	96269996
URBA L 72L35 NR ANT BP CL1 10M MTP76 L74	16.00	96270013
URBA L 72L35 NR ANT BP CL1 MLE L740	16.00	96269994
URBA L 84L35 NR ANT BP CL1 10M MTP76 L74	16.00	96270014
URBA L 84L35 NR ANT BP CL1 MLE L740	16.00	96269995
URBA L 48L70 NR ANT BP CL1 10M MTP76 L74	16.00	96270018
URBA L 48L70 NR ANT BP CL1 MLE L740	16.00	96269999
URBA L 48L70 NR ANT CL1 HT MLE L740	16.00	96271390
URBA L 48L70 NR ANT CL1 HT10M TP76 740	16.00	96271382
URBA L 72L50 NR ANT BP CL1 10M MLE L740	16.00	96271355
URBA L 72L50 NR ANT BP CL1 10M MTP76 L74	16.00	96270016
URBA L 72L50 NR ANT BP CL1 MLE L740	16.00	96269997
URBA L 72L50 NR ANT CL1 HT MLE L740	16.00	96271375
URBA L 72L50 NR ANT CL1 HT10M TP76 740	16.00	96271380
URBA L 84L50 NR ANT BP 10KV CL1 MLE L740	16.00	96269990
URBA L 84L50 NR ANT BP CL1 10M MTP76 L74	16.00	96270017
URBA L 84L50 NR ANT BP CL1 MLE L740	16.00	96269998
URBA L 84L50 NR ANT CL1 HT10M TP76 740	16.00	96271381
URBA L 60L70 NR ANT BP CL1 10M MTP76 L74	16.00	96270052
URBA L 60L70 NR ANT BP CL1 MLE L740	16.00	96270050
URBA L 60L70 NR ANT CL1 HT MLE L740	16.00	96271386
URBA L 60L70 NR ANT CL1 HT10M TP76 740	16.00	96271388
URBA L 72L70V2 NR ANT BP C1 10MMTP76 740	16.00	96270019
URBA L 72L70V2 NR ANT BP CL1 MLE L740	16.00	96270000
URBA L 84L70 NR ANT BP CL1 10M MTP76 L74	16.00	96270020
URBA L 84L70 NR ANT BP CL1 MLE L740	16.00	96270001
URBA L 84L70 NR ANT BP PM CL1 10MTP76740	16.00	96270033
URBA L 84L70 NR ANT CL1 MLE L740	16.00	96270030
URBA L 84L70 NR ANT CLO CL1 MLE L740	16.00	96270031
URBA L 84L70 NR ANT PM CL1 MLE L740	16.00	96270032
Urba L WSC		
URBA L 72L50 WSC ANT BP CL1 MLE L740	16.00	96270011

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- Offers the best balance between cost of ownership and performance. Fitted with R-PEC[®] optic to bring safe and efficient light to residential streets and high traffic roads
- Available in 2 sizes up to 17klm, 12 precise light distributions and versatile installation possibilities - CiviTEQ adapts to any installation layout. Please refer to page 205 for the Thorn R-PEC[®] LED options
- Comprehensive range of controls incorporating the Bi-Power Switch to activate or deactivate dimming onsite
- Compact and lightweight luminaire for easy handling and installation with a low windage (CiviTEQ S: 0.77m², CiviTEQ L: 0.115m²)

MATERIALS/FINISH

Performance version: Canopy: die-cast aluminium, powder coated grey RAL 9006 (other RAL colours on request) with rear clip in stainless steel
 Basic version: Canopy: reinforced plastic, RAL 9006 with screws
 Body: die-cast aluminium unpainted
 Spigot: plain die-cast aluminium
 Enclosure: toughened glass
 Screws: stainless steel

INSTALLATION/MOUNTING

CL1: Suitable for mounting on top Ø76mm or side Ø60mm or Ø42mm.
 CL2: Suitable for mounting on top Ø76mm or side Ø60mm (MA34/42mm with accessory).
 Variable tilting setting: 0° to +10° on post top mounting and -20° to 0° on lateral mounting, in 5° steps.
 Tilt adaptor 0° with bracket tilted at -45° as accessory.
 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:
 Unobtrusive, cost effective road lighting solution with 12 precise lighting distributions, fully versatile installation possibilities, low maintenance requirements and no need to replace LED driver. CMS with Radio Frequency and Powerline system, is also compatible with other controls systems. Choice of options and accessories: 10KV, automatic disconnection, BPS, LRT, photocell and external louvres.
 As Thorn CiviTEQ



LAMPS



LED

15-152W

STANDARDS



IP66

IK08

T_a25

ORDERING GUIDE

Supplied complete with LED.

Description	Wt (kg)	SAP Code
Civiteq Small, Narrow road optic		
CQ 12L35-740 NR BPS CL1 M42	5.70	96643264
CQ 12L50-740 NR BPS CL1 M42	5.70	96643265
CQ 12L70-740 NR BPS CL1 M42	5.70	96643266
CQ 24L35-740 NR BPS CL1 M42	5.70	96643268
CQ 24L50-740 NR BPS CL1 M42	5.70	96643269
CQ 36L35-740 NR BPS CL1 M42	5.70	96643272
CQ 24L70-740 NR BPS CL1 M42	5.70	96643270
CQ 36L50-740 NR BPS CL1 M42	5.70	96643273
CQ 36L70-740 NR BPS CL1 M42	5.70	96643274
Civiteq Small, Narrow road optic, configured products		
CQ 12L35-740 NR BPS CL1 M76	5.70	96643285
CQ 12L50-740 NR BPS CL1 M76	5.70	96643286
CQ 12L70-740 NR CLO BPS PN5 CL1 M42	5.60	92900523
CQ 12L70-740 NR BPS CL1 M76	5.70	96643287
CQ 24L35-740 NR BPS 10K CL1 M42	5.60	92900342
CQ 24L35-740 NR CL1 BPS M76	5.70	96643289
CQ 24L50-740 NR BPS CL1 M76	5.70	96643290
CQ 24L50-740 NR BPS CL1 PN5 MLE42E	5.70	96627557
CQ 36L35-740 NR BPS CL1 M76	5.70	96643293
CQ 24L70-740 NR BPS CL1 M76	5.70	96643291
CQ 24L70-740 NR BPS CL1 PN MA42 ADC 10KV	5.70	96627846
CQ 36L50-740 NR BPS CL1 M76	5.70	96643294
CQ 36L70-740 NR BPS CL1 M76	5.70	96643295
CQ 36L70-740 NR BPS CL1 PM M60	5.70	96643325
Civiteq Small, Wide street optic		
CQ 12L35-740 WS BPS CL1 M42	5.40	96665384
CQ 12L50-740 WS BPS CL1 M42	5.40	96665385
CQ 12L70-740 WS BPS CL1 M42	5.40	96665386
CQ 24L35-740 WS BPS CL1 M42	5.40	96665387
CQ 24L50-740 WS BPS CL1 M42	5.40	96665388
CQ 36L35-740 WS BPS CL1 M42	5.50	96665390
CQ 24L70-740 WS BPS CL1 M42	5.40	96665389
CQ 36L50-740 WS BPS CL1 M42	5.50	96665391
CQ 36L70-740 WS BPS CL1 M42	5.60	96665392
Civiteq Small, Wide street optic, configured products		
CQ 24L35-740 WS BPS CL1 PN M76	5.50	96628335
CQ 36L35-740 WS BPS CL1 PN M76	5.60	96628337

Description	Wt (kg)	SAP Code
Civiteq Small, Pedestrian walkway and cycle path optic		
CQ 12L35-740 PWC BPS CL1 M42	5.40	96665393
CQ 12L50-740 PWC BPS CL1 M42	5.40	96665394
CQ 12L70-740 PWC BPS CL1 M42	5.40	96665395
CQ 24L35-740 PWC BPS CL1 M42	5.40	96665396
CQ 24L50-740 PWC BPS CL1 M42	5.40	96665397
CQ 36L35-740 PWC BPS CL1 M42	5.60	96665399
CQ 24L70-740 PWC BPS CL1 M42	5.40	96665398
CQ 36L50-740 PWC BPS CL1 M42	5.50	96665400
CQ 36L70-740 PWC BPS CL1 M42	5.60	96665401
Civiteq Small, Wide street comfort optic		
CQ 12L35-740 WSC BPS CL1 M42	5.40	96665402
CQ 12L50-740 WSC BPS CL1 M42	5.40	96665403
CQ 12L70-740 WSC BPS CL1 M42	5.40	96665404
CQ 24L35-740 WSC BPS CL1 M42	5.40	96665405
CQ 24L50-740 WSC BPS CL1 M42	5.40	96665406
CQ 36L35-740 WSC BPS CL1 M42	5.50	96665408
CQ 24L70-740 WSC BPS CL1 M42	5.40	96665407
CQ 36L50-740 WSC BPS CL1 M42	5.50	96628250
CQ 36L70-740 WSC BPS CL1 M42	5.60	96665410
Civiteq Small, Wet road optic		
CQ 12L35-740 RWET BPS CL1 M42	5.40	96665411
CQ 12L50-740 RWET BPS CL1 M42	5.40	96665412
CQ 12L70-740 RWET BPS CL1 M42	5.40	96665413
CQ 24L35-740 RWET BPS CL1 M42	5.40	96665414
CQ 24L50-740 RWET BPS CL1 M42	5.40	96665415
CQ 36L35-740 RWET BPS CL1 M42	5.50	96665417
CQ 24L70-740 RWET BPS CL1 M42	5.40	96665416
CQ 36L50-740 RWET BPS CL1 M42	5.50	96665418
CQ 36L70-740 RWET BPS CL1 M42	5.60	96665419
Civiteq Small, Road comfort optic		
CQ 12L35-740 RC BPS CL1 M42	5.40	96665420
CQ 12L50-740 RC BPS CL1 M42	5.40	96665421
CQ 12L70-740 RC BPS CL1 M42	5.40	96665422
CQ 24L35-740 RC BPS CL1 M42	5.40	96665423
CQ 24L50-740 RC BPS CL1 M42	5.40	96665424
CQ 36L35-740 RC BPS CL1 M42	5.50	96665426
CQ 24L70-740 RC BPS CL1 M42	5.40	96665425
CQ 36L50-740 RC BPS CL1 M42	5.50	96665427
CQ 36L70-740 RC BPS CL1 M42	5.60	96665428



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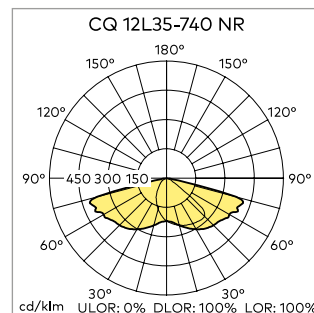
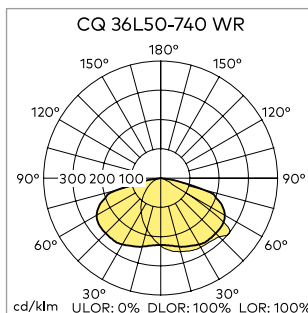
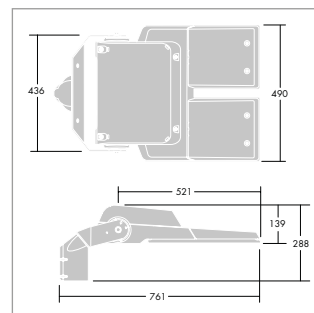
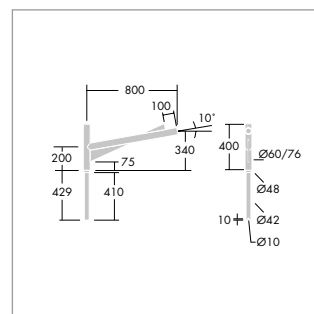
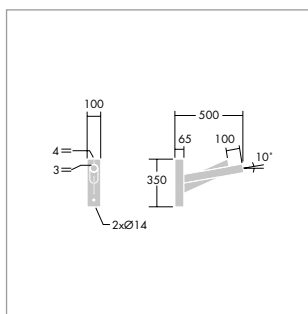
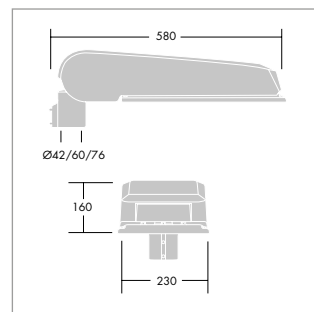
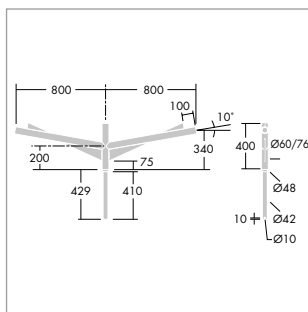
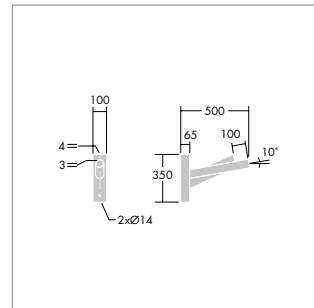
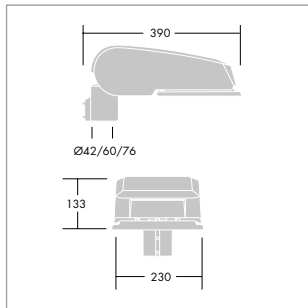
Description	Wt (kg)	SAP Code
CiviTEQ Small, Wide road optic		
CQ 12L35-740 WR BPS CL1 M42	5.40	96665429
CQ 12L50-740 WR BPS CL1 M42	5.40	96665430
CQ 12L70-740 WR BPS CL1 M42	5.40	96665431
CQ 24L35-740 WR BPS CL1 M42	5.40	96665432
CQ 24L50-740 WR BPS CL1 M42	5.40	96665433
CQ 36L35-740 WR BPS CL1 M42	5.50	96665435
CQ 24L70-740 WR BPS CL1 M42	5.40	96665434
CQ 36L50-740 WR BPS CL1 M42	5.50	96665436
CQ 36L70-740 WR BPS CL1 M42	5.60	96665437
CiviTEQ Small, Extra wide street optic		
CQ 12L35-740 EWS BPS CL1 M42	5.40	96665438
CQ 12L50-740 EWS BPS CL1 M42	5.40	96665439
CQ 12L70-740 EWS BPS CL1 M42	5.40	96665440
CQ 24L35-740 EWS BPS CL1 M42	5.40	96665441
CQ 24L50-740 EWS BPS CL1 M42	5.40	96665442
CQ 36L35-740 EWS BPS CL1 M42	5.50	96665444
CQ 24L70-740 EWS BPS CL1 M42	5.40	96665443
CQ 36L50-740 EWS BPS CL1 M42	5.50	96665445
CQ 36L70-740 EWS BPS CL1 M42	5.60	96665446
CiviTEQ Small, Extra wide street optic, configured products		
CQ 12L70-740 EWS BPS CL1 M76	5.50	96628323
CQ 36L35-740 EWS BPS CL1 PN M42	5.50	96628480
CQ 24L70-740 EWS BPS CL1 M76	5.40	96628324
CiviTEQ Small, Street comfort optic		
CQ 12L35-740 SC BPS CL1 M42	5.40	96665447
CQ 12L50-740 SC BPS CL1 M42	5.40	96665448
CQ 12L70-740 SC BPS CL1 M42	5.40	96665449
CQ 24L35-740 SC BPS CL1 M42	5.40	96665450
CQ 24L50-740 SC BPS CL1 M42	5.40	96665451
CQ 36L35-740 SC BPS CL1 M42	5.50	96665453
CQ 24L70-740 SC BPS CL1 M42	5.40	96665452
CQ 36L50-740 SC BPS CL1 M42	5.50	96665454
CQ 36L70-740 SC BPS CL1 M42	5.60	96665455
CiviTEQ Small, Extra wide street comfort optic		
CQ 12L35-740 EWSC BPS CL1 M42	5.40	96665456
CQ 12L50-740 EWSC BPS CL1 M42	5.40	96665457
CQ 12L70-740 EWSC BPS CL1 M42	5.40	96665458
CQ 24L35-740 EWSC BPS CL1 M42	5.40	96665459
CQ 24L50-740 EWSC BPS CL1 M42	5.40	96665460
CQ 36L35-740 EWSC BPS CL1 M42	5.50	96665462
CQ 24L70-740 EWSC BPS CL1 M42	5.40	96665461
CQ 36L50-740 EWSC BPS CL1 M42	5.50	96665463
CQ 36L70-740 EWSC BPS CL1 M42	5.60	96665464
CiviTEQ Small, Extra wide road optic		
CQ 12L35-740 EWR BPS CL1 M42	5.40	96665465
CQ 12L50-740 EWR BPS CL1 M42	5.40	96665466
CQ 12L70-740 EWR BPS CL1 M42	5.40	96665467
CQ 24L35-740 EWR BPS CL1 M42	5.40	96665468
CQ 24L50-740 EWR BPS CL1 M42	5.40	96665469
CQ 36L35-740 EWR BPS CL1 M42	5.50	96665471
CQ 24L70-740 EWR BPS CL1 M42	5.40	96665470
CQ 36L50-740 EWR BPS CL1 M42	5.50	96665472
CQ 36L70-740 EWR BPS CL1 M42	5.60	96665473
CiviTEQ Large, Narrow road optic		
CQ 48L35-740 NR BPS CL1 M42	8.40	96643275
CQ 60L35-740 NR BPS CL1 M42	8.45	96643278
CQ 48L50-740 NR BPS CL1 M42	8.40	96643276
CQ 72L35-740 NR BPS CL1 M42	9.20	96643281
CQ 60L50-740 NR BPS CL1 M42	8.45	96643279
CQ 48L70-740 NR BPS CL1 M42	9.10	96643277
CQ 72L50-740 NR BPS CL1 M42	9.20	96643282
CQ 60L70-740 NR BPS CL1 M42	9.14	96643280
CQ 72L70-740 NR BPS CL1 M42	9.20	96643283
CiviTEQ Large, Narrow road optic, configured products		
CQ 48L35-740 NR BPS CL1 M76	8.59	96643296
CQ 60L35-740 NR BPS CL1 M76	8.63	96643299
CQ 48L50-740 NR BPS CL1 M76	8.59	96643297
CQ 72L35-740 NR BPS CL1 M76	9.38	96643302
CQ 60L50-740 NR BPS CL1 M76	8.63	96643300
CQ 48L70-740 NR BPS CL1 M76	9.28	96643298
CQ 72L50-740 NR BPS CL1 M76	9.38	96643303
CQ 60L70-740 NR BPS CL1 M76	9.32	96643301
CQ 72L70-740 NR BPS CL1 M76	9.38	96643304

Cost-effective LED road lighting solution for refurbishment projects

Description	Wt (kg)	SAP Code
CiviTEQ Large, Wide street optic		
CQ 48L35-740 WS BPS CL1 M42	8.40	96665483
CQ 48L35-740 WS BPS CL1 PN M76	8.51	96628336
CQ 60L35-740 WS BPS CL1 M42	8.45	96665486
CQ 48L50-740 WS BPS CL1 M42	8.40	96665484
CQ 72L35-740 WS BPS CL1 M42	9.20	96665489
CQ 72L35-740 WS BPS CL1 PN M76	9.30	96628338
CQ 60L50-740 WS BPS CL1 M42	8.45	96665487
CQ 48L70-740 WS BPS CL1 M42	9.10	96665485
CQ 72L50-740 WS BPS CL1 M42	9.20	96665490
CQ 60L70-740 WS BPS CL1 M42	9.14	96665488
CQ 72L70-740 WS BPS CL1 M42	9.20	96665491
CiviTEQ Large, Pedestrian walkway and cycle path optic		
CQ 48L35-740 PWC BPS CL1 M42	8.40	96665492
CQ 60L35-740 PWC BPS CL1 M42	8.45	96665495
CQ 48L50-740 PWC BPS CL1 M42	8.40	96665493
CQ 72L35-740 PWC BPS CL1 M42	9.20	96665498
CQ 60L50-740 PWC BPS CL1 M42	8.45	96665496
CQ 48L70-740 PWC BPS CL1 M42	9.10	96665494
CQ 72L50-740 PWC BPS CL1 M42	9.20	96665499
CQ 60L70-740 PWC BPS CL1 M42	9.14	96665497
CQ 72L70-740 PWC BPS CL1 M42	9.20	96665500
CiviTEQ Large, Wide street comfort optic		
CQ 48L35-740 WSC BPS CL1 M42	8.40	96665501
CQ 60L35-740 WSC BPS CL1 M42	8.45	96665504
CQ 48L50-740 WSC BPS CL1 M42	8.40	96665502
CQ 72L35-740 WSC BPS CL1 M42	9.20	96665507
CQ 60L50-740 WSC BPS CL1 M42	8.45	96665505
CQ 48L70-740 WSC BPS CL1 M42	9.10	96665503
CQ 72L50-740 WSC BPS CL1 M42	9.20	96665508
CQ 60L70-740 WSC BPS CL1 M42	9.14	96665506
CQ 72L70-740 WSC BPS CL1 M42	9.20	96665509
CiviTEQ Large, Wet road optic		
CQ 48L35-740 RWET BPS CL1 M42	8.40	96665510
CQ 60L35-740 RWET BPS CL1 M42	8.45	96665513
CQ 48L50-740 RWET BPS CL1 M42	8.40	96665511
CQ 72L35-740 RWET BPS CL1 M42	9.20	96665516
CQ 60L50-740 RWET BPS CL1 M42	8.45	96665514
CQ 48L70-740 RWET BPS CL1 M42	9.10	96665512
CQ 72L50-740 RWET BPS CL1 M42	9.20	96665517
CQ 60L70-740 RWET BPS CL1 M42	9.14	96665515
CQ 72L70-740 RWET BPS CL1 M42	9.20	96665518
CiviTEQ Large, Road comfort optic		
CQ 48L35-740 RC BPS CL1 M42	8.40	96665519
CQ 60L35-740 RC BPS CL1 M42	8.45	96665522
CQ 48L50-740 RC BPS CL1 M42	8.40	96665520
CQ 72L35-740 RC BPS CL1 M42	9.20	96665525
CQ 60L50-740 RC BPS CL1 M42	8.45	96665523
CQ 48L70-740 RC BPS CL1 M42	9.10	96665521
CQ 72L50-740 RC BPS CL1 M42	9.20	96665526
CQ 60L70-740 RC BPS CL1 M42	9.14	96665524
CQ 72L70-740 RC BPS CL1 M42	9.20	96665527
CiviTEQ Large, Wide road optic		
CQ 48L35-740 WR BPS CL1 M42	8.40	96665528
CQ 60L35-740 WR BPS CL1 M42	8.45	96665531
CQ 48L50-740 WR BPS CL1 M42	8.40	96665529
CQ 72L35-740 WR BPS CL1 M42	9.20	96665534
CQ 60L50-740 WR BPS CL1 M42	8.45	96665532
CQ 48L70-740 WR BPS CL1 M42	9.10	96665530
CQ 72L50-740 WR BPS CL1 M42	9.20	96665535
CQ 60L70-740 WR BPS CL1 M42	9.14	96665533
CQ 72L70-740 WR BPS CL1 M42	9.20	96665536
CiviTEQ Large, Extra wide street optic		
CQ 48L35-740 EWS BPS CL1 M42	8.40	96665537
CQ 60L35-740 EWS BPS CL1 M42	8.45	96665540
CQ 48L50-740 EWS BPS CL1 M42	8.40	96665538
CQ 72L35-740 EWS BPS CL1 M42	9.20	96665543
CQ 60L50-740 EWS BPS CL1 M42	8.45	96665541
CQ 48L70-740 EWS BPS CL1 M42	9.10	96665539
CQ 72L50-740 EWS BPS CL1 M42	9.20	96665544
CQ 60L70-740 EWS BPS CL1 M42	9.14	96665542
CQ 72L70-740 EWS BPS CL1 M42	9.20	96665545

Description	Wt (kg)	SAP Code
CiviTEQ Large, Street comfort optic		
CQ 48L35-740 SC BPS CL1 M42	8.40	96665546
CQ 60L35-740 SC BPS CL1 M42	8.45	96665549
CQ 48L50-740 SC BPS CL1 M42	8.40	96665547
CQ 72L35-740 SC BPS CL1 M42	9.20	96665552
CQ 60L50-740 SC BPS CL1 M42	8.45	96665550
CQ 48L70-740 SC BPS CL1 M42	9.10	96665548
CQ 72L50-740 SC BPS CL1 M42	9.20	96665553
CQ 60L70-740 SC BPS CL1 M42	9.14	96665551
CQ 72L70-740 SC BPS CL1 M42	9.20	96665554
CiviTEQ Large, Extra wide street comfort optic		
CQ 48L35-740 EWSC BPS CL1 M42	8.40	96665555
CQ 60L35-740 EWSC BPS CL1 M42	8.45	96665558
CQ 48L50-740 EWSC BPS CL1 M42	8.40	96665556
CQ 72L35-740 EWSC BPS CL1 M42	9.20	96665561
CQ 60L50-740 EWSC BPS CL1 M42	8.45	96665559
CQ 48L70-740 EWSC BPS CL1 M42	9.10	96665557
CQ 72L50-740 EWSC BPS CL1 M42	9.20	96665562
CQ 60L70-740 EWSC BPS CL1 M42	9.14	96665560
CQ 72L70-740 EWSC BPS CL1 M42	9.20	96665563
CiviTEQ Large, Extra wide road optic		
CQ 48L35-740 EWR BPS CL1 M42	8.40	96665564
CQ 60L35-740 EWR BPS CL1 M42	8.45	96665567
CQ 48L50-740 EWR BPS CL1 M42	8.40	96665565
CQ 72L35-740 EWR BPS CL1 M42	9.20	96665570
CQ 60L50-740 EWR BPS CL1 M42	8.45	96665568
CQ 48L70-740 EWR BPS CL1 M42	9.10	96665566
CQ 72L50-740 EWR BPS CL1 M42	9.20	96665571
CQ 60L70-740 EWR BPS CL1 M42	9.14	96665569
CQ 72L70-740 EWR BPS CL1 M42	9.20	96665572
Brackets		
ISARO BRA COL 0,50M R9006	4.20	96269061
ISARO BRA MWA 0,50M R9006	4.40	96269060
ISARO BRAX1 MA60 0,80M R9006	7.70	96269056
ISARO BRAX1 MA76 0,80M R9006	7.70	96269057
ISARO BRAX2 MA60 0,80M R9006	11.70	96269058
ISARO BRAX2 MA76 0,80M R9006	11.70	96269059

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Olsys

Street



www.thornlighting.co.uk/OSYR
www.thornlighting.ie/OSYR

Versatile street lantern employing a state-of-the-art LED engine for performance and efficiency



- 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
- Up to 12,500lm/W available

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 24-85W (up to 7000lm) LED packages, powder coated silver grey 9006, integrated dimming system and coordinated decorative columns and brackets.
 As Thorn Olsys Street.



Double long bracket



Double long bracket



Side entry with curved pole



Double post top bracket

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 10L70-740 STR BP8 CL1	2.81	96274078	
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 MTP 60/76	1.40	96262298	OY1SPT6076
OLSYS1 MTP 60/76 X2	2.10	96262299	OY1SDPT6076
Olsys 2 street			
OLSYS2 24L70-740 STR BP8 CL1	8.50	96274091	
OLSYS2 36L70-740 STR BP8 CL1	8.52	96274097	
OLSYS2 36L70-740 STR BP8 PM CL1	8.45	96274099	
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 MTP 60/76	2.90	96262304	OY2APT60
OLSYS2 MTP 60/76 X2	5.00	96262305	OY2SDPT6076
OLSYS2 MWA STR	0.60	96267967	

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LAMPS

LED

24-85W

STANDARDS



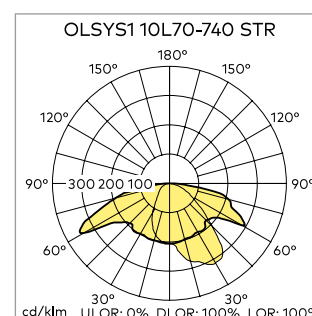
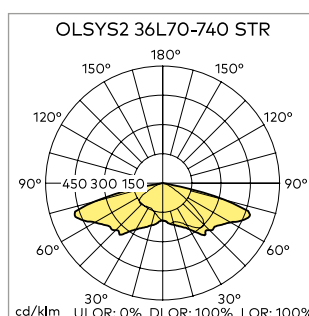
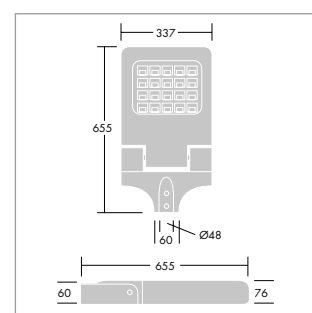
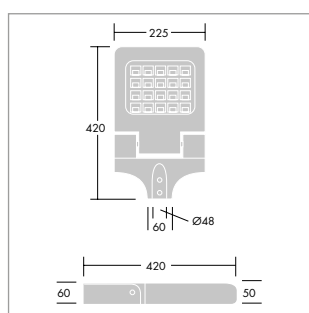
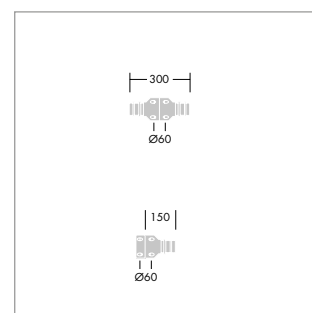
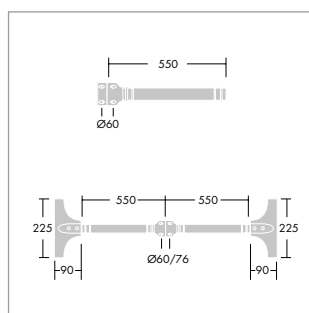
EN 60598



IP66

IK08

T₅₀





www.thornlighting.co.uk/THOR
www.thornlighting.ie/THOR



A range of smart LED urban lanterns providing high user comfort and easy integration of connectivity and sensors into city environments



- High lighting quality creates a comfortable ambience
- Designed around the high performance R-PEC® light engine, ensuring an excellent balance between performance and comfort. Please refer to page 205 for the Thorn R-PEC® LED options
- Wide choice of control options with a discreet RF variant
- Flexible mounting options extend the scope of application
- 2 sizes available: Thor S and Thor L

MATERIALS/FINISH

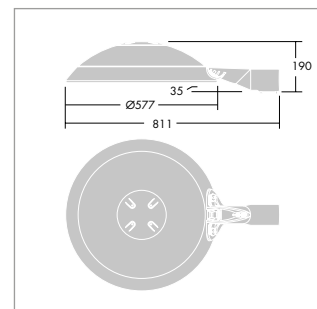
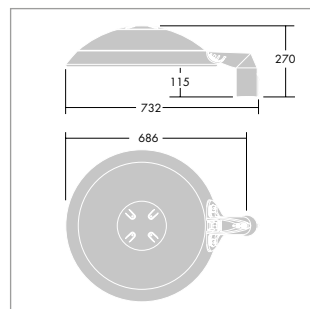
Dome, 2 options : UV stabilized polycarbonate with dark sandy grey finish, close to RAL7043 or opal finish.
 Glass: 4mm thick toughened flat glass
 Bracket: die cast aluminium (AS12U, LM6 equivalent, EN AC-44300) treated against corrosion and powder coated dark sandy grey (close to RAL7043).
 Body: die cast aluminium (AS12U, LM6 equivalent, EN AC-44300) treated against corrosion and powder coated dark sandy grey (close to RAL7043).
 Ring: die cast aluminium (AS12U, LM6 equivalent, EN AC-44300) treated against corrosion and powder coated dark sandy grey (close to RAL7043).
 Reflector: ABS white with UV treatment
 Screws and closing set: Stainless steel

INSTALLATION/MOUNTING

Recommended mounting height: 6m to 8m. All versions are pre-wired with 9m cable. Supplied complete and ready to install, in a single box. Weight: 15,2kg max. Suitable for both post top and side entry mounting Ø60mm as standard. Side mounting: Ø60mm x 100mm long spigot, tilting -15° max, secured by 2 screws, delivered tilted at 0° by default. Top mounting: Ø60mm spigot, tilting +10° max, secured by 2 stainless steel screws, delivered tilted at 0° by default. Access from above. Optimised narrow road (NR), wet road (R-WET) and street comfort (SC) optics for good control and performance. Catenary and suspended versions fixed through 27G, adaptor for 34G (available on request) Ø48 mm lateral and post top versions (external Ø60mm, internal Ø48mm), available on request.

SPECIFICATION

To specify state:
 IP66 durable urban LED lantern with 2 finishes (full dome or opal dome). Luminaire flux up to 13 500 Lm. Efficiency up to 126 Lm/W. Ø60mm side entry, and post top mountings, as standard. Tilting from -15° to +10°. NR, RWET and SC R-PEC® optics. CLO, bi-power, DALI and Radio Frequency (RF) as standard. Ø48mm lateral, Ø48mm post top mountings, catenary and suspended versions on request. Compatible with a wide range of intelligent lighting controls.
 As Thorn Thor.





LAMPS



LED

52-108W

STANDARDS

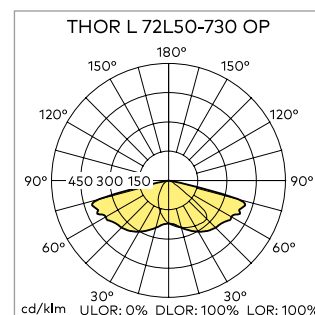


ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Thor L Narrow road optic, full dome			
THOR L 48L50-730 NR BP CL1 FD 9M MLE	13.90	96643960	TRLS48L50B8NR3KD
THOR L 48L50-730 NR BP CL1 FD 9M MTP	13.90	96643940	TRLP48L50B8NR3KD
THOR L 48L50-740 NR BP CL1 FD 9M MLE	13.90	96643958	TRLS48L50B8NR4KD
THOR L 48L50-740 NR BP CL1 FD 9M MTP	13.90	96643938	TRLP48L50B8NR4KD
THOR L 72L50-730 NR BP CL1 FD 9M MLE	14.80	96643970	TRLS72L50B8NR3KD
THOR L 72L50-730 NR BP CL1 FD 9M MTP	14.80	96643950	TRLP72L50B8NR3KD
THOR L 72L50-740 NR BP CL1 FD 9M MLE	14.80	96643968	TRLS72L50B8NR4KD
THOR L 72L50-740 NR BP CL1 FD 9M MTP	14.80	96643948	TRLP72L50B8NR4KD
Thor L Narrow road optic, opal dome			
THOR L 48L50-730 NR BP CL1 OP 9M MLE	14.20	96643920	
THOR L 48L50-730 NR BP CL1 OP 9M MTP	14.20	96643900	
THOR L 48L50-740 NR BP CL1 OP 9M MLE	14.20	96643918	
THOR L 48L50-740 NR BP CL1 OP 9M MTP	14.20	96643898	
THOR L 72L50-730 NR BP CL1 OP 9M MLE	14.60	96643930	
THOR L 72L50-730 NR BP CL1 OP 9M MTP	14.60	96643910	
THOR L 72L50-740 NR BP CL1 OP 9M MLE	14.60	96643928	
THOR L 72L50-740 NR BP CL1 OP 9M MTP	14.60	96643908	
Thor L Narrow road optic, configured products			
THOR L 48L50-740 NR BP CL1 PM FD 9M MLE	13.90	96643972	TRLS48L50B8MNR4KD
Thor L Street comfort optic, full dome			
THOR L 48L50-730 SC BP CL1 FD 9M MLE	13.90	96643961	TRLS48L50B8SC3KD
THOR L 48L50-730 SC BP CL1 FD 9M MTP	13.90	96643941	TRLP48L50B8SC3KD
THOR L 48L50-740 SC BP CL1 FD 9M MLE	13.90	96643959	TRLS48L50B8SC4KD
THOR L 48L50-740 SC BP CL1 FD 9M MTP	13.90	96643939	TRLP48L50B8SC4KD
THOR L 72L50-730 SC BP CL1 FD 9M MLE	14.80	96643971	TRLS72L50B8SC3KD
THOR L 72L50-730 SC BP CL1 FD 9M MTP	14.80	96643951	TRLP72L50B8SC3KD
THOR L 72L50-740 SC BP CL1 FD 9M MLE	14.80	96643969	TRLS72L50B8SC4KD
THOR L 72L50-740 SC BP CL1 FD 9M MTP	14.80	96643949	TRLP72L50B8SC4KD
Thor L Street comfort optic, opal dome			
THOR L 48L50-730 SC BP CL1 OP 9M MLE	14.20	96643921	
THOR L 48L50-730 SC BP CL1 OP 9M MTP	14.20	96643901	
THOR L 48L50-740 SC BP CL1 OP 9M MLE	14.20	96643919	
THOR L 48L50-740 SC BP CL1 OP 9M MTP	14.20	96643899	
THOR L 72L50-730 SC BP CL1 OP 9M MLE	14.60	96643931	
THOR L 72L50-730 SC BP CL1 OP 9M MTP	14.60	96643911	
THOR L 72L50-740 SC BP CL1 OP 9M MLE	14.60	96643929	
THOR L 72L50-740 SC BP CL1 OP 9M MTP	14.60	96643909	

Description	Wt (kg)	SAP Code	Cat. No.
Thor S Narrow road optic, full dome			
THOR S 24L70-740 NR-S BPS CL1 FD MCA	8.60	96665346	
THOR S 36L50-740 NR BPS CL1 FD 6M MLE	10.00	96665291	
THOR S 36L50-740 NR BPS CL1 FD 6M MTP	10.00	96665250	
THOR S 36L50-740 NR BPS CL1 FD MSU 27G	8.20	96628513	
THOR S 36L50-740 NR BPS CL1 FD MSU 27G	8.20	96628514	
THOR S 36L50-740 NR BPS CL1 FD MSU 34G	8.20	96665322	
THOR S 36L70-730 NR BPS CL2 FD MSU 34G	8.20	96665326	
THOR S 36L70-740 NR BPS CL1 FD 6M MLE	10.00	96665305	
THOR S 36L70-740 NR BPS CL1 FD 6M MTP	10.00	96665265	
THOR S 36L70-740 NR BPS CL1 FD MSU 27G	8.20	96628518	
THOR S 36L70-740 NR BPS CL1 FD MSU 34G	8.20	96665332	
Thor S Narrow road optic, opal dome			
THOR S 36L50-740 NR BPS CL1 OP 6M MTP	10.60	96665251	
THOR S 36L70-740 NR BPS CL1 OP 6M MLE	10.60	96665306	
THOR S 36L70-740 NR BPS CL1 OP 6M MTP	10.60	96665266	
Thor S Wide street optic, full dome			
THOR S 24L105-740 WS-S BPS CL1 FD MCA	8.60	96665355	

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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 114 lm/W). Please refer to page 205 for the Thorn R-PEC® LED options
- Durable IP66 and IK10 luminaire made of high quality die-cast aluminium
- Coordinated with new brackets and columns for a full harmonised architectural project

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 36L50 NR 740 CL1 HT MLE60	11.70	96263154	DY59RSM
DYANA LED 36L100 NR 740 CL1 MLE60	11.60	96264391	DY122RSM
DYANA LED 36L100 NR 740 CL1 MLE60 PM	11.70	96264393	
Dyana LED, Bi-power, size 1			
DYANA LED 12L70 NR 740 BP CL1 MA76	10.24	96263159	DY28B8RMA
DYANA LED 12L70 NR 740 BP CL1 MA76 PM	10.30	96263162	DY28B8MRMA
DYANA LED 12L70 NR 740 BP CL1 MLE60	10.84	96261027	DY28B8
DYANA LED 12L70 NR 740 BP CL1 MLE60 PM	10.90	96261127	DY28B8M
DYANA LED 24L70 NR 740 BP CL1 MA76	10.27	96263160	DY55B8RMA
DYANA LED 24L70 NR 740 BP CL1 MA76 PM	10.33	96263163	DY55B8MRMA
DYANA LED 24L70 NR 740 BP CL1 MLE60	10.87	96261028	DY56B8
DYANA LED 24L70 NR 740 BP CL1 MLE60 PM	10.93	96261128	DY56B8M
DYANA LED 36L50 NR 740 BP CL1 HT MLE60	11.70	96263156	
DYANA LED 36L70 NR 740 BP CL1 MA76	10.28	96263161	DY82B8RMA
DYANA LED 36L70 NR 740 BP CL1 MA76 PM	10.34	96263164	DY82B8MRMA
DYANA LED 36L70 NR 740 BP CL1 MLE60	9.46	96261029	DY84B8
DYANA LED 36L70 NR 740 BP CL1 MLE60 PM	10.94	96261129	DY84B8M
DYANA LED 36L100 NR 740 BP CL1 MA76	11.70	96264394	
DYANA LED 36L100 NR 740 BP CL1 MLE60	11.60	96264390	
DYANA LED 36L100 NR 740 BP CL1 MLE60 PM	11.70	96264392	
DYANA LED 36L100 NR 740 CL1 MA76 PM	11.80	96264395	

**LAMPS**

LED

28-158W

STANDARDSEN
60598

IP66

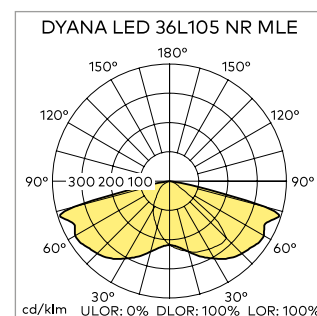
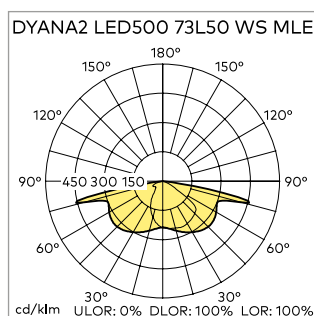
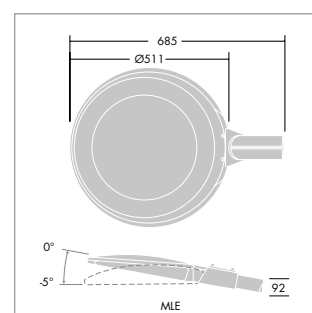
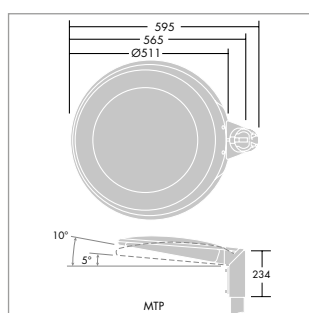
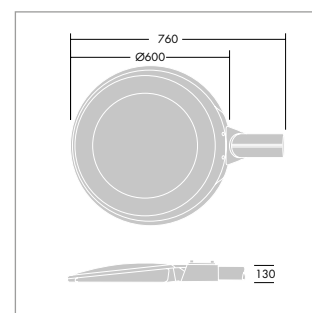
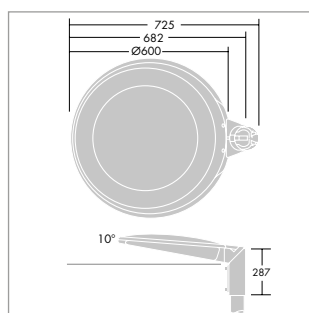
IK09

IK10

T_a25

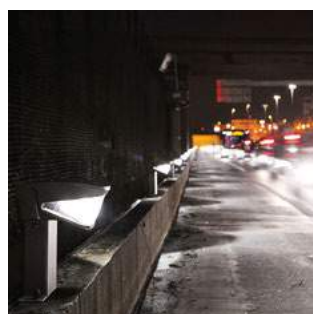
Description	Wt (kg)	SAP Code	Cat. No.
Dyana LED, Size 2			
DYANA2 LED 48L50 NR 740 CL1 HT MLE	13.90	96264365	DY81RSM
DYANA2 LED 48L50 NR 740 CL1 HT MTP	13.90	96264827	
DYANA2 LED 48L50 WS 740 CL1 HT MLE	13.90	96264350	DY81SSM
Dyana LED, Bi-power, size 2			
DYANA2 LED 48L50 NR 740 BP CL1 HT MLE	13.90	96264363	DY81B8RSM
DYANA2 LED 48L50 WS 740 BP CL1 HT MLE	13.90	96264348	DY81B8SSM
DYANA2 LED 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	
DYANA2 LED 72L50 NR 740 BP CL1 MTP PM	14.70	96264829	
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 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	
DYANA2 LED 72L70 NR 740 BP CL1 MTP PM	14.80	96264831	
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

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Innovative road lantern for low level mounting



LAMPS

 LED 31-40W

STANDARDS









- Efficient LED lamp fitted with the award-winning Flat Beam® technology to exceed safety standards at a low optimised mounting height of 0.9m
- Eliminates direct glare for driver comfort
- Flexible lighting control options, from simple dimming to an advanced central management system
- Durable and vandal resistant with an IK10/40 joules rating

MATERIALS/FINISH

Housing, canopies, spigot: die-cast aluminium with min 1,000hrs salt fog resistance.

Bollard: 3mm steel, powder coated texturised light grey as standard (close to RAL9006), other colours and finishes available on request.

Enclosure: UV stabilised polycarbonate, protected against graffiti and with extra scratch resistant treatment.

Reflector: high reflectance aluminium coating.

Tamper-proof screws and bolts: stainless steel, Ecolubric® treated.

INSTALLATION/MOUNTING

Mounting height has to be 0.9m from carriageway while offset should be 1.5m for optimum results. Plug and socket connections. Rear access to gear via 2 x M6 tamper proof Allen screws. Cable glands for Ø8 to 13mm cable. Adjustment at 0° through spirit level. Tolerance of 5° is allowed. Delivered complete, ready to install. Stirrup version: Rear access to gear components. Ready for through wiring via 2 cable glands. 180° rotating stirrup. Stirrup fixed through 2 x M10 tempered bolts. Bollard version: inside bollard access to gear components. Flange mounting. Head fixed to bollard through 2 x M10 tempered bolts.

SPECIFICATION

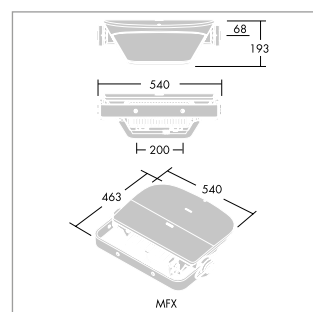
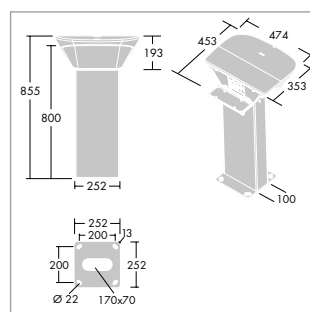
To specify state: Innovative road lighting luminaire with LED, incorporating Flat Beam® technology, in die-cast aluminium reaching lighting standards at 0.9m high. Sealed to IP66 with unique lighting distribution and choice of mounting options. As Thorn Orus LED.

ORDERING GUIDE

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
Orus LED Stirrup version, road optic			
ORUS 1L70 BPSW CL1 MFX ROAD NB	9.20	96267815	OSS27RN
ORUS 1L70 BPSW CL1 MFX ROAD WB	9.20	96267817	OSS27RW
ORUS 1L70 CL1 MFX ROAD WB HT	9.20	96268745	
ORUS 1L90 BPSW CL1 MFX ROAD NB	9.20	96267816	OSS42RN
ORUS 1L90 BPSW CL1 MFX ROAD WB	9.20	96267818	OSS42RW
ORUS 1L90 CL1 MFX ROAD WB HT	9.20	96268742	
Orus LED Stirrup version, street optic			
ORUS 1L70 BPSW CL1 MFX STREET WB	9.20	96267819	OSS27S
ORUS 1L90 BPSW CL1 MFX STREET WB	9.20	96267820	OSS42S
ORUS 1L90 HFX CL1 MFX STREET WB	9.20	96267847	OSS42DS
Orus LED Bollard version, road optic			
ORUS 1L70 BPSW CL1 BOL ROAD NB	22.40	96267834	OSB27RN
ORUS 1L70 BPSW CL1 BOL ROAD WB	22.40	96267836	OSB27RW
ORUS 1L90 BPSW CL1 BOL ROAD NB	22.40	96267835	OSB42RN
ORUS 1L90 BPSW CL1 BOL ROAD WB	22.40	96267837	OSB42RW
Orus LED Bollard version, street optic			
ORUS 1L70 BPSW CL1 BOL STREET WB	22.40	96267838	OSB27S
ORUS 1L70 HFX CL1 BOL STREET WB	22.40	96267850	OSB27DS
ORUS 1L90 BPSW CL1 BOL STREET WB	22.40	96267839	OSB42S

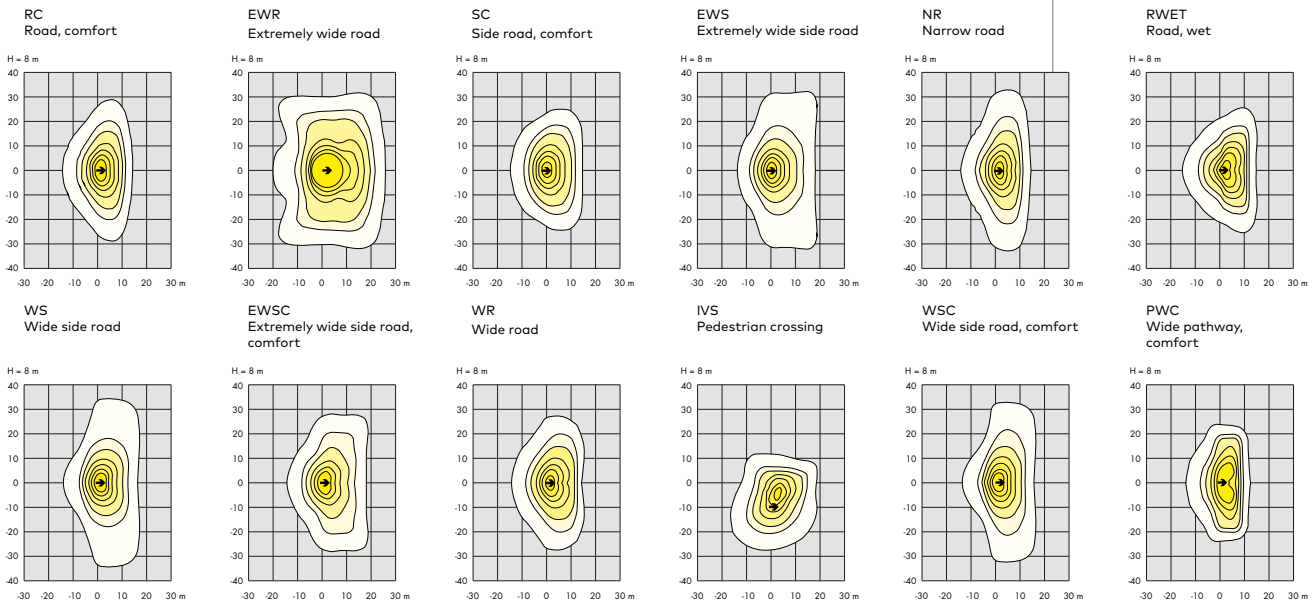
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LED light distribution options for the highest efficiency

The THORN R-PEC® LED light distribution options are based on a multi-layer lens system and provide adequate light distribution options for any requirements in street and outdoor lighting

Optic designation	Use and street type	Recommended lighting classes	Glare control class at 0° tilt
RC	Road, comfort	ME classes	G4
NR	Narrow road	ME classes	G3
WR	Wide road	ME classes	G4
EWR	Extra-wide road	CE & ME classes	G3
RWET	Road, wet	ME-classes (wet)	G6
IVS	Pedestrian crossing	Pedestrian crossing	–
SC	Side road, comfort	S & ME classes	G6
WS	Wide side road	S classes	G0
WSC	Wide side road, comfort	S classes	G3
EWS	Extra-wide side road	S classes	G0
EWSC	Extra-wide side road, comfort	S classes	G3
PWC	Wide pathway, comfort	S classes	G6



1.35							
1.20	RC	NR	PWC			RWET	
1.00							IVS
0.85	SC	WR	WSC	WS			
0.70					EWR		
0.60			EWSC	EWS			
0.45							
Factor = $\frac{\text{Light point height}}{\text{Road width}}$	ME comfort	ME	S comfort	S	CE class	MEW	Pedestrian crossing
	Dry conditions					Wet conditions	

Divide light point height by area to be illuminated to obtain a rough pre-selection of the THORN R-PEC® LED optic with the result!

Example:

Lighting class: ME 4b
Light point height: 10.0 m
Road width: 8.5 m
Pavement width: 2.0 m respectively
Calculation: $10 / 12.5 = 0.8$
Recommendation: R-PEC optic SC or WR



Outdoor Lighting

TUNNEL LIGHTING



208
GTLED



210
GTLED RS



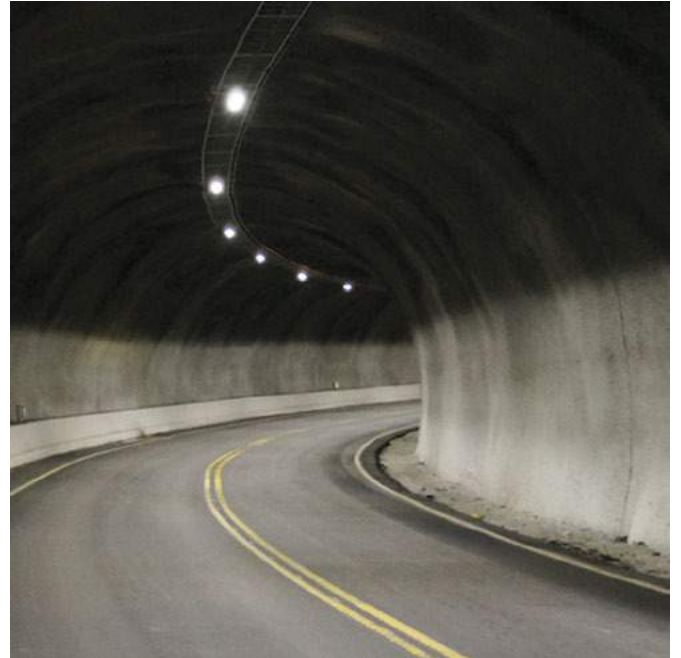
211
Tunnel Guidance



www.thornlighting.co.uk/GTLD
www.thornlighting.ie/GTLD



An advanced LED tunnel luminaire range delivering energy savings and outstanding lighting comfort



- Advanced linear LED design, without the use of directional LED's resulting in a comfortable appearance with disability glare (TI) values of 3 or less in most applications. Symmetrical and asymmetrical counter beam light distributions are available
- Lenses and side reflectors provide tunnel specific light distributions that work well with road luminance levels from 0,5 cd/m² and above for interior zone lighting, and up to 300 cd/m² for the entrance zone lighting
- Through wiring versions have spring release terminals, for fast connection with correct momentum and reduced installation cost. Other versions come with a pre-attached cable so there is no need to open the fitting
- Superior thermal control ensures optimal operating conditions for both driver and LED's, to cope with ambient temperatures up to 50°C. The GTLED range is designed for long lasting service with IP66 rating for dependable quality

MATERIALS/FINISH

Body: extruded aluminium, powder coated white
 Hinge/lock system: anodized aluminium
 Glass/enclosure: toughened, with black screen print at gear compartment

INSTALLATION/MOUNTING

Suitable for surface mounting on to the ceiling or wall with adjustable bracket 96209279 (GTLED 18-36 LED) or 96220745 (GTLED 48-120 LED), to be ordered separately, other special brackets available on request.

SPECIFICATION

To specify state:
 An advanced LED tunnel luminaire, several wattages available. LEDs with low-glare light distribution to comply with both CIE88 and EN13201. Suitable for operation in ambient temperatures up to 50°C. Pre-wired versions and through wiring versions (GTLED with 48-120 LED and larger) are available. Internal fuse protection. 10kV surge protection device included for GTLED 48-120 LED. IP66 and class 1 as standard. Toughened glass, IK07. As Thorn GTLED.

**LAMPS**

LED

40-274.1W

STANDARDSEN
60598

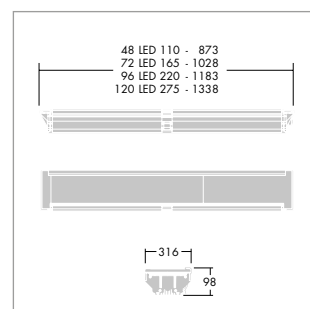
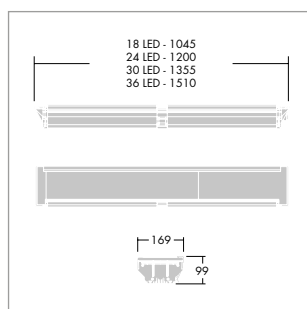
IP66

T_a50**ORDERING GUIDE**

Supplied complete with LEDs

Description	Wt (kg)	SAP Code	Cat. No.
GTLED for interior zones, symmetrical			
GTLED 18L70 741 S/S 1,5M	9.60	96209117	GT45
GTLED 18L70 741 S/S 1,5M HFX	20.00	96220961	
GTLED 24L70 741 S/S 1,5M	11.10	96209286	GT60
GTLED 30L70 741 S/S 1,5M	12.50	96209287	GT75
GTLED 30L70 741 S/S 1,5M BPL	14.10	96209198	GT75BPL
GTLED 30L70 741 S/S 1,5M HFX	12.50	96209059	GT75DALI
GTLED 36L70 741 S/S 1,5M	14.10	96209288	GT90
GTLED for entrance zones, symmetrical			
GTLED 48L70 741 S/S TW 2M25	16.80	96220740	
GTLED 72L70 741 S/S TW 2M25	20.30	96220741	
GTLED 96L70 741 S/S TW 2M25	22.80	96220742	
GTLED 120L70 741 S/S TW 2M25	26.40	96220743	
GTLED for entrance zones, asymmetrical counterbeam			
GTLED 48L35 740 A/CB TW 2M25	16.00	96221799	
GTLED 48L70 740 A/CB 1,5M WLS HFA	15.10	96221401	
GTLED 48L70 740 A/CB TW 2M25	16.80	96221398	
GTLED 72L70 740 A/CB TW 2M25	20.30	96221397	
GTLED 96L70 740 A/CB TW 2M25	22.80	96221396	
GTLED 120L70 740 A/CB 1,5M WLS HFA	15.20	96221399	
GTLED 120L70 740 A/CB TW 2M25	26.40	96221395	
GTLED Accessories			
GTLED 18-36LED ADJ.BRACKET KIT	1.00	96209279	GTB
GTLED 48-120LED ADJ.BRACKET KIT	1.00	96220745	

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GTLED

RS



www.thornlighting.co.uk/GTRS
www.thornlighting.ie/GTRS



A stainless steel tunnel luminaire with advanced LED technology that can endure highly corrosive and tough environments



LAMPS

LED

108-127W

STANDARDS

- Stainless steel housing offering supreme corrosion resistance for harsh environments
- R-PEC optics offering high lighting performances with low glare
- Smart lighting functions with dimmable drivers, DALI or Bi-power Line
- Compact and lightweight luminaire for easy handling and installation
- Designed around perfect heat control and resistance to elements, the self-cleaning shape delivers accurate performance in tunnel conditions

MATERIALS/FINISH

Body: Stainless steel 1.4404/316L
 Painting: Power coated white RAL 9016
 Enclosure: toughened glass

INSTALLATION/MOUNTING

Suitable for surface mounting on to the ceiling or wall with adjustable bracket, to be ordered separately

SPECIFICATION

To specify state:
 A stainless steel tunnel luminaire with advanced LED technology that can endure highly corrosive and tough environments. Suitable for installation requiring 1-6 cd/m² luminance levels. Excellent uniformity with low glare (TI<6). Smart lighting functions such as dimmable drivers, DALI or Bi-power. As Thorn GTLED RS

ORDERING GUIDE

Supplied complete with LED. Bracket to be order separately

Description	Wt (kg)	SAP Code
GTLED RS		
GTLED RS 72L50 NR BPL 2M32/20	16.00	96221813
GTLED RS 72L50 NR BPL 2M32/20 UPS	16.00	96221960
GTLED RS 72L50 NR HFX 2M32/20 UPS	16.00	96221812
GTLED RS 72L50 RWET BPL 2M32/20	16.00	96221810
GTLED RS 72L50 RWET BPL 2M32/20 UPS	16.00	96221811
GTLED RS 96L45 NR HFX 2M32/20 UPS	16.00	96221838
GTLED RS 96L45 RWET BPL 2M32/20 UPS	16.00	96221837

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NEW

Tunnel Guidance

LED guidance offering low maintenance and traffic safety



www.thornlighting.co.uk/TUNG
www.thornlighting.ie/TUNG



- Low power consumption
- Quick and easy installation
- Excellent resistance to vibration and corrosion
- Vandal resistant, reinforced synthetic material

MATERIALS/FINISH

TGC: Housing: crystal clear special plastic (Macrolon). The outer surface is nano-coated (anti-static and thus highly dirt repellent and anti-corrosive). TGR: Housing: white polyamide plastic.

INSTALLATION/MOUNTING

TGC: Designed for fast installation thanks to the smart current collector which incorporates the system cable in a prepared "bed" shaped to match the cable (flat cable). The current transmission from the supply line to the contact pin and the socket connection ensure quick operations. TGR: Fast installation thanks to mounting plate (lower part) equipped with three cable sleeves for the cables to be fed through. The upper part of the mounting plate is sealed using two circular labyrinth seals. The upper part is attached to the mounting plate using two captive V4A screws in the V4A threaded bushings.

SPECIFICATION

To specify state:
The markers can be easily adjusted with four modes (continuous, dimming, blinking, off) by using the control units and can be controlled in all areas via an automatic light control system or direct control from the tunnel monitoring and control complex. As Thorn TGC/TGR



LAMPS

LED 0.96-1.92W

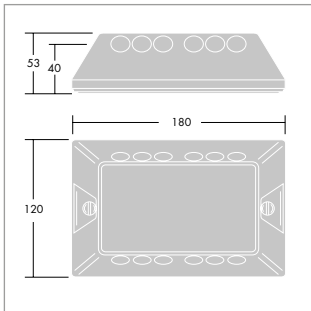
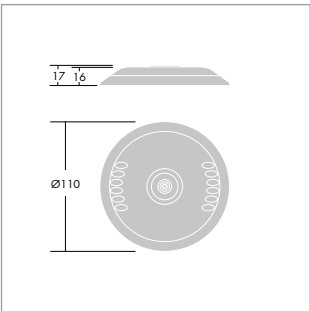
STANDARDS



ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Tunnel Guidance Circular			
TGC 12L04 WH CL3	0.12	96665699	TGC12L04WCL3
TGC 12L06 RD CL3	0.12	96665700	TGC12L04RCL3
TGC 12L04 YE CL3	0.12	96665697	TGC12L04YCL3
TGC 12L08 BU CL3	0.12	96665698	TGC12L04BCL3
Tunnel Guidance Rectangular			
TGR 12L04 WH CL3	0.31	96665706	TGR12L04WCL2
TGR 12L04 YE CL3	0.31	96665704	TGR12L04YCL2
TGR 12L08 BU CL3	0.31	96665705	TGR12L04BCL2

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Blyth
Cramlington
via Gosforth

U

Set down only

T

Blyth
Cramlington
Hazelrigg
Widopen
Gosforth & North Rd

S

Blyth
Cramlington
Widopen
Gosforth & North Rd

R

Q

P

N

M

L

Now you
know you
are here!

from the
Neighbourhood Policing
team operate in this area.

Now you
know you
are here!

Now you
know you
are here!

Now you
know you
are here!

Now you
know you
are here!

Controls & Emergency

EMERGENCY LIGHTING



226
Voyager Solid



228
Voyager Style



230
Voyager Fit



231
Voyager Twin
Spot



232
Voyager LED
Series



234
Voyager Escape



235
Voyager Sigma



236
Voyager Blade



238
Voyager
Compact LED

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 217. In summary:

- Exit routes must be clearly lit and signed to make sure people can evacuate the building safely.
- Open area lighting is designed to reduce confusion and panic, whilst at the same time 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 needed. These testing requirements are detailed in full on page 220.

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.

• Self Test

All the emergency lights are equipped with an 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

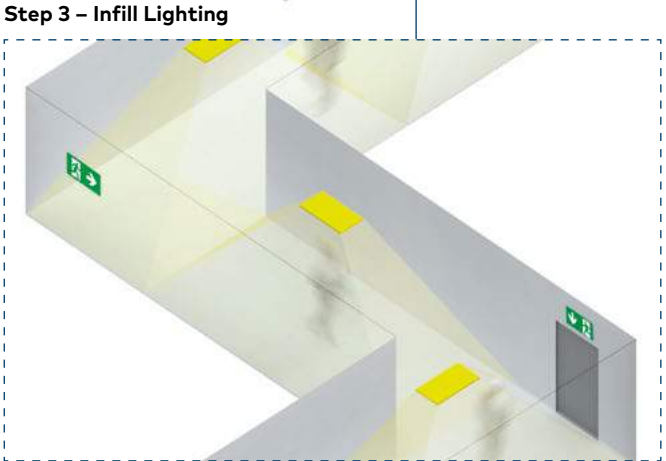
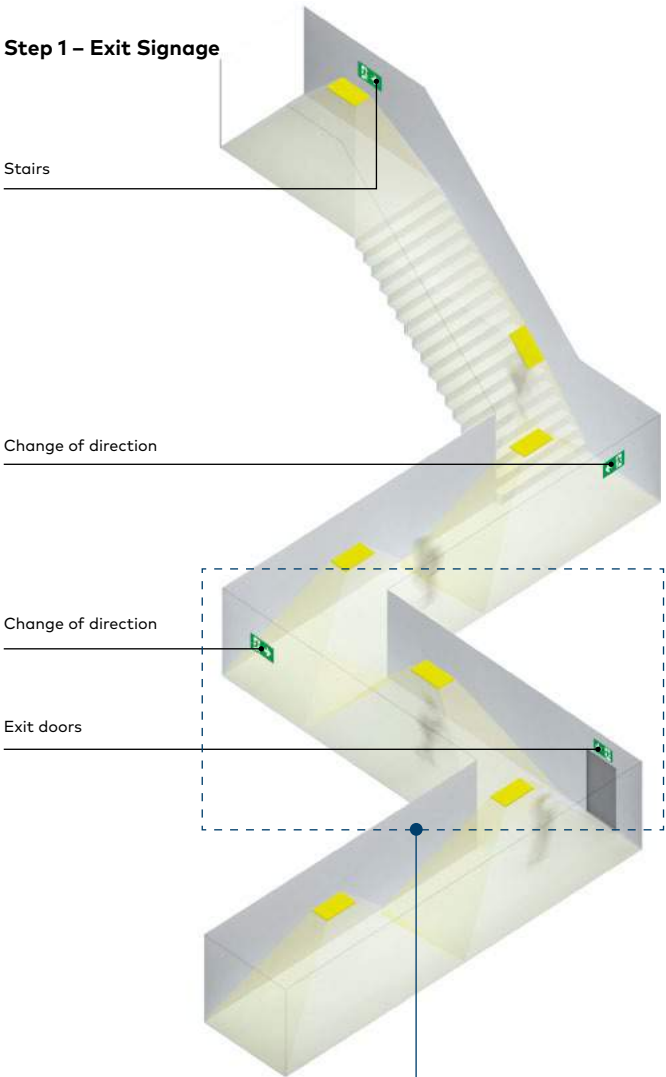
A competent individual must walk around the building and perform a manual check for each emergency fitting, before logging the results on a dedicated record sheet. This needs to be completed by hand and stored ready for an inspection by the local authorities.

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

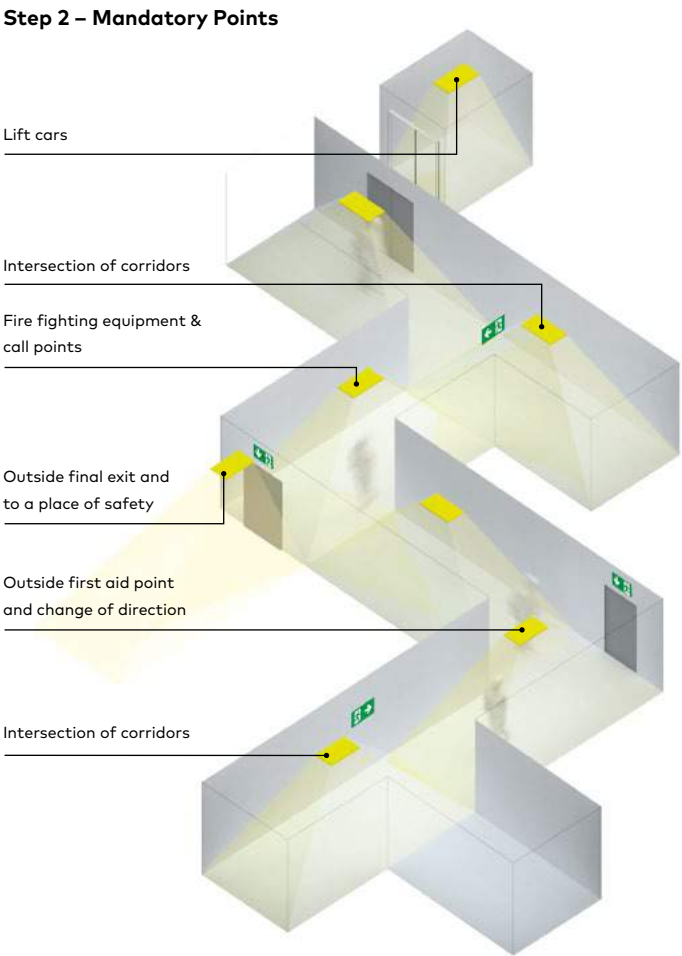
Regulations - Positioning



Additional luminaire(s) are needed to fulfil emergency lighting level requirements

Key	
	Exit sign
	Emergency luminaire

These illustrations show exactly where you must locate emergency lighting and signage



Emergency luminaires have to be carefully positioned to ensure a compliant emergency lighting scheme. Here are 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. It must be lit to a minimum of 100 lux.

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

Emergency fittings should be carefully positioned to avoid disability glare. This is caused when 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.

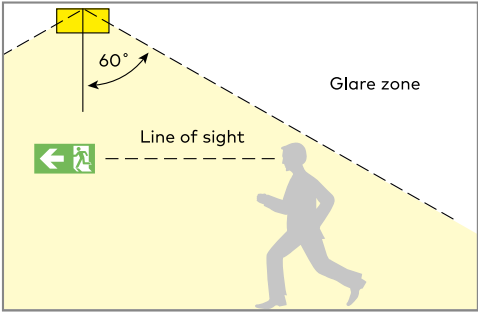
Mounting Height h	Escape Route & Open Area Max. Luminous Intensity Imax	High Risk Max. Luminous Intensity Imax
m	cd	cd
$h < 2.5$	500	1000
$2.5 \leq h < 3.0$	900	1800
$3.0 \leq h < 3.5$	1600	3200
$3.5 \leq h < 4.0$	2500	5000
$4.0 \leq h < 4.5$	3500	7000
$4.5 \leq h$	5000	10000

GLARE

Disability glare data

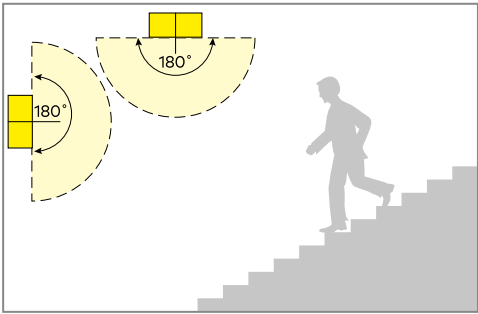
Maximum intensity (cd)	Transverse	Axial
Level route 60-90°	64.2	8.0
Non-level route 0-90°	64.2	27.0

Levels of glare must be carefully considered when designing an emergency lighting scheme



HORIZONTAL ROUTES

The glare calculation takes into account the number of luminaires that can be seen and the glare contribution from each of these fittings. For horizontal routes, any glare above 60° is considered to contribute to the disability glare values.



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 Style 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. As a result, the level of disability glare is calculated as follows: $3 \times 64.2 = 192.6\text{cd}$

This value is significantly below the 500cd limit for luminaires mounted at 2.4 metres.

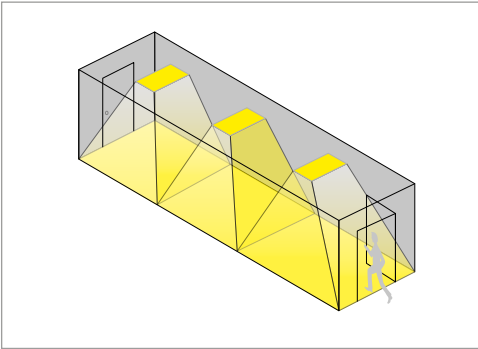


Diagram 1

Emergency Lighting

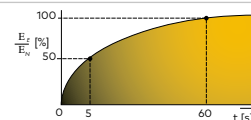
Applications - Definitions and Requirement

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: Emax:Emin 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 people seeing properly	See table on page 216



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.



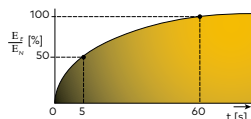
Fire call points, fire extinguishers and first aid points not on the escape route must be lit to 5 lux.

* Check local legislation

OPEN AREA



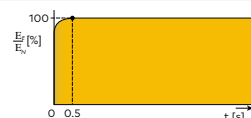
Definition	Escape area - Open or re-configurable area, including covered car parks and stepped areas in covered stadia (excluding designated escape routes)
Areas	> 60m ² *
Lighting level	Minimum 0.5 lux in core area (excludes 0.5m border)
Diversity: Emax:Emin Ratio of illuminance to min illuminance	< 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 people seeing properly	See table on page 216



HIGH-RISK TASK



Definition	Areas where a hazardous activity must be made safe or terminated before evacuation. This should 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: Emax:Emin 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 people seeing properly	See table on page 216



Emergency Lighting

Applications - Case Study

This hypothetical application gives examples of areas that require emergency lighting.

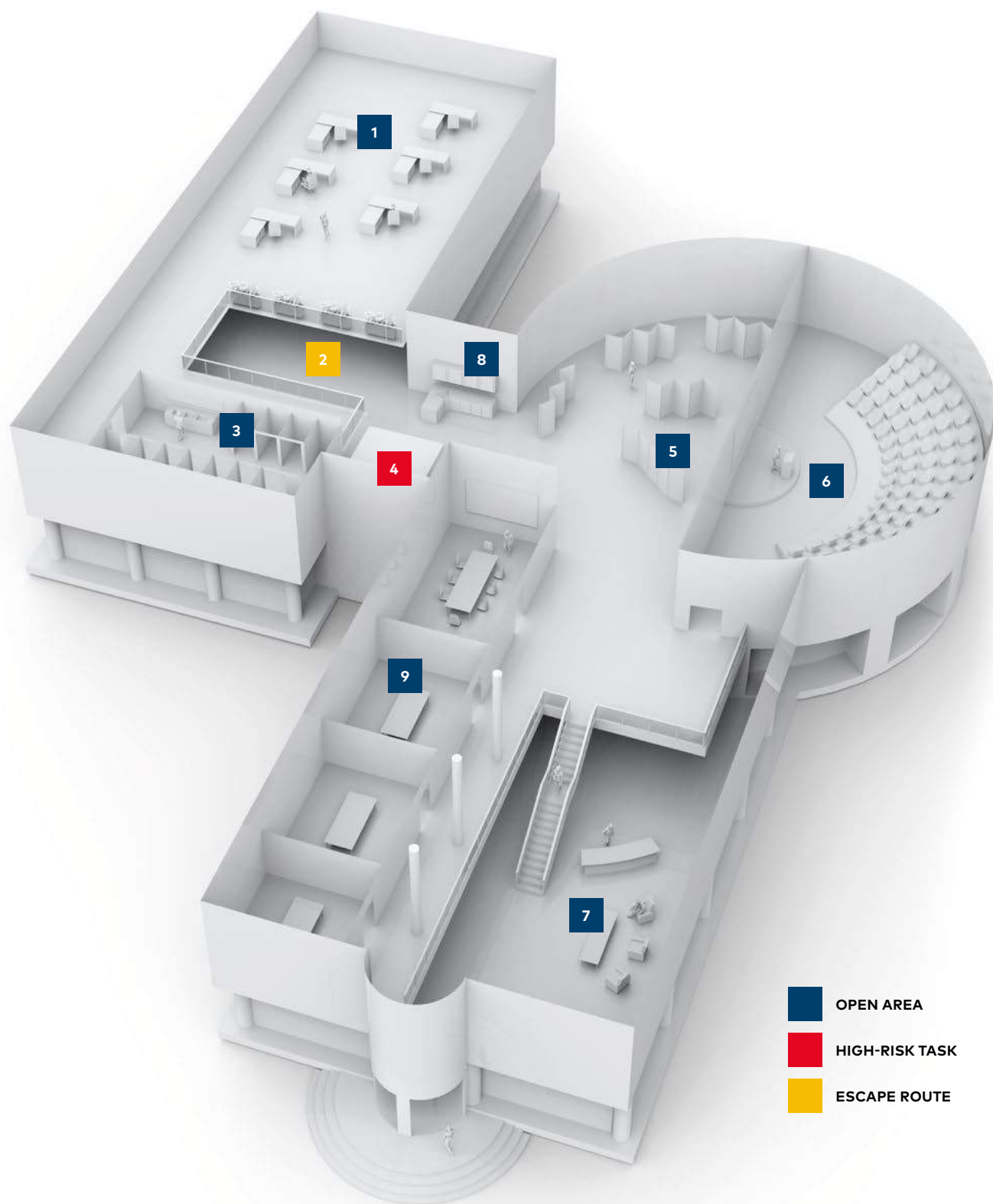
- 1.** Office Type: Open area
General requirements: computers widely used on modular desking systems require the elimination of screen glare. Direct/indirect luminaires (like Jupiter 3 or IQ Wave) brighten the ceiling
Emergency requirements: open area. Exit signs must be visible from all points. Design integration with the use of emergency versions of mains fittings or a separate solution with 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 the escape route. Design integrity maintained by using emergency versions of mains fittings (e.g. Leopard bulkhead or Chalice 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 Solid 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 ** or Voyager LED (task or spot)** should be used.
- 5.** Show room Type: Open area
General requirements: use of spotlights highlights exhibition panels and exhibits. Downlights provide both general lighting and a dramatic atmosphere.
Emergency requirements: open area. Exit signs must always be visible. Emergency versions of downlights (e.g. Chalice) used to integrate with the design. An alternative option is Voyager LED Spot.

- 6.** Conference suite Type: Open area
General requirements: good dimmable lighting is required, with a mixture of luminaires. Local spotlighting for lecture area.
Emergency requirements: open area. Exit signs must always be visible. Emergency versions of linear luminaires (e.g. Jupiter 3) integrate with the mains lighting scheme. Emergency versions of downlights (e.g. Chalice) 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 in line with the normal requirements.
- 7.** Reception Type: Open area
General requirements: an area requiring high visual impact, where use of decorative wall-mounted and ceiling-mounted products create a 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-mounted and ceiling-mounted decorative products (e.g. Glacier II pendant or Chalice downlights) integrate with the design and provide strong visual impact.
Stylish exit signs match the design-led focus of this area (e.g. Voyager LED).
- 8.** Kitchens Type: Open area + High-risk task
15 lux in 0.5 sec on the cooker surface***
- 9.** Treatment Room Type: Open area + High risk task
15 lux in 0.5 sec 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.

***For kitchens or treatment rooms you must consider the environment when specifying the luminaires (e.g. Duoproof IP65 for a kitchen where there are high levels of grease in the atmosphere.)



- OPEN AREA
- HIGH-RISK TASK
- ESCAPE ROUTE

Emergency Lighting

Maintaining a Scheme

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 these tests has to be kept.

Frequency	Nature of Test	Purpose
Daily	Check all LED charging indicators are in operation	Make sure that the batteries are being charged
Monthly	Conduct a functional test of all emergency luminaires	Check that the luminaire will operate in the emergency mode
Annually	Perform a full duration test of all emergency luminaires	Confirm that the battery capacity will power the product for the required 3-hour time period

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. SB128 - Emergency Monitoring Solution SB128 is a central addressable testing system that provides fully automatic monitoring, testing and fault logging for up to 256 emergency fittings. SB128 monitors luminaires with integral batteries over DALI - with an expected 3-year battery life. 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.
- SB128 is a central addressable testing system that provides fully automatic monitoring, testing and fault logging for up to 256 emergency fittings. SB128 monitors luminaires with integral batteries over DALI – with an expected 3-year battery life.

ORDERING GUIDE

Description	SAP Code
SB128	
LOCAL SB128 CONTROLLER	22156829
LOCAL EXTENDER	22156830
LOCAL REMOTE DISPLAY	22161514
24V PSU	22161815

Please discuss individual application requirements with your local sales representative before ordering Sensa products. Commissioning by a Thorn engineer will be required.

All emergency lighting schemes have to comply with European legislation and regulations

Testing Emergency Lighting Products

Emergency lighting products have to be tested regularly to meet the requirements of European law. As shown above, the standard BS EN 50172 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.

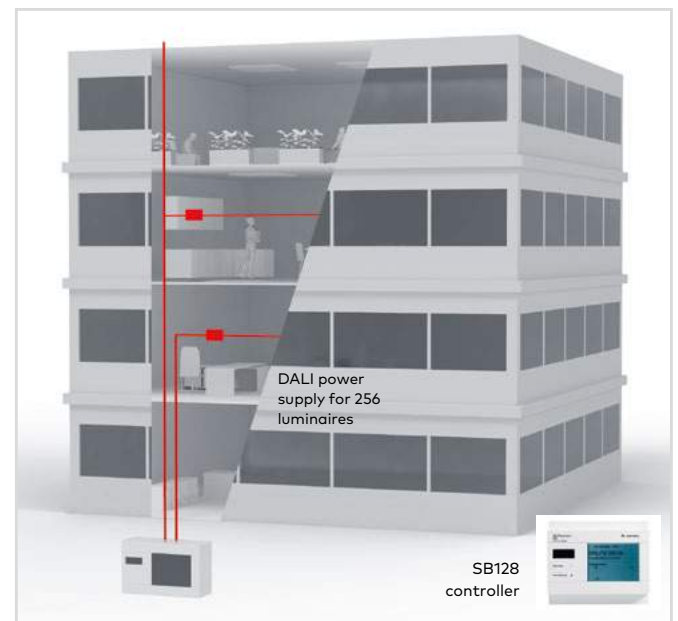
Recent changes to the laws governing emergency lighting have shifted the responsibility for the risk assessment, maintenance and testing to the building operator. This testing can be tedious, costly and time consuming.

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:

- DALI
- Autotest
- Manualtest

E3D (E3DX) emergency gear offers Autotest and DALI functionality in a single fitting. E3D (E3DX) luminaires operate as SelfTest when standalone and become Dali when connected to either a Sensa 2 or Sensa 3 lighting controls system.



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. Prime examples include schools, colleges, small offices, surgeries, libraries and public buildings.

eBOX

eBOX enables the building operator to monitor and manage the emergency lighting scheme from anywhere through an IP web browser end-user interface. A compact solution with building-wide monitoring (DALI line NDA) and power supply (battery providing AC under normal operation and DC power in emergency) with an expected 10-year battery life.

Applications

eBOX has the capability to control an infinite number of emergency luminaires. In applications such as university accommodation blocks, hotels, large offices, hospitals and airports, eBOX 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 then only has to walk around the building once a month and check the status of the LED indicators. The overall results must be recorded in a central log book, including details of any failures.

22 March 2018

All LEDs showing green.

System clear of all faults.

5th May 2018

One LED showing steady red.

Luminaire opposite the lift

on second floor requires lamp

replacement. All other LEDs

showing green.

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 a month and record the results
- 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
- 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.

Prime examples include small shops, offices and public buildings.

Test	LED Indicator	Duration	Frequency	EN requirement
Function Test (Briefly power luminaire from battery simulate mains failure)	Green rapid flash 	30 seconds	Weekly	Monthly
Duration Test (Power 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	

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 initiate 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.

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 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:

BS EN 60598-1 2015

BS EN 60598-2-22 2014

BS 5266-1 2016

BS 5499-1 2002

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 make sure that the 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 are not able 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 will have to be measured according to EN1838 once the solution is 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. Thorn also operates 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 exposes 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 clearly indicates the integrity of the fitting and is proof of the quality, performance and conformity.

New emergency SAP description keys

VOYAGER STYLE	MS	ANT	ECS	WH
Product family	Mounting versions	Light distribution	Supply versions	Colour

Mounting

M	S	—	—
Mounting type	Mounting surface	Option remote box	
R Recessed	C Ceiling	R Remote box	
S Surface	W Wall	— No remote box	
SR Semi-recessed	— Flexible		

Other Mountings

PRIM	KIT
Primata	Emergency kits

Options

BP	Ball-proof
CCS	Concrete casting surround
QC	Quadratic cover
FCC	Frame cable ceiling
FCW	Frame cable wall
FSR	Frame-suspended to recessed (mounting frame)

Suspension type xx length

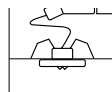
WFxx Wire feed
Cxx Chain
Rxx Rod

Emergency

E	C	S	X
Duration time/supply version	Communication		
1 1-hour self-contained	— No communic./manual		
3 3-hours self-contained	T SelfTest		
C Central battery 230 V	D DALI (incl. Autotest)		
	C Circuit monitoring		
	S Set 009		
Switching modes	Switchable with L'		
M Maintained	S Switchable with L'		
NM Non-maintained	— Not switchable with L'		
— Both possible			

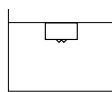
Mounting type

Recessed

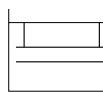


MRCR

Surface / Pendant

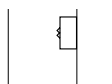


MSC



PRIMATA

Wall



MSW

Self-contained



Central battery



VOYAGER STYLE 115

Product family

MS-WF 115

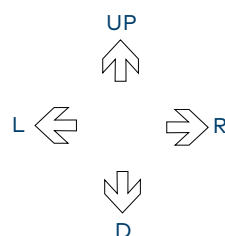
Mounting
versions

SM-S

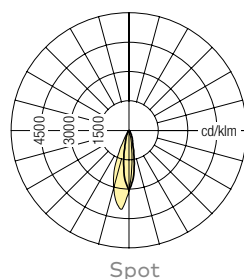
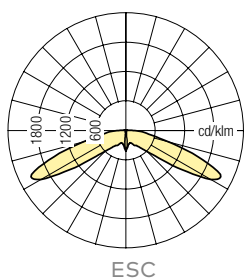
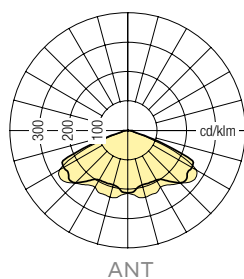
Safety
versions

Safety sign

S	P	1	R
	Legend types	Printed sides	Arrow direction
	G Safety sign glued	1 One-sided	UP Arrow up
	M Safety sign mountable	2 Two-sided	D Arrow down
	P Safety sign printed		L Arrow left
			R Arrow right
			S Set of directions



Light distribution

ANT
ESC
SpotAnti-panic
Escape
Spot

NEW

Voyager

Solid



www.thornlighting.co.uk/VYSO
www.thornlighting.ie/VYSO

The bulkhead that makes
emergency lighting easy



- Changeable inlets: Avoiding the imperfect solutions with pictograms on stickers with trapped airbubbles, dust inclusions and no mechanical protection. Voyager Solid's pictograms are protected inside the luminaire
- Multiple mountings: The luminaire can be installed in a number of configurations thanks to mounting options for walls and ceilings, and even a semi-recessed ceiling-mounted option
- Testing options: Voyager Solid offers a variety of testing options as it is available in SelfTest and SelfTest, Addressable Test/DALI
- Flexible, switch allows luminaire to be installed as maintained or non-maintained

MATERIAL/FINISH

Luminaire housing made of white polycarbonate, cover made of transparent polycarbonate.

INSTALLATION/MOUNTING

Comfortable installation with hinged electronics and big wiring space.

SPECIFICATION

To specify state:
Self contained emergency luminaire for ceiling and wall mounting.
Semi-recessed mounting with optional adaptor possible. Orderable exchangeable inlets for use as safety sign. Manual or SelfTest or SelfTest, Addressable Test/DALI capability.
As Thorn Voyager Solid



LAMPS

LED

6-8W

STANDARDS

IP65 IK03 CE

ORDERING GUIDE

Legend kits (ISO/BSEN) to be ordered separately.

Description	SAP Code	Cat. No.
Voyager Solid		
VOYAGER SOLID L MS E3D-S WH	96629766	VYSOLE3D
VOYAGER SOLID L MS E3-S WH	96629764	VYSOLE3
VOYAGER SOLID L MS E3T-S WH	96629765	VYSOLE3T
VOYAGER SOLID MS E3D-S WH	96629763	VYSOE3D
VOYAGER SOLID MS E3-S WH	96629761	VYSOE3
VOYAGER SOLID MS E3T-S WH	96629762	VYSOE3T
Voyager Solid Legends		
VOYAGER SOLID L LEGENDSET SM-1S	96629768	VYSOLEGG
VOYAGER SOLID LEGENDSET SM-1S	96629767	VYSOLEGG
Voyager Solid Accessories		
VOYAGER SOLID FSR WH	96629769	
VOYAGER SOLID L FSR WH	96629770	
Voyager Solid Spares		
VOYAGER SOLID ACCU NICD 1,5AH (FOR DALI)	59009286	
VOYAGER SOLID ACCU NIMH 2,2AH	59009287	

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

SOLID WITHOUT OPAL INLET

h	antipanic (0,5 lx)		escape (1 lx)	
	a1	a2	a1	a2
2.50	2.65	8.00	2.90	7.50
3.00	2.75	8.75	2.95	7.95
3.50	2.85	9.25	2.90	8.25
4.00	2.95	9.75	2.80	8.35
4.50	2.90	10.15	2.60	8.35
5.00	2.90	10.50	2.20	8.20

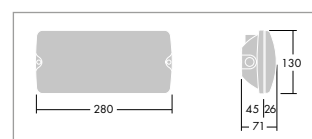
SOLID L WITHOUT OPAL INLET

h	antipanic (0,5 lx)		escape (1 lx)	
	a1	a2	a1	a2
2.50	2.00	11.35	-	5.75
3.00	1.05	11.75	-	3.10
3.50	-	11.00	-	-
4.00	-	10.10	-	-
4.50	-	8.85	-	-
5.00	-	7.50	-	-

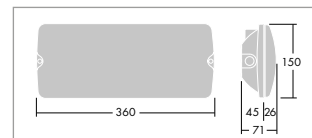
Key

h - height of the room
a1- distance of the luminaire to the wall
a2 - distance from luminaire to luminaire

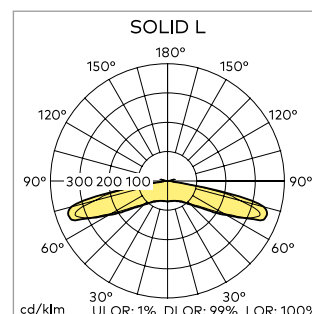
All values in metres
All values for ta - 30°C
Maintenance factor - 0.8
Values for E3D Version



Voyager Solid



Voyager Solid L



NEW

Voyager

Style



www.thornlighting.co.uk/VYST
www.thornlighting.ie/VYST



The ultra-slim emergency luminaire



- Ultra-slim: Thorn's Voyager Style shows that emergency luminaires don't have to be bulky or obtrusive. At just 37mm thick, this understated fitting can blend into any interior, and is easy to mount in a variety of configurations
- Power options: Whether your emergency lighting system relies on self-contained battery-powered luminaires or a central battery system, Voyager Style meets your needs
- Sleek and simple: The wide range of mounting options means Voyager Style can fit in wherever you need emergency light. The recessed mounting option makes for a particularly unobtrusive appearance
- Legends included with luminaire

MATERIAL/FINISH

Luminaire housing made of white polycarbonate and transparent polycarbonate cover.

INSTALLATION/MOUNTING

Tool-less 'Click' - mounting after fitting the housing base.

SPECIFICATION

To specify state:
Flexible emergency luminaire for various mounting possibilities that can be even extended with an adapter. Only 37mm housing depth for state of the art design. Orderable as safety sign or safety luminaire. Manual, SelfTest, circuit monitoring or SET009 in combination with CPS (only central supply) version capability.
As Thorn Voyager Style.

**LAMPS**

LED

4.5-5.5W

STANDARDS

IP43 IK03

ORDERING GUIDE

Legend Kits (ISO/BSEN) included in Voyager Style Kit.

Description	SAP Code	Cat. No.
Voyager Style Surface exit sign		
VOYAGER STYLE 115 MS E3 SM-S WH	96222359	VYSTSSFE3
VOYAGER STYLE 115 MS E3T SM-S WH	96222360	VYSTSSFE3T
VOYAGER STYLE 115 MS ECC SM-S WH	96222361	
VOYAGER STYLE 115 MS ECS SM-S WH	96222362	
Voyager Style Suspended exit sign		
VOYAGER STYLE 115 MS-WF15 E3 SM-S WH	96222363	VYSTSSE3
VOYAGER STYLE 115 MS-WF15 E3T SM-S WH	96222364	VYSTSSE3T
VOYAGER STYLE 115 MS-WF15 ECC SM-S WH	96222365	
VOYAGER STYLE 115 MS-WF15 ECS SM-S WH	96222366	
VOYAGER STYLE 150 MS-WF15 E3 SM-S WH	96222367	VYSTLSE3
VOYAGER STYLE 150 MS-WF15 E3T SM-S WH	96222368	VYSTLSE3T
VOYAGER STYLE 150 MS-WF15 ECC SM-S WH	96222369	
VOYAGER STYLE 150 MS-WF15 ECS SM-S WH	96222370	
Voyager Style Luminaire		
VOYAGER STYLE MS ANT ECS WH	96222382	
VOYAGER STYLE MS ESC ECS WH	96222383	
Voyager Style Accessory		
VOYAGER STYLE FSR WH	96222371	
VOYAGER STYLE 115 LEGEND SM-1UP	96630601	
VOYAGER STYLE 150 LEGEND SM-1UP	96630602	

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

STYLE ANT

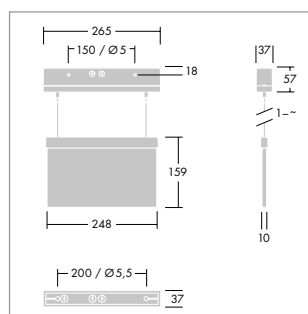
h	antipanic (0,5 lx)	
	α1	α2
2.50	3.10	9.30
3.00	3.25	10.05
3.50	3.45	10.85
4.00	3.50	11.45
4.50	3.20	11.85
5.00	3.15	12.35

STYLE ESC

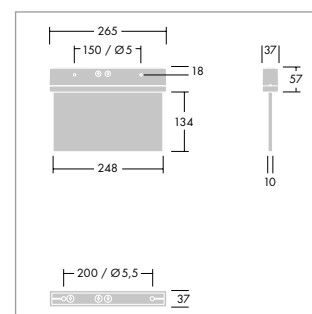
h	escape (1 lx)	
	α1	α2
2.50	7.40	18.35
3.00	8.10	19.60
3.50	8.55	20.95
4.00	8.85	22.40
4.50	7.50	23.50
5.00	-	23.25

Key
h - height of the room
α1 - distance of the luminaire to the wall
α2 - distance from luminaire to luminaire

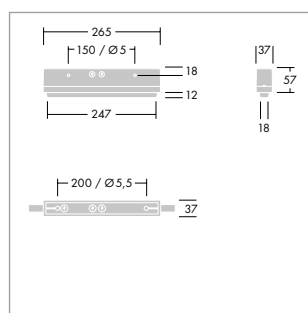
All values in metres
All values for ta - 30°C
Maintenance factor - 0.8
Values for ECS version



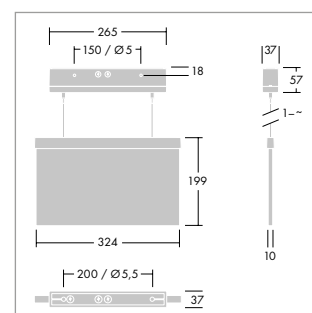
Voyager Style 115 Suspended Exit Sign



Voyager Style Surface Exit Sign



Voyager Style Luminaire



Voyager Style 150 Suspended Exit Sign

NEW
Voyager
Fit



www.thornlighting.co.uk/VOYF
www.thornlighting.ie/VOYF



Super compact, long lasting,
easy to use



LAMPS

LED

2.5-5.5W

STANDARDS

- Self-contained emergency luminaires rely on long-lasting batteries. Voyager Fit's high-tech lithium iron phosphate battery is robust and comes with a three-year warranty, giving users peace of mind
- Voyager Fit is so small that it can be installed almost anywhere with very little impact on ceilings. And because it only requires an 80 mm ceiling void, even buildings with limited space can benefit from the latest in LED emergency lighting
- Voyager Fit's interchangeable lenses make it easy to get the light distribution you need for your emergency lighting system. The lenses are easy to fit by simply clicking them into place. All three lens (Escape Route, Spot and Anti-Panic) are included with Voyager Fit

MATERIAL/FINISH

Luminaire housing made of white polycarbonate, lenses made of transparent polycarbonate, red rubber strap for battery connection.

INSTALLATION/MOUNTING

Tool less installation with mounting springs for ceiling thicknesses from 1-25mm.

SPECIFICATION

To specify state:
Self contained emergency luminaire for recessed mounting in ceilings with interchangeable lenses for most flexible optimized illumination for escape, antipanic and spot lighting. Only 80 mm ceiling voids necessary and small dimensions for unobtrusive installation. Manual or SelfTest, Addressable Test/DALI - version capability.
As Thorn Voyager Fit.

ORDERING GUIDE

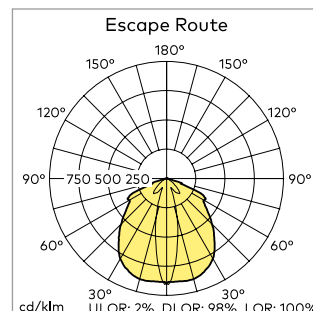
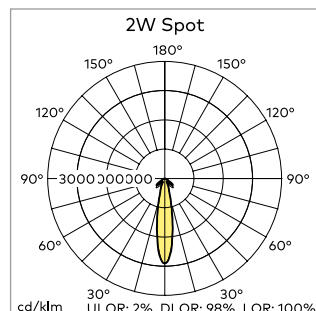
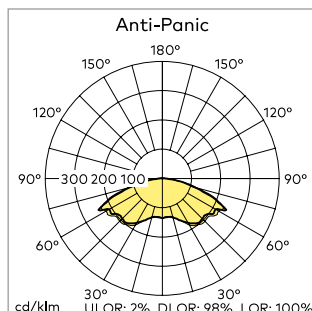
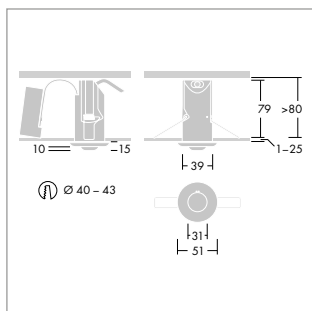
Description	SAP Code	Cat. No.
Voyager Fit		
VOYAGER FIT MRC E3 NM	96629566	VYFITRE3
VOYAGER FIT MRC E3D NM	96629568	VYFITRE3D

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h	antipanic (0,5 lx)		escape (1 lx)		spot (5lx)
	α1	α2	α1	α2	α1
2.50	3.70	10.70	4.65	11.55	2.20
3.00	3.70	11.75	4.70	12.55	2.40
3.50	3.70	12.75	4.95	13.20	2.40
4.00	3.55	13.70	5.15	13.25	2.50
4.50	3.50	14.20	5.30	13.65	2.50
5.00	3.35	14.65	5.40	14.05	2.50

Key
h - height of the room
α1 - distance of the luminaire to the wall
α2 - distance from luminaire to luminaire

All values in metres
All values for ta - 30°C
Maintenance factor - 0.8



NEW

Voyager

Twinspot

The featherweight LED twin spot luminaire for large open area and high risk applications

www.thornlighting.co.uk/VOYT
www.thornlighting.ie/VOYT



- Comfortable installation due to low weight, prepared knockouts for cable inlets and adjustable heads to match light output to application
- The Twin Spot is one of the lightest and slimmest twinspace luminaires on the market with a weight of only 1,7kg and 87mm total depth
- IP65 as standard to protect against challenging environment and reliable operation
- Lumen output for Twinspot is 400lm (2x245lm)

MATERIALS/FINISH

Enclosure: grey polycarbonate
Heads: black

INSTALLATION/MOUNTING

Enclosure has screw locked front panel seal. Knockouts prepared for cable entry. Units should be mounted at least 30° above the line of sight.

SPECIFICATION

To specify state:
IP65 Twin spot LED luminaire with adjustable heads in the horizontal and vertical planes
As Thorn Voyager Twinspot.

LAMPS

LED 25W

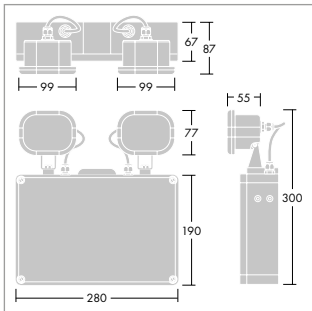
STANDARDS

CE IP65 IK03 T_a40

ORDERING GUIDE

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Twinspot			
VOYAGER TWIN SPOT MSW E3D-NM WH	1.70	96629825	VYTWSE3D
VOYAGER TWIN SPOT MSW E3-NM WH	1.70	96629824	VYTWSE3

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Voyager

LED Series



www.thornlighting.co.uk/VYLD
www.thornlighting.ie/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/E3D) 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
Spot			
VOYAGER C LED SPOT KIT E3M		96548969	VYLEDSPKIT
VOYAGER C LED SPOT MCE E3M SIL	0.90	96548965	VYLEDSPSS
VOYAGER C LED SPOT MCE E3M WHI	0.90	96548967	VYLEDSPWS
VOYAGER C LED SPOT MRE E3M SIL	0.90	96548992	VYLEDSPSR
VOYAGER C LED SPOT MRE E3M WHI	0.90	96548994	VYLEDSPWR
VOYAGER C LED SPOT KIT E3TX		96548970	VYLEDSPKIT
VOYAGER C LED SPOT MCE E3TX SIL	0.90	96548966	VYLEDSPSS
VOYAGER C LED SPOT MCE E3TX WHI	0.90	96548968	VYLEDSPWS
VOYAGER C LED SPOT MRE E3TX SIL	0.90	96548993	VYLEDSPSR
VOYAGER C LED SPOT MRE E3TX WHI	0.90	96548995	VYLEDSPWR
Accessory			
VOYAGER C LED MCE BESA	0.20	96548971	VYLEDSPBESA

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VOYAGER LED SERIES E3

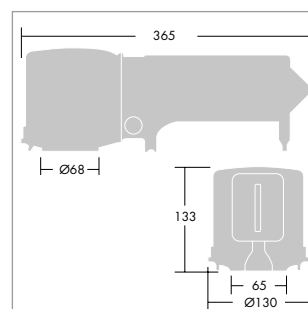
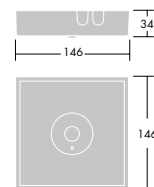
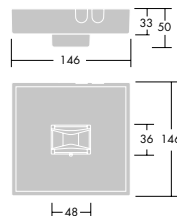
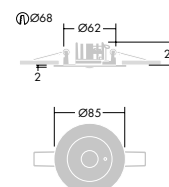
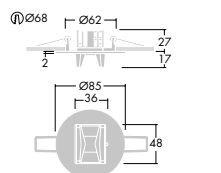
h	antipanic (0,5 lx)		escape (1 lx)		spot (5lx)
	a1	a2	a1	a2	a1
2.50	2.35	8.95	5.75	13.30	2.15
3.00	1.40	9.85	6.25	14.80	2.30
3.50	0.75	10.20	6.40	16.15	2.30
4.00	-	9.55	5.40	17.30	2.05
4.50	-	8.95	1.40	16.65	-
5.00	-	8.15	-	13.00	-

Key
h - height of the room
a1- distance of the luminaire to the wall
a2 - distance from luminaire to luminaire

All values in metres
All values for ta - 30°C
Maintainance factor - 0.8
Values for ECS version

VOYAGER LED SERIES E3TX

h	antipanic (0,5 lx)		escape (1 lx)		spot (5lx)
	a1	a2	a1	a2	a1
2.50	2.90	9.40	6.00	13.90	2.30
3.00	2.35	10.35	6.65	15.50	2.50
3.50	1.25	11.20	7.05	16.95	2.60
4.00	0.70	11.20	7.15	18.25	2.50
4.50	-	10.50	5.70	19.35	2.20
5.00	-	10.00	1.55	18.60	-



LAMPS

LED

2.7W

STANDARDS



Voyager

Escape



www.thornlighting.co.uk/VOYE
www.thornlighting.ie/VOYE



- Low profile emergency recessed fitting easily achieving 8 meters spacing reducing the number of luminaires required per project
- Plug and play connection for rapid installation
- 3 Hour emergency non-maintained operation

MATERIALS/FINISH

Body: aluminium alloy, white
 Clips: stainless steel

INSTALLATION/MOUNTING

Suitable for recessed ceiling mounting for interior use.
 Simple installation with quick fit connectors.

SPECIFICATION

Low profile LED based, self-contained luminaire, suitable for recessed mounting with optics optimised for Escape Routes and Open Areas lighting. 3 hours emergency duration from Nickel Cadmium batteries, non-maintained operation.
 As Thorn Voyager Escape.

Efficient, high power LED self-contained emergency luminaire for excellent performance and spacing



LAMPS

LED 3W

STANDARDS

CE IP20 T_a40

ORDERING GUIDE*

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Escape			
VOYAGER ESCAPE E3NM MRE	0.31	96642782	VYERNM

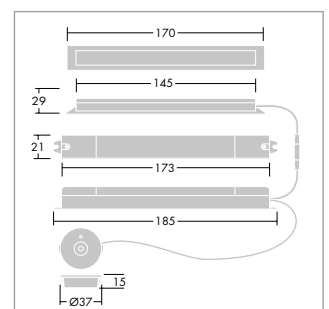
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h	antipanic (0,5 lx)		escape (1 lx)	
	α1	α2	α1	α2
2.50	2.20	5.80	2.70	6.20
3.00	2.45	6.40	2.95	6.90
3.50	2.70	7.00	3.10	7.60
4.00	2.90	7.65	3.20	8.10
4.50	3.05	8.20	3.05	8.55
5.00	3.15	8.80	2.55	8.85

Key
 h - height of the room
 α1 - distance of the luminaire to the wall
 α2 - distance from luminaire to luminaire

All values in metres
 All values for t_a - 30°C
 Maintenance factor - 0.8





www.thornlighting.co.uk/VSIG
www.thornlighting.ie/VSIG

High performance exit sign
with LED and self or central
automatic test options



LAMPS
LED LED 1W

- 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

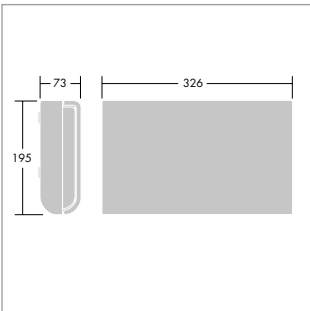
INSTALLATION/MOUNTING
Wall mounted with 20mm conduit or rear back box entry.

SPECIFICATION
To specify state:
Sign for viewing up to 30m distance, maintained operation, available as manual (E3) or SelfTest/Addressable Test (E3TX/E3D) capability. 3 hours emergency duration with 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 LED E3TX SIL	1.40	96233816	
VOYAGER SIGMA LED E3TX WHI	1.40	96233815	
Legends			
VOYAGER SIGMA SP EU DOWN	0.10	96233876	VYSEUD
VOYAGER SIGMA SP EU LEFT	0.10	96233877	VYSEUL
VOYAGER SIGMA SP EU RIGHT	0.10	96233878	VYSEUR
VOYAGER SIGMA SP EU UP	0.10	96233875	VYSEUU
VOYAGER SIGMA SP ISO DOWN	0.10	96236786	VYSISD
VOYAGER SIGMA SP ISO LEFT	0.10	96236787	VYSISL
VOYAGER SIGMA SP ISO RIGHT	0.10	96236788	VYSISR
VOYAGER SIGMA SP ISO UP	0.10	96236785	VYSISU

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Voyager

Blade



www.thornlighting.co.uk/VOYB
www.thornlighting.ie/VOYB

Ultra slim aluminium bodied
LED exit sign for surface/suspended
application



- Choice of ceiling or wall mount installation plus a suspended version for design flexibility
- 3 hour duration maintained or non-maintained operation
- Easy to install and change legends

MATERIALS/FINISH

Body: Aluminium, silver finish
Blade: Perspex®

INSTALLATION/MOUNTING

Suitable for small area use and viewing distances up to 23 metres.
Ceiling/wall version: Mount fixing bracket to ceiling or wall.
Suspended version: Mount fixing plate to ceiling and suspend via two chains (2x1m) provided.

SPECIFICATION

To specify state:
Ultra slim silver aluminium bodied maintained/non-maintained LED exit sign with Perspex® sign blade, for wall or ceiling surface/suspended mounting.
As Thorn Voyager Blade



LAMPS

LED

2.2-5W

STANDARDS

CE IP30 T_a40

ORDERING GUIDE*

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Blade Surface mounted			
VOYAGER BLADE EXIT E3NM MSC	1.00	96642779	VYBLNMS
VOYAGER BLADE EXIT E3M MSC	1.00	96642778	VYBLMS
Voyager Blade Suspended			
VOYAGER BLADE EXIT E3NM MSC-WF	1.15	96642780	VYBLNMC
VOYAGER BLADE EXIT E3M MSC-WF	1.15	96642781	VYBLMC
Voyager Blade Recessed			
VOYAGER BLADE EXIT E3NM MRC	1.15	96642992	VYBLNMR
VOYAGER BLADE EXIT E3M MRC	1.15	96642993	VYBLMR
Voyager Blade Accessories			
VOYAGER BLADE SP EU DOWN	0.001	96643982	VYBEUD
VOYAGER BLADE SP EU LEFT/RIGHT	0.001	96643980	VYBEULR
VOYAGER BLADE SP EU UP	0.001	96643981	VYBEUU
VOYAGER BLADE SP ISO DOWN	0.001	96643979	VYBISOD
VOYAGER BLADE SP ISO LEFT/RIGHT	0.001	96643977	VYBISOLR
VOYAGER BLADE SP ISO UP	0.001	96643978	VYBISOU
VOYAGER BLADE SP WHITE	0.001	96643983	VYBWH

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Voyager

Compact LED



www.thornlighting.co.uk/VOYC
www.thornlighting.ie/VOYC

LED emergency bulkhead offering maintained and non-maintained operation in one luminaire sealed to IP65 for indoor and outdoor use



- Energy saving LED replacement for 8W emergency bulkhead
- IP65 ingress protection, suitable for indoor and outdoor use
- Maintained or non-maintained operation within the same luminaire, reducing installation complexity
- Suitable for escape routes and open areas

MATERIALS/FINISH

Body/cowl: white polycarbonate
 Diffuser: clear polycarbonate

INSTALLATION/MOUNTING

4 screw fixing complete with drilling guide points. 4 x Ø20mm conduit knockout entry points (sides, rear and top). BESA entry from rear. No mounting kit necessary. Loop in / Loop out terminal block with rising clamps which improves clamping of wires, preventing over tightening and damage.

SPECIFICATION

To specify state:
 Compact polycarbonate IP65 emergency LED bulkhead for wall or ceiling mounting.
 As Thorn Voyager Compact LED.

**LAMPS**

LED

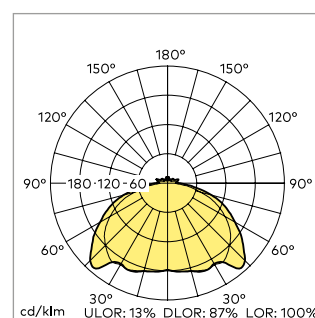
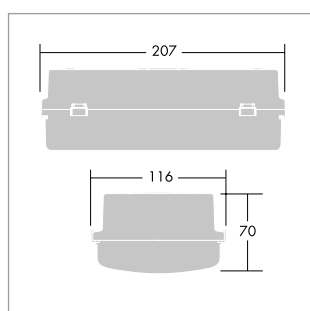
2.7W

STANDARDS
ORDERING GUIDE

Legend kits (ISO/BSEN) to be ordered separately

Description	Wt (kg)	SAP Code	Cat. No.
Voyager Compact LED			
VOYAGER COMPACT LED	0.50	96242092	VYBE3
Voyager Compact LED Legends			
VOYAGER COMPACT BSEN LEGEND KIT	0.05	96242093	VYLKE
VOYAGER COMPACT ISO LEGEND KIT	0.05	96242094	VYLKI

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



The new service division of the Zumtobel Group

The Zumtobel Group makes some of the most advanced lighting in the world and ZGS is its new service offering.

From controls and connectivity to data collection and analysis; from software development to light as a service; from emergency lighting to lifecycle management of lighting infrastructures: ZGS turns lighting into customised, scaleable and ready-to-use solutions.

Together with ZGS, Thorn can offer comprehensive and specialist solutions in the lighting industry.



Lighting services – managed by us, tailored to you

Zumtobel Group Services combines expertise and creativity to deliver safe, profitable and productive lighting solutions for now and the future.



Customers across the board want their lighting solution simplified, particularly at a time when new digital technologies are changing the way we use light. Zumtobel Group Services (ZGS) provides companies worldwide with a comprehensive service offering – a single point of contact responsible for every stage of the lighting process.

Turnkey Services

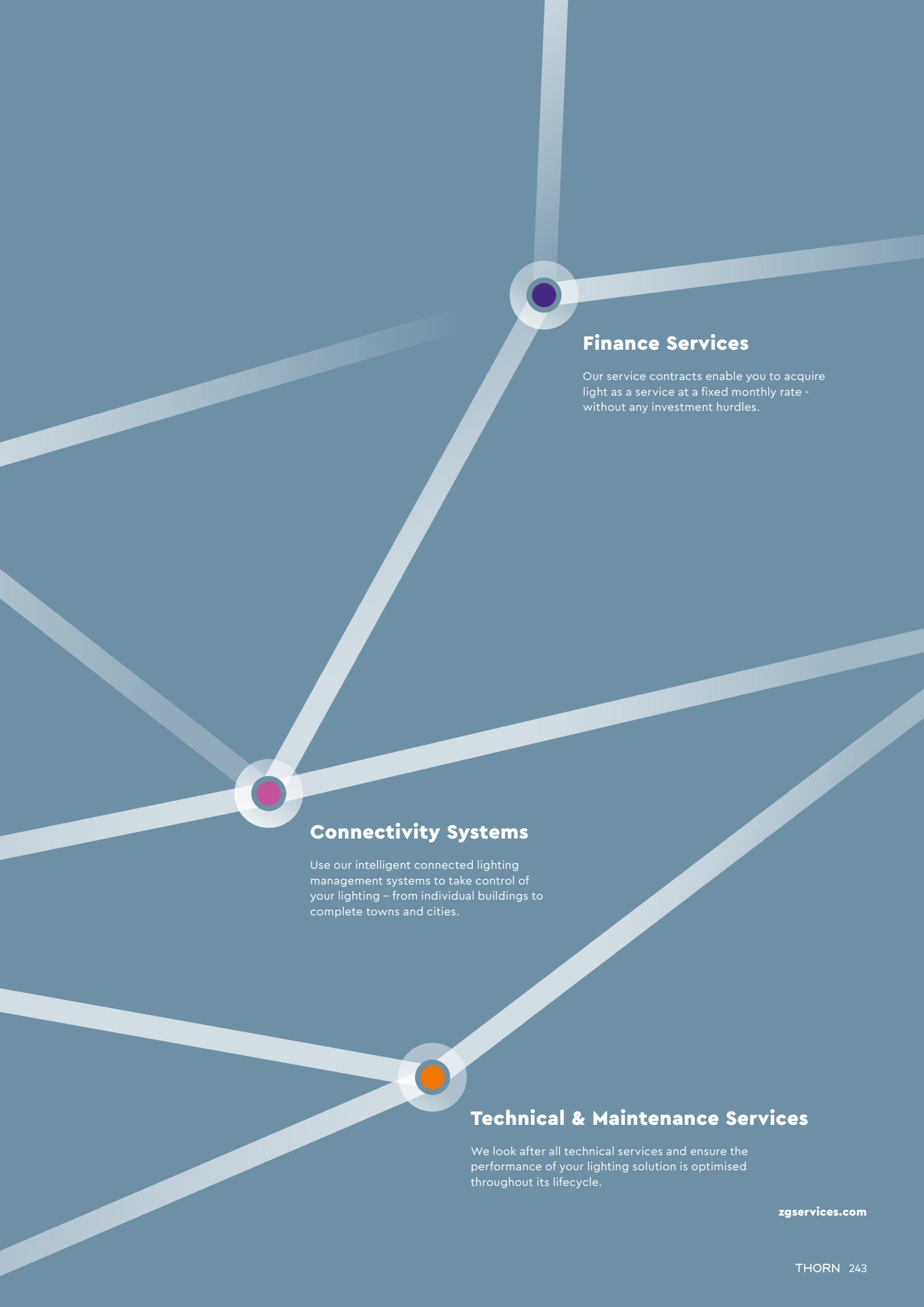
Designing, maintaining and installing a new lighting system can be a complicated business. We manage the entire process for you: from planning and project management to commissioning and ongoing maintenance. Our all-in-one service package - COMPLETE - gets you up and running fast.

Digital Services

We help you gain new insights into the opportunities opened up by connected lighting, including analysis of space and building utilisation.

Emergency Lighting Systems

We take care of your safety, managing everything from emergency lighting planning to the annual maintenance of your emergency lighting system.



Finance Services

Our service contracts enable you to acquire light as a service at a fixed monthly rate - without any investment hurdles.

Connectivity Systems

Use our intelligent connected lighting management systems to take control of your lighting - from individual buildings to complete towns and cities.

Technical & Maintenance Services

We look after all technical services and ensure the performance of your lighting solution is optimised throughout its lifecycle.

zgservices.com



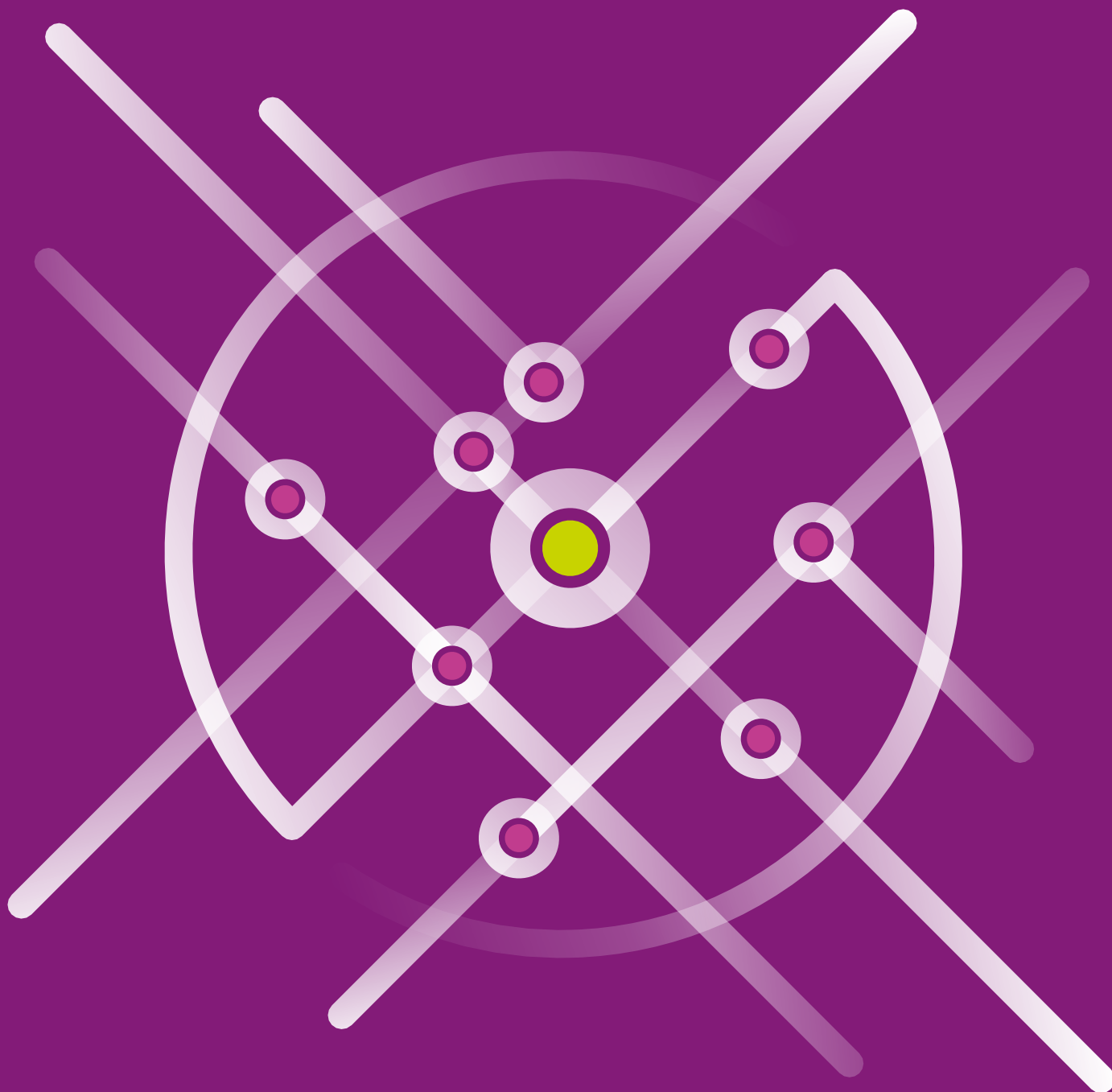
Emergency Lighting Systems

Leading you to safety

Functional emergency lighting is your responsibility by law – but it is also your responsibility to the building, the people in it and the environment. That is why quality is key.

Thorn and Zumtobel Group Services offer a complete range of reliable, long-life emergency lighting solutions for every type of building. This includes luminaires and signage, self-contained and central battery systems and maintenance contracts. We attach great importance to the technical quality of our emergency lighting, focusing on criteria such as maximum energy efficiency and easy maintenance.

Learn more at
emergency.zgservices.com



Connectivity Systems

Our intelligent systems put you in control

The Connectivity services from ZGS cover every aspect of intelligent lighting controls and enable digital services for smart building solutions.

Our hard and software solutions are scaleable both in size and functionality. Simple, intuitive interfaces allow the management of lighting in retail and office spaces at the touch of a button. At the larger end of the scale, Thorn and Zumtobel Group Services help entire cities use their lighting infrastructures in the most sophisticated and efficient way to manage traffic and minimise energy consumption.

LITECOM

LITECOM is the only lighting control system you'll ever need: super easy, super efficient and super versatile.

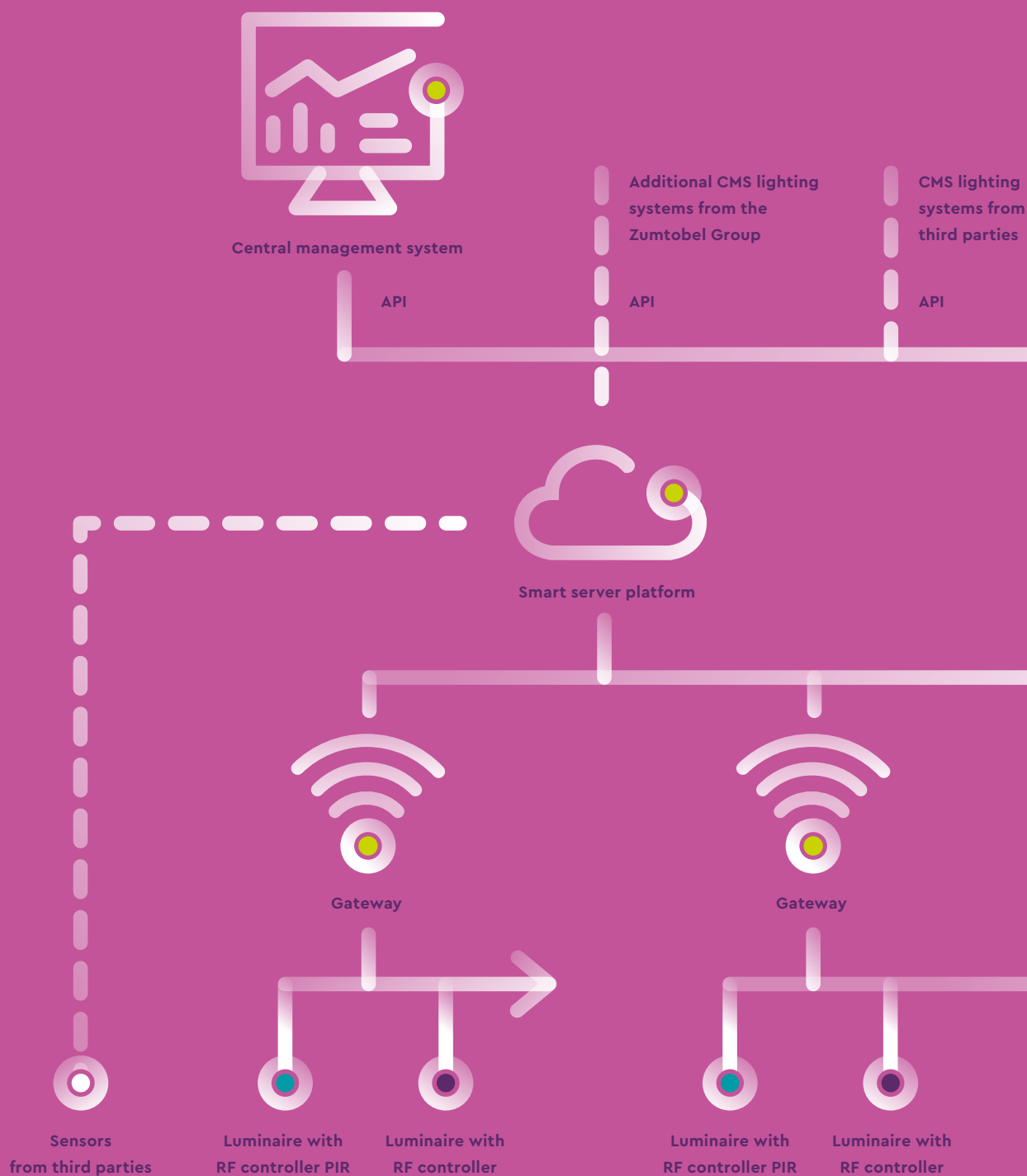
InCity

INCITY lets your city interact with the people to deliver more safety, more sustainability and more services.

Learn more at
connectivity.zgsservices.com

InCity system

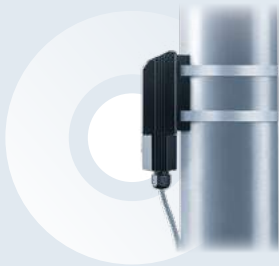
Flexible in all directions





InCity hardware

A reliable basis



RF controller I/E

Luminaire module for wireless communication with the InCity system, in line with pre-set lighting profiles and sensor information.

For mounting on masts: RF controller E.
For installation in the luminaire: RF controller I.

- Lighting control via standardised DALI interface
- Integrated astronomical clock
- Wireless remote connection to the gateway
- Regular automatic synchronisation with the RF gateway for current status and error messages
- Remote updates option - without the need for a service technician on site



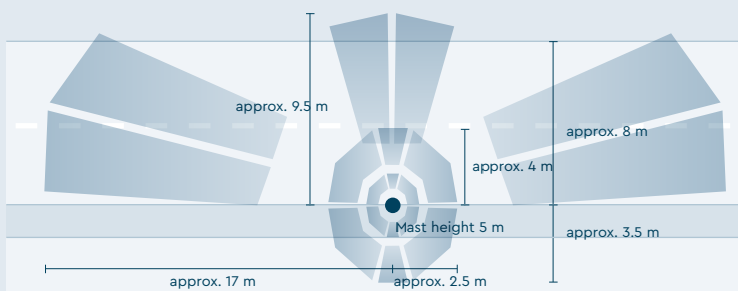
RF controller PIR

Luminaire module for wireless communication with the InCity system. An integrated sensor system means that motion detection and system communication can take place within the same component.

For mounting on masts.

In addition to the functions of the RF controller:

- Integrated sensor system to record the movement of vehicles and people
- Four independent sensors that together monitor a uniquely large detection area
- Option for train-of-light applications (companion light)



With four independent sensors, the RF controller PIR detects movements from all directions: to the right and left along the street and directly below the luminaire, as well as to the front and on the opposite side of the street.



RF gateway

Network module for communication with up to 200 RF controllers from the InCity system and for collecting data that is passed on to the CMS system. The gateway records regular system data, sensor data and status information from the RF controller, sends this to the InCity lighting management system and in return transmits changes from the management system to the RF controller.

For mounting on masts.

- Wireless remote connection to the RF controllers
- Connection with data server and management system using an integrated SIM card or via LAN or WLAN
- Regular automatic synchronisation with the lighting management system
- Remote updates option - without the need for a service technician on site
- Regular logging of the system operation with customised scheduling
- Large local memory capacity to prevent data loss during connection errors

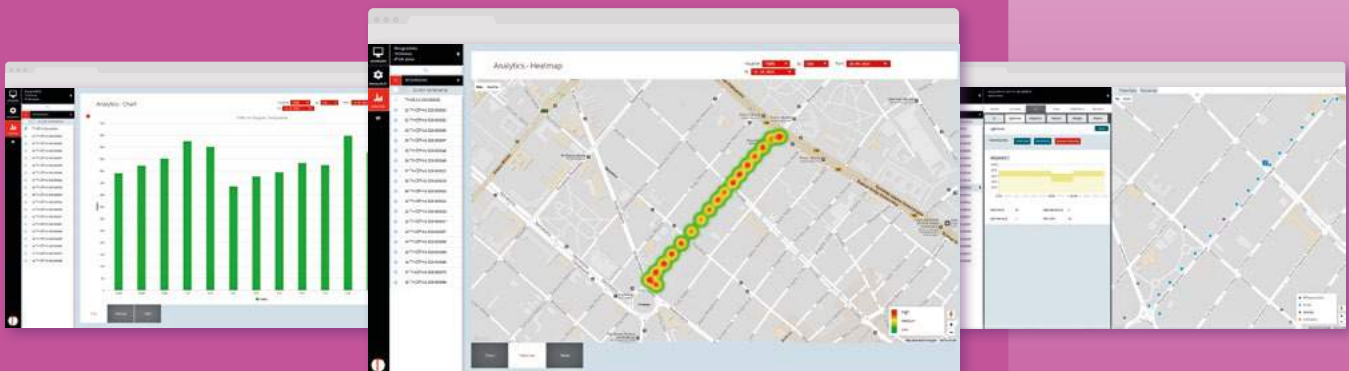
InCity software

Solution-oriented data management

Lighting management system

Our InCity Software enables professional support, monitoring and maintenance of outdoor lighting systems. User-friendly interfaces, time-saving automation and high standards of security combine to deliver a robust and efficient lighting management platform. With no limit on the number of luminaires and users, open interfaces and ongoing improvements advance - InCity software meets all requirements - today and into the future.

- A personal customer website with a hierarchical structure and password authorisation
- Map-based presentation
- Automatic inclusion of all light points and communication modules
- Calculation of the energy savings
- Analysis of the motion detector data
- Data processing in graphs and heatmaps
- Reporting and notification of error messages
- Regular logging of the system operation
- High level of security through fully encrypted data communication using a server located in the EU, together with redundant server architecture



Clear user interfaces simplify the monitoring and operation of the system. Map-based representation and graphical data processing using charts and heatmaps ensure that even complex information can be quickly and easily understood.



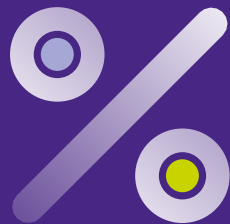
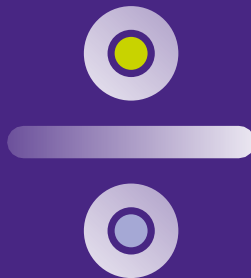
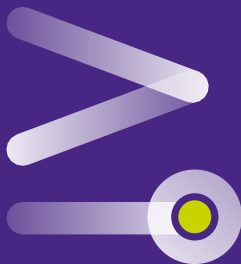
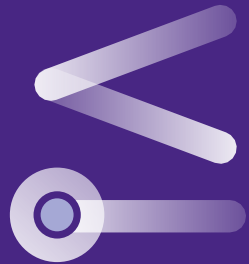
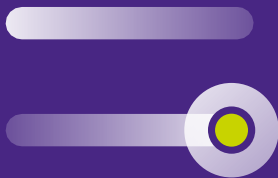
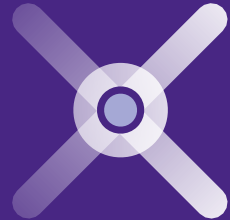
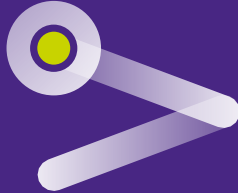
Digital Services

New insights, better customer experiences

Digital technology is changing the way we live – and the way we use light. Our team helps you gain better customer insights and create new value propositions and business models through the Internet of Things, whatever the platform.

With our inclusive approach, we're a sought-after partner for leading technology companies. The result? Ground-breaking prototype projects in connected commerce, connected buildings and connected cities.

Learn more at
data-based.zgservices.com



Finance Services

Light that pays for itself

Our NOW finance services allow you to access the best lighting systems from Thorn and Zumtobel Group Services with minimal initial investment costs. Receive light as a service at a fixed monthly rate.

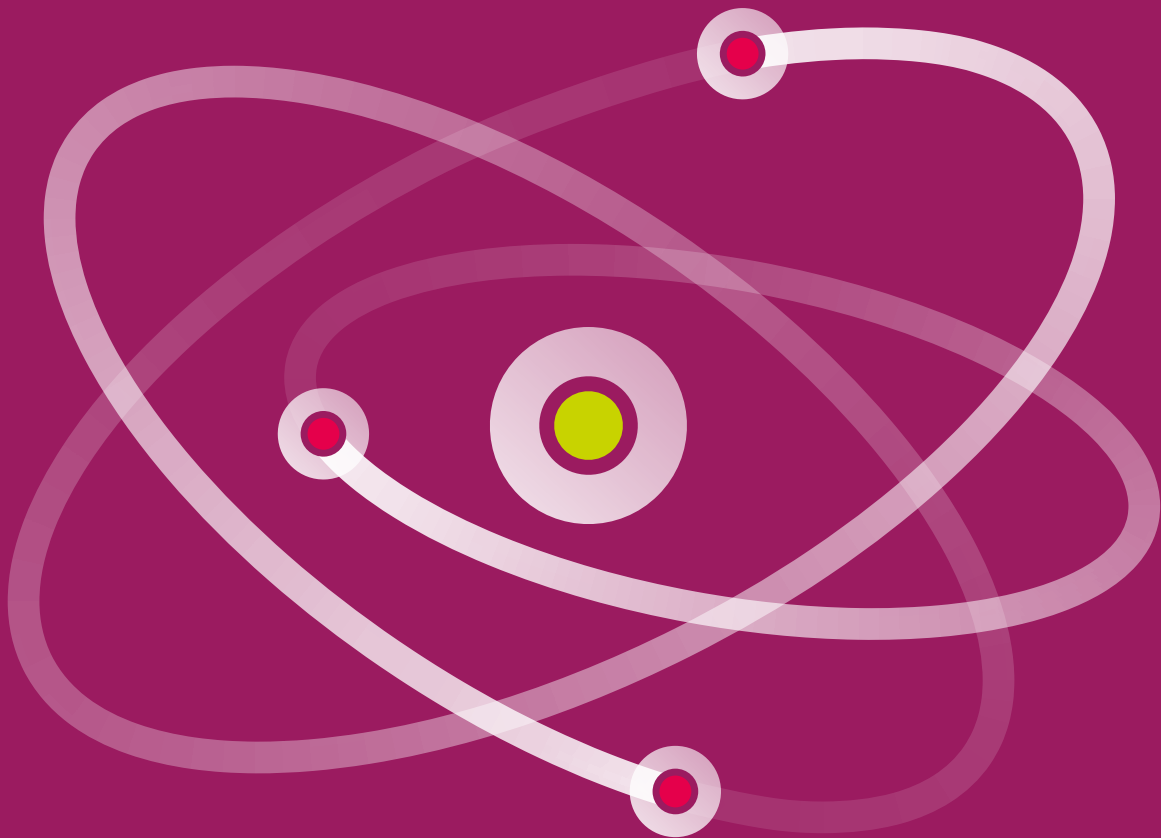
We organise the entire renewal of your lighting system from the very beginning: planning, installation, commissioning and regular maintenance. Your lighting is taken care of by us.

Enhance the wellbeing of your people, boost your energy efficiency and reduce capital exposure – all with one experienced partner.



NOW offers you the best possible lighting quality and energy efficiency while – and helps you spend

Learn more at
now.zgsservices.com



Turnkey Services

Your all-in-one service packages, ready to go

Whether you're implementing a single-site lighting strategy or rolling out a retail concept across multiple locations or countries, Thorn and Zumtobel Group Services offer ready-to-use lighting solutions.

Our COMPLETE service looks after the complete process for you – from commissioning and planning to project management, installation and maintenance.

COMPLETE is the all-in-one package designed just for you – so you can enjoy the ROI benefits of more efficient lighting even sooner.

Complete.

COMPLETE delivers your lighting projects on time, on budget and on site – all with a single point of contact.

Learn more at
turnkey.zgsservices.com



General Information

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Safety & 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 (EN/ISO 9000)

All activities associated with providing a quality product - design, development, testing, production, despatch, customer service - are covered by EN/ISO 9000. The Group's site at Spennymoor, including UK Distribution, is registered by IQNET to the highest standard, ISO 9001. Additional operations 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 OVE, under the scheme of SMT, MPL and EN 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 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 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), Radio Equipment Directive (RED) and RoHS (Restriction of Hazardous Substances).

CE marking is compulsory to indicate LVD, EMC, RoHS, RED and ErP conformity.

RADIO EQUIPMENT DIRECTIVE 2014/53/EU

RED covers equipment which intentionally emits or receives radio waves for the purpose of radio communication or radiodetermination and makes systematic use of the radio spectrum. In order to ensure an efficient use of radio spectrum so as to avoid harmful interference, all such equipment should fall within the scope of this Directive.

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 current Waste of Electrical and Electronic Equipment Directive, 2012/19/EU, came into force on 13th August 2012.

Thorn belong to an approved compliance scheme run by Lumicom (Only in UK), a not-for-profit organisation set up by the Lighting Industry Association 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 (Only in UK), 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 (Only in UK). 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 from 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 wheellie-bin symbol. These products are the responsibility of the original 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 (Only in UK) 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 to Lumicom must have their lamps and any batteries removed beforehand.

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 EN/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 & 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)	BS EN 62722-1	EN 62722-1	IEC 62722-1
Luminaires - Performance (LED)	BS EN 62722-2-1	EN 62722-2-1	IEC 62722-2-1
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
Control Gear - Safety	BS EN 61347	EN 61347	IEC 61347
LED Modules - Safety	BS EN 62031	EN 62031	IEC 62031
LED Modules - Performance	BS EN 62717	EN 62717	IEC 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 and minimum ambient temperatures 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

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, light source and 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

- 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)
- 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 62262:2002) 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 Guide 7 (LG7) and to EN12464-1:2011 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. 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

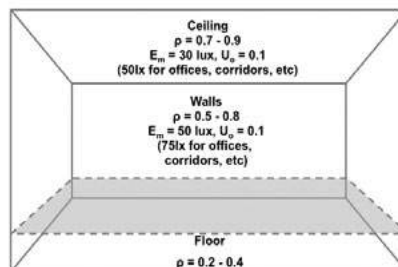
$E_m > 30 \text{ lx}$ with $U_o > 0.1$ on the ceiling

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.

Copies of LG7 can be purchased on-line at www.cibse.org/knowledge



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 (came into force in 2013) and Wales (2014), which includes limits on the energy efficiency of lighting in domestic and non-domestic buildings. The amended documents have been published and came 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 September 2016. 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.

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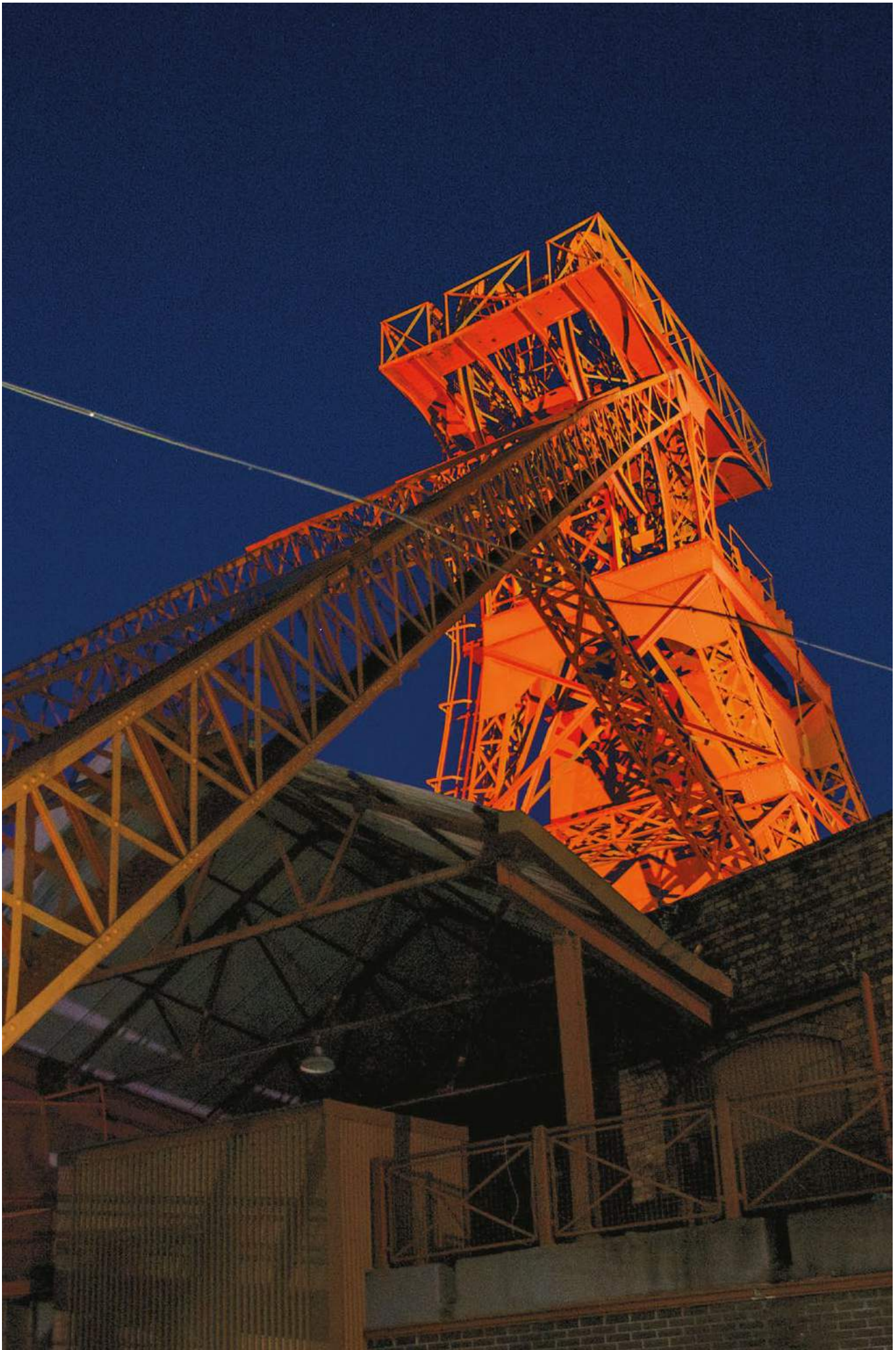
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ZG Lighting (UK) Limited is resolutely concerned with quality and the promotion of good, efficient lighting practices. We are an active member of the Lighting Industry Association which is committed to raising standards of safety, performance and education in lighting.



WEEE Producer Responsibility ZG Lighting (UK) Ltd is a member of the Lumicom Producer Compliance Scheme. Through this scheme, depolluted luminaires (i.e. those with the lamps and batteries removed) which are being replaced by our fittings, will be recycled by Lumicom in an environmentally sound manner." Our Membership number is WEE/KG0206VY



As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.



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acdc

THORN

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TRIDONIC

zgs zumtobel group
services

 **ZUMTOBEL**

SAP Description key A – M

R2M	LED Driver for Ready 2 Mains Control
10K	10kv Surge Protection Device
2C	Separate switching facility
5D	5 Degree
A	GLS types
A/A	Asymmetric - In all plane
A/CB	Asymmetric - Counterbeam
A/S	Asymmetric
A/S2	Reflector shape/beam angle 20°
A/S3	Reflector shape/beam angle 30°
A/S6	Reflector shape/beam angle 60°
AA	Anodised (aluminium)
AC	Acrylic (PMMA)
ADC	Automatic disconnection
AF	Front access
AGS	Barndoors
AH	Air handling
AJ	Adjustable
AL	Aluminium (and alloys)
AMB	Amber
ANT	Anthracite (grey)
ANT	Emergency light distribution Antipanik (old AREA) 
AR	Anti reflection
Autotest	automatic Functiontest (old SelfTest)
AUX	Facility for Auxilliary lamp
BA	Brushed - aluminium
BAF	Baffle
BC	Bayonet cap B22
BESA	Fixing for BESA conduit box
BK	Black (old BLK)
BOL	Bollard
BPL	Bi Power Power Line
BR	Brass (effect)
BRA	Bracket
BS	Brushed - steel
BU	Blue (old BLU)
C	Coupler - straight - mechanical
CAP	Canopy (hat)
CBOX	Connection box
CC	Integral circuit breaker (MCB)
CCO	Cylindro-Conical
CH	Fixing for chain
CHR	Chrome (effect)
CIRC	Circular profile
CL	Clear
CLIP	Clip (eg. diffuser retention clip)
CLO	Constant Light Output
CO	Conical
COL	Column
COR	Corridor Function via Pilot Line
COVER	Cover
CP	Switch start - high power
CRL	Circular louvre
CU	Copper
CW	Corner wash

D	Direct, 100% of flux downward
D/I	Direct/Indirect
DC	Dustcover
DGE	High pressure discharge lamps
DIM	Dimmers
DM	Dimpled
DMB	Parabolic reflector, mirrorbrite louvre
DSB	Parabolic reflector, satinbrite louvre
E1NM	1 hour duration
E27	Edison screw; gauges to E27
E3	3 hour duration, manual test
E3-S	3 hour manual test, switchable (M or NM)
E3D	3 hour duration, DALI addressable/ SelfTest
E3D-S	3 hour DALI addressable/SelfTest, switchable (M or NM)
E3M	3 hour duration, manual test, maintained
E3MT	3 hour duration, SelfTest, main-tained
E3MX	3 hour duration, addressable test, maintained
E3NM	3 hour duration, manual test, non-maintained
E3NMT	3 hour duration, non-maintained SelfTest
E3R	3 hour duration, with battery, Switch start
E3T	3 hour duration, SelfTest
E3T-S	3 hour duration, SelfTest, switchable (M or NM)
E3TX	3 hour duration, DALI Addressable/ self test
E40	Edison screw; gauges to E40
EC	Central Battery
ECA	End cap - aluminium
ECC	Emergency Central Battery Circuit Monitoring
ECO	Conical
ECP	End cap - plastic
ECS	End cap - steel
ECS	Emergency Central Battery Set 009
ECU	Curved profile
EDO	Domed
EDP	Deep dish or bowl
EFL	Flat panel/glass
EHF	High frequency - Fixed Output
EPR	Enclosure - prismatic
ESC	Emergency light distribution Escape (old ROUTE)
ESH	Shallow dish or bowl
ESQ	Square enclosure
EW2	Enclosure with 2 windows
EWS	Street, Extra Wide Distribution
EWSC	Street, Extra Wide Comfort
EXT	Extensive
F	Diffuser in bezel frame
FA	Anchor bolt fixing
FAI	Anchor bolts included
FILTER	Filter
FIX	Fixing accessory

FIX/CAT	Fixing for catenary wire
FIX/SUP	Fixing supplementary
FL	Flood, - 20° - 30°
FP	Flex & Plug 3 core 1.7m (AUS)
FR	Frosted (sand blasted)
FRAME	Bezel frame
FSR	Frame surface to recessed (mounting frame)
GB	Gear Box
GL	Glass
GN	Green (old GRN)
GR	Grill
GRM	Cable entry grommet
GT	Gear tray
GY	Grey (old GRY)
HA	Starburst
HD	Heavy Duty; Safety Glass
HF	High frequency - Fixed Output
HFA	High frequency - Analogue Dimmable 1-10V
HFD	High frequency - DSI Dimmable
HFI	High frequency - DALI/DSI Dimmable
HFI-X	High frequency - DALI Dimmable Only
HFIX	High Frequency - DALI Dimmable/ Switch DIM
HFX	High frequency - DALI Dimmable Only
HGF	Halogen Free wiring
HID	Magnetic high pressure
HIE	High pressure Iodide Elliptical
HIT	High pressure Iodide Tubular
HIT-CE	Ceramic High pressure Iodide
HIT-DE	High pressure Iodide Tubular
HIT-HST-DE	High pressure sodium Tubular
HME	High pressure mercury
HR	Hot restrike
HSE	High pressure sodium
HST	High pressure sodium Tubular
IHF	Industrie High frequency
INT	Intensive
IVS	Pedestrian Crossing Distribution
KIT	Kit (of components)
L	Large
LED	Light emitting diode
LEG	Legend
LF	Fresnel lens
LGRY	Light Grey
LN	Straight
LRT	Light Reduction Twin Phases
LV	Louvre
LVBACK	Louvre back
LVFRONT	Louvre front
M	Medium
MC	Cellular (eggcrate)
MCA	Catenary suspension only
MCE	Ceiling mounted only
MCH	Chain suspension only

SAP Description key M – Z

MD	Mixed Vehicle & Pedestrian
MFS	Free Standing
MFX	Decorative Stirrup
MGR	Post (column) with root
MGS	Post (column) with ground spike
ML	Mains lead
MOD	Modern
MP	Micro-perforated
MPL	Post (column) with flange plate
MR	Mounting type - recessed
MRC	Mounting Recessed Ceiling
MRE	Recessed non specific
MRM	Metal ceiling
MRO	Knuckle joint (rotule) mounting
MRP	Plasterboard ceilings
MRS	Rod suspension only
MS	Mounting type - surface, mountable on wall and ceiling
MSC	Mounting Surface Ceiling
MSF	Surface non specific
MSR	Semi recessed
MSU	Suspended
MSW	Wire suspension only
MSW	Mounting Surface Wall (for Emergency luminaires) 
MSW1	Wire suspension - single wire
MS-WF15	Mounting type - surface, mountable on wall and ceiling, wire suspension 1.5m
MSWT	Wire suspension
MTP	Post top Accessory
MWA	Wall mounted only
NAF	Anchor bolts not included
NB	Without baffle
NBRA	With fixing holes
NC	Switch start - inductive
NG	No gear
NI	Nickel
NICD	Nickel Cadium
NR	Road, Narrow Distribution
NW	Narrow beam
OP	Opal
OV	Oval
P	Integral photocell
PC	Polycarbonate
PD	Pedestrian Only Motion
PE	Polyethylene
PET	PET (and PET/G) polyethylene terephthalate/glycol
PL	Power Line Control
PM	Integral mini photocell
PN	Integral Nema photocell facility (3 pin)
PNS	Integral 5 pin Nema photocell facility
POL	Polished
PR	Prismatic
PS	Polystyrene
PSB	Parabolic reflectors, flat santinbrite vanes
PWC	Pedestrian Walkway Comfort

PXT	Parabolic reflectors, fir tree vanes
QA60	All purpose halogen lamps
QF	Fixing - quick fix device
R	Reflector lamps
R/S	Radial - symmetric
R2M	LED Driver for Ready 2 Mains Control
RAL	Aluminium reflector
RBOX	Recessing box
RC	Road, Comfort Distribution
RCT	Rectangular profile
RD	Round
RF	Radio Frequency Control
RFRAME	Recessing bezel frame
RGB	Red, green, blue
RHB	Hammer blow
RING	Ring collar for lampholder
RK	Racklight, distribution
RM	Medium (physical width)
RMB	Specular - polished
RNW	Narrow (physical width)
RPF	Perforated
RPR	Plastic
RS	Stainless steel
RSB	Satin
RWD	Wide (physical width)
RWET	Road, Wet Distribution
RWH	White reflector
RX7S	Tungsten halogen linear
S	Small
S/S	Di-symmetric
S27G/ S34G	Side mounting 27G/34G
SA	Satin
SC	Street Comfort Distribution
SENLPS	Power supplies
SENLT	Transceiver
SENP	Programmer
SF	Semi frosted
SIL	Silver (effect)
SL	Slotted
SLD	Presence (PIR) and daylight
SLDD	Daylight only detector
SLDM	Presence (microwave) only detector
SLDMD	Presence (microwave) and daylight detector
SLDP	Presence (PIR) only detector
SNW	Super narrow beam
SM-1S	Mountable legend set for one sided use with all directions
SM-1UP	Mountable legend arrow up
SM-S	Mountable legend set for one and two sided use (arrow up excluded)
SO	Integral socket
SP	Spot, ~ 10° - 12°
SPIKE	Ground fixing spike
SQ	Square
SR2	Shock-proof plug
SS	Integral shaver socket
ST	Steel

STR	Street optic
SW	Integral switch
SWD	Dimming Switch
SX	Socket (X poles)
SY	Gloss/semi gloss
T	Low surface temperature
T16	T5 (16mm dia)
T16-R	22W to 60W
T26	T8 (26mm dia)
TC-D	Tubular compact, two-fold
TC-DD	Tubular compact Double-D
TC-DDEL	Tubular compact Double-D
TC-DEL	Two-fold double tube compact
TC-L	Long Tubular compact
TC-S	Tubular compact, single
TC-SEL	Tubular compact, single
TC-T	Three-fold double tube
TC-TEL	Three-fold double tube comp
TC-TELI	Three-fold double tube
TL	Tall
TS	Integral socket for telephone
TW	Through wired
TWKIT	Through wire kit
U0	0% ULOR
VIS/VIS	Visor
VWS	V reflectors, flat white vanes
W	Watt
WB	With baffle
WD	Wide beam
WG	Wire guard
WH	White (old WHI)
WI	Integral ignitor
WO	Wago type plug
WR	Road, Wide Distribution
WS	Street, Wide Distribution
WSC	Street, Wide Comfort
WW	Wall washer
X	Separator
XL	Extra large
XXL	Extra Extra large
YE/YEL	Yellow

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