



SOCIAL HOUSING LIGHTING





LIGHTING FOR SOCIAL HOUSING

The lighting of social housing, whether it be high rise blocks or homes for the elderly, poses numerous challenges. The lighting should provide enough illumination to ensure a safe and secure environment whilst being robust enough to withstand vandalism where necessary.

For housing providers reducing the energy load has to be a key goal in any project, the use of LED luminaires combined with lighting controls can offer substantial savings, particularly in communal areas where the occupancy levels are low.





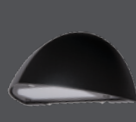

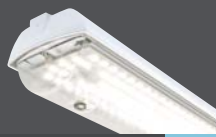

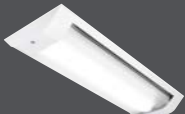







Social housing providers also have to adhere to very strict emergency regulations which not only require emergency lighting to be functional at all times, but also necessitate monthly and yearly functional and duration tests on all emergency luminaires. Under the Regulatory Reform (Fire Safety) Order failure to provide a compliant system and failure to regularly test and maintain it can result in prosecution for the employer or building owner who may face fines and imprisonment if convicted.

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Luminaire Range

				
PRISMALETTE PRO 16	PRISMALETTE 20	COBALT 22	REALTA 24	REALTA MICRO 28
				
MERCIAN 30	A-LINE 32	ARCADIAN 36	VENTEGO 38	GLODOME 39
				
CLARA 360 40	STARFLOOD 42	STARBEAM 46	JUNO A 53	JUNO B 54
				
JUNO C 55				



INTRODUCTION

Thorlux, for over 80 years, has manufactured increasingly sophisticated luminaires in the Birmingham area and supplied social housing providers for over 50 years.

During the last 20 years, the company has focused on high technology products, including the development of its first electronic energy-saving lighting control system in the mid-1990s. Huge investment in design and testing facilities in Worcestershire has now put Thorlux at the forefront of its market sector.

Thorlux luminaires are subject to stringent quality control, as demonstrated by the company's BS EN ISO 9001:2015 (Quality management systems) accreditation. Additionally, accreditation of Thorlux to BS EN ISO 14001:2004 (Environmental management systems) gives the customer assurance that the company manufactures its products in the most environmentally friendly manner.



LATEST LED TECHNOLOGY

Thorlux is able to exploit recent advances in LED technology to help meet customer demand for energy-efficient solutions. The company's considerable technical expertise and its ability to invest position it to maximise the opportunities offered by LED technology.

Backed by the group's modern facilities, Thorlux designers and developers have worked over recent years to create LED luminaires to meet customers' operational and aesthetic requirements. Thorlux has made a huge investment in LED technology, including in house circuit-board design, software development, thermal modelling and optical lens design.

To increase the range and performance of its LED luminaires, Thorlux both designs dedicated LED luminaires from scratch, to optimise optical and thermal performance, and adapts existing conventional products to offer an LED option.

Unlike a traditional light source, a bare LED is a very intense point-source of light which has high glare and emits light in one direction only; therefore optical design is very important. Thorlux takes different approaches to optical design, according to the desired outcome.

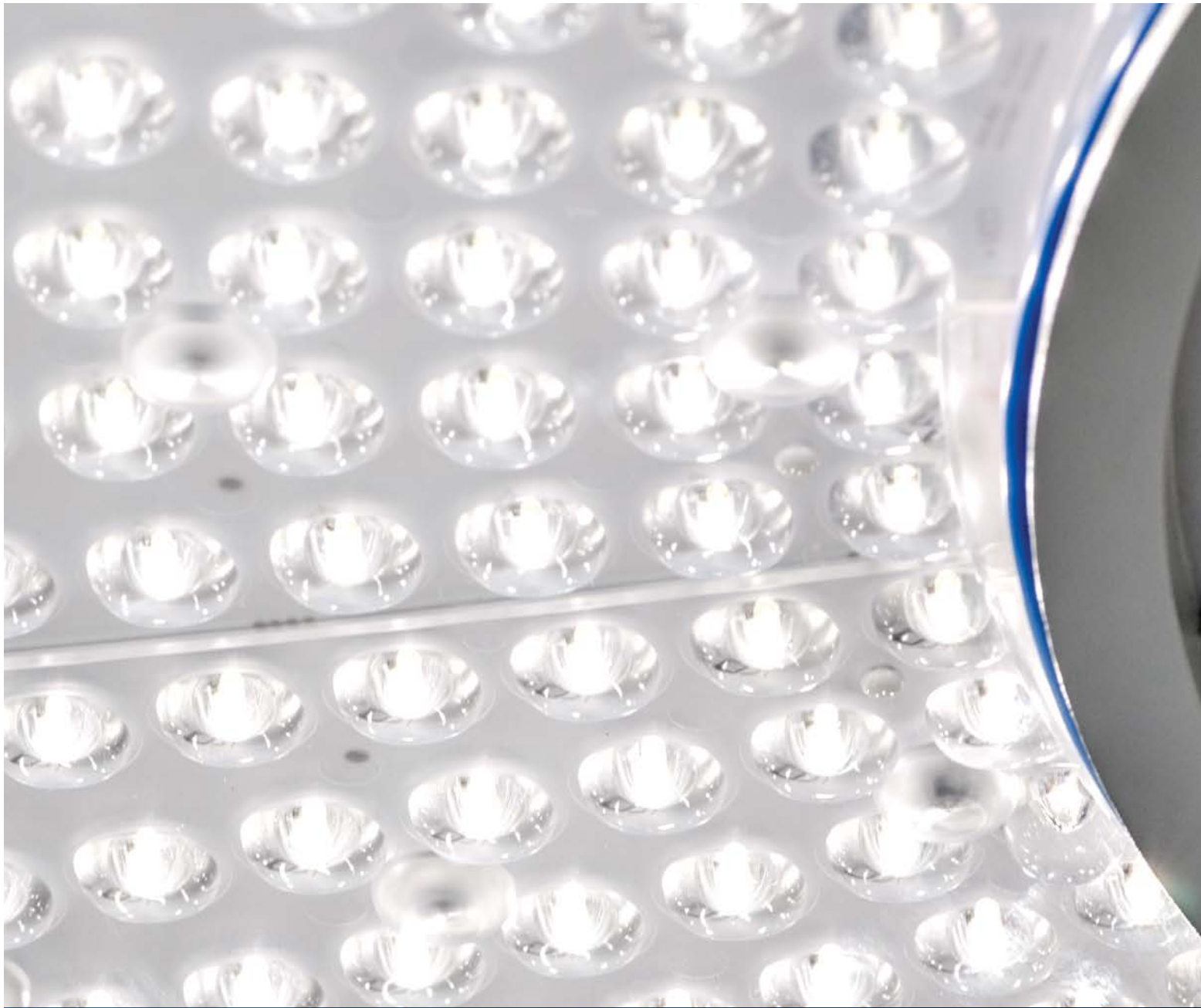
Almost all LED products benefit from bespoke LED printed circuit boards (PCBs) designed by the Thorlux electronics team. These PCBs ensure that Thorlux luminaires deliver maximum performance.



LEDs, as with lamps, can sit behind a controller or diffuser which will help to spread the light over a wider area, providing a uniform light



Having multiple LEDs on a luminaire provides the option of having individual optics for each LED



LED GUIDE

Thorlux designs, manufactures and tests the vast majority of its own LED electronic systems including the lenses for precise optical control. By carefully considering end of life scenarios, for example, LED failures, solder joint failures and isolated component failures Thorlux ensures new designs have on-going system reliability even when individual components fail.

The company history of over 80 years, running into thousands of years of combined employee experience, ensures every aspect of lighting a space is carefully considered - a requirement all the more important as LED lifetimes are now expected to reach 50,000 to 100,000 hours or even more!

LEDs have developed significantly now exceeding the performance of even the best fluorescent solutions. Volume increases have reduced costs, making them the ideal choice in many more applications. Not all LED solutions are the same so Thorlux has introduced a simple marking code into its literature to identify the key performance characteristics of its LED based luminaires - an example is shown to the right.

LED characteristics are shown on web catalogue download pages and show the best performance expected within the range. Please check photometric data for specific model types which may be less than the optimum figure tabulated.

EXAMPLE: LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>92%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	148.7

For LED characteristics explanation see www.thorlux.com/led-guide

CRI

Indicates colour rendering index (colour quality). A minimum of 80 CRI is recommended for working areas.

COLOUR TEMPERATURE

The approximate colour temperature of the light source. There is a tolerance for a specific chosen colour temperature. More accurate information, for specialist applications, is available upon request.

RATED LIFE (HOURS)

These figures illustrate the target life expectancy of the LED (for example 60K = 60,000 hour life expectancy) which is a combination of light output degradation (L70 = when the light output has reduced to 70% of its initial level, L80 = 80%) and lamp performance expectation (B10 = when 10% of the LEDs have failed to meet operational expectations).

PROTECTION

Some LED PCBs comprise a number of LEDs connected in series or in a series/parallel group. If the system is unprotected failure of one LED will cause others in the group to extinguish. If the system is protected with **LED PROTECT** (PLEDs) then failure of a single LED will not affect others in the group. If the system is protected with patented **LUX GUARD**, other LEDs in close proximity will brighten slightly to compensate. For more information on LED failure protection see pages 8 & 9.

DRIVER EFFICIENCY

This figure illustrates the LED driver efficiency.

REPLACEABLE

Indicates whether the LED PCB or module is replaceable should a failure occur.

POWER FACTOR

Indicates LED driver power factor.

LL/CW

Luminaire lumens per circuit watt, the luminaire efficiency including ALL optical and gear losses. It is very important to compare this figure correctly - other manufacturers may state LED efficiency, for example, which does not include all losses within the system and could therefore be a misleading, much higher figure.

This figure is always the "best in class" for the luminaire range, for specific ratings for each available luminaire please refer to the photometric data or contact the Thorlux Technical Services department.

THIS BROCHURE PRESENTS THE VERY LATEST THORLUX LED PRODUCT INNOVATIONS USING TWO DIFFERENT TYPES OF LED TECHNOLOGY:

WHITE HIGH POWER LEDs

Ideal where high power and excellent optical control is required. Each LED typically operates between 1W and 10W. Most often used in long life outdoor type products. For example, see **Starbeam**.

MEDIUM POWER LEDs

Ideal for high efficiency luminaires with a well diffused appearance. Typically used in large quantities in each luminaire with individual LEDs operating between 0.2W and 0.5W. For example, **Dot** and **Sky-Dome**.

LED SYSTEM PROTECTION

LEDs are a very efficient light source and are resilient to many conditions that can be detrimental to the lifetime of traditional lamps.

For example, LEDs are largely unaffected by frequent switching, shock or vibration. However, LEDs or their solder joints can infrequently fail. In such circumstances it would be inconvenient if the failure caused significant loss of light, or if the luminaire extinguished completely.

In many luminaires LEDs are linked in series whereby a current flows through each LED in turn. Should an LED or solder joint fail, a whole row of LEDs, or in fact all LEDs, may extinguish. Thorlux has designed specific protective measures to prevent such a condition.

There are two methods of LED system protection used by Thorlux

- 1 LED PROTECT**
For high power LEDs

LED
PROTECT

- 2 LUX GUARD**
For medium power LEDs

LUX
GUARD

LED PROTECT

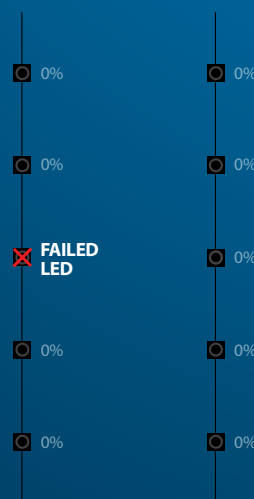
Certain high lumen output Thorlux luminaires use high power LEDs, for example the Starbeam floodlight.

In this type of luminaire LEDs are connected in a series string and failure of an LED or its solder joint can cause an open circuit and all LEDs in the string to extinguish. Thorlux adds PLED protectors to the majority of these luminaire types (see LED Characteristics data on each product page).

PLED protectors provide an electronic alternative path for the current to flow in the case of LED or solder joint failure ensuring all remaining LEDs stay illuminated at the correct power. This is an invaluable feature guaranteeing that a luminaire continues to provide light, even in the case of nuisance LED failures, and reduces the maintenance costs of a project.



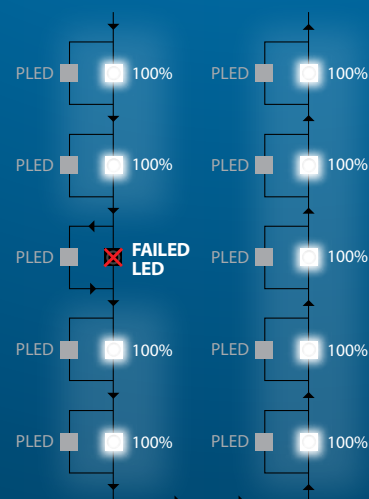
CONVENTIONAL CIRCUIT



0%
OUTPUT



CIRCUIT



90%
OUTPUT

LUX GUARD

LUX GUARD by Thorlux, is a patented current sharing PCB and circuit design philosophy. If an LED fails then its current is shared via neighbouring circuits, with each LED's brightness increasing slightly to compensate. LUX GUARD ensures that a luminaire continues to provide its designed lumen performance, even in the case of nuisance LED failures, and reduces the maintenance costs of a project.

★ PATENTED ★

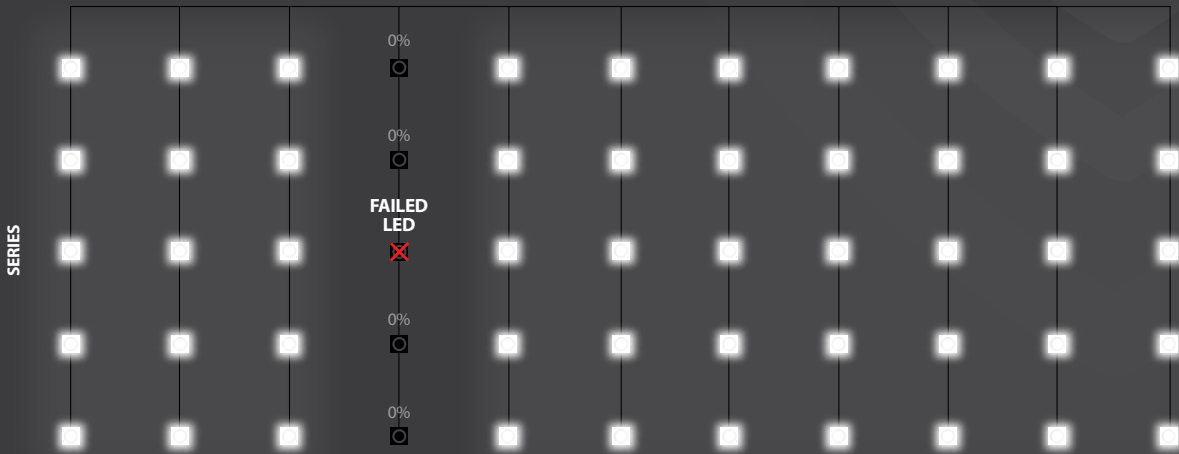


91%
OUTPUT

CONVENTIONAL CIRCUIT

5 IN SERIES 11 IN PARALLEL

PARALLEL

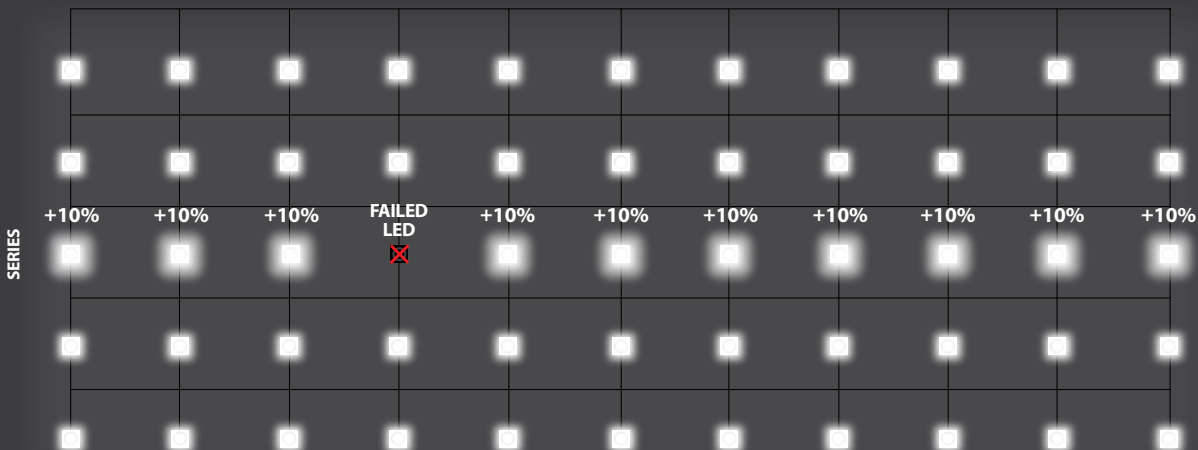


CIRCUIT

5 IN SERIES 11 IN PARALLEL

PARALLEL

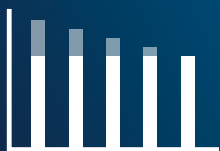
100%
OUTPUT





SMART ENERGY SAVING CONTROLS

The Thorlux Smart System exploits the latest 'Digital Technology' to provide a simple, effective method of lighting control which minimises energy consumption whilst retaining high levels of user comfort.



MAINTAINED ILLUMINANCE

Smart luminaires maintain the desired lighting level throughout the maintenance cycle by automatically increasing LED output as the light source ages, avoiding over lighting new installations.



DAYLIGHT DIMMING

When daylight enters an area the sensors will take this light into account and gradually dim the LEDs, saving energy whilst maintaining the required light level.



MOVEMENT DETECTION

Presence sensors in all luminaires ensure excellent detection coverage, so that Smart luminaires switch on when movement is detected and stay on whilst the space is being used.

A discrete sensor integral to the luminaire monitors ambient light and presence, controlling output to the correct level, and ensuring that the area is only illuminated when occupied.

Individual Thorlux Smart luminaires may be linked using a 'Motionline' two wire low voltage bus allowing luminaires to communicate within a group. Upgrading to SmartScan provides the option of full wireless Motionline control between Smart luminaires eliminating the need for additional cabling.

Savings by the installation of automatic lighting control systems often exceed 70%.

FULL STATUS MONITORING OF YOUR LUMINAIRES FROM THE GROUND

The functional status and energy performance of SmartScan luminaires can be monitored from anywhere via the SmartScan website (SmartScan Gateway required), or from the ground using the SmartScan Programmer.

The website provides an easy to read visual reference highlighting the following:

- Control gear status monitoring
- Light source functionality
- Thermal performance (the luminaire is operating within correct temperature limits)
- Average energy used by the luminaire
- Total hours powered
- Full energy performance monitoring

www.thorlux.com/smartscan

EMERGENCY

Platform 1

SmartScan emergency luminaires are stand-alone. Each luminaire will self-test to the schedule specified in BS EN 50172:2004. The operational status of each luminaire is displayed by the status LED and operational status information can be retrieved using the SmartScan Programmer. Manual tests can also be initiated at each luminaire using the SmartScan Programmer. The user, legally, will need to inspect each luminaire at prescribed intervals to monitor test status and manually log the results

Platform 2

The emergency luminaires wirelessly communicate with each other and the Gateway through the mesh network. The Gateway transmits emergency lighting status reports to the SmartScan web server and the user can then employ their chosen device to access the status reports.

REDUCED INSTALLATION COSTS

The SmartScan Gateway and compatible Smart, Smart External and emergency luminaires simply require a mains connection. All communication cables are replaced by the mesh network so there is no need for data cables, additional power supplies, control modules.

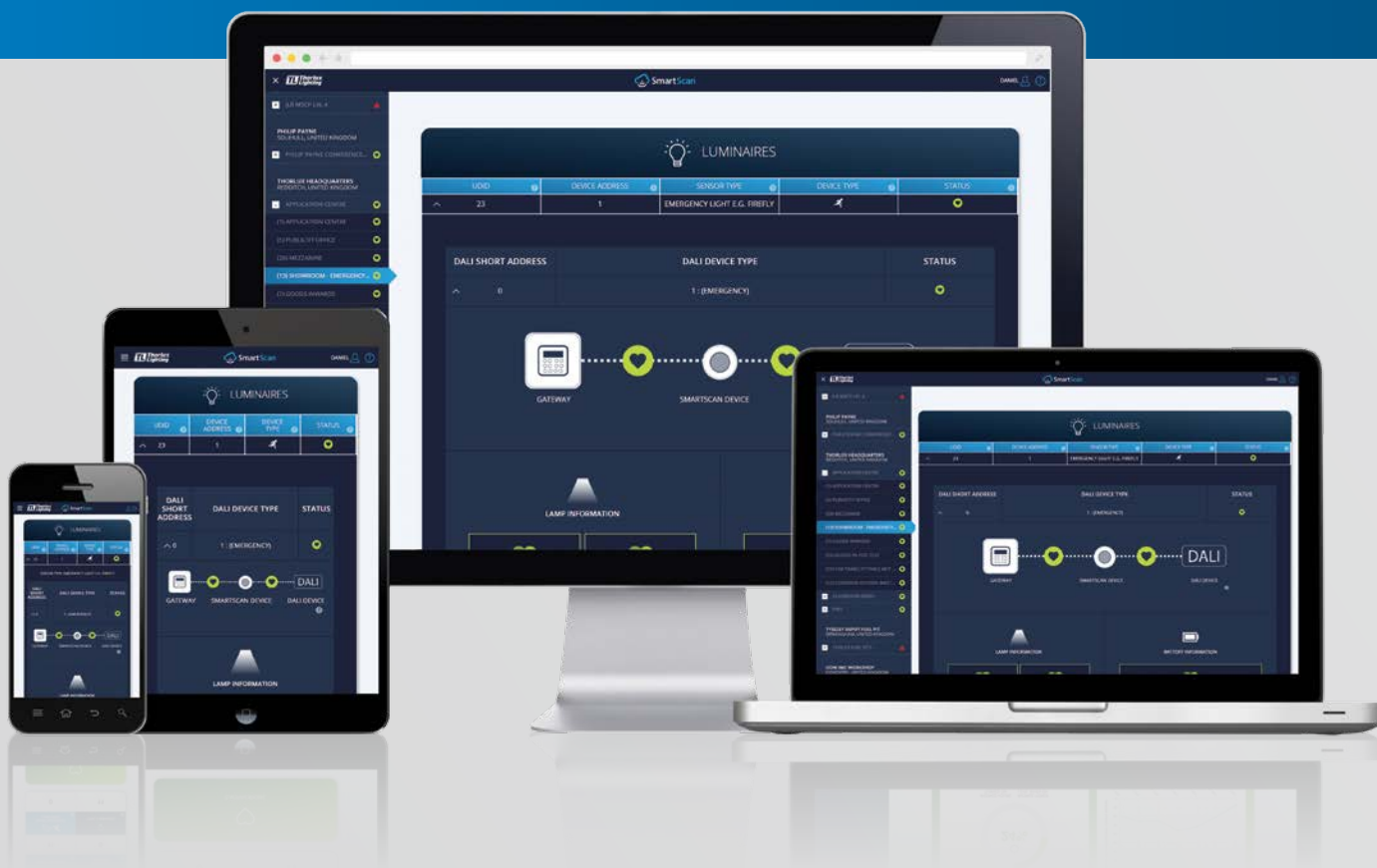
SIMPLE AND FAST COMMISSIONING

Using a single robust hand held infra-red programmer all luminaire types can be very quickly and easily commissioned, and all operational settings can be fine tuned in the future if desired.



AUTOMATED EMERGENCY TEST RECORDS

SmartScan emergency saves the significant costs associated with the monthly and annual testing of emergency luminaires, and stores accurate records on secure off site servers which can be accessed when required. This, therefore, avoids possible prosecution and conviction which may occur if manual testing and records are not maintained correctly.



CARBON OFFSETTING



Thorlux operates a carbon offsetting scheme which involves planting trees on 215 acres of Monmouthshire, Wales. This accredited scheme carbon offsets all manufacturing and distribution processes undertaken by the group companies. Thorlux has to date planted 149,849 trees (*Spring 2018*).



MADE IN THE UK

Thorlux Lighting, the largest company in the FW Thorpe Plc group, is proud that around **97%** of its products are manufactured in the UK.

The FW Thorpe Plc group employs over 700 people.



COMMISSIONING

Most Thorlux products can be used straight from the box with their default settings. However, to operate most effectively products need to be configured to the conditions on site. Thorlux has a team of skilled commissioning engineers who can visit your site and configure your lighting installation upon request.

Commissioning:

- Identifies the end-user's requirements
- Fine tunes the luminaire settings
- Minimises energy consumption
- Increases savings for the end user



EMERGENCY LIGHTING

BS 5266-1:2016 Emergency lighting. Code of practice for the emergency lighting of premises is the detailed guidance on the application and practice of emergency lighting. The standard's recommendations have been drawn up to encourage uniformity of application, based on providing adequate safety to people in the event that normal lighting is interrupted.

The persons responsible for control of the buildings have a legal obligation to ensure compliance. Legislation covers all aspects of emergency lighting provision, including:

- **Design**
- **Installation**
- **Regular Testing:** All emergency luminaires must be given a short test monthly and a full duration test once a year. Comprehensive test records must be maintained.
- **Maintenance:** Failures must be replaced quickly. Maintenance records must also be maintained.

Under the Regulatory Reform (Fire Safety) Order failure to provide a compliant system and failure to regularly test and maintain it can result in prosecution for the employer or building owner who may face fines and imprisonment if convicted.



Thorlux Warranty

A genuine warranty with genuine value

The Thorlux range of luminaires is designed, manufactured and distributed by Thorlux Lighting, a division of the FW Thorpe Plc group. FW Thorpe is listed on the London Stock Exchange. See the corporate website at www.fwthorpe.co.uk

Thorlux luminaires have been manufactured continuously in the UK since 1936, the year Frederick William Thorpe founded the company.

In 2016-17, the revenue of FW Thorpe Plc was £105m, of which £69m was generated by Thorlux Lighting luminaires and control systems.

The Thorlux product warranty offered to customers covers a period of 5 years, with no get-out clauses concerning the number of burning hours or maintenance requirements, and no convoluted registration process.



This warranty is enhanced by the following key factors:

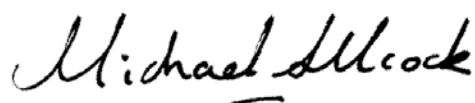
- FW Thorpe has a robust balance sheet, with net assets in excess of £100m (2017)
- More than £40m in cash reserves provide the ability for Thorlux to support any future warranty liabilities
- FW Thorpe has a stable ownership structure, with over 60% of the business owned by founding family members and management
- Investment in product research and development is continual - £1.7m invested per annum
- Thorlux product failure rates are consistently below 0.1%, with over 2,000 luminaires individually tested and shipped every day
- Critical components are supplied by market-leading global suppliers
- A dedicated team of our own employed local service engineers respond to any customer issues quickly and effectively, not only in the UK but overseas too
- Products are manufactured in the UK therefore spares are readily available

As Thorlux is a listed company, stringent conditions require it to be fully audited by a third party. In recent years this has been PricewaterhouseCoopers LLP (PwC), one of the top four audit and advisory firms globally. Auditors of listed companies follow rigorous international guidelines, ensuring that the financial details such companies publish (such as those on page 14) are accurate and can be relied upon.

Thorlux must prove that it will be able to pay any claims made according to its warranty conditions during the warranty period. Provision is made in each year's accounts, effectively putting aside profit from current orders for use in the future if required.

This is a key aspect of being a listed company that other smaller businesses are not required, and maybe not capable of doing. Thorlux customers should be reassured that a Thorlux warranty means something: at Thorlux, we are capable of meeting our obligations.

Some other companies offer long warranties but do not have the financial assets to withstand a sizeable warranty claim. Thorlux encourages customers to consider this scenario when purchasing other companies' products with extended warranty offers.



Michael Allcock
Managing Director



A genuine warranty with genuine value

Please refer to www.thorlux.co.uk/terms for full details of our terms and conditions of sale.

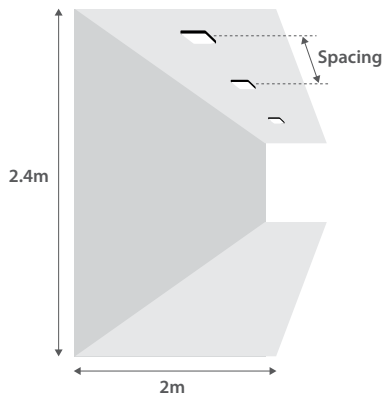
PRISMALETTE PRO

PERFORMANCE GUIDE

Photometric Performance -
16W LED ceiling mounted version

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
2.4m mounting height -		
3m ctrs	94 lux	0.73
4m ctrs	79 lux	0.70
5m ctrs	67 lux	0.71
6m ctrs	57 lux	0.74
9m ctrs	39 lux	0.68
10m ctrs	36 lux	0.57
12m ctrs	30 lux	0.40
15m ctrs	24 lux	0.25

FIGURES ARE BASED ON INITIAL LUMENS



e.g. At 2.4m mounting height and 9m centres: 39 lux average horizontal illuminance at ground level

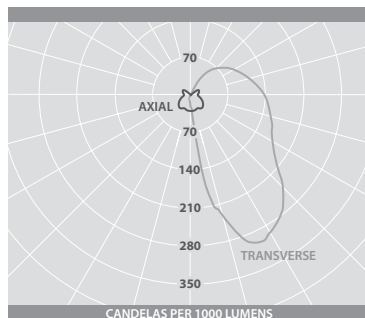
ACCESSORIES

DESCRIPTION	CAT. No.
Bezel for semi-recessed mounting (black finish)	PS 11876B
Bezel for semi-recessed mounting (white finish)	PS 11876W
Adaptor for cornice mounting (black finish)	PS 18886B
Adaptor for cornice mounting (white finish)	PS 18886W
Key for tamper-resistant screws	KEY 7979

Cornice mounting

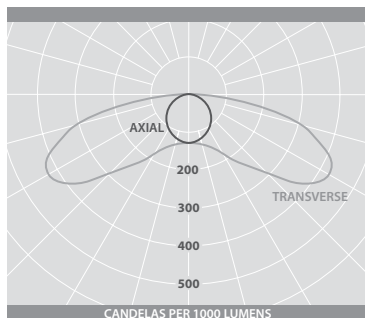


PHOTOMETRIC GUIDE



WALL MOUNTED VERSION

Luminaire Lumen Output:
12W = 1370lm



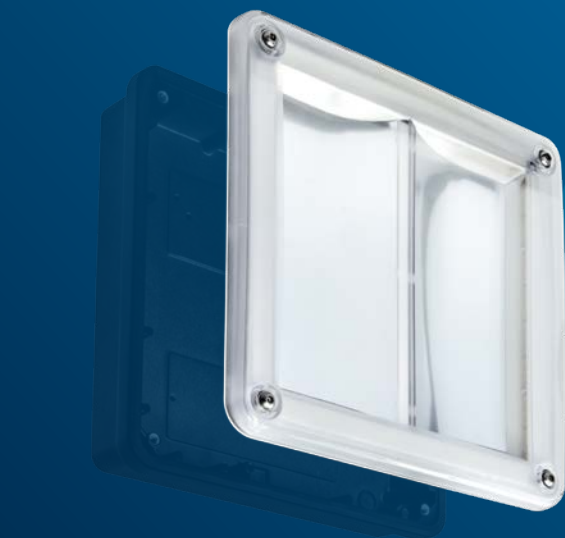
CEILING MOUNTED VERSION

Luminaire Lumen Output:
16W = 1815lm

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲◆	PC	PS 17312LPC
Microwave presence detector	MD	PS 17313MD

- ▲ Wall mounted version only
- ◆ Not suitable for semi-recessed or cornice mounting



Pre-assembled retro-fit module
complete with polycarbonate cover

Easy upgrade module 2D to LED in 80 seconds!



2D to LED retro-fit video
www.thorlux.com/videos/prismalette-pro-retro-fit

RANGE

	LED	CAT. No.	APPROX. kg
WALL VERSION	12W	PS 17318L	1.2
CEILING VERSION	16W	PS 17319L	1.2

CIRCUIT TYPE - L - non-dimming

EMERGENCY VERSION - prefix catalogue number with:
EPS - Emergency / TPS - AutoTest / WPS - SmartScan
e.g. **EPS 17318L** etc.
Add 0.3kg to weights listed

PRISMALETTE PRO



LED VANDAL-RESISTANT LUMINAIRES



SPECIFICATION

- Strong high pressure die-cast LM2 aluminium body. Textured black, full polyester powder finish as standard
- Long life silicone sponge gasket ensuring IP66 rating
- SmartScan emergency version with wireless test status reporting
- White finish option
- 3mm fire-retardant polycarbonate cover
- Tamper-resistant cover screws as standard
- Two distribution versions optimised for wall or ceiling mounting
- Microwave presence detector option with stand-by light level feature
- Bezel trim for semi-recessed mounting
- Fitted with 4000K LEDs

SmartScan Configurations



Find out more at www.thorlux.com/smartscan

RANGE

	LED	CAT. No.	APPROX. kg
WALL VERSION	12W	PS 17312L	2.7
CEILING VERSION	16W	PS 17313L	2.7

WHITE OPTION - add suffix **W** - White e.g. **PS 17312LW** etc.

CIRCUIT TYPE - **L** - non-dimming

EMERGENCY VERSION - prefix catalogue number with:
EPS - Emergency / **TPS** - AutoTest / **WPS** - SmartScan
e.g. **WPS 17312L** etc.

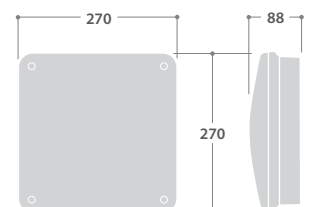
Add 0.3kg to weights listed

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	88K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>80%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	95.5

For LED characteristics explanation see page 6

DIMENSIONS



Fixing points: 4 x Spot faces on 205mm centres (drill as required) and 1 central BESA box fixing

Wall mounted version

Security beam

The Prismalette PRO produces a security beam providing an illumination boost that is closer to the doorway than from a conventional luminaire. This improves facial recognition of doorstep callers, increasing the feeling of security for residents.

Higher illuminance provides safer entry and exit to the property.



Illumination boost
at doorway



Increased vertical
illumination



Easier identification
of doorstep callers



Limited forward throw

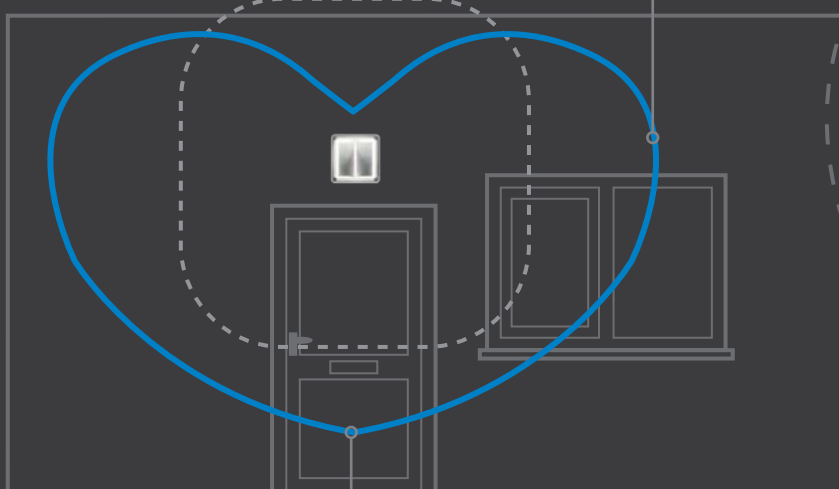
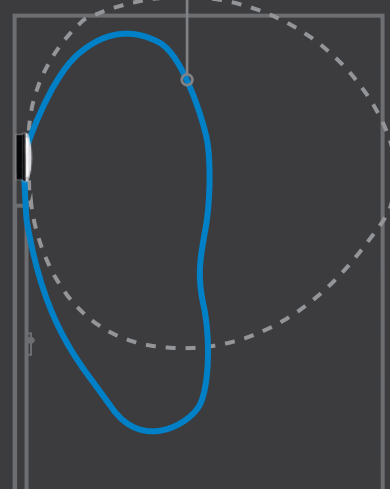
Reducing wasted and obtrusive light.

High angle wide distribution

Providing excellent vertical illumination
for improved facial recognition.

End view

Side view



— Prismalette PRO - - - Conventional alternative

Security beam

Providing a punch of light directly below and in front of the luminaire. This is particularly useful when mounting near doorways.

Ceiling mounted version

Excellent vertical illumination

When ceiling mounted the light distribution of the Prismalette PRO provides excellent vertical illumination along corridors and walkways whilst also increasing the spacing of luminaires and improving uniformity. The high cut-off angle ensures more light is projected at head height so that residents can easily see and recognise the faces of others.



Uniform corridor illumination



Wide spacings



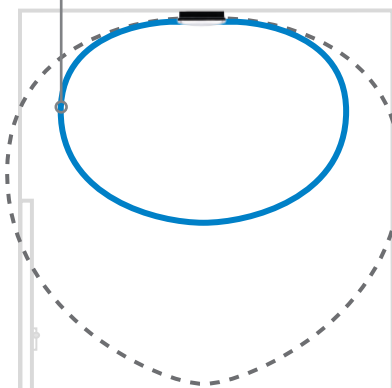
Increased vertical illumination



Narrow distribution

Perfect for lighting corridors and walkways where wider uncontrolled distributions can cause obtrusive light.

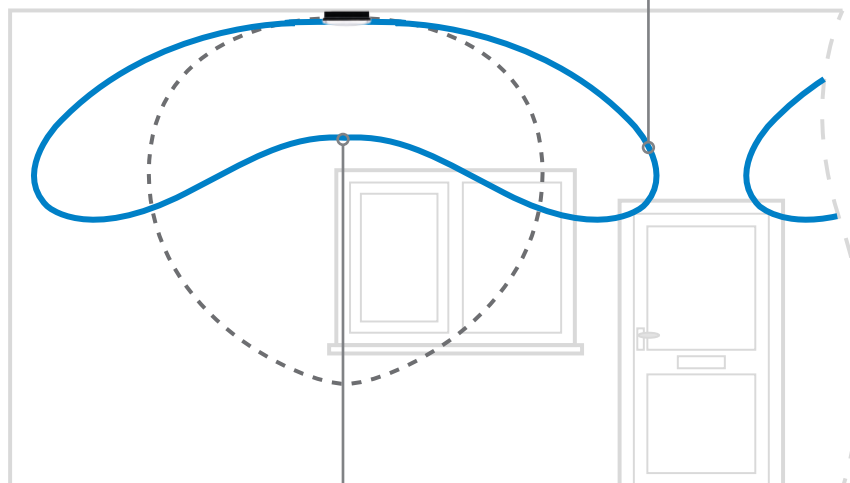
End view



Wide lateral distribution

Projects light along corridors and walkways, providing improved uniformity and allowing luminaires to be mounted further apart.

Side view



— Prismalette PRO - - - Conventional alternative

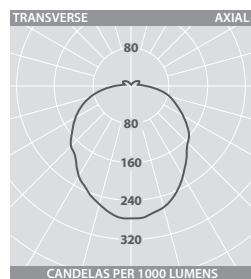
Reduced forward throw

Reduces bright spots directly below the luminaires.

PRISMALETTE

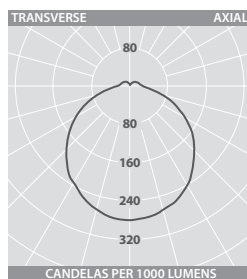


PHOTOMETRIC GUIDE



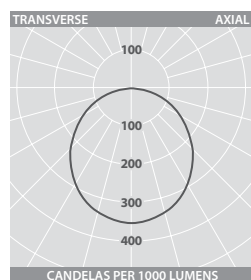
CLEAR COVER

Luminaire Lumen Output:
11W = 1665lm
16W = 2280lm



SATIN COVER

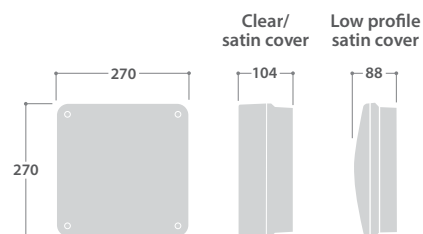
Luminaire Lumen Output:
11W = 1540lm
16W = 2145lm



LOW PROFILE SATIN COVER

Luminaire Lumen Output:
11W = 1605lm
16W = 2170lm

DIMENSIONS



Fixing points: 4 x Spot faces on
205mm centres (drill as required)
and 1 central BESA box fixing

ACCESSORIES

DESCRIPTION	CAT. No.
Bezel for semi-recessed mounting (<i>black finish</i>)	PS 11876B
Bezel for semi-recessed mounting (<i>white finish</i>)	PS 11876W
Key for tamper-resistant screws	KEY 7979
Adaptor for cornice mounting (<i>black finish</i>)	PS 18886B
Adaptor for cornice mounting (<i>white finish</i>)	PS 18886W



Bezel for semi-recessed
mounting - black



Cornice mounting



Clear cover



Satin cover



Low profile satin cover



Clear cover version



Low profile satin cover version

VANDAL-RESISTANT LUMINAIRES



SPECIFICATION

- Strong pressure die-cast LM2 aluminium body. Textured black, full polyester powder finish as standard
- White finish option
- Hinged clear prismatic or satin, fire-retardant polycarbonate cover
- Low profile satin polycarbonate cover version
- Tamper-resistant cover screws as standard
- Optional photocell control
- Bezel trim for semi-recessed mounting
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- Microwave presence detector option with stand-by light level feature
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	63K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	85%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 120.0

For LED characteristics explanation see page 6

RANGE

	LAMP	CAT. No.	APPROX. kg
CLEAR COVER	11W LED	PS 17608L	2.8
	16W LED	PS 14913L	2.8
SATIN COVER	11W LED	PS 17609L	2.8
	16W LED	PS 14914L	2.8
LOW PROFILE SATIN COVER	11W LED	PS 18420L	2.7
	16W LED	PS 18421L	2.7
RETRO-FIT GEAR TRAY	11W LED	PS 14917L	0.8

WHITE OPTION - add suffix **W** - White e.g. **PS 17608LW** etc.

CIRCUIT TYPE - **L** - non-dimming (LED)

EMERGENCY VERSION - prefix catalogue number with:
EPS - Emergency / **TPS** - AutoTest e.g. **EPS 17608L** etc.
 Emergency and AutoTest versions add 0.3kg

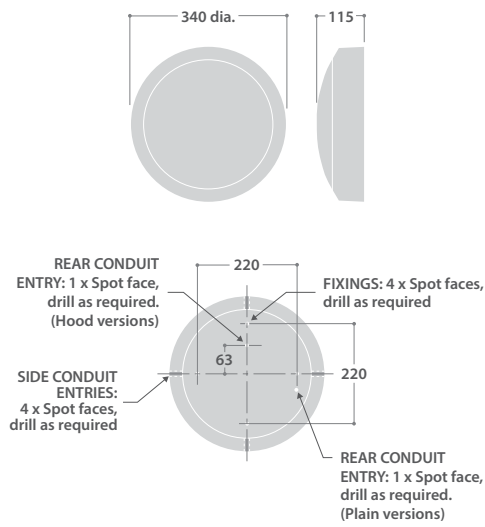
OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▲	PC	PS 14913PC
Microwave presence detector	MD	PS 14913MD

▲ Not suitable for semi-recessed or cornice mounting



DIMENSIONS



OPTIONS

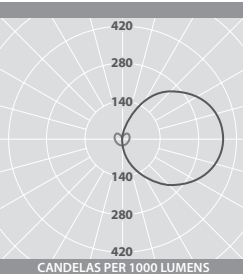
DESCRIPTION	SUFFIX	EXAMPLE
Photocell ▼	PC	CT 19015LPC
Microwave presence detector ✦	MD	CT 17541MD

▼ Hood / hood & grill versions only
✦ Plain LED version only

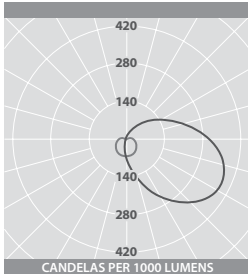
ACCESSORIES

DESCRIPTION	CAT. No.
Tamper-resistant screw kit including key	CT 11699

PHOTOMETRIC GUIDE



15/23W LED - PLAIN VERSION
Luminaire Lumen Output:
15W = 1335lm
23W = 1930lm



15W LED - HOOD VERSION
Luminaire Lumen Output:
15W = 1020lm



Plain



Hood



Plain & Grill



Hood & Grill

IP66 CIRCULAR LED LUMINAIRES



SPECIFICATION

- Strong die-cast LM2 aluminium body and cover frame. Graphite, full polyester powder finish as standard
- Silver or white finish options
- High efficiency satin polycarbonate diffuser
- Choice of cover styles
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- Photocell option
- Microwave presence detector option with stand-by light level feature (plain version only)
- Fitted with 4000K or 5700K LEDs

15W/23W LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K/5700K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	LED PROTECT
DRIVER EFFICIENCY	>90%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 77.2

For LED characteristics explanation see page 6

RANGE

LED	PLAIN VERSION	HOOD VERSION	APPROX. kg	PLAIN & GRILL VERSION	HOOD & GRILL VERSION	APPROX. kg
15W - 4000K	CT 17541L		3.0	CT 17542L		3.2
15W - 4000K		CT 19015L ♦	3.0		CT 19016L ♦	3.2
23W - 4000K	CT 17545L		3.0	CT 17546L		3.2
15W - 5700K	CT 14538L		3.0	CT 14540L		3.2
23W - 5700K	CT 14542L		3.0	CT 14544L		3.2

♦ Photocell version possible see page 22

CIRCUIT TYPE - L - non-dimming (LED)

COLOUR OPTIONS - add suffix: SV3 - Silver / W9 - White e.g. CT 17541LSV3 etc.

EMERGENCY VERSION - prefix catalogue number with:

ECT - Emergency / TCT - AutoTest e.g. ECT 17541L etc.

Add 0.3kg to weights listed

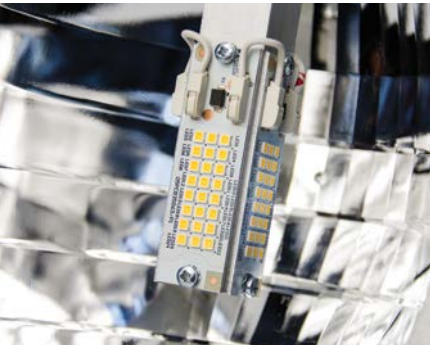
15W HOOD LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	77K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>90%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 56.7



LEDbar



The patented LEDbar substitutes the conventional Realta lamp source with an 8W LED lamp package. The aluminium bar dissipates the heat generated by the LEDs for optimum performance.

WIDE DISTRIBUTION
LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	67K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>80%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	120.0

For LED characteristics explanation see page 6

AREA DISTRIBUTION
LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K/5700K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	LED PROTECT
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	127.6



Smart External version



Area distribution

Wide distribution

Realta Design Registration Number 3024955

HIGH PERFORMANCE LUMINAIRES
DESIGNED TO MINIMISE LIGHT
POLLUTION AND ENERGY
CONSUMPTION

IP66 IK10++ / IK10 / IK06 CE LED

SPECIFICATION

- Graphite full polyester powder finish. Silver option
- Strong die-cast LM2 aluminium body
- High efficiency prismatic polycarbonate or borosilicate glass front refractor
- Wide distribution (8W) or area distribution (20W, 34W and 42W) options
- Highly specular, multi-faceted injection moulded vacuum metallised reflector on wide distribution versions
- Excellent distribution with less than 2% upward light component
- Optional photocell control
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Fitted with 4000K or 5700K LEDs

SmartScan Configurations



Find out more at www.thorlux.com/smartscan

RANGE

	LED	WIDE DISTRIBUTION	AREA DISTRIBUTION	APPROX. kg
SMART EXTERNAL	IK10 Polycarbonate Cover			
	8W - 4000K	RL 19069SS		3.9
	20W - 4000K		RL 19110SS	4.0
	34W - 4000K		RL 19111SS	4.0
	42W - 4000K		RL 19112SS	4.0
	8W - 5700K	RL 19070SS		3.9
	20W - 5700K		RL 19113SS	4.0
	34W - 5700K		RL 19114SS	4.0
STANDARD	42W - 5700K		RL 19115SS	4.0
	IK10++ Polycarbonate Cover			
	8W - 4000K	RL 19071L		3.8
	20W - 4000K		RL 19116L	3.9
	34W - 4000K		RL 19117L	3.9
	42W - 4000K		RL 19118L	3.9
	8W - 5700K	RL 19072L		3.8
	20W - 5700K		RL 19119L	3.9
	34W - 5700K		RL 19120L	3.9
	42W - 5700K		RL 19121L	3.9
	IK06 Glass Cover			
	8W - 4000K	RL 19073L		4.6
	8W - 5700K	RL 19074L		4.6

CIRCUIT TYPE -

SMART EXTERNAL SS - SmartScan
STANDARD L - non-dimming (LED)

SILVER OPTION - add suffix **SV3** e.g. **RL 19069SSSV3** etc.

EMERGENCY VERSION - prefix catalogue number with:

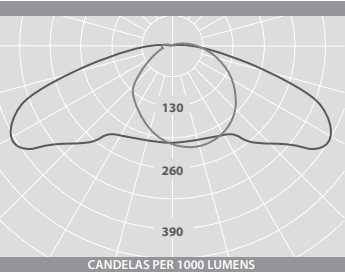
ERL - Emergency / **TRL** - AutoTest (Not available when selecting the 'SS' suffix)

WRL - SmartScan

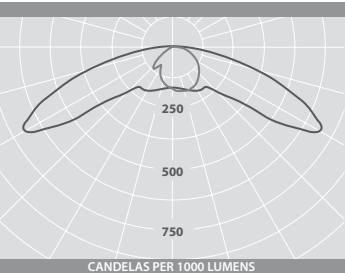
e.g. **WRL 19069SS** etc.

Add 0.4kg to weights listed

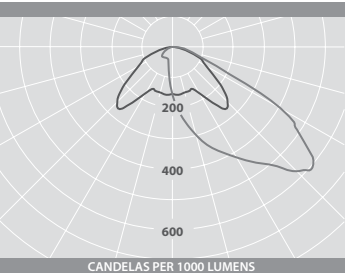
PHOTOMETRIC GUIDE



**GLASS COVER
(Wide Distribution)**
Luminaire Lumen Output:
8W = 1175lm



**POLYCARBONATE COVER
(Wide Distribution)**
Luminaire Lumen Output:
8W = 1320lm



**POLYCARBONATE COVER
(Area Distribution)**
Luminaire Lumen Output:
20W = 2840lm
34W = 4850lm
42W = 5635lm



Single luminaire pole mounting attachment



Twin luminaire pole mounting attachment

ACCESSORIES

DESCRIPTION	CAT. No.	APPROX. kg
Single luminaire pole mounting attachment (for 60mm dia. poles)	RL 13759	1.6
Twin luminaire pole mounting attachment (for 60mm dia. poles)	RL 14175	2.6
76/60mm dia. spigot adaptor (for retro-fit on 76mm dia. columns)	RL 11184	0.8

OPTIONS

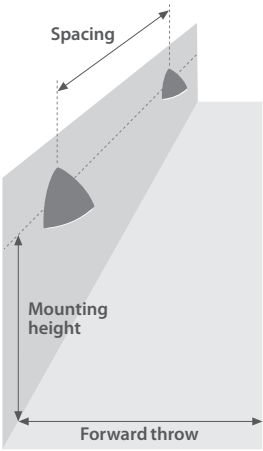
DESCRIPTION	SUFFIX	EXAMPLE
Photocell (standard versions only)	PC	RL 19071LPC
Tamper resistant screws ♦	T	RL 19071LT

♦ To fasten tamper resistant screws order special screwdriver **KEY 10008**

PERFORMANCE GUIDE - Wide Distribution

Photometric Performance -
8W LED with polycarbonate cover

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
3m mounting height - 3m forward throw		
10m ctrs	22 lux	0.48
15m ctrs	15 lux	0.47
20m ctrs	11 lux	0.22
4m mounting height - 4m forward throw		
10m ctrs	17 lux	0.48
15m ctrs	11 lux	0.45
20m ctrs	8 lux	0.47
5m mounting height - 5m forward throw		
10m ctrs	13 lux	0.42
15m ctrs	9 lux	0.48
20m ctrs	7 lux	0.45

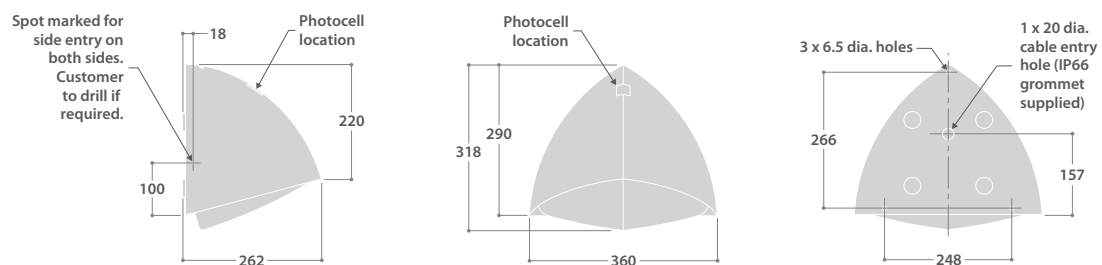


e.g. At 3m mounting height and 10m centres: 22 lux average horizontal illuminance at ground level

FIGURES ARE BASED ON INITIAL LUMENS



DIMENSIONS



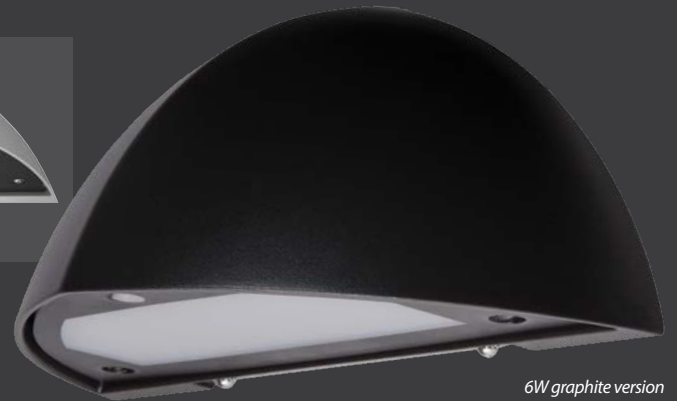


LOW LIGHT LEVEL, WALL MOUNTED LUMINAIRES



SPECIFICATION

- Strong die-cast LM2 aluminium body
- Graphite full polyester powder finish. Silver option
- SmartScan emergency version with wireless test status reporting
- One piece injection moulded UV stabilised polycarbonate cover
- Fitted with 4000K LEDs

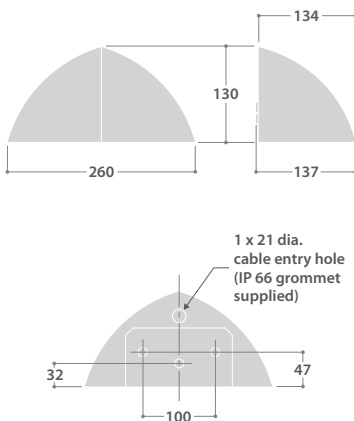


LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	63K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	80%
REPLACEABLE	YES
POWER FACTOR	>0.5
LL/CW	60.6

For LED characteristics explanation see page 6

DIMENSIONS



RANGE

Mains Versions			APPROX. kg
	LED	CAT. No.	
MAINS	3W	RL 13543L	1.3
	6W	RL 16607L	1.5

Emergency Versions				APPROX. kg
	LED	MAINTAINED	NON MAINTAINED	
AUTOTEST	3W ▲	TRL 13543L		1.3
	6W ▲	TRL 16607L		1.5
SMARTSCAN	3W		WRL 13543	1.3
	6W ▲	WRL 16607L		1.5

CIRCUIT TYPE - L - non-dimming (LED)

SILVER OPTION - add suffix **SV3** e.g. **RL 13543LSV3** etc.

▲ Can be wired during installation for maintained or non-maintained operation

ACCESSORY

DESCRIPTION	CAT. No.	APPROX. kg
Wall mounting kit for 20mm conduit	RL 15419	0.4

SILVER OPTION - add suffix **SV3** e.g. **RL 15419SV3** etc.



SmartScan Configurations



Find out more at www.thorlux.com/smartsan

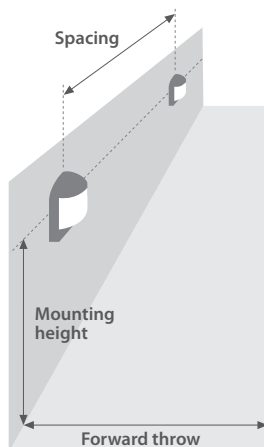


PERFORMANCE GUIDE

Photometric Performance - 26W LED

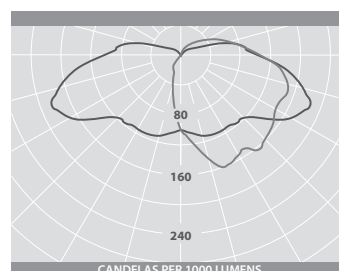
SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
3m mounting height - 5m forward throw		
12m ctrs	22 lux	0.46
15m ctrs	15 lux	0.28
18m ctrs	15 lux	0.19
4m mounting height - 6m forward throw		
12m ctrs	20 lux	0.35
16m ctrs	13 lux	0.50
20m ctrs	10 lux	0.37
24m ctrs	9 lux	0.27
5m mounting height - 7m forward throw		
15m ctrs	11 lux	0.51
20m ctrs	8 lux	0.51
25m ctrs	7 lux	0.36
30m ctrs	6 lux	0.26

FIGURES ARE BASED ON INITIAL LUMENS



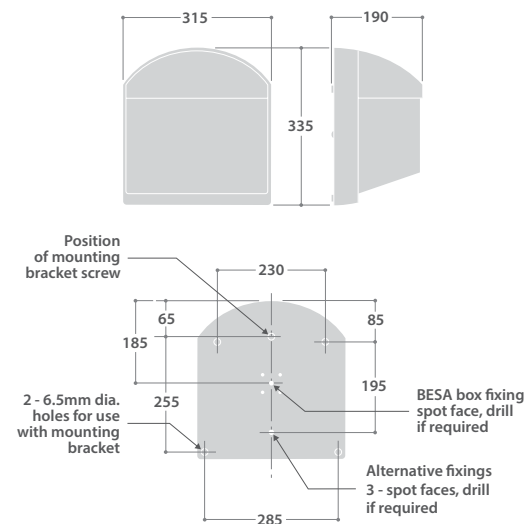
e.g. At 3m mounting height and 12m centres: 22 lux average horizontal illuminance at ground level over an area of 12m (centres) x 5m (forward throw)

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
26W = 3330lm

DIMENSIONS





Smart External version

HIGH PERFORMANCE WALL MOUNTED LUMINAIRES



SPECIFICATION

- Strong pressure die-cast LM2 aluminium body prevents distortion when fixing and preserves IP rating. Textured black full polyester powder finish
- Impact-resistant, flame-retardant prismatic polycarbonate cover
- Spacings up to six times mounting height
- Optional photocell control
- Tamper-resistant cover screws available
- Simple to fix using external stainless-steel brackets and two lower points, all external to gasket line to preserve IP rating
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Fitted with 4000K or 5700K LEDs

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K/5700K
RATED LIFE (HOURS)	100K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.9
LL/CW	111.0

For LED characteristics explanation see page 6



RANGE

	LED	CAT. No.	APPROX. kg
SMART EXTERNAL	26W - 4000K	MER 19102SS	4.4
	26W - 5700K	MER 19103SS	4.4
MAINS	26W - 4000K	MER 19104L	4.3
	26W - 5700K	MER 19105L	4.3

CIRCUIT TYPE -

SMART EXTERNAL	SS - SmartScan
STANDARD	L - non-dimming (LED)

EMERGENCY VERSION - prefix catalogue number with:

EMR - Emergency
TMR - AutoTest } (Not available when selecting the 'SS' suffix)

WMR - SmartScan (Only available when selecting the 'SS' suffix)
e.g. **WMR 19102SS** etc.

Add 0.3kg to weights listed

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	MER 19104LPC
Tamper resistant screws ♦	T	MER 19104LT

- ♦ To fasten tamper resistant screws order special screwdriver **KEY 10008**

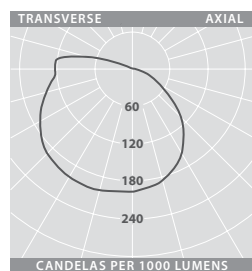
SmartScan Configurations


Find out more at www.thorlux.com/smartscan

A-LINE LED PCB BOARD



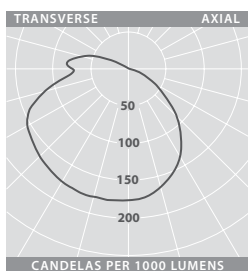
PHOTOMETRIC GUIDE



1 x 35W T5

D.L.O.R. 80% / U.L.O.R. 12%

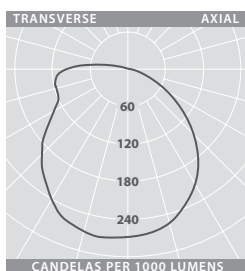
Factor:
1 x 49W = 1.18



2 x 35W T5

D.L.O.R. 70% / U.L.O.R. 11%

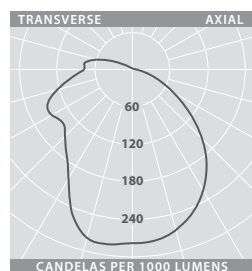
Factor:
2 x 49W = 0.95



1 x 35W T5 - XL VERSION

D.L.O.R. 86% / U.L.O.R. 7%

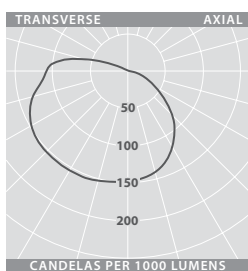
Factor:
1 x 49W = 1.09



2 x 35W T5 - XL VERSION

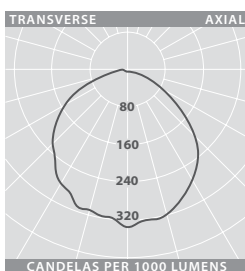
D.L.O.R. 81% / U.L.O.R. 9%

Factor:
2 x 49W = 0.96



COOKER HOOD VERSION 1 x 58W T8

D.L.O.R. 65% / U.L.O.R. 10%



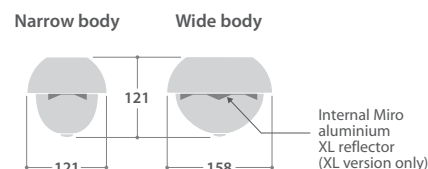
LED

Luminaire Lumen Output:
41W = 6355 lm
58W = 8540 lm

INSTALLATION KITS - One kit per luminaire installed

KIT	CAT. No.	DESCRIPTION	APPROX. kg
Hook suspension	IK 6388	Two stainless steel hooks (including nuts and sealing washers) for chain suspension	0.05
IP66 gland kit	IK 6389	Weatherproof nylon gland (including nuts and sealing washers) for entry of flexible cables	0.02
Conduit entry	IK 6390	IP66 20mm conduit suspension sealing washer kit	0.01
Rod suspension	IK 6391	IP66 10mm diameter rod sealing washer kit	0.01

DIMENSIONS



LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	138.2

For LED characteristics explanation see page 6

EXTERNAL FIXING

An external backstrap option is available to special order



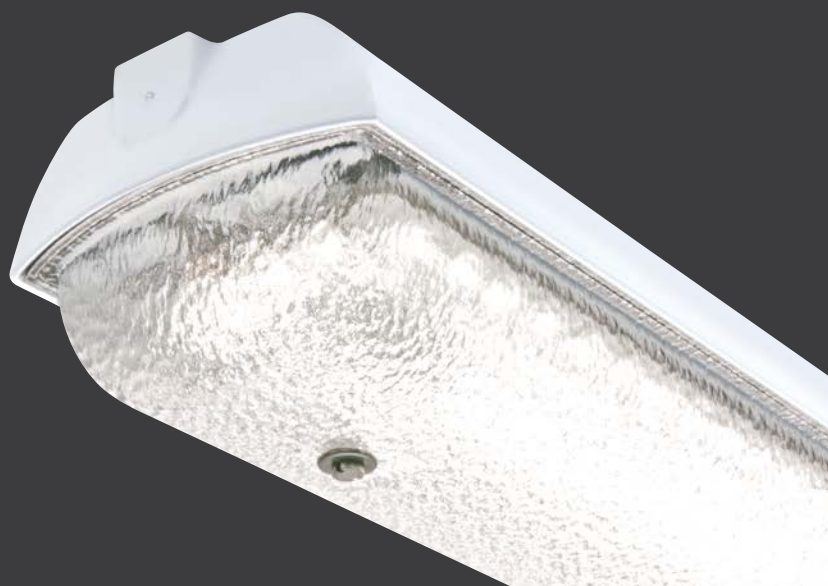
COOKER HOOD VERSION

For high ambient temperature applications up to 60°C, specify:
AL 10116X - 1500mm, 1 x 58W T8, switch start control gear with polycarbonate cover and slotted screw cover fixings. Length 1598mm and approx. 6.0kg. Narrow body.

A-LINE POLYCARBONATE COVER

XL version (cover removed)

Smart version



MULTI-PURPOSE, CORROSION-RESISTANT LUMINAIRES FOR T8, T5 LAMPS AND LEDs



SPECIFICATION

- Robust and durable extruded aluminium body with die-cast ends finished full polyester, non-yellowing white
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- Long life silicone sponge gasket ensuring IP66 rating
- High impact-resistant textured, fire-retardant polycarbonate cover
- Tamper-resistant cover screws
- Removable gear tray, hangs on safety straps for easy maintenance
- Version for high ambient temperatures to 60°C
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas
- XL version - Miro aluminium XL reflectors focus and direct the light efficiently and effectively
- Smart versions with intelligent lighting control for use up to 8 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- LED version fitted with 4000K LEDs

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT
SMART	LED Version					
	1500	41W LED ▲ ✖	AL 17699	1598	8.1	D/SS
		58W LED ▲ ✖	AL 16511		8.1	D/SS
	T5 Lamp XL Version					
	1500	1 x 35W T5 ▲	AL 14283D	1598	6.2	
		2 x 35W T5 ▲	AL 14083D		8.2	
1 x 49W T5 ▲		AL 14528D	6.2			
2 x 49W T5 ▲		AL 14085D	8.2			
STANDARD	LED Version					
	1500	41W LED ■ ✖	AL 16512L	1598	6.0	
		58W LED ▲ ✖	AL 16513L		8.0	
	T5 Lamp XL Version					
	1500	1 x 35W T5 ■	AL 13695	1598	6.1	J/T
		2 x 35W T5 ▲	AL 13696		8.1	J/T
		1 x 49W T5 ■	AL 14224		6.1	J/T
		2 x 49W T5 ▲	AL 14081		8.1	J/T
	T5 Lamp Version					
	1200	1 x 28W T5 ■	AL 13484	1298	4.8	J/T
		2 x 28W T5 ■	AL 13485		4.9	J/T
	1500	1 x 35W T5 ■	AL 11037	1598	6.0	J/T
		2 x 35W T5 ■	AL 11038		6.1	J/T
		1 x 49W T5 ■	AL 11039		6.0	J/T
		2 x 49W T5 ■	AL 11040		6.1	J/T

CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan
STANDARD L - non-dimming (LED) / J - non-dimming (HF fluorescent) / T - dimming (DSI) e.g. AL 17699SS etc.

EMERGENCY VERSION - prefix catalogue number with:

EAL - Emergency / TAL - AutoTest (Not available when selecting the 'SS' suffix)
 WAL - SmartScan (LED versions only)
 e.g. WAL 17699SS etc.

Add 0.7kg to weights listed for lamp versions or 0.3kg for LED versions.

■ Narrow body / ▲ Wide body / ✖ Suitable for ambient temperatures up to 50°C

NOTE:- Emergency versions not suitable for high ambient temperatures

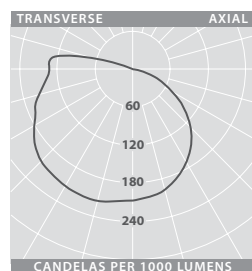
Lamps must be ordered separately

Presence Detection Guide - www.thorlux.com/files/presence-detection.pdf

A-LINE ACRYLIC COVER



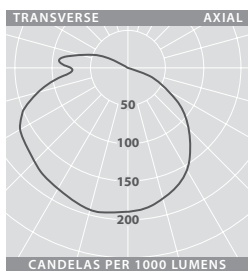
PHOTOMETRIC GUIDE



1 x 35W T5

D.L.O.R. 86% / U.L.O.R. 12%

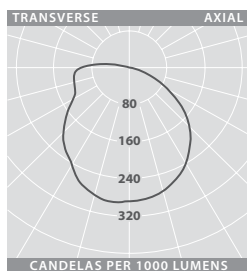
Factor:
1 x 49W = 1.07



2 x 35W T5

D.L.O.R. 72% / U.L.O.R. 11%

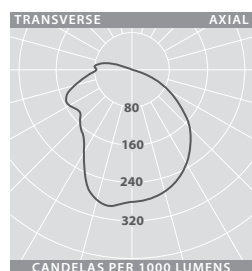
Factor:
2 x 49W = 1.02



1 x 35W T5 - XL VERSION

D.L.O.R. 90% / U.L.O.R. 7%

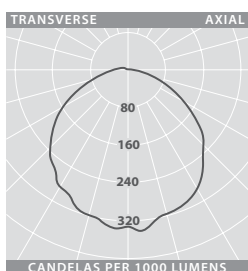
Factor:
1 x 49W = 1.10



2 x 35W T5 - XL VERSION

D.L.O.R. 85% / U.L.O.R. 9%

Factor:
2 x 49W = 0.96



LED

Luminaire Lumen Output:

41W = 6725 lm
58W = 9065 lm

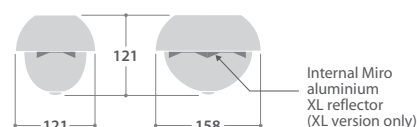
INSTALLATION KITS - One kit per luminaire installed

KIT	CAT. No.	DESCRIPTION	APPROX. kg
Hook suspension	IK 6388	Two stainless steel hooks (including nuts and sealing washers) for chain suspension	0.05
IP66 gland kit	IK 6389	Weatherproof nylon gland (including nuts and sealing washers) for entry of flexible cables	0.02
Conduit entry	IK 6390	IP66 20mm conduit suspension sealing washer kit	0.01
Rod suspension	IK 6391	IP66 10mm diameter rod sealing washer kit	0.01

DIMENSIONS

Narrow body

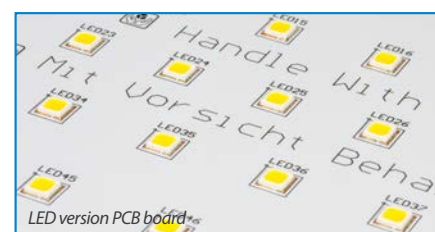
Wide body



LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	146.2

For LED characteristics explanation see page 6



EXTERNAL FIXING

An external backstrap option is available to special order



A-LINE ACRYLIC COVER



XL version (cover removed)



Smart version



MULTI-PURPOSE, CORROSION-RESISTANT LUMINAIRES FOR T5 LAMPS AND LEDs



SPECIFICATION

- Robust and durable extruded aluminium body with die-cast ends finished full polyester, non-yellowing white
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- Long life silicone sponge gasket ensuring IP66 rating
- Smooth acrylic cover has high resistance to corrosion
- Removable gear tray, hangs on safety straps for easy maintenance
- XL version - Miro aluminium XL reflectors focus and direct the light efficiently and effectively
- Smart versions with intelligent lighting control for use up to 8 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- LED version fitted with 4000K LEDs

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

RANGE

	NOMINAL SIZE (mm)	LAMP	CAT. No.	LENGTH (mm)	APPROX. kg	CIRCUIT
SMART	LED Version					
	1500	41W LED ▲ ✱	AL 17698	1598	8.1	D/SS
		58W LED ▲ ✱	AL 16515		8.1	D/SS
	T5 Lamp XL Version					
	1500	1 x 35W T5 ▲	AL 14284D	1598	6.2	
		2 x 35W T5 ▲	AL 14084D		8.2	
1 x 49W T5 ▲		AL 14527D	6.2			
2 x 49W T5 ▲		AL 14086D	8.2			
STANDARD	LED Version					
	1500	41W LED ■ ✱	AL 16516L	1598	6.0	
		58W LED ▲ ✱	AL 16517L		8.0	
	T5 Lamp XL Version					
	1500	1 x 35W T5 ■	AL 13693	1598	6.1	J/T
		2 x 35W T5 ▲	AL 13694		8.1	J/T
		1 x 49W T5 ■	AL 14225		6.1	J/T
		2 x 49W T5 ▲	AL 14082		8.1	J/T
	T5 Lamp Version					
	1200	1 x 28W T5 ■	AL 13482	1298	4.8	J/T
		2 x 28W T5 ■	AL 13483		4.9	J/T
	1500	1 x 35W T5 ■	AL 11033	1598	6.0	J/T
		2 x 35W T5 ■	AL 11034		6.1	J/T
		1 x 49W T5 ■	AL 11035		6.0	J/T
		2 x 49W T5 ■	AL 11036		6.1	J/T

CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan

STANDARD L - non-dimming (LED) / J - non-dimming (HF fluorescent) / T - dimming (DSI) e.g. AL 16515SS etc.

EMERGENCY VERSION - prefix catalogue number with:

EAL - Emergency / TAL - AutoTest (Not available when selecting the 'SS' suffix)

WAL - SmartScan (LED versions only)

e.g. WAL 16515SS etc.

Add 0.7kg to weights listed for lamp versions or 0.3kg for LED versions.

■ Narrow body / ▲ Wide body / ✱ Suitable for ambient temperatures up to 50°C

NOTE:- Emergency versions not suitable for high ambient temperatures

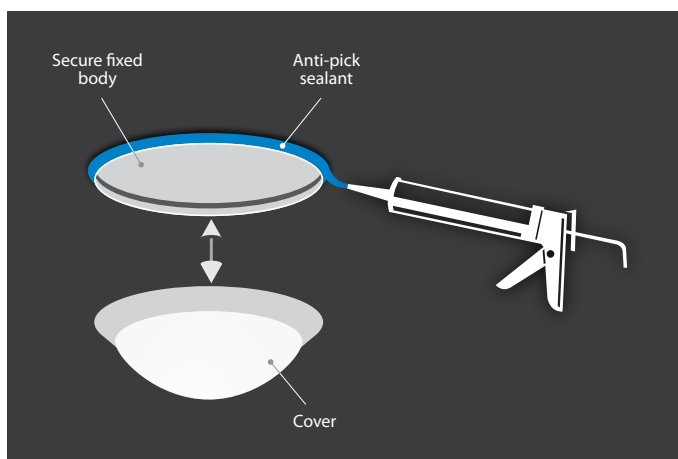
Lamps must be ordered separately

Presence Detection Guide - www.thorlux.com/files/presence-detection.pdf

ARCADIAN



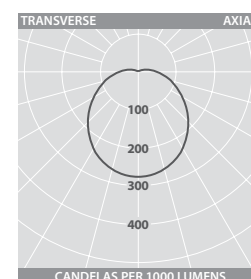
EASY COVER REMOVAL



MOUNTING OPTIONS



PHOTOMETRIC GUIDE



Luminaire Lumen Output
21W 3000/4000K = 2670lm
27W 3000/4000K = 3415lm



LED LIGATURE-RESISTANT LUMINAIRES



SPECIFICATION

- Strong spun steel body
- Injection moulded 5mm thick polycarbonate cover with white painted trim as standard (RAL 9010). Other colour trim options available to special order
- SmartScan emergency version with wireless test status reporting
- Ligature-resistant design
- Anti-pick sealant can be used to seal the body whilst still allowing the cover to be removed for maintenance
- Tamper-resistant pin Torx screw fixings (requires T25 tool - see accessory table)
- Microwave presence detector option with stand-by light level feature
- Fitted with 3000K or 4000K LEDs

LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	3000K/4000K
RATED LIFE (HOURS)	88K - L70/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 106.7

For LED characteristics explanation see page 6

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

RANGE

LED	CAT. No.	APPROX. kg	CIRCUIT
21W 3000K	AN 17074	3.1	L/A
21W 4000K	AN 17075	3.1	L/A
27W 3000K	AN 19208	3.1	L/A
27W 4000K	AN 19209	3.1	L/A

CIRCUIT TYPE - suffix catalogue number with:

L - non-dimming (LED) / A - dimming (DALI) e.g. AN 17074L etc.

EMERGENCY VERSION - prefix catalogue number with:

TAN - AutoTest / WAN - SmartScan e.g. WAN 17074L etc.

Add 0.3kg to weights listed.

INTEGRAL NIGHT LIGHT VERSION - suffix catalogue number with:

N e.g. AN 17074LN etc.

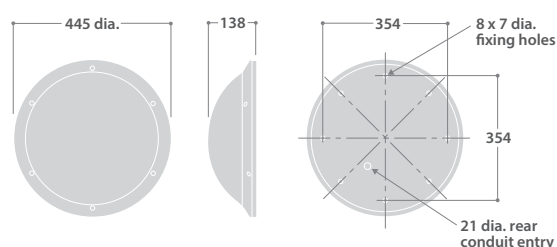
ACCESSORY

DESCRIPTION	CAT. No
T25 pin Torx bit (Suitable for magnetic bit holder)	KEY 16976

OPTION

DESCRIPTION	SUFFIX	EXAMPLE
Microwave presence detector (21W version only)	MD	AN 17074MD

DIMENSIONS





RANGE

LENGTH (mm)	LED	CAT. No.	APPROX. kg	CIRCUIT
697	19W	VT 17215	5.0	L/A
1307	56W	VT 17216	9.0	L/A

CIRCUIT TYPE - suffix catalogue number with:

L - non-dimming (LED) / **A** - dimming (DALI) e.g. **VT 17215L** etc.

EMERGENCY VERSION (56W version only) - prefix catalogue number with:

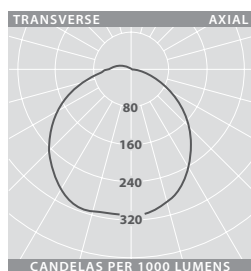
EVT - Emergency e.g. **EVT 17216L** etc.

Emergency versions add 0.3kg to weights listed.

DIMENSIONS



PHOTOMETRIC GUIDE



Luminaire Lumen Output
19W = 1635lm
56W = 5060lm

LED TAMPER-RESISTANT AND IMPACT RESISTANT SURFACE LUMINAIRES

IP65 IK10++ CE LED

SPECIFICATION

- Robust and durable extruded aluminium body finished white (RAL 9010)
- Die-cast aluminium end caps finished white (RAL 9010)
- Clear prismatic polycarbonate lens
- Body dissipates heat, ensuring long control gear life in higher ambient temperatures
- Suitable for both individual and in-line mounting
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	50K - L70/B10
PROTECTION	-
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	83.0

For LED characteristics explanation see page 6

SURFACE MOUNTED LED LUMINAIRES

IP40 IP54 WITH OPTIONAL GASKET CE



SPECIFICATION

- Spun aluminium body finished full polyester, non-yellowing white
- Textured opal polycarbonate cover
- Smart version with intelligent lighting control
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Microwave presence detector option with stand-by light level feature
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	91K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	88%
REPLACEABLE	YES
POWER FACTOR	>0.95
LL/CW	108.3

For LED characteristics explanation see page 6



RANGE

	LED	CAT. No.	APPROX. kg	CIRCUIT
SMART	Small version			
	20W	GLO 17426	1.2	D/SS
STANDARD	Small version			
	16W	GLO 16483	1.1	L/A
	20W	GLO 16484	1.1	L/A
	Large version			
	26W	GLO 15856	2.1	L/A

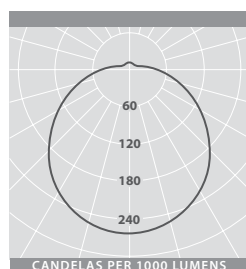
CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan
STANDARD L - non-dimming (LED) / A - dimming (DALI)
 e.g. GLO 17426SS etc.

EMERGENCY VERSION - prefix catalogue number with:

EGL - Emergency /
 TGL - AutoTest (Not available when selecting the 'SS' suffix) /
 WGL - SmartScan (16W and 20W only)
 e.g. WGL 17426SS etc.
 Add 0.3kg to weights listed

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
 16W = 1930lm
 20W = 2455lm
 26W = 3055lm

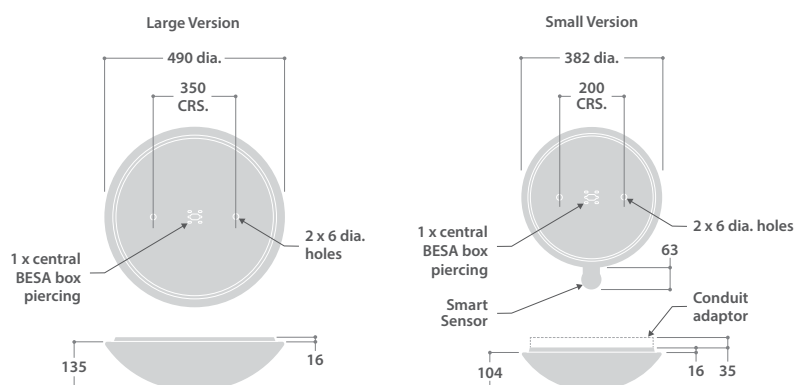
ACCESSORIES

DESCRIPTION	CAT. No.
IP54 sealing gasket - small version	GLO 16485
IP54 sealing gasket - large version	GLO 16539
Conduit adaptor - small version	GLO 17433

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Microwave presence detector	MD	GLO 16483MD

DIMENSIONS



SmartScan Configurations

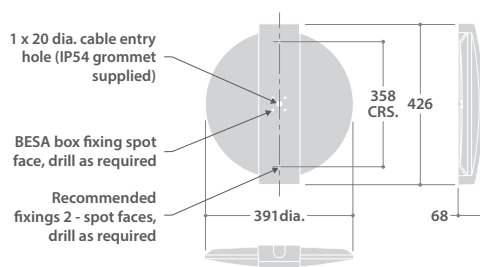


Find out more at www.thorlux.com/smartsan

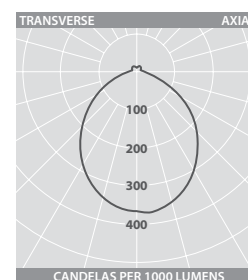
CLARA 360



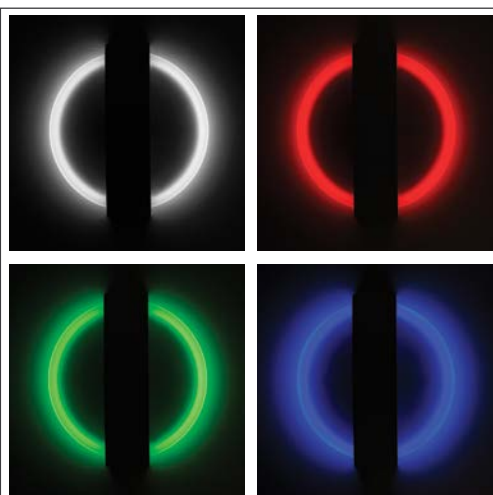
DIMENSIONS



PHOTOMETRIC GUIDE



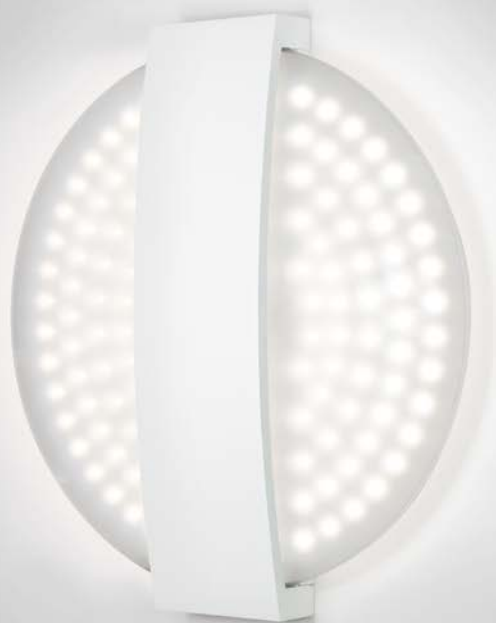
Luminaire Lumen Output
20W = 2715lm



CHOOSE YOUR COLOUR

Clara 360 is available with a separately switched 3W LED backlit halo in white or RGB. The ability to switch the colour of each half of the luminaire individually makes the Clara 360 extremely versatile. Different colour and pattern combinations can be used to clearly define separate floors or areas of a building or could simply be used to create an effect along a corridor or up a flight of stairs.





CIRCULAR LED LUMINAIRES SUITABLE FOR WALL OR CEILING MOUNTING



SPECIFICATION

- Die-cast aluminium body and lid finished full polyester non-yellowing satin white (RAL 9016)
- Silver option (RAL 9006)
- High efficiency satin sparkle effect polycarbonate covers
- Optional 3W LED backlight (RGB or white)
- 60,000 hour life expectancy
- Emergency and AutoTest versions using two integral 1W high power LEDs
- Smart versions with intelligent lighting control
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	80+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	67K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	>87%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 113.1

For LED characteristics explanation see page 6

RANGE

	LED	STANDARD	APPROX. kg	WHITE LED HALO	RGB LED HALO	APPROX. kg	CIRCUIT
SMART	20W	CA 15626	3.2	CA 15637	CA 15631	3.3	D/SS
STANDARD	20W	CA 15625	3.1	CA 15634	CA 15628	3.2	L/A

CIRCUIT TYPE - suffix catalogue number with:

SMART D - Smart / SS - SmartScan

STANDARD L - non-dimming (LED) / A - dimming (DALI) e.g. CA 15626SS etc.

EMERGENCY VERSION - prefix catalogue number with:

ECA - Emergency } (Not available when selecting the 'SS' suffix)

TCA - AutoTest

WCA - SmartScan (Only available when selecting the 'SS' suffix)

e.g. WCA 15626SS etc.

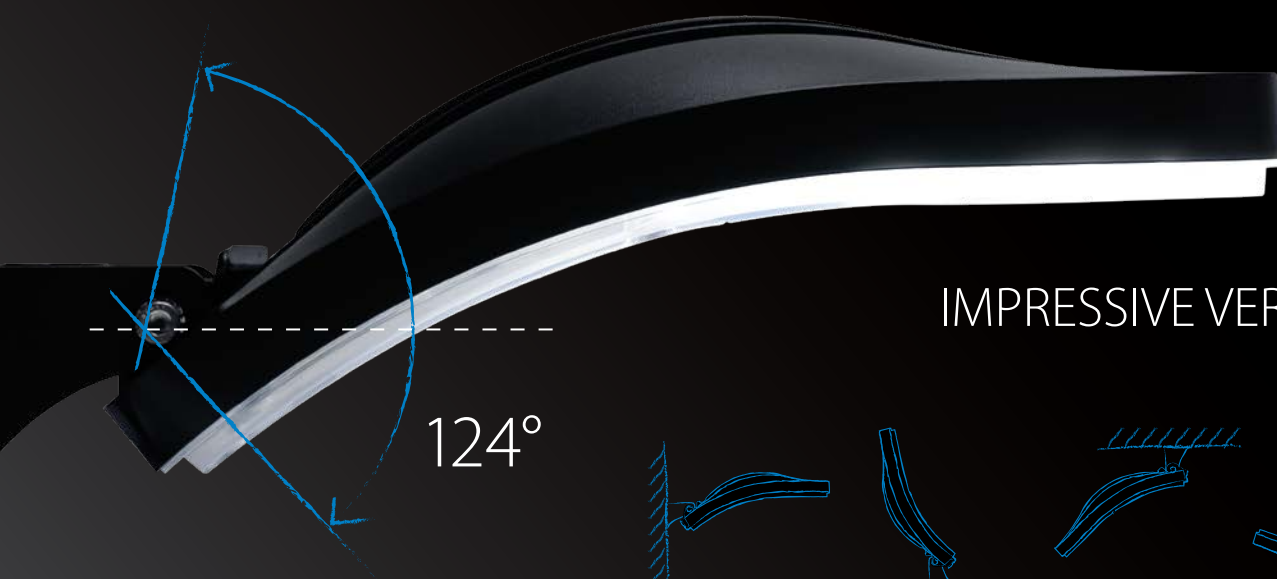
Add 0.3kg to weights listed.

FINISH OPTION - suffix catalogue number with: SV3 - Silver RAL 9006 e.g. CA 15626DSV3 etc.

SmartScan Configurations



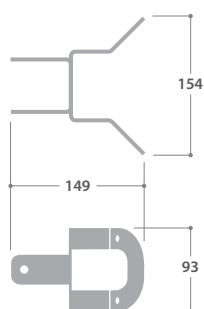
Find out more at www.thorlux.com/smartscan



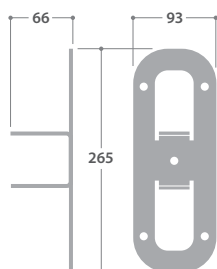
IMPRESSIVE VERSATILITY

MOUNTING OPTIONS

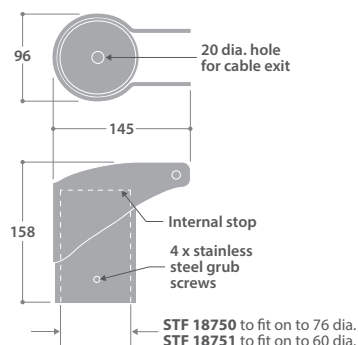
Corner mounting bracket



Wide mounting bracket

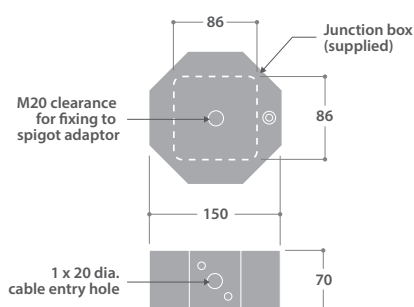


Single luminaire pole top mount

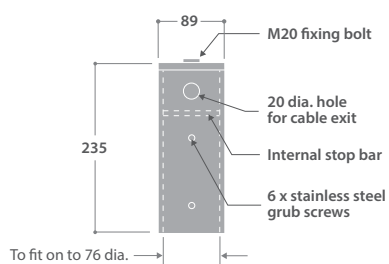


Single luminaire pole top mount

Pole top mounting kit



Spigot adaptor



DESCRIPTION

CAT. No

APPROX. kg

Single luminaire pole top mount finished silver (76mm dia.)	STF 18750SV3	1.2
Single luminaire pole top mount finished graphite (76mm dia.)	STF 18750G2	1.2
Single luminaire pole top mount finished silver (60mm dia.)	STF 18751SV3	1.5
Single luminaire pole top mount finished graphite (60mm dia.)	STF 18751G2	1.5
Pole top mounting kit finished silver ■	STF 17330SV3	1.4
Pole top mounting kit finished graphite ■	STF 17330G2	1.4
Galvanised spigot adaptor for 76 dia. shaft	POT-89	2.9
Corner mounting bracket finished graphite	STF 17329G2	0.5
Wide mounting bracket finished graphite	STF 17328G2	0.5

■ For use with spigot adaptor **POT-89**, can accommodate up to 4 Starfloods



HIGH PERFORMANCE MINI LED FLOODLIGHTS

IP66 IK10 CE LED WINDAGE - 0.06m²

SPECIFICATION

- Graphite full polyester powder finish. Silver option RAL9006
- Strong die-cast LM6M aluminium body
- Highly impact resistant polycarbonate cover and acrylic high efficiency LED lenses
- Optional photocell control
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Fitted with 4000K or 5700K LEDs

LED CHARACTERISTICS

CRI	70
COLOUR TEMPERATURE	4000K/5700K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	LED PROTECT
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 118.1

For LED characteristics explanation see page 6

COLOUR OPTIONS



Graphite



Silver

RANGE

	LED	4000K VERSION	5700K VERSION	APPROX. kg
SMART EXTERNAL	20W	STF 17567SS	STF 17410SS	2.3
	34W	STF 17568SS	STF 17411SS	2.3
STANDARD	20W	STF 17569L	STF 17413L	2.2
	34W	STF 17570L	STF 17414L	2.2
	42W	STF 17571L	STF 17415L	2.2

CIRCUIT TYPE -

SMART EXTERNAL	SS - SmartScan
STANDARD	L - non-dimming (LED)

SILVER OPTION - add suffix SV3 e.g. STF 17567SSSV3 etc.

NOTE - Smart version not suitable for uplighting applications

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	STF 17569LPCSV3

SmartScan Configurations

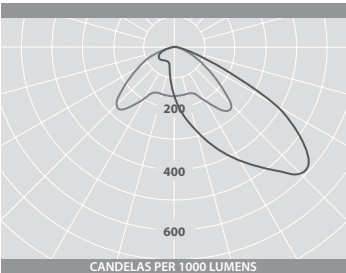


Find out more at www.thorlux.com/smartscan

STARFLOOD



PHOTOMETRIC GUIDE



LED
Luminaire Lumen Output:
20W = 2835lm
34W = 4575lm
42W = 5400lm

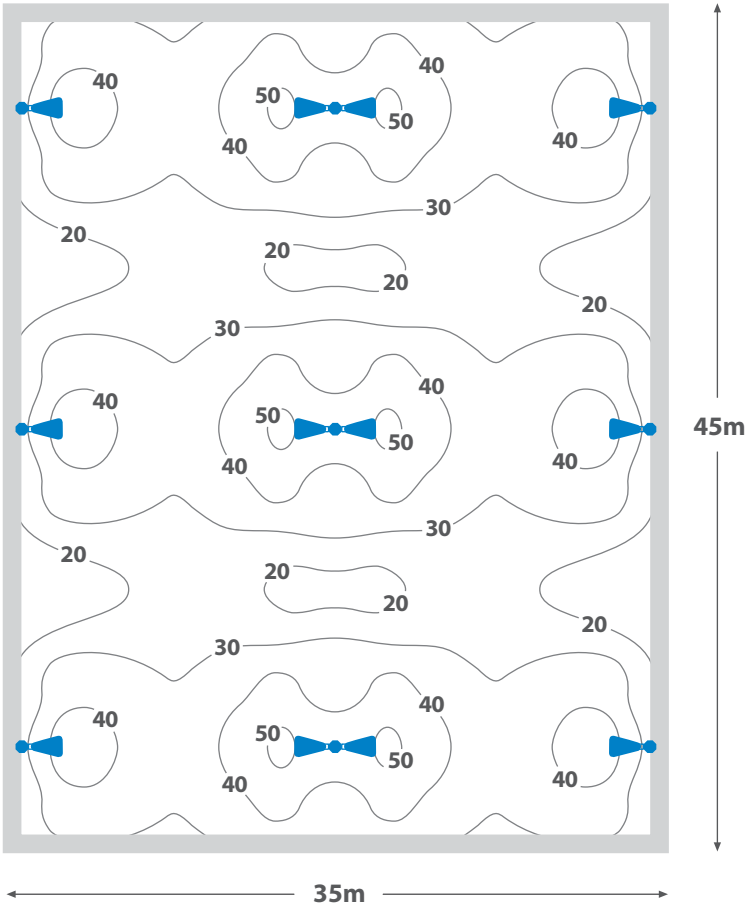
PERFORMANCE GUIDE

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
4m mounting height - 6m forward throw		
8m ctrs	40 lux	0.44
10m ctrs	30 lux	0.47
12m ctrs	23 lux	0.29
14m ctrs	17 lux	0.20
5m mounting height - 8m forward throw		
8m ctrs	24 lux	0.34
10m ctrs	19 lux	0.36
12m ctrs	16 lux	0.39
14m ctrs	14 lux	0.33
6m mounting height - 10m forward throw		
8m ctrs	20 lux	0.33
10m ctrs	16 lux	0.34
12m ctrs	13 lux	0.37
14m ctrs	11 lux	0.39

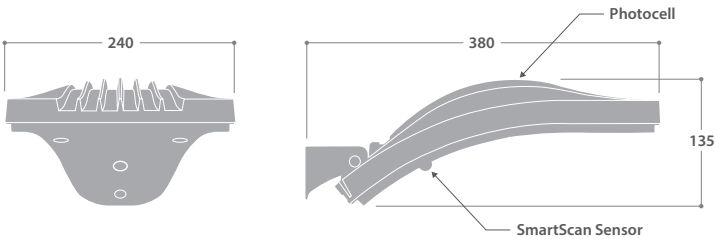
FIGURES ARE BASED ON INITIAL LUMENS

TYPICAL SPACING GUIDE

42W LED / 6m mounting height / 17.5 x 17.5m spacing -
Average illuminance = 32 lux / Uniformity = 0.31



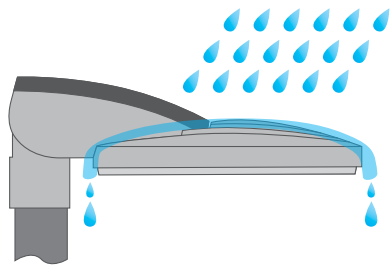
DIMENSIONS



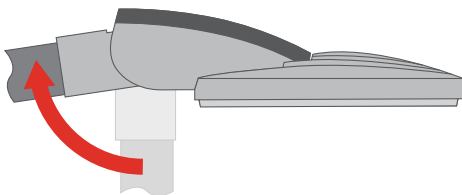
STARBEAM



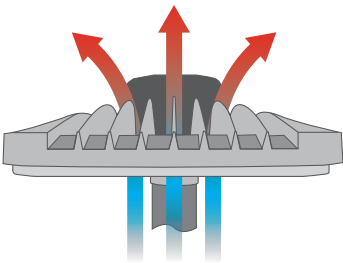
The Starbeam range of precision engineered LED area floodlights and streetlights takes external lighting to a new dimension in terms of efficiency (up to 112 luminaire lumens per circuit watt) and longevity (up to 100,000 hours). This is achieved through significant investment in high quality die-cast heat sinks and in house manufactured printed circuit boards positioning the very latest top brand LEDs within precise acrylic lenses. A range of power levels, two optical distribution types and two body sizes provides every option necessary for car park, general amenity and road lighting applications.



1. “Free draining” curved heat sink eliminates ponding of fluids



2. Integral adjustable mounting spigot allows easy retrofit on to a wide range of columns and brackets whilst maintaining 0° elevation



3. Heat dissipation fins combined with air flow between heat sink and gear compartment extends control gear lifetime



Smart External area distribution version



Smart External roadway distribution version

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	SB 17553LPC

ACCESSORIES - see page 50



LED AREA FLOODLIGHTS AND STREET LIGHTS

IP66 IK10 CE LED

WINDAGE - small: 0.06m² large: 0.07m²

SPECIFICATION

- Die-cast aluminium body and gear compartment finished polyester silver RAL9006
- Die-cast aluminium, fast release gear compartment lid finished polyester graphite
- Polycarbonate cover and acrylic high efficiency LED lenses
- Area or roadway optical distributions
- Integral high efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Suitable for ambient temperatures up to 50°C
- Smart External versions with intelligent lighting control for use up to 12 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Pole top 76mm as standard, adjustable through 90°
- Wall mounting bracket accessory
- Wide range of mounting options (see page 50 for details)
- Photocell option
- Fitted with 4000K or 5700K LEDs

LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K/5700K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	LED PROTECT
DRIVER EFFICIENCY	>90%
REPLACEABLE	YES
POWER FACTOR	>0.9

LL/CW 112.0

For LED characteristics explanation see page 6

SmartScan Configurations



Find out more at www.thorlux.com/smartsan



RANGE

	LED	AREA DISTRIBUTION	ROADWAY DISTRIBUTION	APPROX. kg
SMART EXTERNAL	Small Version			
	31W - 4000K	SB 18340SS	SB 18345SS	8.2
	62W - 4000K	SB 18341SS	SB 18346SS	8.2
	31W - 5700K	SB 18352SS	SB 18357SS	8.2
	62W - 5700K	SB 18353SS	SB 18358SS	8.2
	Large Version			
	88W - 4000K	SB 18342SS	SB 18347SS	9.4
	123W - 4000K	SB 18343SS	SB 18348SS	9.4
	161W - 4000K	SB 18344SS	SB 18349SS	9.4
	88W - 5700K	SB 18354SS	SB 18359SS	9.4
STANDARD	Small Version			
	31W - 4000K	SB 17553L	SB 17561L	8.0
	62W - 4000K	SB 17554L	SB 17562L	8.0
	31W - 5700K	SB 15800L	SB 15801L	8.0
	62W - 5700K	SB 15802L	SB 15803L	8.0
	Large Version			
	88W - 4000K	SB 17555L	SB 17563L	9.2
	123W - 4000K	SB 17556L	SB 17564L	9.2
	161W - 4000K	SB 18350L	SB 18351L	9.2
	88W - 5700K	SB 15804L	SB 15805L	9.2
	123W - 5700K	SB 15806L	SB 15807L	9.2
	161W - 5700K	SB 18362L	SB 18363L	9.2

CIRCUIT TYPE -

SMART EXTERNAL SS - SmartScan
STANDARD L - non-dimming (LED)

EMERGENCY VERSION (31W & 62W) - prefix catalogue number with:

WSB - SmartScan (Only available when selecting the 'SS' suffix)

e.g. **WSB 18340SS** etc.

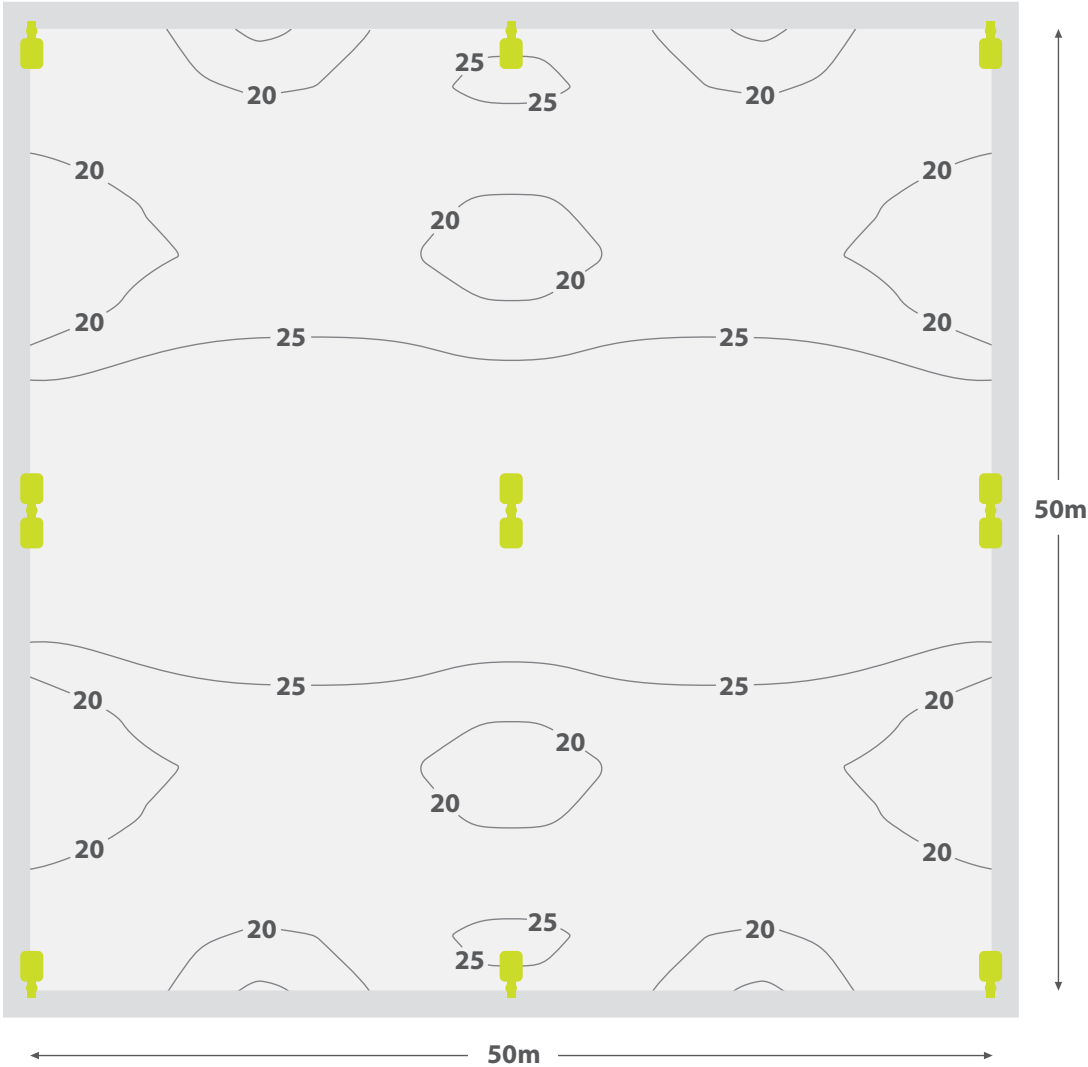
Add 0.3kg to weights listed.

NOTE: - Emergency versions not suitable for high ambient temperatures
- Glass version available to special order

TYPICAL SPACING GUIDE

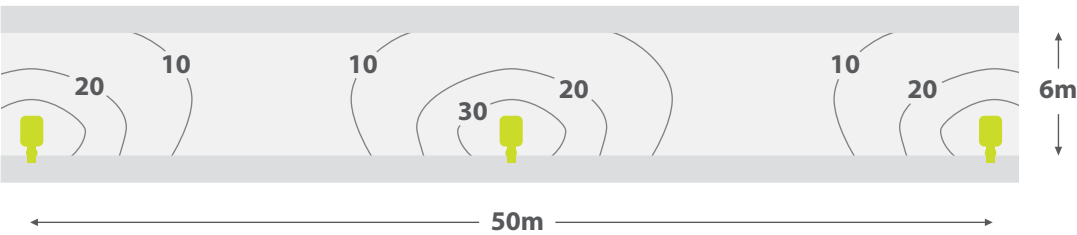
AREA DISTRIBUTION

88W LED / 8m mounting height / 25 x 25m spacing - Average illuminance = 25 lux / Uniformity = 0.63

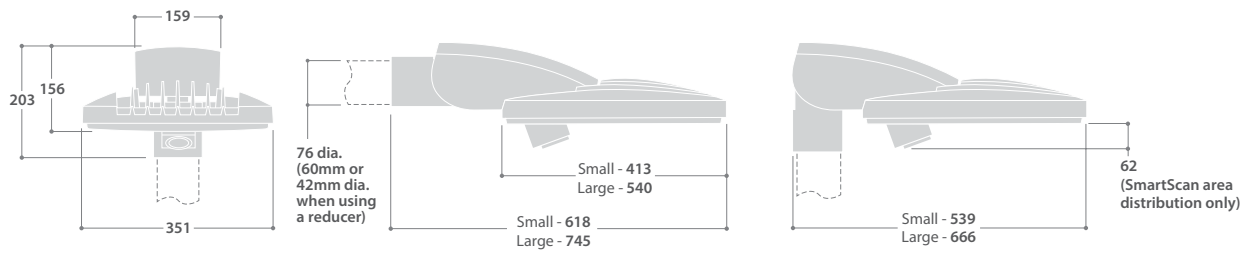


ROADWAY DISTRIBUTION

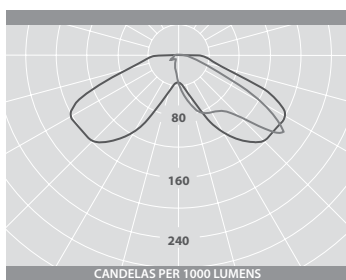
31W LED / 6m mounting height / 25m spacing - Average illuminance = 15 lux / Uniformity = 0.42



DIMENSIONS

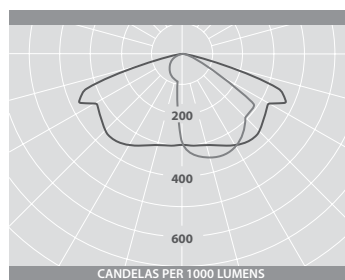


PHOTOMETRIC GUIDE



AREA DISTRIBUTION

Luminaire Lumen Output:
 31W = 3500lm
 62W = 6750lm
 88W = 10150lm
 123W = 13550lm
 161W = 17250lm

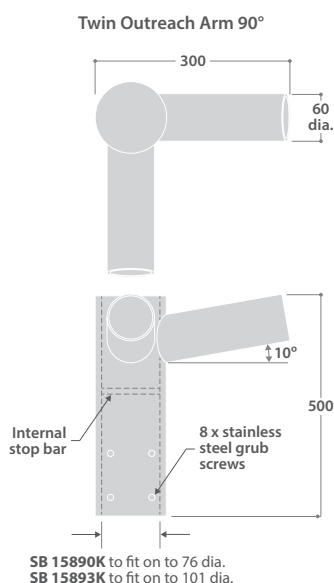
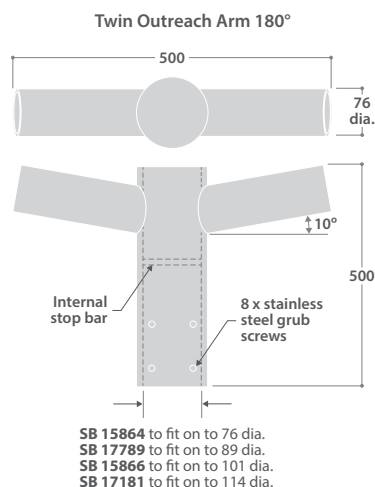
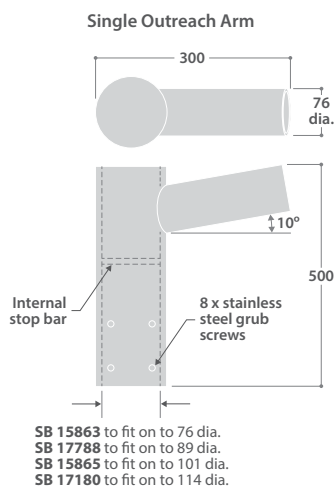


ROADWAY DISTRIBUTION

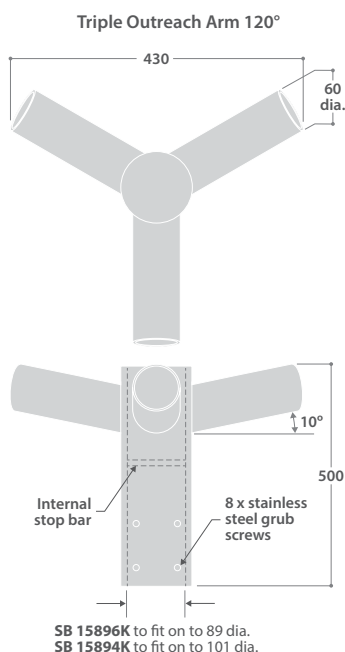
Luminaire Lumen Output:
 31W = 3700lm
 62W = 7100lm
 88W = 10700lm
 123W = 14250lm
 161W = 18150lm



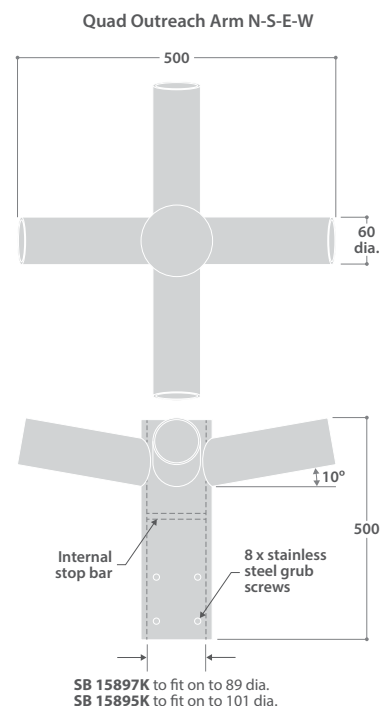
COLUMN MOUNTING OPTIONS



Supplied with 2 x 76mm to 60mm reducer kits (SB 15809)

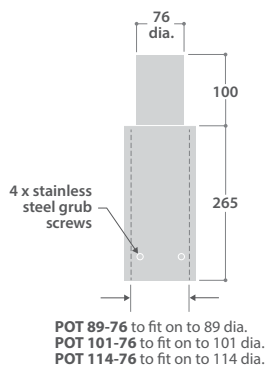


Supplied with 3 x 76mm to 60mm reducer kits (SB 15809)

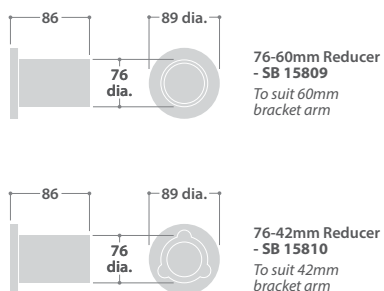


Supplied with 4 x 76mm to 60mm reducer kits (SB 15809)

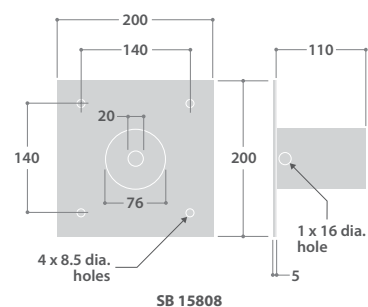
COLUMN ADAPTORS



BRACKET ARM REDUCERS



WALL MOUNTING BRACKET



For further mounting and bracket options please contact our Technical Department

COLUMNS SPECIFICATION

- Stepped tubular galvanised steel columns, to BS EN 40-2:2004
- Mounting accessories are hot dip galvanised to BS EN ISO 1461:2009
- Black bitumen external coating to root
- Supplied with wooden baseboard for mounting cable connection accessories
- Accessories are easily fixed with stainless steel grub screws and have an internal stop to ensure cable exit

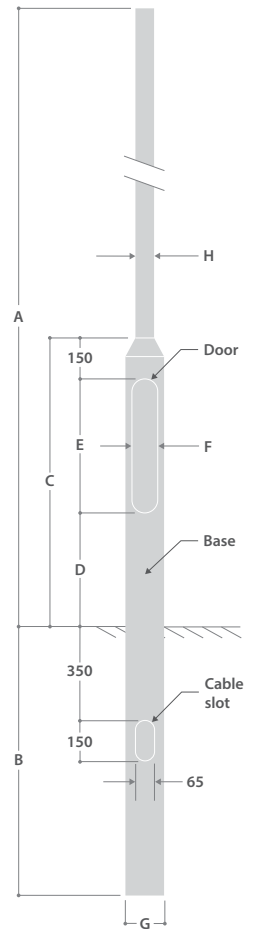
UK DELIVERY

Columns are delivered to site at a pre-arranged time. An off-loading service is not included and it is the responsibility of the client (or client's agent) for the safe undertaking of this requirement. A fork lift truck is recommended to minimise manual handling.

COLUMN RANGE

NOMINAL HEIGHT	CAT. No.	PLANTING DEPTH	BASE HEIGHT	DOOR HEIGHT	DOOR DIMENSIONS		BASE DIAMETER	SHAFT DIAMETER	APPROX. kg	BASEBOARD SIZE
A		B	C	D	E	F	G	H		
Single and Twin Starbeam Standard Columns										
4m	FC4	800	925	300	500	100	140	76	33	89 (w) x 500 (h)
5m	FC5	800	925	300	500	100	140	76	40	89 (w) x 500 (h)
6m	FC6	1000	925	300	500	100	140	76	44	89 (w) x 500 (h)
8m	FC8	1200	1200	400	600	115	168	114 ■	100	89 (w) x 600 (h)
10m	FC10	1500	1300	500	600	115	168	114 ■	142	89 (w) x 600 (h)
Triple and Quad Starbeam Medium Duty Columns										
4m	FC4/89	800	1280	300	600	115	168	89	60	89 (w) x 500 (h)
5m	FC5/89	800	1280	300	600	115	168	89	64	89 (w) x 500 (h)
6m	FC6/89	1000	1280	300	600	115	168	89	68	89 (w) x 500 (h)
8m	FC8	1200	1200	400	600	115	168	114 ■	100	89 (w) x 600 (h)
10m	FC10	1500	1300	500	600	115	168	114 ■	142	89 (w) x 600 (h)

■ Reduced at top to 101mm to accept accessories



ORDERING INFORMATION

	SINGLE COLUMN MOUNT	SINGLE OUTREACH ARM	TWIN OUTREACH ARM 180°	TWIN OUTREACH ARM 90°	TRIPLE OUTREACH ARM 120°	QUAD OUTREACH ARM N-S-E-W
Mounting Height	Column Adaptor	Column Bracket	Column Bracket	Column Bracket	Column Bracket	Column Bracket
4m	FC4	FC4 SB 15863	FC4 SB 15864	FC4 SB 15890K	FC4/JUNO SB 15896K	FC4/JUNO SB 15897K
5m	FC5	FC5 SB 15863	FC5 SB 15864	FC5 SB 15890K	FC5/JUNO SB 15896K	FC5/JUNO SB 15897K
6m	FC6	FC6 SB 15863	FC6 SB 15864	FC6 SB 15890K	FC6/JUNO SB 15896K	FC6/JUNO SB 15897K
8m	FC8 POT 114-76	FC8 SB 15865	FC8 SB 15866	FC8 SB 15893K	FC8 SB 15894K	FC8 SB 15895K
10m	FC10 POT 114-76	FC10 SB 15865	FC10 SB 15866	FC10 SB 15893K	FC10 SB 15894K	FC10 SB 15895K

JUNO A





LED POLE TOP AMENITY LUMINAIRES

IP66 IK10 CE LED WINDAGE - 0.14m²

SPECIFICATION

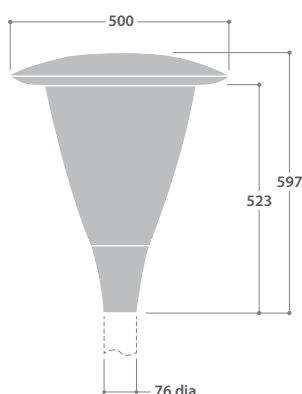
- Strong high pressure die-cast aluminium top and column mount finished full polyester powder coat silver (RAL9006)
- High-impact UV stabilised polycarbonate cover rated IK10
- Integral high efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Fits 76mm columns as standard (60mm to special order)
- Fitted with 6m flying lead
- Photocell option
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	-
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.90
LL/CW	120.0

For LED characteristics explanation see page 6

DIMENSIONS



RANGE

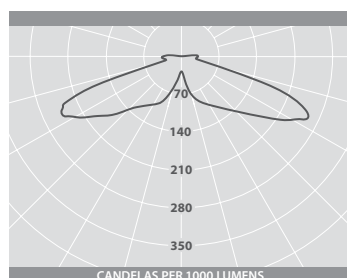
LED	CAT. No.	APPROX. kg
31W	JUN 17672L	8.0
52W	JUN 17673L	8.0

CIRCUIT TYPE - L - non-dimming (LED)

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	JUN 17672LPC

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
31W = 4320lm
52W = 6825lm



RANGE

LED*	SYMMETRIC DISTRIBUTION	ASYMMETRIC DISTRIBUTION	APPROX. kg
37W	JUN 19200	JUN 19202	7.6
78W	JUN 19201	JUN 19203	7.6

CIRCUIT TYPE - L - non-dimming (LED)

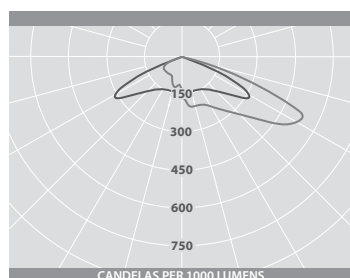
OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	JUN 190200PC

ACCESSORIES

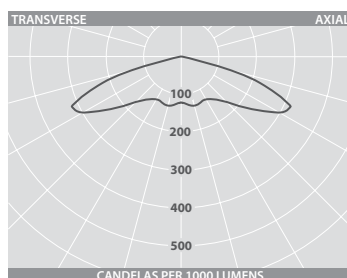
DESCRIPTION	CAT. No.
Backlight reducing shield kit	JUN 19204

PHOTOMETRIC GUIDE



ASYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
37W = 5135lm
78W = 9595lm



SYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
37W = 5155lm
78W = 9630lm

HIGH PERFORMANCE LED POLE TOP LUMAIRES

IP66 IK10 CE LED

WINDAGE - 0.04m²

SPECIFICATION

- Strong high pressure die-cast aluminium top and column mount finished full polyester (RAL9006)
- High impact UV stabilised polycarbonate cover rated IK10
- Integral high efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Fits 76mm columns as standard (60mm to special order)
- Fitted with 10m flying lead
- Photocell option
- Zero upward light
- Fitted with 4000K LEDs

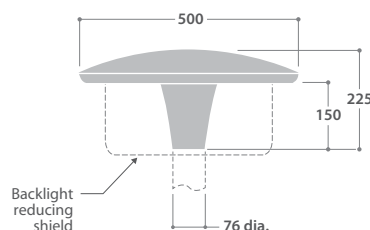
LED CHARACTERISTICS

CRI	70
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	93%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 117.2

For LED characteristics explanation see page 6

DIMENSIONS





Smart External version



LED AREA FLOODLIGHTS

IP66 IK10 CE LED

WINDAGE - 0.06m²

SPECIFICATION

- Strong high pressure die-cast aluminium top and column mount finished full polyester powder coat silver (RAL9006)
- High-impact UV stabilised polycarbonate cover rated IK10
- Integral high efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Fits 76mm columns as standard (60mm to special order)
- Fitted with 6m flying lead
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- SmartScan wireless technology removes the need for control cabling. Ideal for retro-fit
- Photocell option
- Zero upward light
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	-
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.95

LL/CW 104.3

For LED characteristics explanation see page 6

SmartScan Configurations



Find out more at www.thorlux.com/smartsan

RANGE

	LED	CAT. No.	APPROX. kg
SMART EXTERNAL	52W	JUN 17676SS	8.9
	78W	JUN 17677SS	8.9
STANDARD	52W	JUN 17678L	8.8
	78W	JUN 17679L	8.8

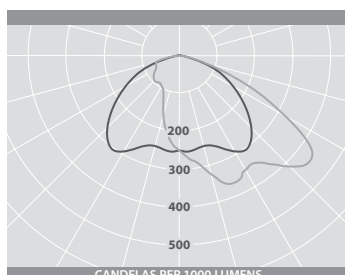
CIRCUIT TYPE -

SMART EXTERNAL	SS - SmartScan
STANDARD	L - non-dimming (LED)

OPTIONS

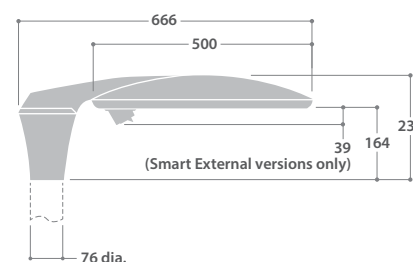
DESCRIPTION	SUFFIX	EXAMPLE
Photocell (standard versions only)	PC	JUN 17678LPC

PHOTOMETRIC GUIDE



Luminaire Lumen Output:
52W = 6360lm
78W = 9155lm

DIMENSIONS





Designers, manufacturers and suppliers
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Thorlux Carbon Offsetting Project:
www.thorlux.com/trees

The information given in this catalogue is typical and must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.

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