



TL

★ starbeam

**TL** Thorlux  
Lighting



attractive  
...in many ways



A range of power levels, two optical distribution types and two body sizes provide every option necessary for car park, general amenity and road lighting applications.

The new Starbeam range of precision engineered LED area floodlights and streetlights takes external lighting to a new dimension in terms of efficiency (up to 109 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.



Starbeam uses high power white LEDs mounted to low thermal resistant aluminium clad purpose designed circuit boards.

As standard, the Thorlux designed and manufactured LED circuit boards contain over-voltage protection diodes and individual LED protection so that if a single LED, or solder joint fails, other LEDs will continue to operate. These thermally efficient LED circuit boards coupled with potted, robust, exceptionally efficient, long life electronic LED drivers, provide a 100,000 hour system life.

Individual sophisticated acrylic lenses direct the light downwards where it is needed for increased uniformity, for either area or roadway distribution.

Starbeam is fitted with a UV stabilised polycarbonate cover providing mechanical protection for the LEDs. The IP66 enclosure excludes water, dust, dirt and insects maintaining optical efficiency throughout the product's lifetime.



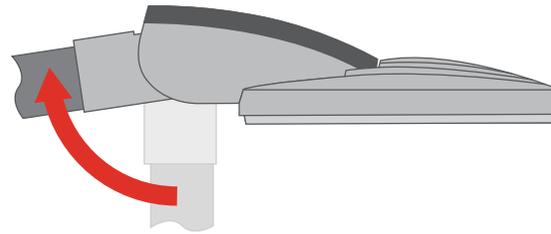


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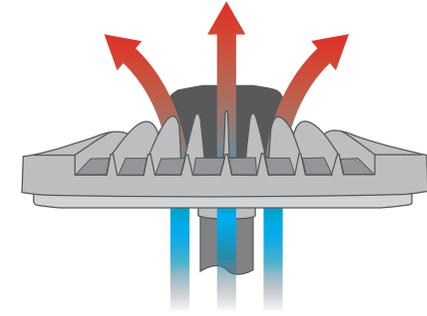
“Free draining” curved heat sink eliminates ponding of fluids

2

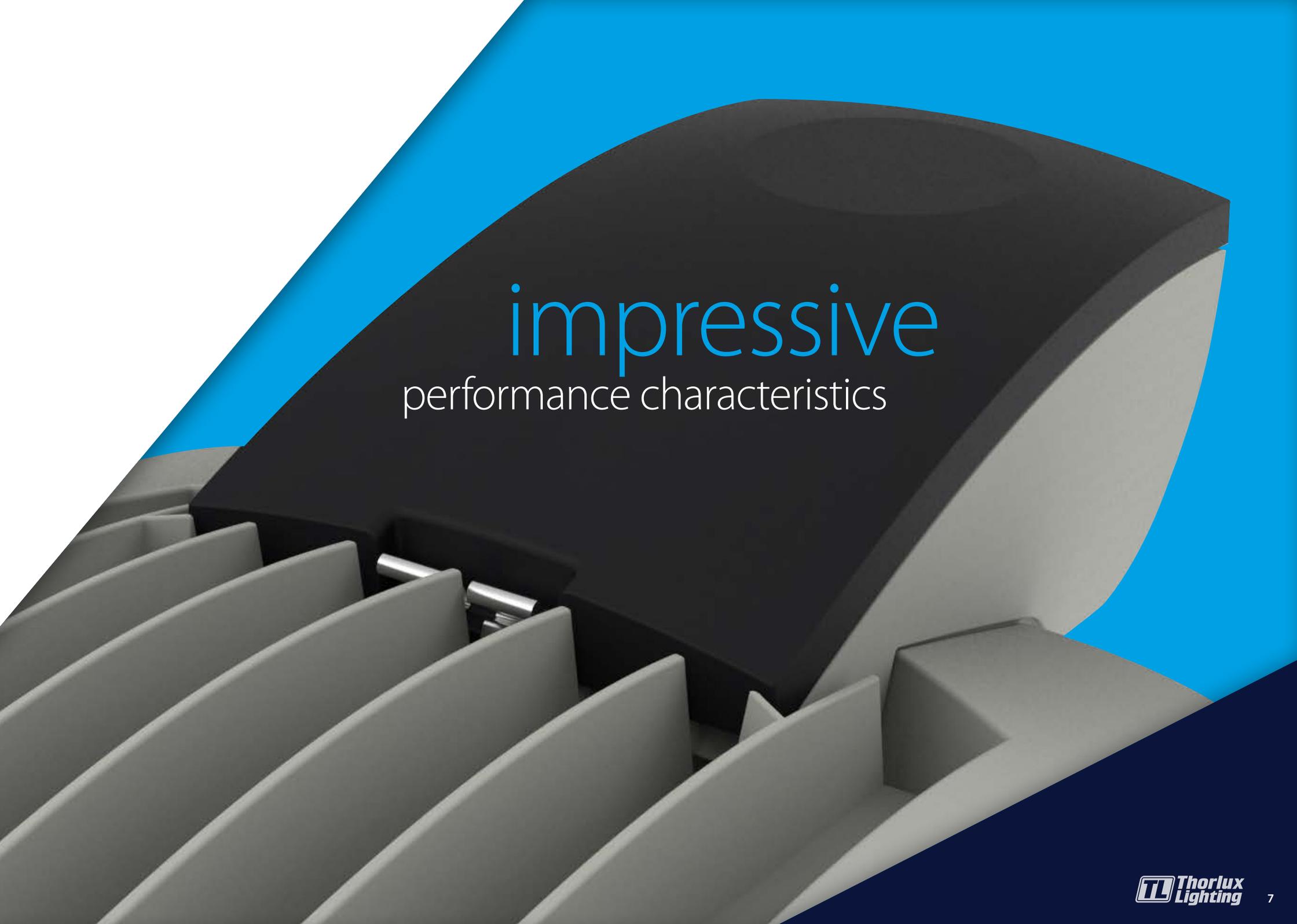


Integral adjustable mounting spigot allows easy retrofit on to a wide range of columns and brackets whilst maintaining 0° elevation

3

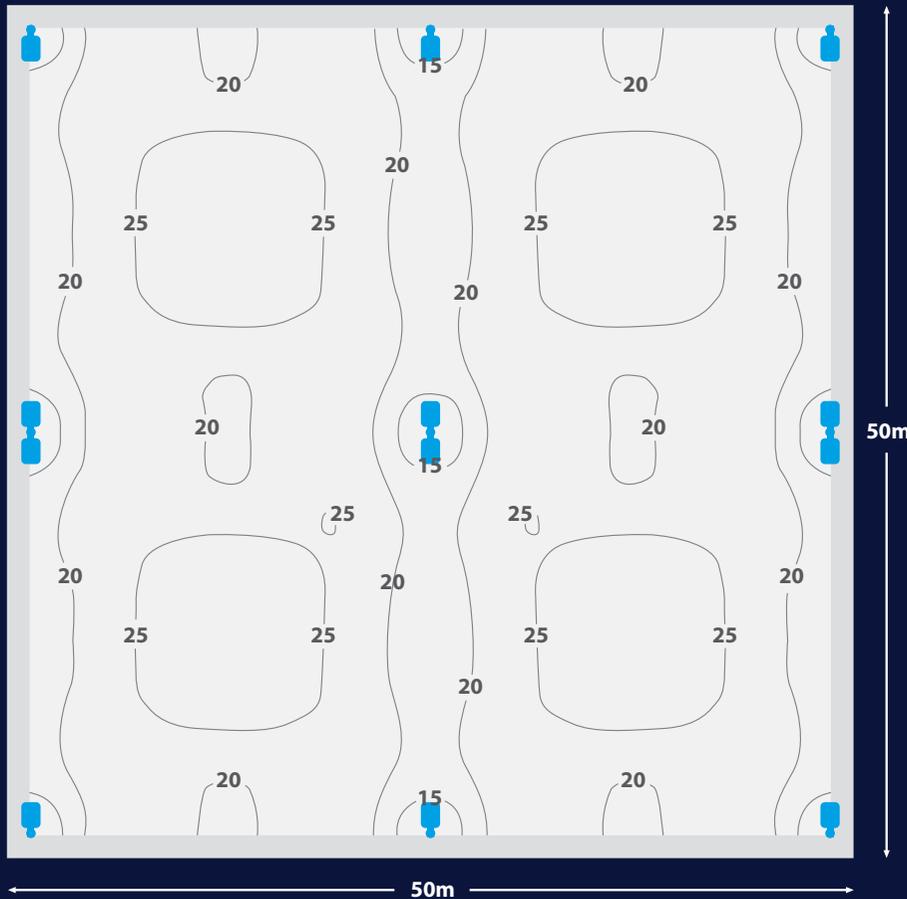


Heat dissipation fins combined with air flow between heat sink and gear compartment extends control gear lifetime



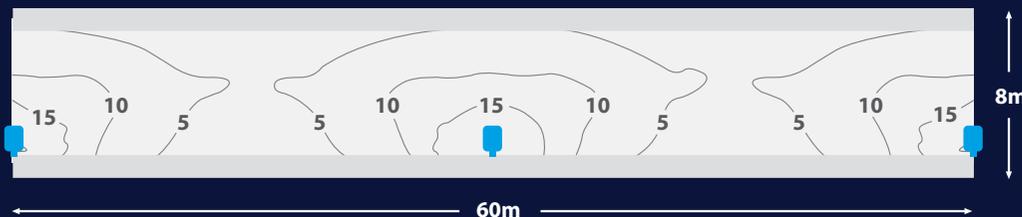
impressive  
performance characteristics

# ★ typical spacing guide



## area distribution

88W LED / 8m mounting height / 25 x 25m spacing -  
Average illuminance = 23 lux / Uniformity = 0.54



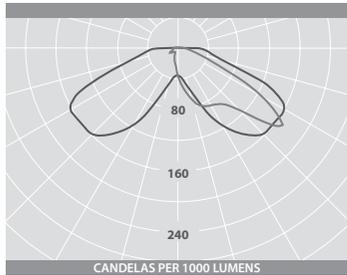
## roadway distribution

31W LED / 6m mounting height / 30m spacing -  
Average illuminance = 7.5 lux / Uniformity = 0.44



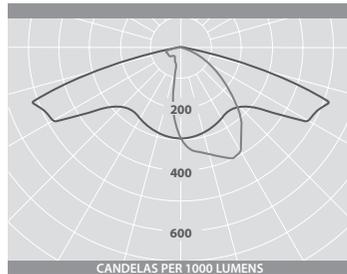
### PHOTOMETRIC GUIDE

#### AREA DISTRIBUTION



Luminaire Lumen Output  
 31W = 3700lm  
 62W = 6700lm  
 88W = 9800lm  
 123W = 13400lm

#### ROADWAY DISTRIBUTION



Luminaire Lumen Output  
 31W = 3700lm  
 62W = 6700lm  
 88W = 9800lm  
 123W = 13400lm

### OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	SB 15800LPC

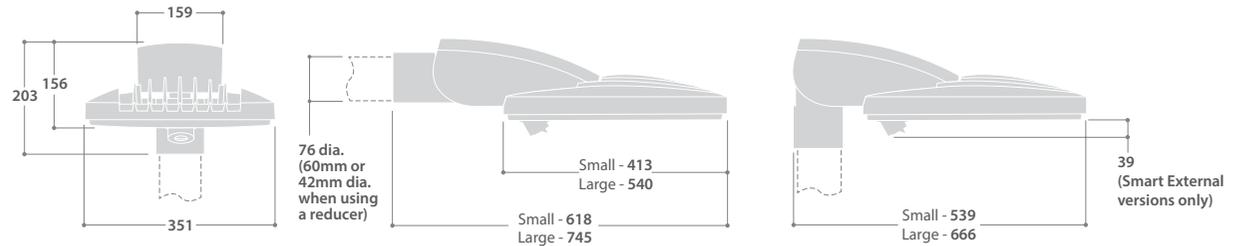
### LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF
70+	5700	100K	P	90	R	>0.9

**109**  
LL/CW

For LED characteristics explanation see [www.thorlux.com/led-characteristics](http://www.thorlux.com/led-characteristics)

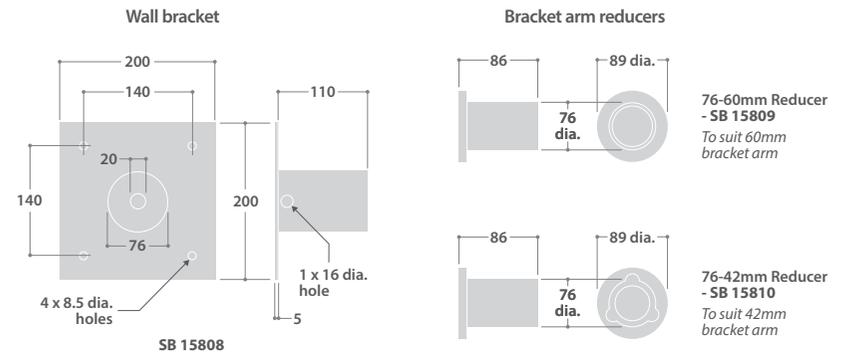
### DIMENSIONS



All dimensions in millimetres

### ACCESSORIES

DESCRIPTION	CAT. No.
Wall mounting bracket	SB 15808
76mm to 60mm reducer kit	SB 15809
76mm to 42mm reducer kit	SB 15810
76mm to 34mm reducer kit	SB 16358
89mm to 76mm reducer kit	POT 89-76
114mm to 76mm reducer kit	POT 114-76



For further bracket options please contact our Technical Department

## SPECIFICATION

- Die-cast aluminium body and gear compartment finished full polyester RAL9006
- Die-cast aluminium, fast release gear compartment lid finished full 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
- AutoTest version available. Can be connected to Scanlight using DALI connections
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- Wireless Smart TR versions remove the need for control cabling. Ideal for retro-fit solutions
- Pole top 76mm as standard, adjustable through 90°
- Wall mounting bracket accessory
- Wide range of pole mounting options (see page 14)
- Photocell option
- Fitted with 5700K LEDs

## RANGE

	LED	AREA DISTRIBUTION	ROADWAY DISTRIBUTION	APPROX. kg	CIRCUIT
SMART EXTERNAL	<b>Small Version</b>				
	31W ▲	<b>SB 16129</b>	<b>SB 16130</b>	8.1	D/TR
	62W ▲	<b>SB 16131</b>	<b>SB 16132</b>	8.1	D/TR
	<b>Large Version</b>				
	88W ▲	<b>SB 16133</b>	<b>SB 16134</b>	9.3	D/TR
	123W ■	<b>SB 16135</b>	<b>SB 16136</b>	9.3	D/TR
STANDARD	<b>Small Version</b>				
	31W ▲	<b>SB 15800L</b>	<b>SB 15801L</b>	8.0	
	62W ▲	<b>SB 15802L</b>	<b>SB 15803L</b>	8.0	
	<b>Large Version</b>				
	88W ▲	<b>SB 15804L</b>	<b>SB 15805L</b>	9.2	
	123W ■	<b>SB 15806L</b>	<b>SB 15807L</b>	9.2	

CIRCUIT TYPE - suffix catalogue number with:

**SMART** D - Smart / TR - Smart TR (Smart with wireless transceiver)

**STANDARD** L - non-dimming (LED) e.g. **SB 16129D** etc.

**EMERGENCY VERSION** (31W & 62W non-Smart versions only) - prefix catalogue number with:  
**TSB - AutoTest** e.g. **TSB 16129D** etc. (can be connected to Scanlight AT using DALI connections)  
 AutoTest versions add 0.3kg to weights listed.

▲ Suitable for ambient temperatures up to 55°C / ■ Suitable for ambient temperatures up to 45°C

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



Smart External version

Columns p12 / Mounting Options p14

## 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

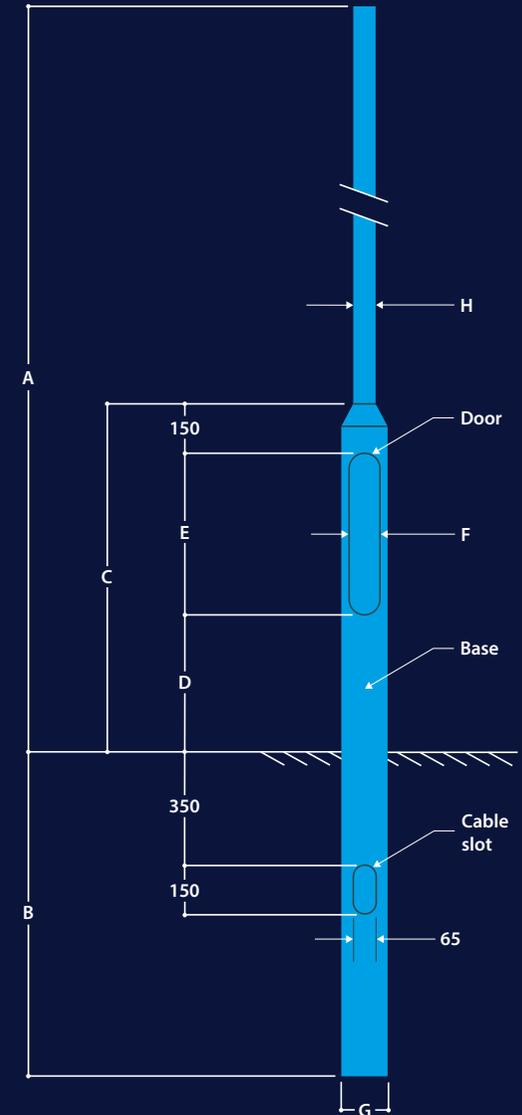
## UK DELIVERY

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 A	CAT. No.	PLANTING DEPTH B	BASE HEIGHT C	DOOR HEIGHT D	DOOR DIMENSIONS E F		BASE DIAMETER G	SHAFT DIAMETER H	APPROX. kg	BASEBOARD SIZE
<b>Single and Twin Starbeam Standard Columns</b>										
4m	<b>FC4</b>	800	1075	425	500	100	140	76	33	89 (w) x 500 (h)
5m	<b>FC5</b>	800	1075	425	500	100	140	76	40	89 (w) x 500 (h)
6m	<b>FC6</b>	1000	1075	425	500	100	140	76	44	89 (w) x 500 (h)
8m	<b>FC8</b>	1200	1250	600	600	115	168	114 ■	100	89 (w) x 600 (h)
10m	<b>FC10</b>	1500	1250	600	600	115	168	114 ■	142	89 (w) x 600 (h)
<b>Triple and Quad Starbeam Medium Duty Columns</b>										
4m	<b>FC4/JUNO</b>	1200	1250	600	600	115	168	89	60	89 (w) x 500 (h)
5m	<b>FC5/JUNO</b>	1200	1250	600	600	115	168	89	64	89 (w) x 500 (h)
6m	<b>FC6/JUNO</b>	1200	1250	600	600	115	168	89	68	89 (w) x 500 (h)
8m	<b>FC8</b>	1200	1250	600	600	115	168	114 ■	100	89 (w) x 600 (h)
10m	<b>FC10</b>	1500	1250	600	600	115	168	114 ■	142	89 (w) x 600 (h)

■ Reduced at top to 101mm to accept accessories



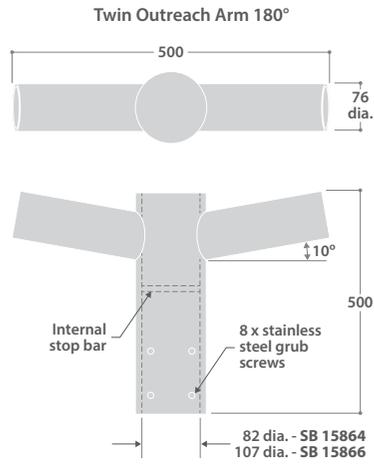
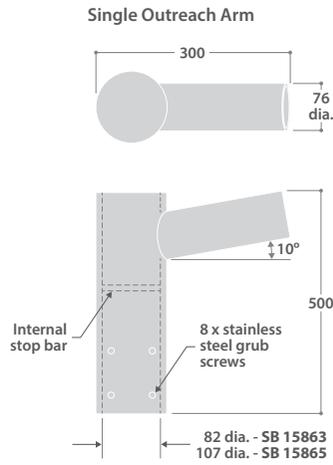
flexibility  
without compromise

# ★ mounting options

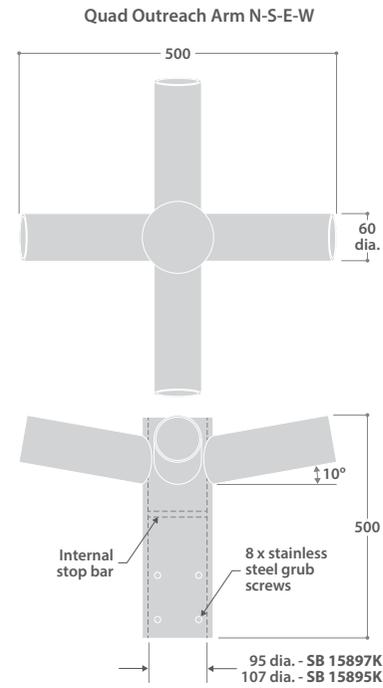
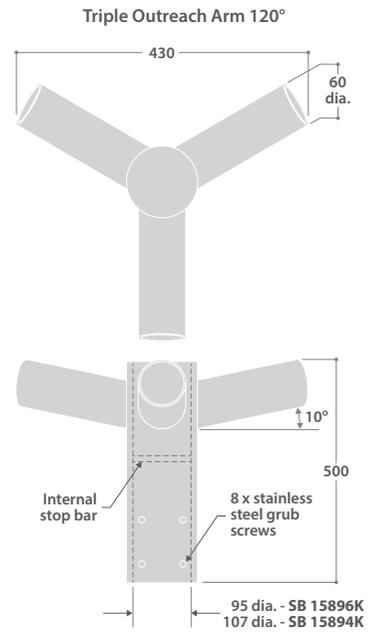
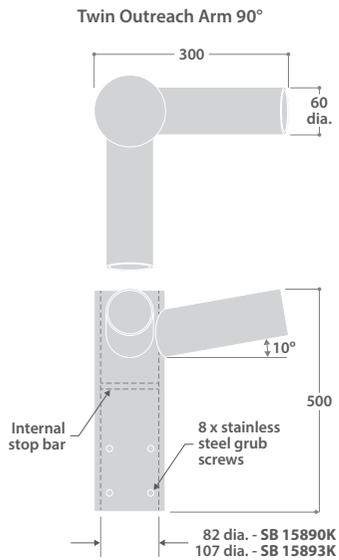
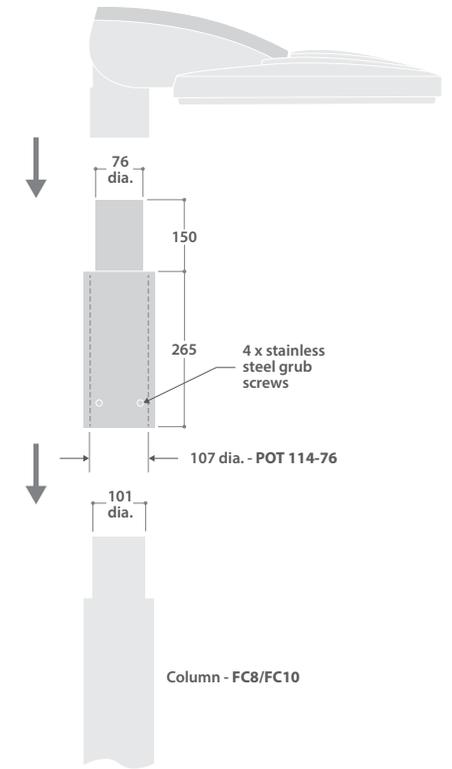
## ORDERING INFORMATION

	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

**MOUNTING OPTIONS**



**COLUMN ADAPTORS (for 8m/10m columns)**



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)

For further mounting options please contact our Technical Department



**Thorlux Lighting**  
Merse Road  
North Moons Moat  
Redditch  
Worcestershire  
B98 9HH  
England

Tel: +44 (0)1527 583200  
Fax: +44 (0)1527 584177  
e-mail: [thorlux@thorlux.co.uk](mailto:thorlux@thorlux.co.uk)  
Web: [www.thorlux.com](http://www.thorlux.com)

**Direct UK Sales Line: 01527 583222**

**Thorlux Lighting Ireland**  
1st Floor, Unit H3  
Centrepont Business Park  
Oak Road  
Dublin 12

Tel: +353 (0)1 460 4608  
Fax: +353 (0)1 460 4609  
e-mail: [thorlux@thorlux.ie](mailto:thorlux@thorlux.ie)  
Web: [www.thorlux.ie](http://www.thorlux.ie)

**Thorlux Lighting Germany**  
Kleiststrasse 17a  
85386 Eching (b. München)  
Deutschland

Tel: +49 (0)89 31881794  
Fax: +49 (0)89 31881795  
e-mail: [thorlux@thorlux.de](mailto:thorlux@thorlux.de)  
Web: [www.thorlux.de](http://www.thorlux.de)

**Thorlux Lighting Australasia Pty Ltd.**  
7-9 Melrose Court  
Tullamarine VIC 3043

Tel: +61 (0)3 9338 1891  
Fax: +61 (0)3 9330 0130  
e-mail: [thorlux@thorlux.com.au](mailto:thorlux@thorlux.com.au)  
Web: [www.thorlux.com.au](http://www.thorlux.com.au)  
Sales Support All Capitals

**Registered Office**  
15 Industrial Avenue Wacol 4076  
Queensland Australia  
Registered No. ACN 139 400 507

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**Thorlux Carbon Offsetting Project:**  
[www.thorlux.com/trees](http://www.thorlux.com/trees)

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