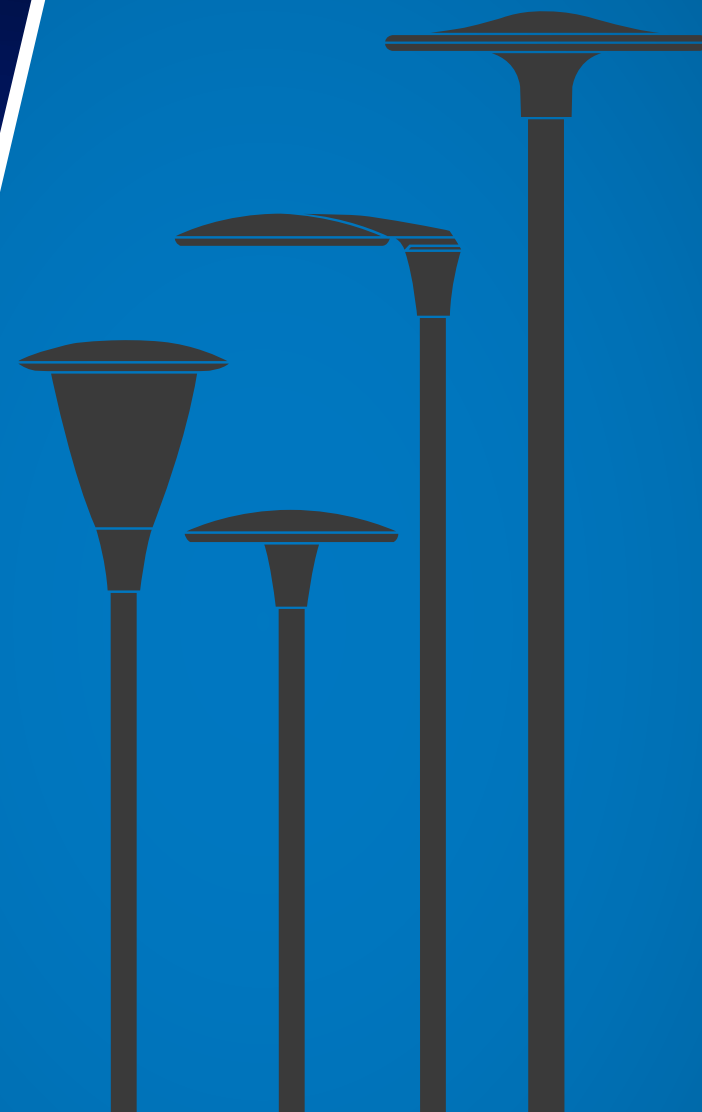


JUNO

HIGH PERFORMANCE RANGE
OF POLE TOP LUMINAIRES





JUNO RANGE

The Juno range consists of four pole top luminaires designed to bring harmony to a variety of car park and general amenity applications.

Juno A - Centrally mounted luminaire with 360° light distribution.

Juno B - Centrally mounted luminaire with symmetrical or asymmetrical light distribution and zero upward light.

Juno C - Offset mounted luminaire with forward light distribution and zero upward light.

Juno D - High output, centrally mounted luminaire with symmetrical or asymmetrical light distribution and zero upward light for higher mounting heights.

Dedicated acrylic lenses for each individual LED provide enhanced optical control for uniform light distribution. Long life control gear ensures each luminaire in the Juno range has a service life of 100,000 hours with efficiencies as high as 141.2 LL/CW.

JUNO (A)



JUNO (C)



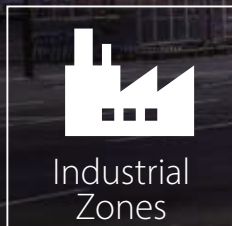
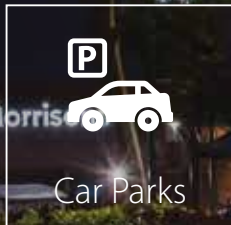
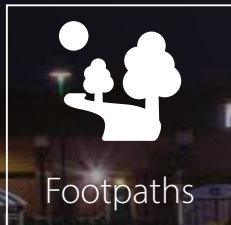
JUNO (B)



JUNO (D)



LIGHTING SOLUTIONS FOR A WIDE VARIETY OF APPLICATIONS



OPTIMISED PHOTOMETRIC PERFORMANCE

The Juno A and C offers photometric performance which is optimised for use up to 6m where column height restrictions apply.

The Juno B is optimised for up to 10m and Juno D for 12m where fewer high performance luminaires may be used.

A

UP TO
6m ↑

UP TO
6,825
LUMENS

B

UP TO
10m ↑

UP TO
13,560
LUMENS

C

UP TO
6m ↑

UP TO
9,155
LUMENS

D

UP TO
12m ↑

UP TO
47,575
LUMENS

CAR PARK EXAMPLE

JUNO B

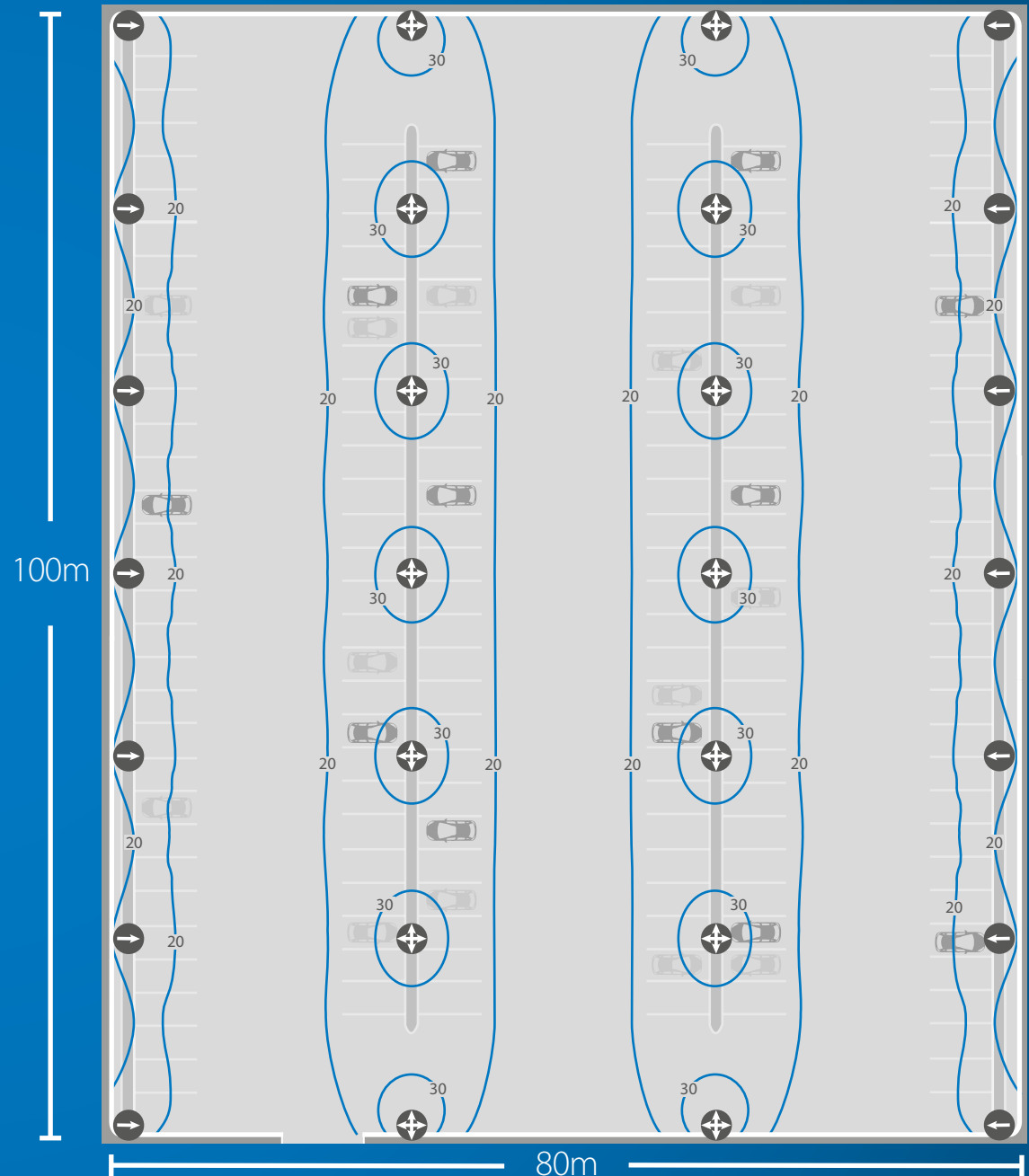
- ➡ Juno B 78W Symmetric
- ➡ Juno B 37W Asymmetric

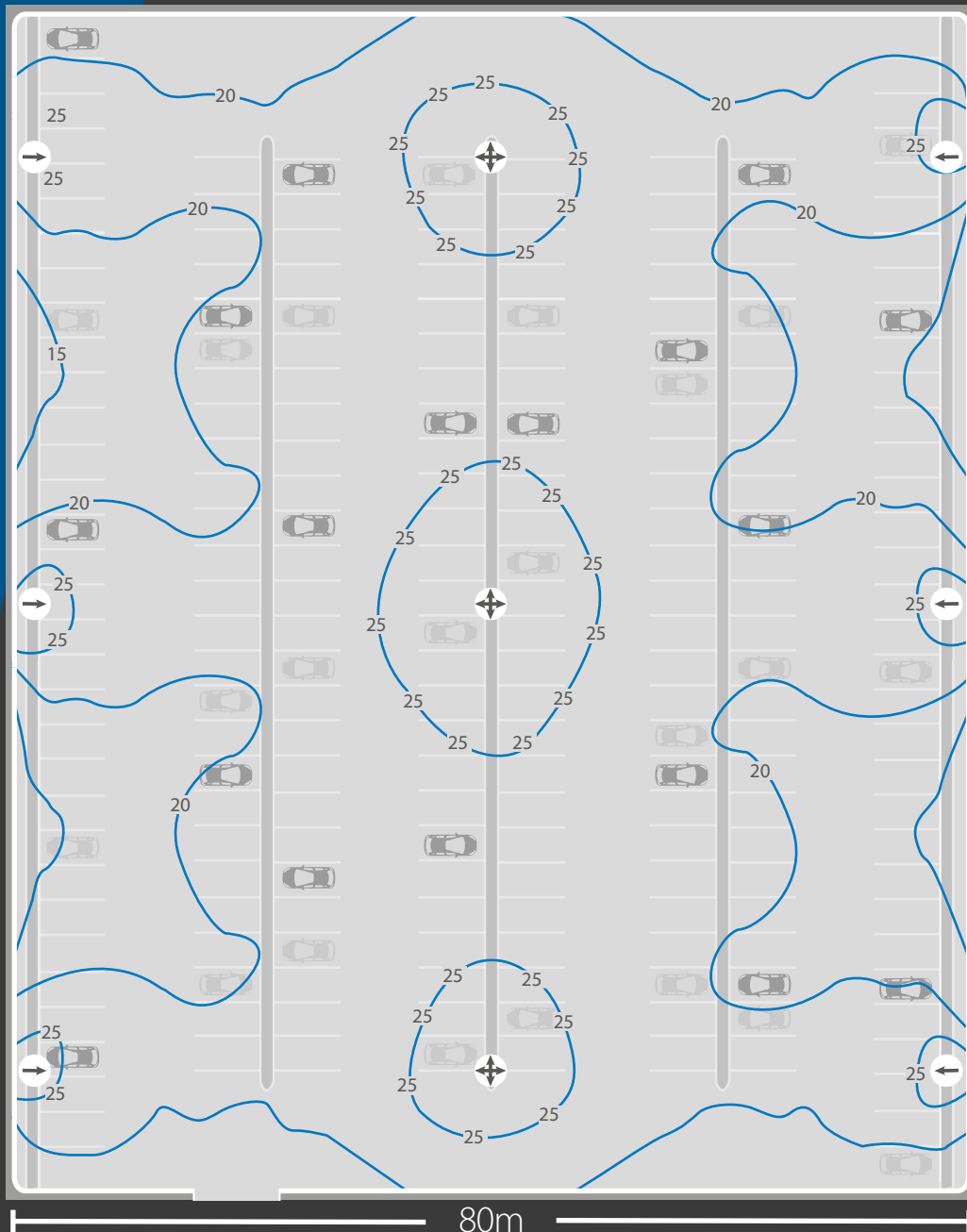
6m mounting height

Average illuminance = 21 lux

Uniformity = 0.56

FIGURES ARE BASED ON INITIAL LUMENS





CAR PARK EXAMPLE

JUNO D

Juno D Symmetric 326W

Juno D Asymmetric 166W

12m mounting height

40 x 40m spacing

Average illuminance = 22 lux

Uniformity = 0.62

FIGURES ARE BASED ON INITIAL LUMENS



A

B



C

D

LOWER MOUNTING HEIGHTS

Photometrically optimised for lower mounting heights.

A & C
UP TO
6m

B
UP TO
10m

JUNO A, B & C FEATURES

IMPROVED UNIFORMITY

Excellent photometric performance for improved uniformity at wider spacings.

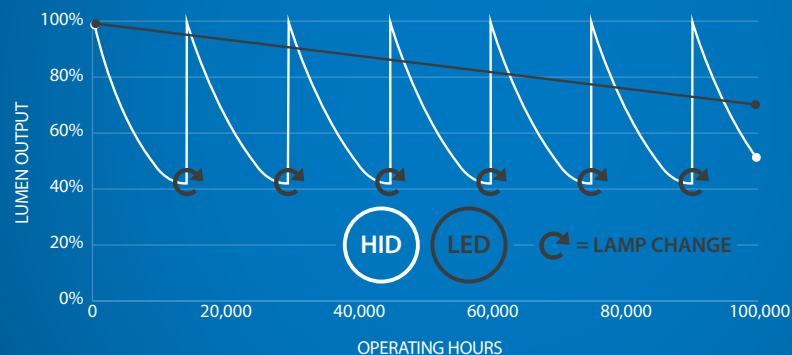
UP TO 30m

JUNO A, B, C & D FEATURES



A LENS FOR EVERY LED

A dedicated lens for each LED focuses the light, providing supremely efficient optical performance and excellent scheme uniformity.



THE IDEAL LUMINAIRE WHEN EFFICIENCY IS KEY

100,000 hour LED life reduces maintenance costs. Improved lumen depreciation compared to traditional discharge lamps.

JUNO B & D FEATURES



SMOOTH PROFILE

Designed with smooth surfaces, the curved profile eliminates accumulation of dirt and 'ponding' of fluids.



LED FAILURE COMPENSATION

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.

For more information visit www.thorlux.com/led-guide



ASYMMETRIC DISTRIBUTION

Asymmetric versions ensure light is distributed only where needed, increasing efficiency and reducing obtrusive light.



SYMMETRIC DISTRIBUTION

Symmetric versions optimise the light distribution for use in car parks and ensure wide spacings are possible.



TAKE A LOOK INSIDE JUNO D

CONTROL GEAR

Fully replaceable control gear. All electronic components have the same rated life as the LEDs.

COLUMNS

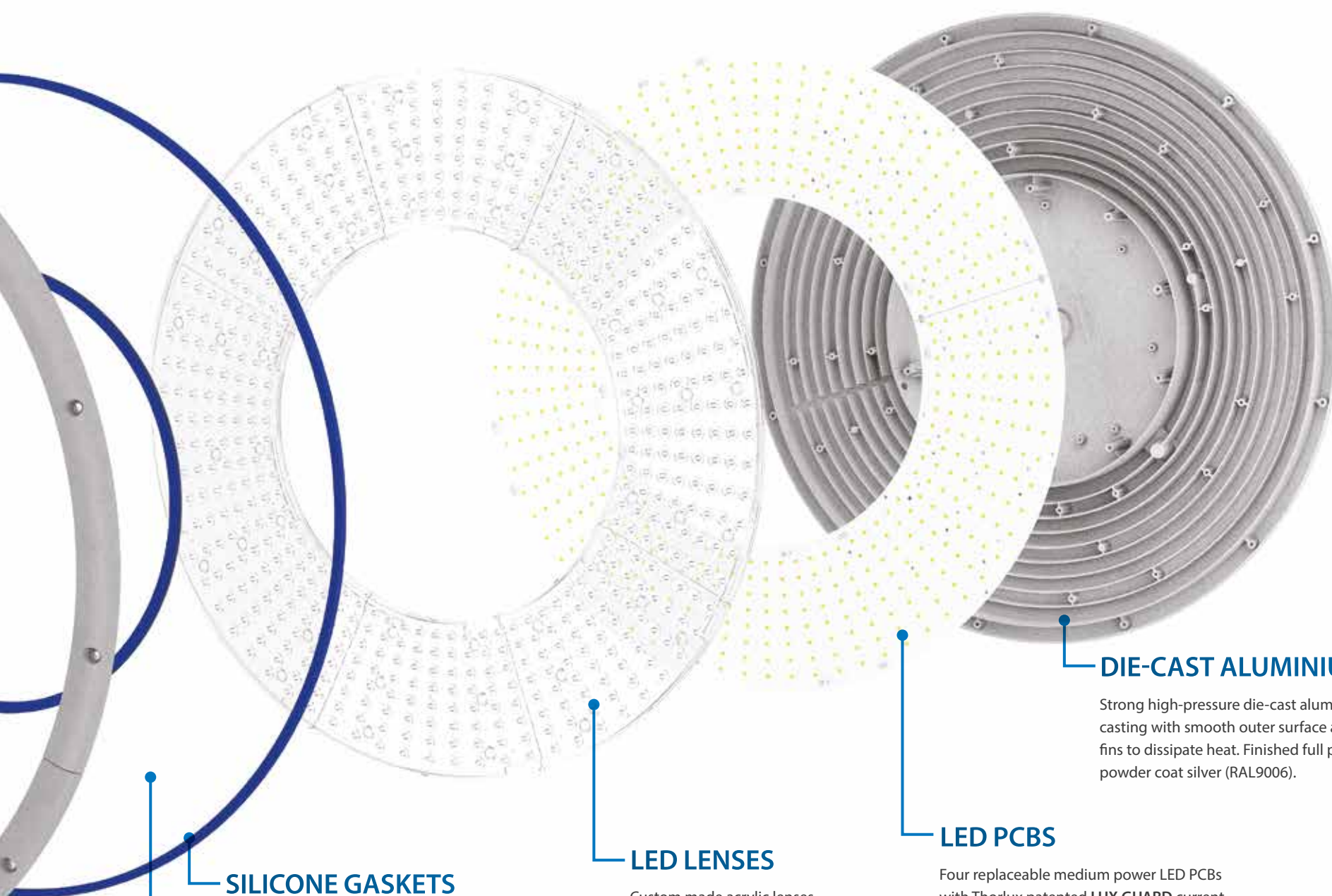
Suitable for 101mm diameter columns. Compatible with 76mm and 89mm diameter columns using optional reducers.

COLUMN MOUNT CASTING

Strong high-pressure die-cast aluminium casting with centralising ribs and six fixing points for secure central mounting. Finished full polyester powder coat silver (RAL9006).

COVER CLAMPS

Strong high-pressure die-cast aluminium castings provide uniform compression of the sealing gasket for excellent IP66 seal, finished full polyester powder coat silver (RAL9006).



SILICONE GASKETS

Long life thermally stable silicone gaskets maintain the IP rating for the life of the luminaire.

4MM THICK COVER

4mm thick UV stabilised polycarbonate cover rated IK10.

LED LENSES

Custom made acrylic lenses.
A dedicated lens for each LED ensures the most efficient distribution of light.

LED PCBs

Four replaceable medium power LED PCBs with Thorlux patented **LUX GUARD** current sharing technology.

DIE-CAST ALUMINIUM BODY

Strong high-pressure die-cast aluminium top casting with smooth outer surface and internal fins to dissipate heat. Finished full polyester powder coat silver (RAL9006).

COLUMNS

COLUMN 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

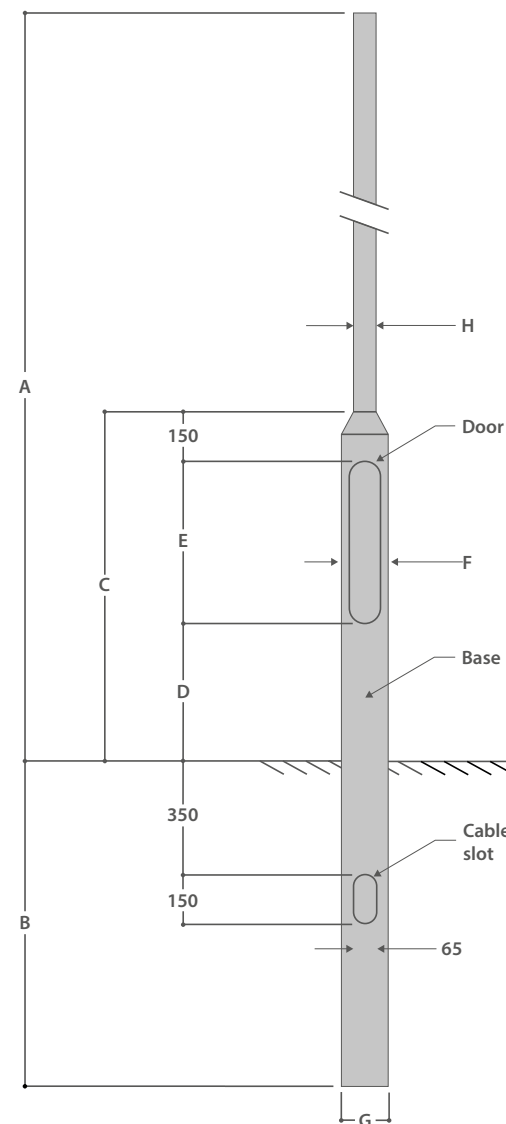
UK DELIVERY

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		
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)
12m	FC12/101	1700	1800	1000	600	115	192	140*	226	89 (w) x 600 (h)

* Reduced at the top to 101mm to accept Juno D luminaires



LED POLE TOP AMENITY LUMINAIRES

IP66 IK10 UK CA CE LED

WINDAGE - 0.14m²

SPECIFICATION

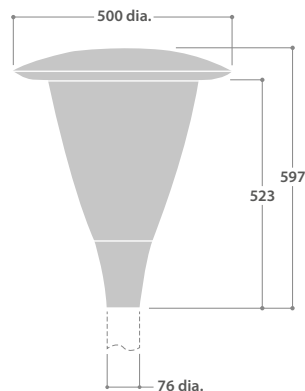
- Strong high-pressure die-cast aluminium top and column mount finished full polyester powder coat silver (RAL9006)
- High-impact UV stabilised clear polycarbonate cover rated IK10
- Integral high efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Fits 76mm columns as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

LED CHARACTERISTICS

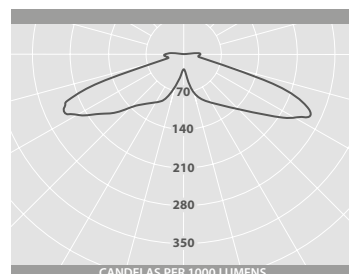
CRI	70+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L90/B10
PROTECTION	-
DRIVER EFFICIENCY	>85%
REPLACEABLE	YES
POWER FACTOR	>0.90
LL/CW	120.0

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

DIMENSIONS



PHOTOMETRIC GUIDE



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

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

JUNO A



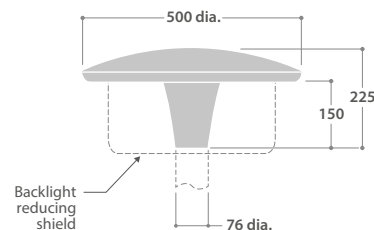
JUNO B



Zero Upward Light

Help reduce light pollution and protect the night sky by selecting zero upward light luminaires

DIMENSIONS



RANGE

LED	SYMMETRIC DISTRIBUTION	ASYMMETRIC DISTRIBUTION	APPROX. kg
37W	JUN 19200L	JUN 19202L	9.4
78W	JUN 19201L	JUN 19203L	9.4
101W	JUN 19658L	JUN 19659L	9.4

CIRCUIT TYPE - L - non-dimming (LED)

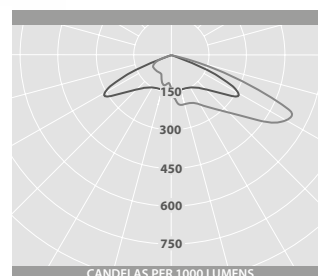
OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	JUN 19200PC

ACCESSORIES

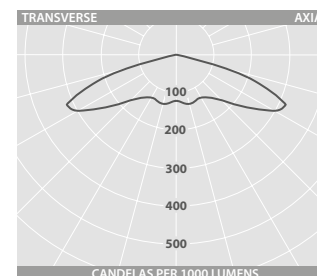
DESCRIPTION	CAT. No.
Backlight reducing shield kit	JUN 19204
Column adaptor to fit on 101mm diameter column	POT 101-76

PHOTOMETRIC GUIDE



ASYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
37W = 5380lm
78W = 10420lm
101W = 12970lm



SYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
37W = 5725lm
78W = 11015lm
101W = 13560lm

HIGH PERFORMANCE LED POLE TOP LUMINAIRES



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 136.3

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

LED AREA FLOODLIGHTS

IP66 IK10 UK CA 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

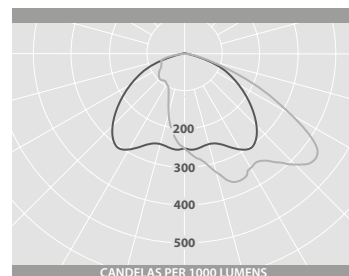
LL/CW 104.3

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



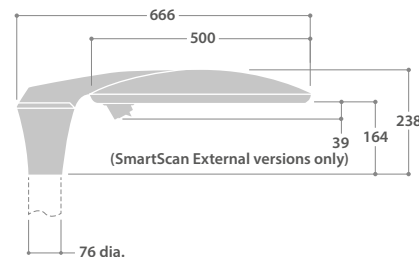
Smart External version

PHOTOMETRIC GUIDE



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

DIMENSIONS



SmartScan Configurations



Find out more at www.thorlux.com/smartsan

JUNO C



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)

Zero Upward Light



Help reduce light pollution and protect the night sky by selecting zero upward light luminaires

OPTIONS

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

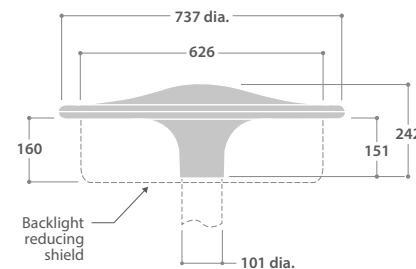
JUNO D



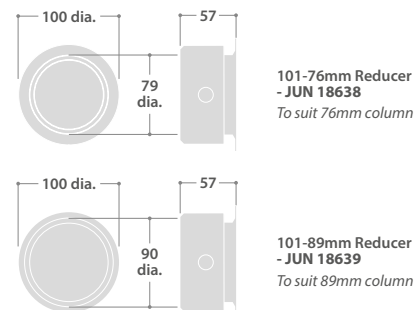
Zero Upward Light ✓

Help reduce light pollution and protect the night sky by selecting zero upward light luminaires

DIMENSIONS



REDUCERS



HIGH PERFORMANCE LED POLE TOP LUMINAIRES



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
- Smooth wipe clean surfaces, no dust traps
- Integral high efficiency drivers
- Extremely efficient and long system life up to 100,000 hours
- Acrylic high efficiency LED lenses
- Fits 101mm columns as standard
- Fitted with 12m flying lead
- Photocell option
- Fitted with 4000K LEDs

LED CHARACTERISTICS

CRI	70+
COLOUR TEMPERATURE	4000K
RATED LIFE (HOURS)	100K - L80/B10
PROTECTION	LUX GUARD
DRIVER EFFICIENCY	90%
REPLACEABLE	YES
POWER FACTOR	>0.90
LL/CW	141.2

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

RANGE

LED	SYMMETRIC DISTRIBUTION	ASYMMETRIC DISTRIBUTION	APPROX. kg
99W		JUN 18634L	17.0
132W		JUN 18635L	17.0
166W		JUN 18636L	17.0
177W	JUN 18631L		17.0
246W	JUN 18632L		17.0
326W	JUN 18633L		17.0

CIRCUIT TYPE - L - non-dimming (LED)

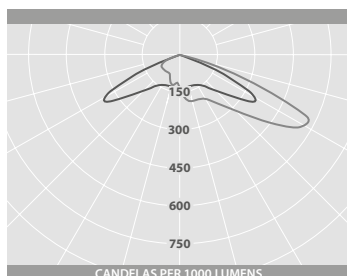
OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell	PC	JUN 18631LPC

ACCESSORIES

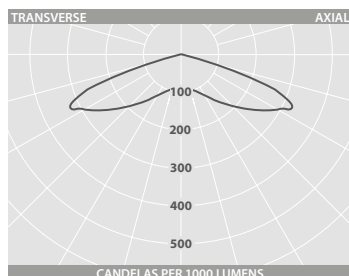
DESCRIPTION	CAT. No.
Backlight reducing shield kit	JUN 18637
101mm to 76mm reducer	JUN 18638
101mm to 89mm reducer	JUN 18639

PHOTOMETRIC GUIDE



ASYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
 99W = 13880lm
 132W = 18160lm
 166W = 22040lm



SYMMETRIC DISTRIBUTION

Luminaire Lumen Output:
 177W = 26980lm
 246W = 38265lm
 326W = 47575lm



Designers, manufacturers and suppliers
of professional lighting systems

INDUSTRIAL LUMINAIRES
COMMERCIAL LUMINAIRES
FLOODLIGHTING LUMINAIRES
ARCHITECTURAL LUMINAIRES
HEALTHCARE LUMINAIRES
HAZARDOUS AREA LUMINAIRES
RETAIL AND DISPLAY LUMINAIRES
CONTROLS AND SYSTEMS

A DIVISION OF F.W. THORPE PLC

Thorlux Carbon Offsetting Project:
www.thorlux.com/trees

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