



**HOLOPHANE®**



**Advanced**  
LIGHTING TECHNOLOGIES

**AcuityBrands.**

Expanding the boundaries of lighting™



THE QUEEN'S AWARDS  
FOR ENTERPRISE:  
INNOVATION  
2017



**S LINE**



INNOVATION AND EFFICIENCY

REGISTERED EUROPEAN DESIGN



# S LINE

PATHWAYS & CUL-DE-SAC



STREETS, PATHS AND CYCLE PATHS

RESIDENTIAL ROADS



RESIDENTIAL ZONES

SHARED ZONES, COMMERCIAL STREETS

RESIDENTIAL STREETS



RURAL ROADS



## Innovation and efficiency

The new 'Line' range from Holophane is a family of luminaires developed to deliver an innovative and modern lighting system for a range of street lighting applications.

The product design process at Holophane focuses on making the most efficient and reliable technology a reality. This aspiration has resulted in developments with a lasting impact. In other words, our work ensures that we are delivering the latest technologies with class leading quality. With the introduction of the new 'Line' range of luminaires we are continuing this trend. Low profile styling, adaptable mounting design and customised optics that allow for maximum column spacing, lighting and uniformity mean that the 'Line' range delivers the complete street lighting solution.

### optics / light source

- > Available with a variety of optical packages
- > Lumen packages ranging from 1,000 to 8,000 lumens
- > 4000°K and 3000°K colour temperature
- > 100,000 hours life (L90B10) at 25°C tq
- > +/- 10° tilting (2.5° increments)

### approvals

#### CE

IP 66 light engines (BS EN 60598-1)  
IP 66 gear compartment (BS EN 60598-1)

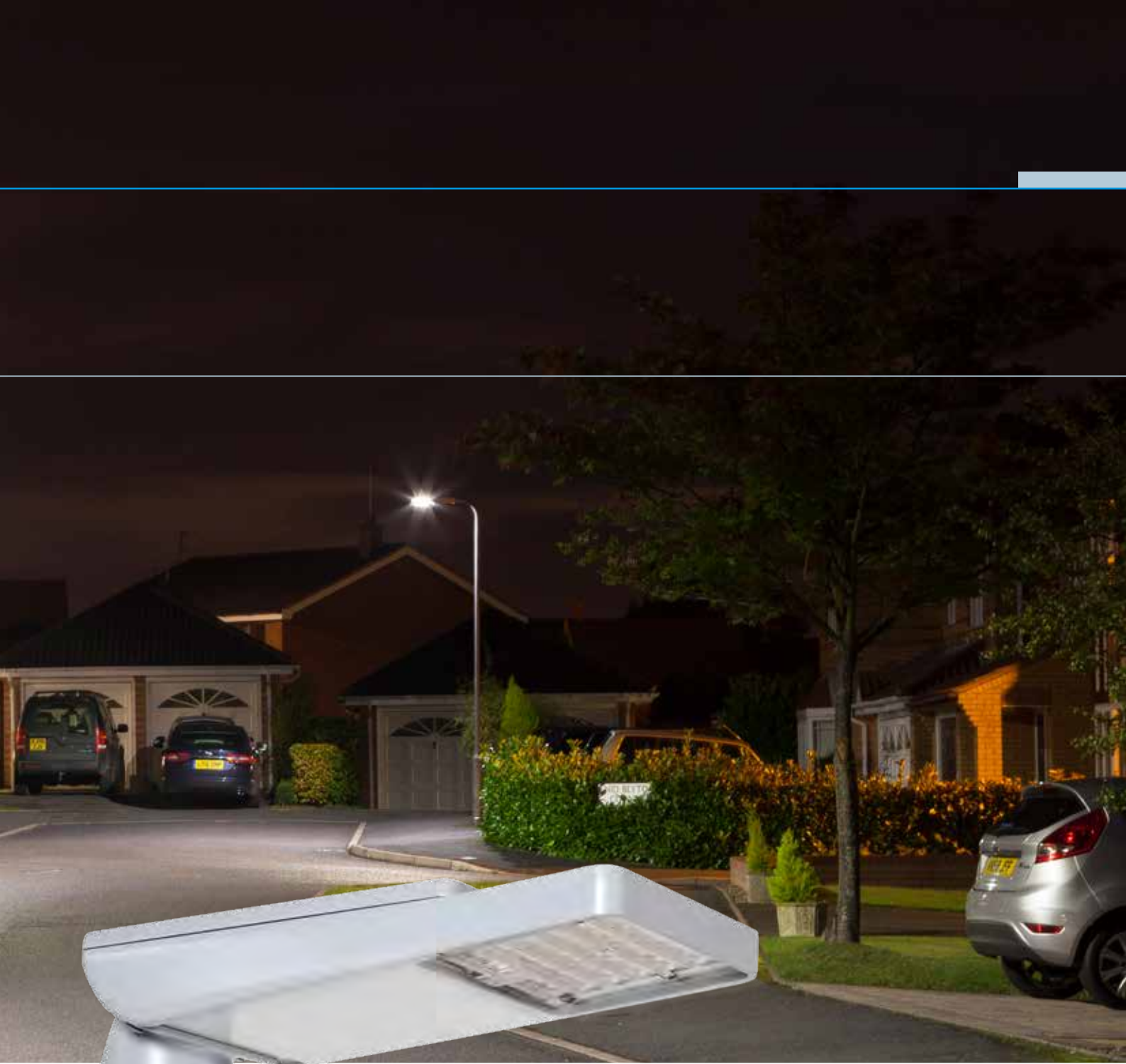
**Ta** -40°C to +50°C

IK10 (EN 62262)

ENEC pending

For further information please visit the Holophane website  
[www.holophane.co.uk](http://www.holophane.co.uk)





## S LINE

**Lumen range:** 1,000 to 8,000

**Power Consumption:** 6W to 68W

**Lifetime:** 100,000 @ L90B10 25°C tq

**Colour Temperature:** 3000°K or 4000°K

**CRI:** 70

**Optical IP Rating:** IP66

**Housing IP Rating:** IP66

**Impact Resistant:** IK10

**Controls Options:**

DALI, Integrated Wireless controls, Part Night Dimming, Constant Lumen Output, CMS and 3/5/7 pin NEMA sockets

**Electrical Class:** Class I or II

**Weight:** 4kg

**Material:**

Body: High pressure die-cast aluminium (LM6)

Adapter: High pressure die-cast aluminium (LM6)

Optic: 4mm tempered glass lens

**Mounting:**

Post Top 76mm/60mm Side

Entry 34mm/42mm/60mm

**Tilting:** +/- 10° tilt. (2.5° increments)

## features and benefits

### Installation/Maintenance

Convenient luminaire access from the top, via captive screw.  
The LED light engine is separate from the driver, which encourages heat dissipation by way of conduction.



#### Accessibility

Cast aluminium (LM6) cover hinging upwards to allow ease of access during installation and maintenance.

#### Robust

Protective vent gland that manages the internal pressure supporting long service life, increasing reliability, and preventing deformations that could cause component failure.

#### Dual cable entry

Dual glanded M20 cable entry for controls and powers. Allows flexibility during installation whilst maintaining the integrity of the luminaire housing.

#### Safety

Safety strap supplied as standard on all post top mounted versions to ensure cover does not 'fold back' during installation/maintenance.

Stay arm, available as an option, for easy maintenance on-site.

#### LED Driver

Thermally managed LED drivers with a range of control and drive current options



### Material and finish

Housing, cover and mounting bracket are manufactured from high quality, low copper content aluminium (LM6). The quality of the materials and coating process used ensures a product with a long mechanical life.

### Optical distribution

State-of-the-art optics available to deliver a variety of different distributions.

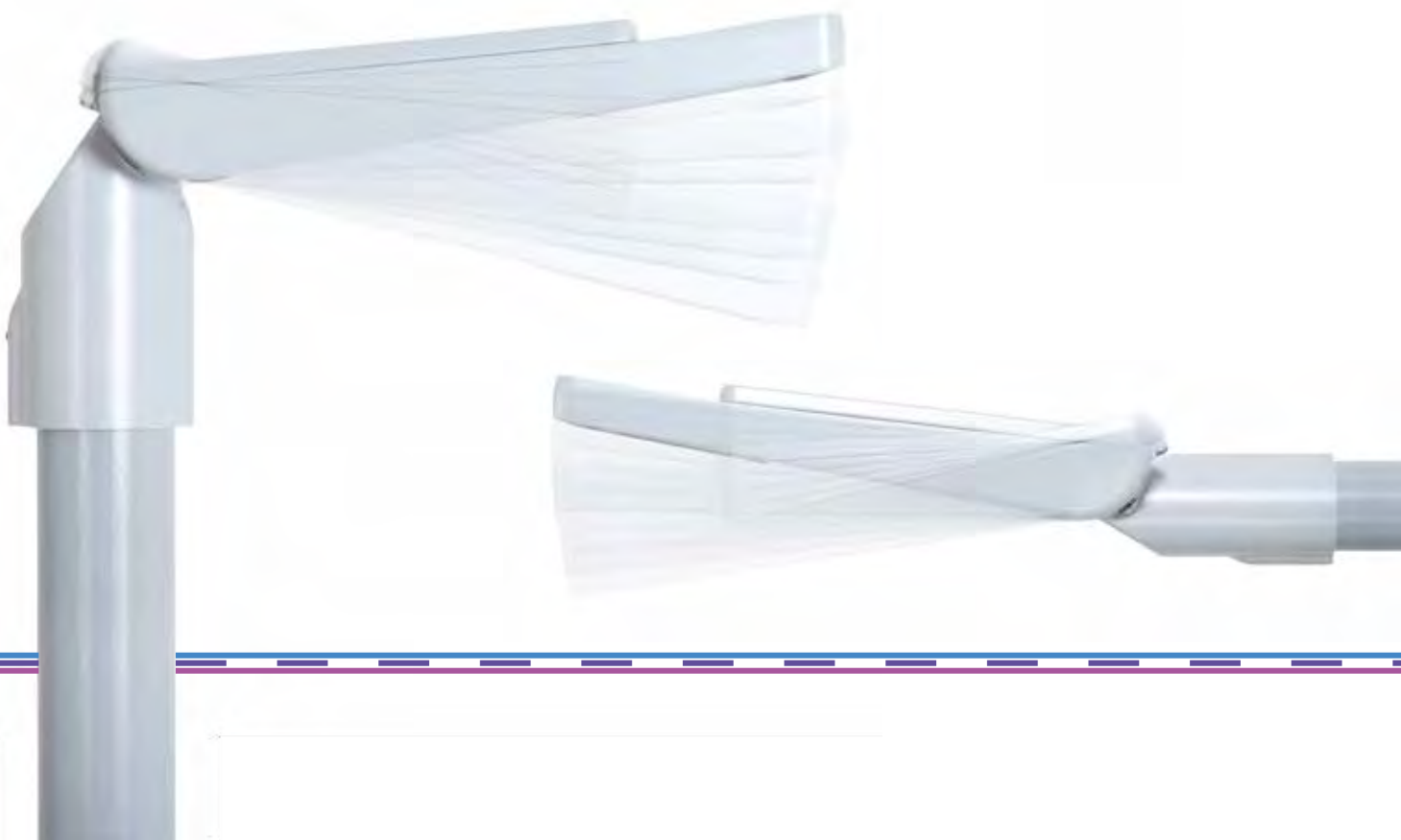
### LED modules

The S-Line luminaires include state-of-the-art LED light engines to ensure maximum efficacy. The two different luminaire sizes deliver different lumen packages, ranging from 1,000 to 8,000 lumens.

R-Line

## Tilt Options

The design of S-Line allows on site  $-10^{\circ}$  to  $10^{\circ}$  tilting via the two adjustable mounting bolts. Adjusting is aided via the indents on the outer casting that guides the adapter to the desired tilting angle.



## technical specifications

### Enclosure - IP66

In accordance with BS EN 60598-1, IP66 luminaire enclosure has been achieved. A series of bespoke seals designed for the luminaire ensure that the IP66 seal is maintained.

### Impact rating - IK10

In accordance with EN 62262, IK10 impact protection rating has been achieved. Maximum protection to ensure the projected life of the luminaire is maintained. The IK10 rating is achieved via the 4mm/5mm thick tempered glass lens.



### Control

Using programmable gear, DALI protocol, the lighting is managed in a more efficient manner, minimising consumption and maximising performance. Available as part of an Integrated wireless controls system.



### Mounting Arrangements

Suitable for post top (76mm/60mm) and side entry (60mm/42mm/34mm) mounting arrangements.



### Electrical class

Available in CI and CII.



### Pressure equalisation valve

The luminaire has a pressure equalisation valve that offsets interior/exterior pressure. The integration of the valve extends the projected life of the seals and interior parts by reducing the pressure placed on them and prevents moisture from entering which can lead to condensation.



### Overvoltage surge protector

S-Line can be specified to include an overvoltage protection system, that protects the electronic parts of the luminaire against overvoltage of up to 10KV/KA.



# S-Line

## Specification

The luminaire consists of a die cast LM6 aluminium housing ((EN AC-44100)(AL.Si12)) which is sealed to IP66 with a close cell gasket and M5 stainless steel fastener that also allows access to the gear compartment for electrical termination. LED modules with individual lenses, are mounted directly to the die cast LM6 aluminium housing to aid heat dissipation. The luminaire is also available with a 4mm tempered glass lens, which is secured to the housing via 4 stainless steel clips, to deliver an IK10 impact resistance. The luminaire is suitable for post mounting (60/76mm) and side entry (34/42/60mm) with the ability to adjust onsite by  $-10^{\circ}$  to  $+10^{\circ}$  tilt\*.

\*Restrictions apply on selected mounting options

## Features and benefits

### Sleek Design

- > Slim design with a range of lumen packages that can be adapted dependent on the required lighting performance thus ensuring visual and performance consistency for a variety of street lighting schemes.
- > Suitable for post top or side entry mounting without the requirement for an additional bracket.

### Enhanced Thermal Management

- > LED modules and electronic driver are mounted in direct contact with die cast housing to aid heat dissipation by way of conduction and extend the life of all critical electronic components.

### High Efficiency LED Technology

- > High quality, highly efficient, LEDs used in conjunction with the latest LED drivers ensures that superior lumens per watt and a long system life are achieved.

### Fully Controllable Luminaire

- > Developed to offer standalone flexibility for constant lumen output, variable lighting levels and part time regimes.
- > Available with DALI controls option.
- > Compatible with Holophane controls system.

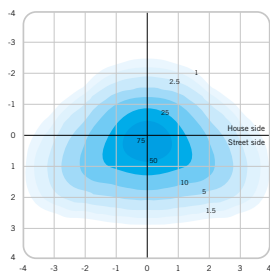




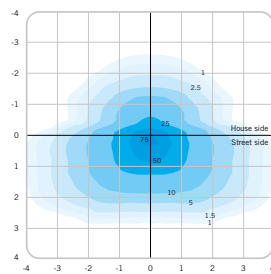
# distributions

## S-Line

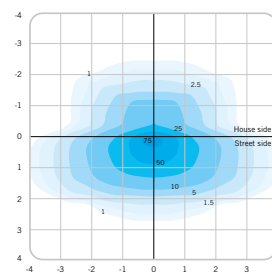
### Type III



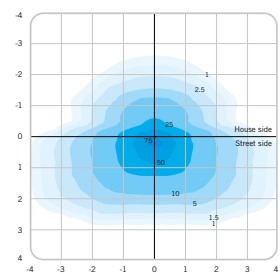
Q1 (Type III Short)



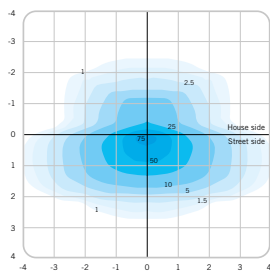
R3 (Type III Short)



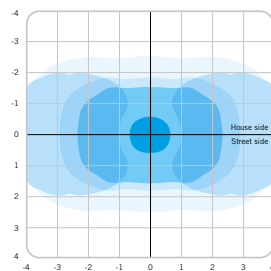
2S (Type III Short)



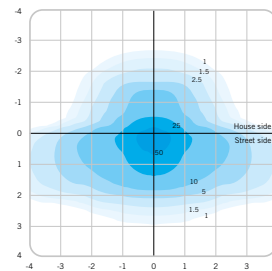
AY (Type III Short)



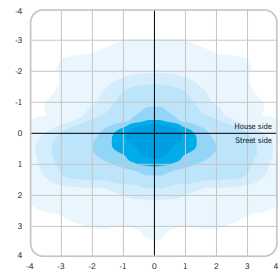
HN (Type III Short)



5R (Type III Medium)

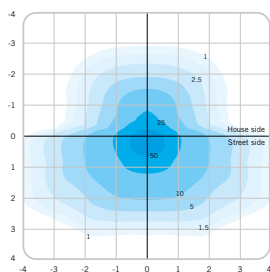


A2 (Type III Medium)

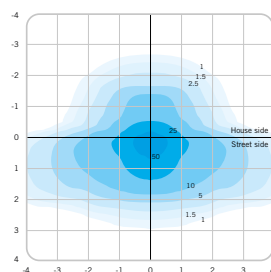


R2 (Type III Medium)

### Type IV



A4 (Type IV Medium)



HA (Type IV Medium)

#### ANSI Roadway Lighting Standards.

The ANSI Roadway Lighting Series of standards addresses the variety of possible solutions available when it comes to roadway and area lighting

## technical specifications

### Weight

(with control gear)

S-Line (SLI)	4kg
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### Windage

(effective projected area)

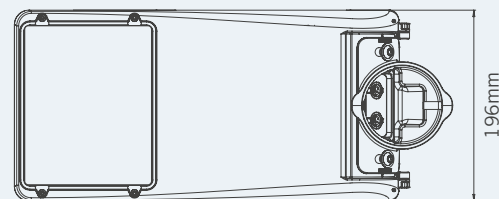
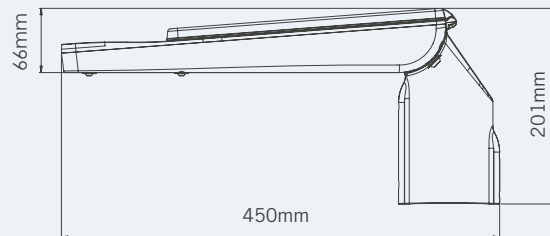
S-Line Post top	0.0297m <sup>2</sup>
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S-Line Side entry	0.0350m <sup>2</sup>
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### Ta

-40°C to 50°C
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S-Line



**Note:** The specifications of the Holophane luminaire represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.

Code		Luminaire (required)													
SLI		S-Line Luminaire													
	Code	Series (required)													
	.1	Series 1													
	.2	Series 2													
	Code	Lamp Type (required)													
	.LA01X	LED light engine producing c.1,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA02X	LED light engine producing c.2,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA03X	LED light engine producing c.3,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA04X	LED light engine producing c.4,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA05X	LED light engine producing c.5,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA06X	LED light engine producing c.6,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA07X	LED light engine producing c.7,000 lm with a nominal 3000K or 4000K colour temperature													
	.LA08X	LED light engine producing c.8,000 lm with a nominal 3000K or 4000K colour temperature													
	Code	Optics (required)													
	.AY	Asymmetric light distribution (Type III Short)*													
	.HN	High beam long and narrow light distribution (Type III Short)*													
	.HA	High beam asymmetric light distribution (Type IV Medium)*													
	.NR	Long and narrow light distribution*													
	.2S	2S (Type III Short) optical setting**													
	.5R	5R (Type III Medium) optical setting**													
	.Q1	Q1 (Type III Short) optical setting**													
	.R3	R3 (Type III Medium) optical setting**													
	.A2	A2 (Type III Medium) optical setting**													
	.R2	R2 (Type III Medium) optical setting**													
	.A4	A4 (Type IV Medium) optical setting**													
	Code	Lens (Option)													
	.G	Glass lens													
	Code	Version (Option)													
	.PC	Polycarbonate lens**													
	Code	Fixing Method (required)													
	.PT1	Post top 76/60mm only													
	.PT2	Post top 60mm only													
	.SE1	34/42mm side entry mounting (using internal reducer)													
	.SE2	60mm side entry mounting only													
	.SE3	34/42mm side entry mounting													
	Code	Colour (required)													
	.C1	White (RAL9016)													
	.C4	Graphite (RAL7011)													
	.C6	Grey (RAL7035)													
	.C7	Black (RAL9005)													
	.C9	Metallic Silver (RAL9006)													
	.RAL****	RAL Colour (Customer choice)													
	Code	Paint Finish (option)													
	.C	Enhanced Paint Finish													
	Code	Auxiliary Circuits (option)													
	.CII	Class II													
	Code	Photocell (option)													
	.T1	With NEMA socket. (To accept standard NEMA Photocell, available from Holophane).													
	.T5***	Complete with 5-pin dimming NEMA ANSI C136.41 socket													
	.T7***	Complete with 7-pin dimming NEMA ANSI C136.41 socket													
	.T5T***	Complete with 5-pin dimming NEMA ANSI C136.41 socket with weather proof locking top													
	.T7T***	Complete with 7-pin dimming NEMA ANSI C136.41 socket with weather proof locking top													
	.TSZ*	Complete with miniature 70 lux factory fitted photocell. (Zodion SS12)													
	.TSZA*	Complete with miniature 55 lux factory fitted photocell. (Zodion SS12A)													
	.TSZB*	Complete with miniature 35 lux factory fitted photocell. (Zodion SS12B)													
	Code	Dimming Outputs (option)													
	.LRD	DALI electronic control gear													
	.LRT56	Pre-set to dim to 50% between 12am to 6am													
	.LRT66	Pre-set to dim to 60% between 12am to 6am													
	.LRT76	Pre-set to dim to 70% between 12am to 6am													
	.LRT*****	Dimming as per customer requirements													
	Code	Control Gear (option)													
	.CL7	Programmed to deliver 70% of the initial lumens over life of luminaire.													
	.CL8	Programmed to deliver 80% of the initial lumens over life of luminaire.													
	.CL9	Programmed to deliver 90% of the initial lumens over life of luminaire.													
	.CL****	Customer specified programming													
	Code	Voltage (option)													
	.C-PROTEC	With 10kV / 10kA surge protection													
	Code	Flying Lead (option)													
	.FL431 to	4 metres of 1.5mm <sup>2</sup> 3 core single cable "flex"													
	.FL1431	14 metres of 1.5mm <sup>2</sup> 3 core single cable "flex"													
	.FL432 to	4 metres of 1.5mm <sup>2</sup> 3 core double cable "flex"													
	.FL1432	14 metres of 1.5mm <sup>2</sup> 3 core double cable "flex"													
	.FL451 to	4 metres of 1.5mm <sup>2</sup> 5 core single cable "flex"													
	.FL1451	14 metres of 1.5mm <sup>2</sup> 5 core single cable "flex"													
	.FL4312 to	4 metres of 2.5mm <sup>2</sup> 3 core single cable "flex"													
	.FL14312	14 metres of 2.5mm <sup>2</sup> 3 core single cable "flex"													
	.FL4322 to	4 metres of 2.5mm <sup>2</sup> 3 core double cable "flex"													
	.FL14322	14 metres of 2.5mm <sup>2</sup> 3 core double cable "flex"													
	Code	Cable Type (option)													
	AR	Arctic cable													
	Code	Label (option)													
	.GR	Green													
	.BL	Blue													
	.BK	Black													
	.RE	Red													
	.YE	Yellow													
	.WH	White													
	Code	Suspension (option)													
	.ST	Stay arm (for luminaire door)													
	Code	Wattage (required)****													
	.W006 to	6W													
	.W060	60W													
SLI	.1	.LA014	.AY	.G	.PC	.PT1	.C1	.C	.CII	.T1	.CL7	.FL431	.GR	.ST	.W006

Replace X with  
3 for 3000K or  
4 for 4000K



suitable photocell/node  
supplied by others

max length  
catered for

Example

Notes: \* Only available with Series 1. \*\* Only available with Series 2. \*\*\* Must be configured with .LRD. \*\*\*\* Wattage range is determined by the lumen package selected. † Not available with CII. Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.



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