

Starbeam

Precision-engineered area and roadway lighting

MADE IN THE UK

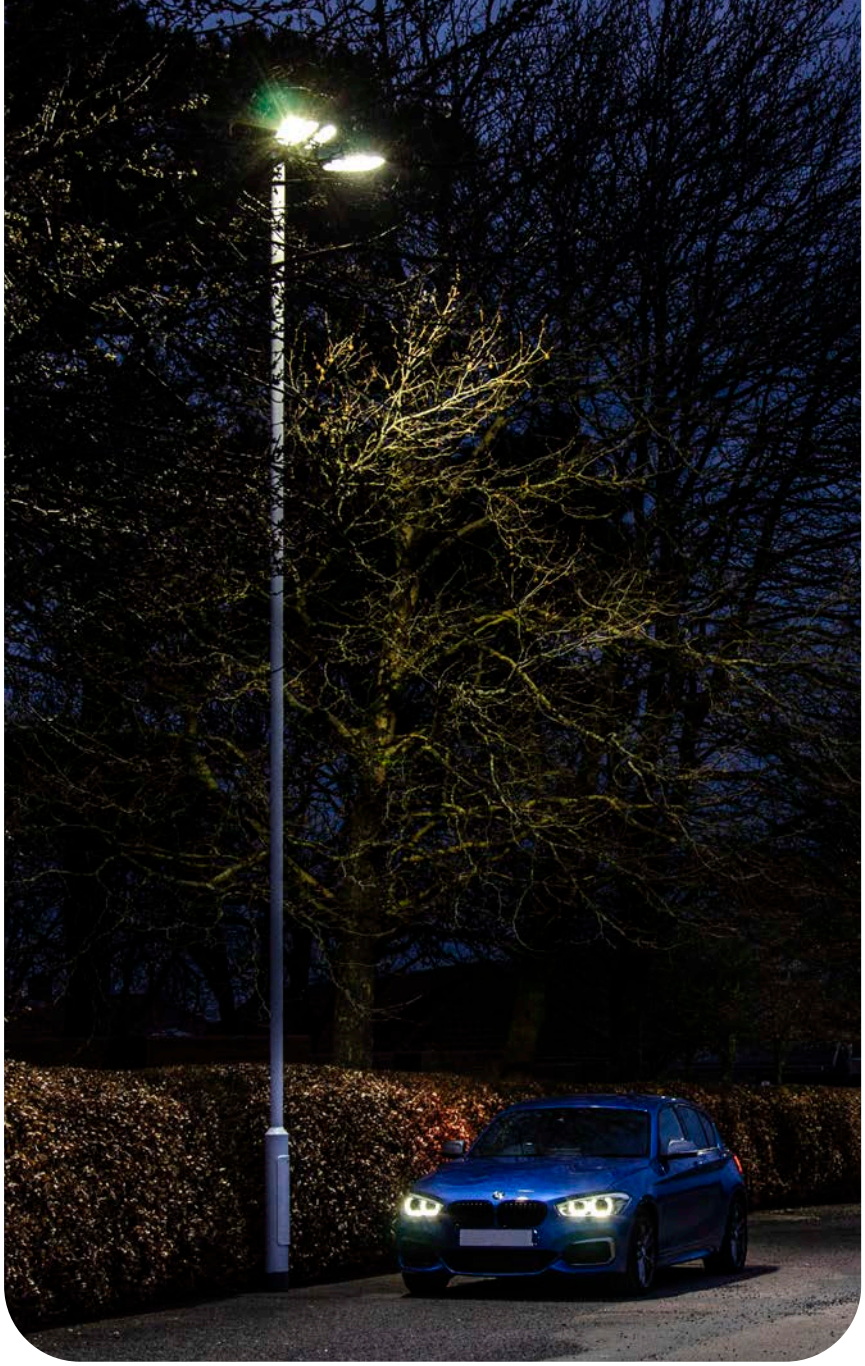
Thorlux Lighting

The next era of **pole-top illumination**

Developed after 12 years of success, the new Starbeam product range represents a new standard in area and roadway lighting.

This family provides versatility, greater efficiency, and easier installation for traffic routes and area lighting applications, embracing industry, market, and technology advancements over the past decade.

Combining state-of-the-art design, unparalleled flexibility, and exceptional efficiency, the Starbeam lanterns are an ideal solution for modern external lighting needs.





Power and precision **in every size**

Starbeam is available in six different wattages with a choice of five optical distributions for either area or roadway applications, making it highly adaptable to suit diverse lighting needs.

The body size is optimised for the wattage and light output of the luminaire, with the 213 W versions delivering an impressive 36,825 lumens for high-performance, open-area lighting applications.

The new Starbeam is highly versatile, supporting a range of colour temperatures including 2700 K and 4000 K as standard, with further colours available to special order.

To enhance light distribution control, Starbeam is available with either side, front or rear baffles.

- Amenity areas
- General roadways
- Car parks
- Service yards
- Footpaths
- Security lighting

Streamlined for **excellence**



Improved efficiency

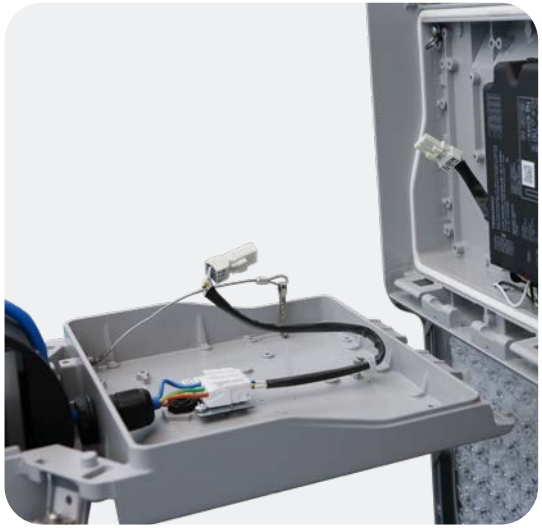
Innovative design incorporates a toughened, high transmission, flat glass cover, which improves LED efficiency and optimises light emissions.



Improved installation

The patented MountSet universal mounting mechanism eliminates the need for additional reducers or adapters, ensuring compatibility with all column and bracket types and providing a secure fit for both new and existing infrastructure.

Electrical connection is simplified by using plug-in connectors, making the process quick, easy, and hassle-free.



Improved maintenance

Starbeam ensures straightforward maintenance with its tool-free access and interchangeable heads, which hinge seamlessly into place. This design makes replacements and upgrades effortless.


Toughened, high transmission flat glass for optimal LED efficiency
Front, rear and side shield fixing points
'MountSet' (patented) universal mounting system
Marine-grade high-quality LM6 aluminium alloy body
Smooth surface reducing water/dirt accumulation
Pull-down latches for toolless access
IK08 / IP66 enclosure
Polyester powder coat achieving 1000-hour salt spray resistance

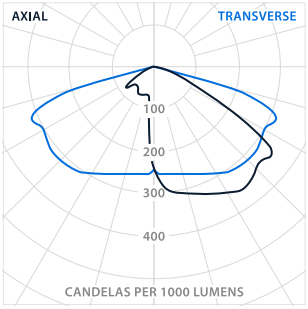
Engineered for **perfect illumination**

Optics play a crucial role in determining how light is directed and distributed.

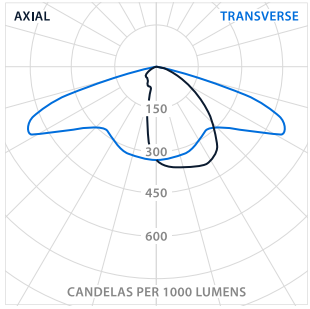
Effective direction and distribution are essential for using the light efficiently, minimising glare, and reducing overspill. This control enhances visibility on roads to improve safety for drivers and pedestrians, lowering energy consumption and limiting light pollution, and reducing the impact of stray light on neighbouring properties and the environment.

High-performing optics in the Starbeam ensure that illumination is both comfortable and helps comply with exterior lighting standards.

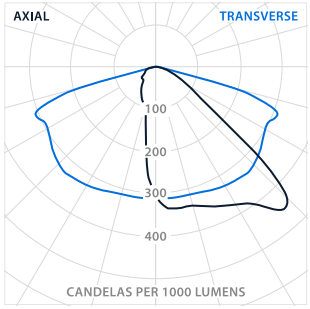
GR1 Roadway



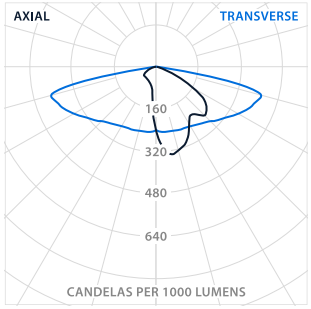
GR2 Roadway



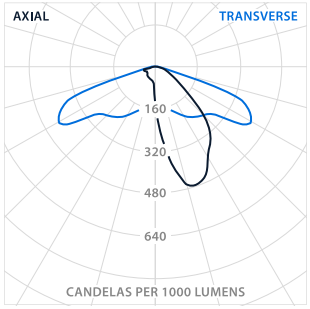
GR3 Roadway



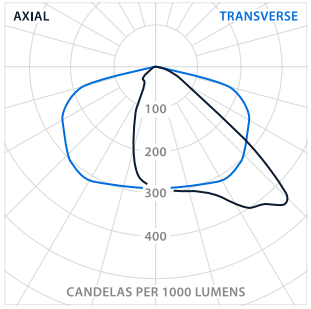
GR5 Roadway



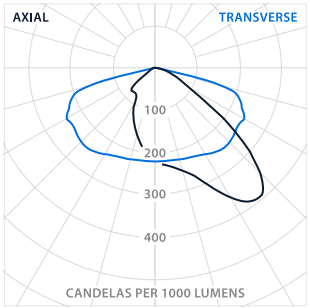
GR7 Roadway



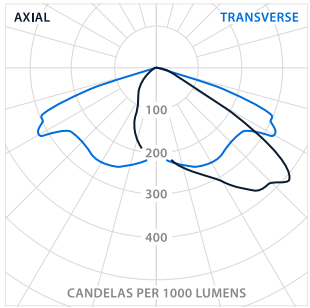
GR8 Roadway



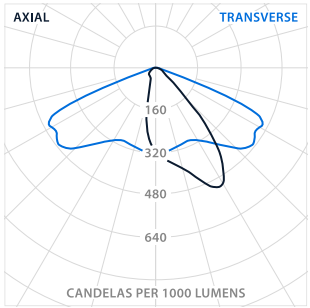
GR9 Roadway



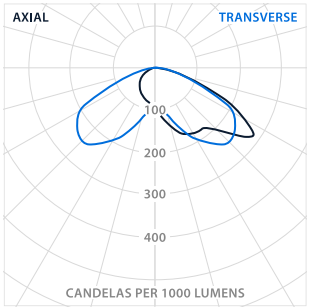
GR12 Roadway



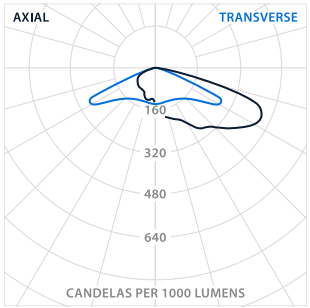
GR13 Roadway



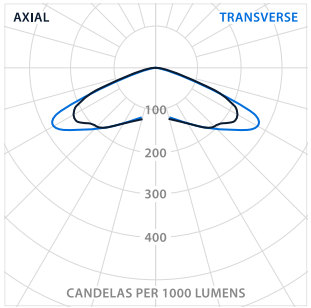
GA1 Area & GR4 Roadway



GA2 Area



GA3 Area



Designed and manufactured with precision engineering, Starbeam offers a suite of innovative features in its fixtures and fittings, ensuring unmatched reliability and longevity.



Fixings on underside only

Eliminates the risk of fluid ponding, dirt buildup, and seizing of screws.



Galvanic corrosion prevention

Ensures product longevity through dedicated isolation techniques and the elimination of dissimilar metal-to-metal contact.



Robust construction

The design eliminates perishable materials while maintaining rigid seals for a robust and weatherproof solution.



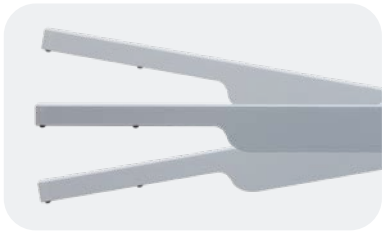
Streamlined design

Minimised protrusion reduces droop and gravitational effects. The largest version (213 W) measures less than one metre in length, including the side entry position.



Optimised weight

Reduced material content decreases the overall weight, cutting the associated headload without compromising structural integrity.



External pivot with patented MountSet

Securely fixes the total weight of the luminaire using two bolts and the rotational locking mechanism. This system ensures exceptional strength and stability even under great pressure.

A brighter future, **a darker sky**

Thorlux is committed to reducing obtrusive light and light trespass, protecting the night sky from light pollution.

Light pollution is the artificial increase in outdoor light levels caused by human activities.

Research shows that poorly selected, planned, or installed Artificial Light At Night (ALAN) can disrupt wildlife, impact human health, waste money and energy, contribute to climate change, and block our view of the universe.

By selecting models in 2700 K or lower, you are helping to reduce the effect of ALAN. At 0° tilt, these luminaires produce no upward light.

When used with the SmartScan system to control luminaire output levels with presence detection, all Starbeam models provide minimal impact on the environment they are illuminating.



No upward light



Less impact on environment



SmartScan controls

Find out more at www.thorlux.com/smartscan



Designed for **convenience**



Step 1
Twist open the locking plate



Step 2
Move clamp to desired size



Step 3
Twist to close locking plate

Mounting

MountSet enables the Starbeam to be mounted onto a wide array of column and bracket sizes without the need for additional reducers or inserts. The dual combination of a stainless steel grub screw and nut means that the fixture is easily removable from the installation at the end of its useful life.

Post top mounting:

AF 5mm L25mm | T 16-20Nm

Side entry mounting:

AF 5mm L16mm | T 16-20Nm



Loosen pivot locking screw to adjust mounting between post top and side entry

AF 6mm | T 25Nm

5⁰ increments for easy elevation and declination

The Starbeam is more than just a street lantern – it's a statement of advanced engineering and smart design.

Connecting

The Starbeam is designed for easy installation - simply plug in the connectors for a quick, straightforward, and hassle-free setup.



Maintaining

Maintenance and upgrades are simple and effortless thanks to its tool-free access and interchangeable heads. Due to the new hinge design, the one-piece LED light engine and control gear assembly can be removed or replaced, making servicing both quicker and safer.



Step 1

Locate and pull down the latches.



Step 2

Lift head, unplug connectors, and detach retaining strap.



Step 3

Continue to lift head further and unhinge.

A long-term solution with **a sustainable future**

Thorlux Lighting, as part of the FW Thorpe Group of companies, is committed to minimising the environmental impact of its activities across all operations.



Carbon neutral since 2012

The FW Thorpe Group of companies has been officially recognised as being carbon neutral, with systems of reduction, measurement and certified offsetting in place, since 2012.

Company-wide initiatives such as energy use minimisation, self-generation of renewable energy through solar photovoltaic (PV) units, and procurement of renewable energy have reduced the Group's carbon footprint, whilst trees in the Group's award-winning carbon offsetting afforestation project absorb the remaining carbon dioxide produced.

For more information on our sustainability journey, please visit: **www.thorlux.com.au/sustainability**



Net-zero by 2040

The Group has set a target of achieving net-zero greenhouse gas emissions by 2040 across Scopes 1, 2 and 3, from a 2021 base year.

The Science Based Targets Initiative (SBTi) validated the Group's plan in 2024 under the Net-Zero Standard.

For more information on our SBTi commitments, please visit: **www.thorlux.com.au/news/net-zero-validated**

Embracing
circularity in design

Aligned with circularity principles that focus on minimising waste and maximising the lifespan of materials, Thorlux designs all its products with an emphasis on minimal components, durability, and reparability.

The Starbeam exemplifies these principles with its long-lasting design. Each component is purposefully engineered for disassembly and recyclability to ensure efficient material recycling and repurposing at the end of the product's life.



SMARTSCAN

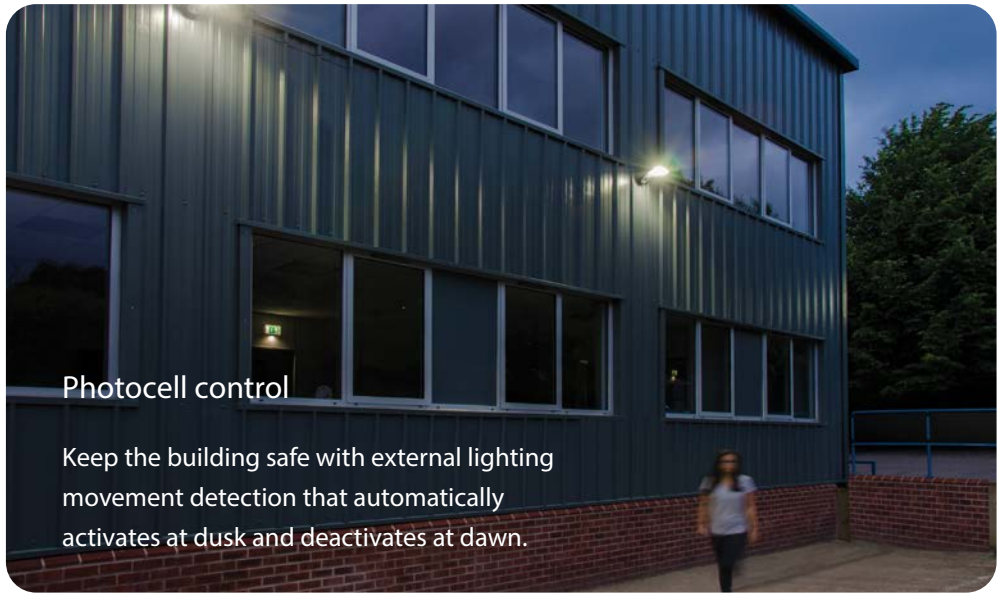
Take control of your lighting

SmartScan is a revolutionary wireless lighting management system that maximises energy savings and automates emergency lighting testing and record keeping.

It provides integrated, intelligent lighting management that maximises energy savings for external applications through movement detection and daylight switching, with timed override via the SmartScan website.

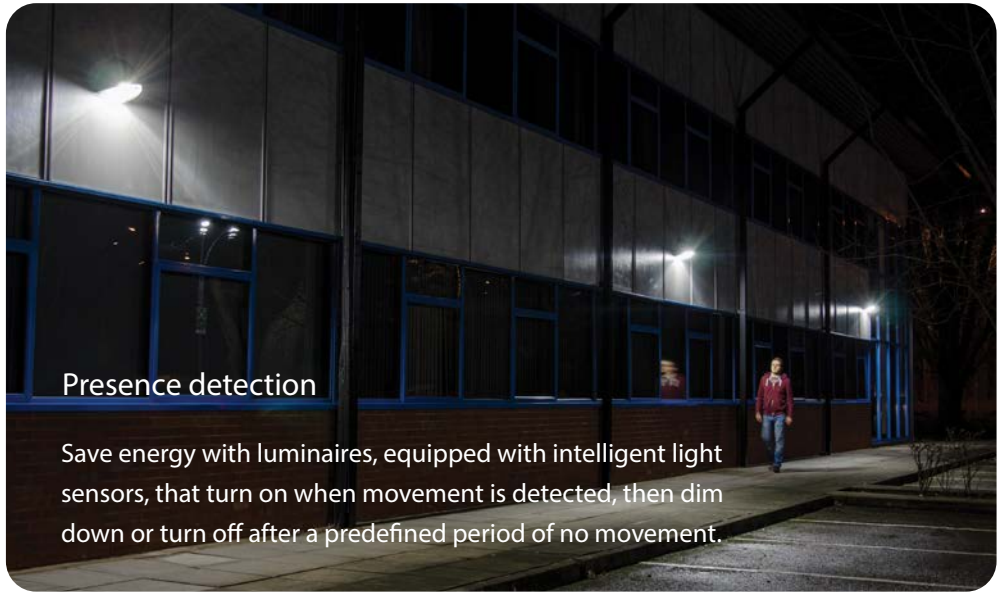
Users can set luminaires to dim to a lower level or turn off completely when no presence detected, reducing the environmental impact of lighting.

Visit the **SmartScan** webpage to find out more



Photocell control

Keep the building safe with external lighting movement detection that automatically activates at dusk and deactivates at dawn.



Presence detection

Save energy with luminaires, equipped with intelligent light sensors, that turn on when movement is detected, then dim down or turn off after a predefined period of no movement.



Luminaire status monitoring

One convenient, central location to view the health status of the whole lighting installation, groups of luminaires or even an individual component within a luminaire.

Energy usage monitoring

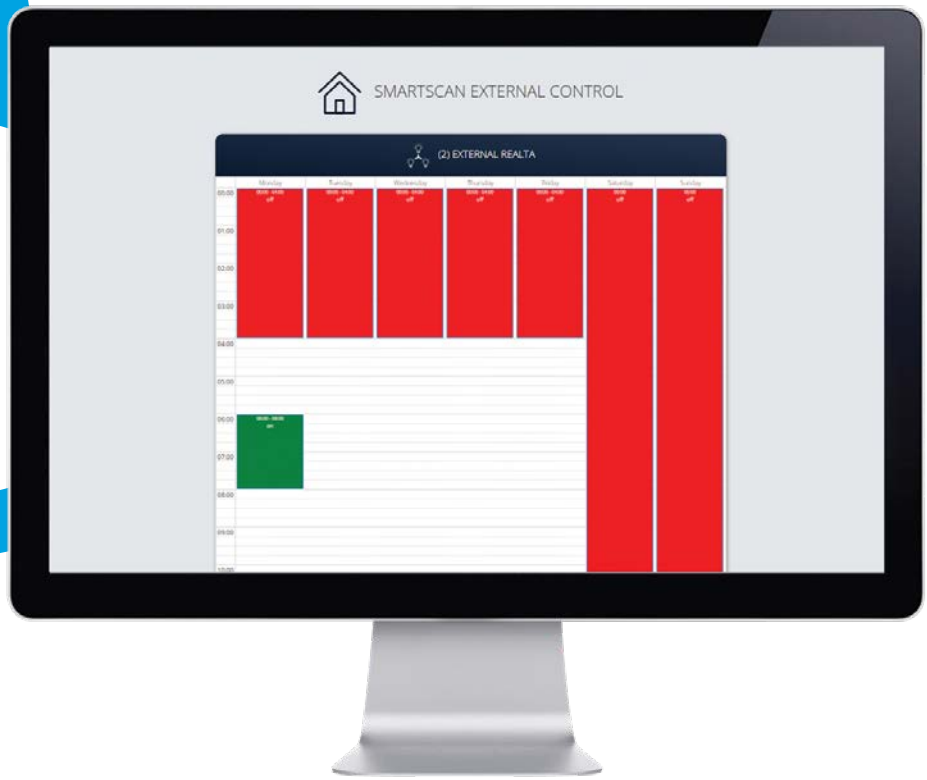
An interactive dashboard makes keeping track of your energy usage easy. Data is available for the entire installation, each area and each luminaire.



Device management

Eliminating the need for programming locally, this powerful tool allows building managers to change luminaire parameters on the SmartScan website, massively simplifying customisation of the system.



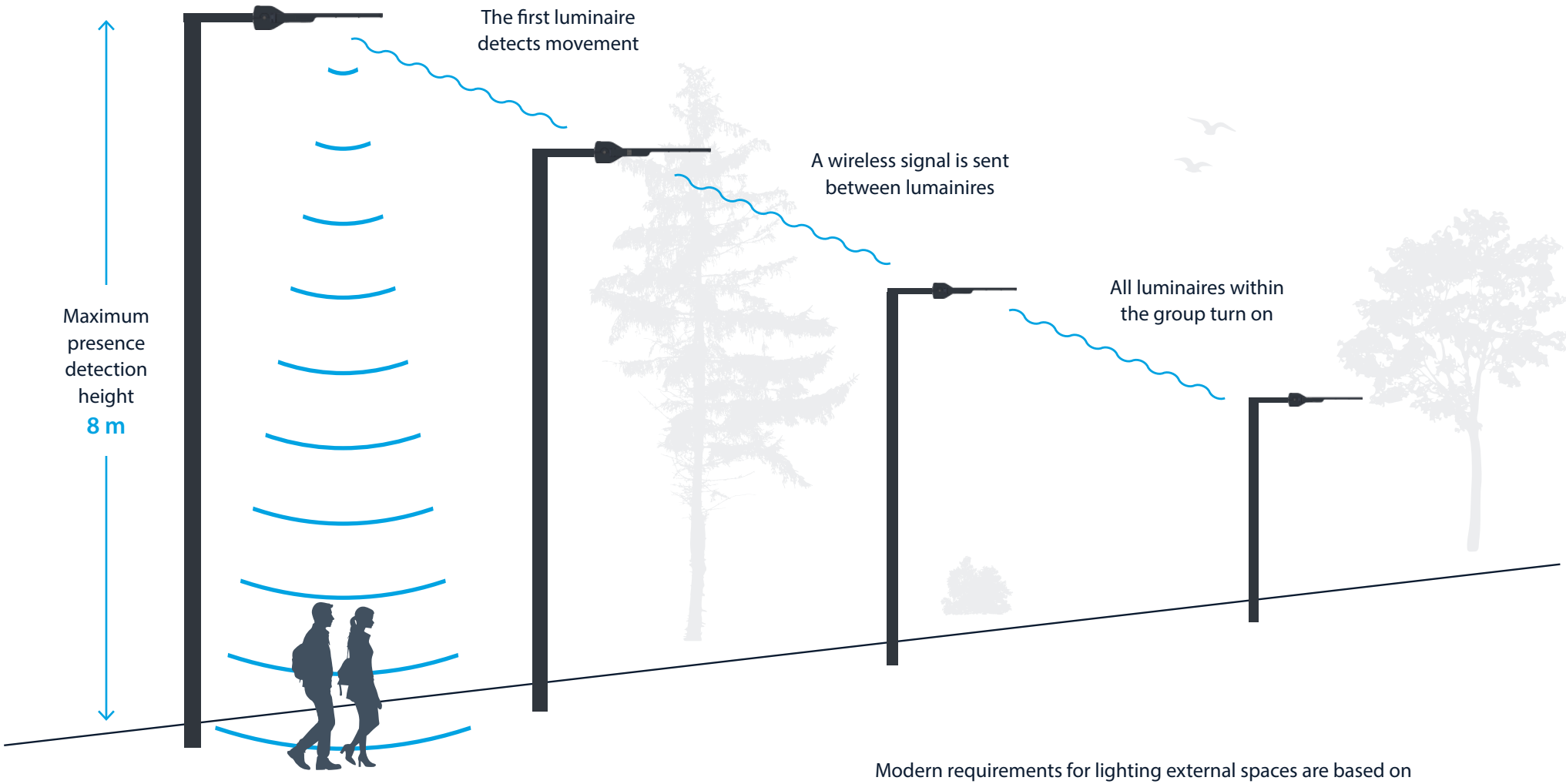


Luminaires with integral SmartScan External sensor and wireless Motionline

SmartScan External luminaires incorporate a discrete integral sensor which monitors ambient light and detects presence, only illuminating the area when occupied and turning off the lighting during daylight hours.

SmartScan wireless technology eliminates the need for control cabling between luminaires, making SmartScan External a cost-effective choice for retrofit and new build installations.

Lighting can account for a high percentage of energy consumed outside a building, especially if using uncontrolled luminaires.



Modern requirements for lighting external spaces are based on minimising light pollution while ensuring sufficient illumination in the area. SmartScan External luminaires are ideal for minimising light pollution as they provide full illumination when occupants are detected, then dim down or switch off when the space becomes vacant.

Ordering

IP66 | IK08 | Up to 171.8 LL/CW

SMARTSCAN | LED PROTECT

LED area floodlights and streetlights

Supremely efficient and optically versatile, IP66 pole-top and wall-mounted LED luminaires comprised of marine-grade LM6 aluminium alloy body and high transmission toughened glass cover for maximised LED efficiency and optical distribution. The patented MountSet fixing method enables Starbeam to be mounted onto a wide array of column and bracket sizes without the need for additional reducers or inserts, and easily installed with tool-free access.

Starbeam is available in a varied selection of light distributions suitable for both open areas and roadway applications, allowing it to be implemented into designs seamlessly.

Applications: car parks, amenity areas, walkways, general roadways, access roads, loading areas/yards

36 W - Medium



59 W - Medium



Ordering

72 W - Medium



126 W - Large



100 W - Large



213W - Extra large



Ordering

Range table

Product	LED power	Distribution	Colour temperature	Product version	Lighting control system
SB Starbeam	**036** 36 W **059** 59 W **072** 72 W **100** 100 W **126** 126 W **213** 213 W	**A** GA2 area **B** GA3 area **C** GR5 roadway **D** GR3 roadway **E** GR13 roadway **F** GR1 roadway **G** GR2 roadway **H** GR7 roadway **I** GR8 roadway **J** GR9 roadway **K** GR12 roadway **L** GA1 area / GR4 roadway	**22** 2200 K **27** 2700 K **30** 3000 K **40** 4000 K	**M** Medium * **L** Large ** **E** Extra large ***	**S** SmartScan External **L** Non-dimming

* **Only** available on **36 W / 59 W / 72 W** versions ** **Only** available on **100 W / 126 W** versions *** **Only** available on **213 W** versions

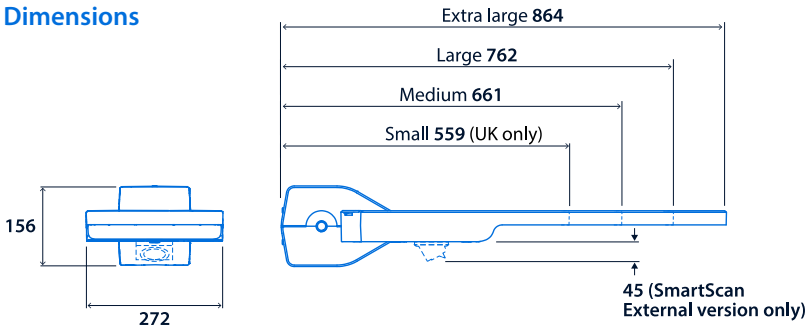
Black version - suffix catalogue number with **B6**

E.g. **SB036A22MSB6** = Starbeam / 36 W / GA2 Area / 2200 K / Medium / SmartScan External / Black version

Accessories

Description	CAT. No.
Side baffle - Medium version - Suitable for 36 W, 59 W and 72 W body sizes only	**SB20921**
Side baffle - Large version - Suitable for 100 W and 126 W body sizes only	**SB20922**
Side baffle - Extra large version - Suitable for 213 W body sizes only	**SB20923**
Front baffle - Universal - Suitable for all Starbeam body sizes	**SB20924**
Rear baffle - Universal - Suitable for all Starbeam body sizes	**SB20925**

Dimensions



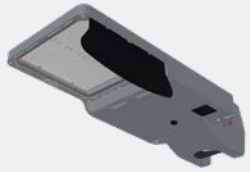
SmartScan sensor



Front baffle - Universal



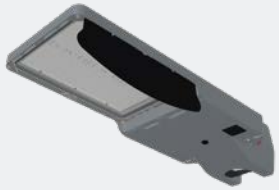
Side baffle - Medium version



Rear baffle - Universal



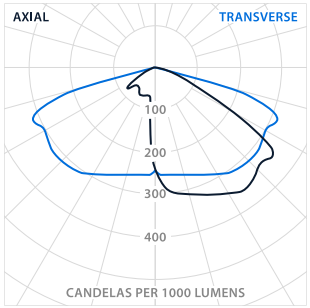
Side baffle - Large version



Side baffle - Extra large version



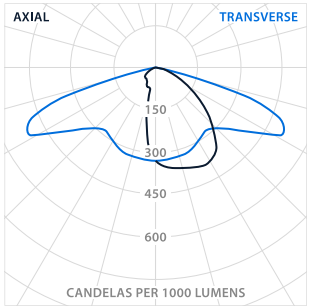
Photometric guide



GR1 Roadway

Luminaire Lumen Output (lm):

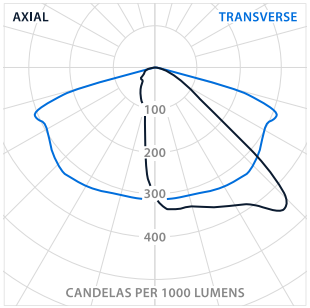
	2200 K	2700 K	3000 K	4000 K
36 W	5,520	6,320	6,810	7,155
59 W	8,365	9,575	10,320	10,845
72 W	10,050	11,505	12,395	13,030
100 W	14,235	16,295	17,560	18,455
126 W	16,780	20,190	21,755	22,865
213 W	27,245	31,190	33,615	35,330



GR2 Roadway

Luminaire Lumen Output (lm):

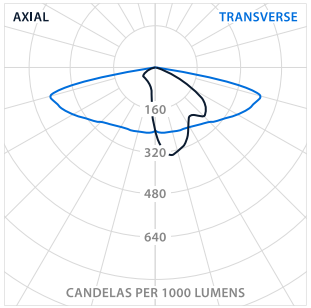
	2200 K	2700 K	3000 K	4000 K
36 W	5,550	6,355	6,850	7,200
59 W	8,415	9,630	10,380	10,910
72 W	10,110	11,570	12,470	13,105
100 W	14,315	16,390	17,665	18,565
126 W	16,880	20,305	21,885	23,000
213 W	27,410	31,375	33,815	35,540



GR3 Roadway

Luminaire Lumen Output (lm):

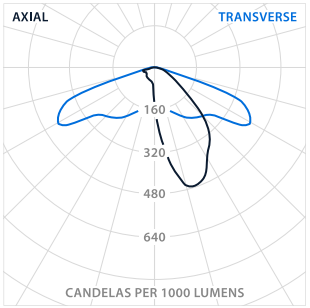
	2200 K	2700 K	3000 K	4000 K
36 W	5,500	6,295	6,785	7,130
59 W	8,335	9,540	10,280	10,805
72 W	10,010	11,460	12,350	12,980
100 W	14,315	16,390	17,665	18,565
126 W	16,880	20,305	21,885	23,000
213 W	27,410	31,375	33,815	35,540



GR5 Roadway

Luminaire Lumen Output (lm):

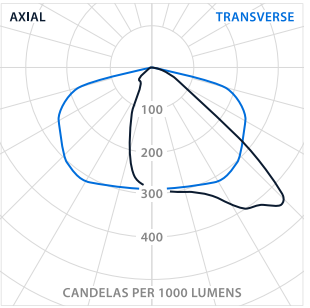
	2200 K	2700 K	3000 K	4000 K
36 W	5,500	6,295	6,785	7,130
59 W	8,335	9,540	10,280	10,805
72 W	10,010	11,460	12,350	12,980
100 W	13,520	15,475	16,675	17,530
126 W	15,940	19,175	20,665	21,720
213 W	25,880	29,625	31,925	33,555



GR7 Roadway

Luminaire Lumen Output (lm):

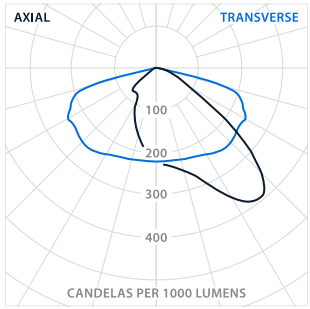
	2200 K	2700 K	3000 K	4000 K
36 W	5,570	6,380	6,875	7,225
59 W	8,445	9,670	10,420	10,950
72 W	10,145	11,615	12,515	13,155
100 W	14,370	16,450	17,730	18,635
126 W	16,945	20,380	21,965	23,085
213 W	27,510	31,490	33,940	35,670



GR8 Roadway

Luminaire Lumen Output (lm):

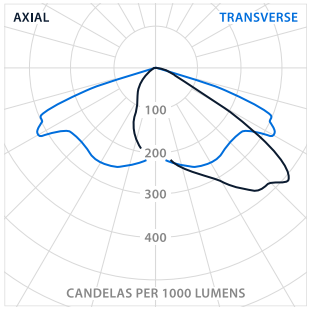
	2200 K	2700 K	3000 K	4000 K
36 W	5,565	6,370	6,865	7,215
59 W	8,435	9,655	10,405	10,935
72 W	10,130	11,600	12,500	13,140
100 W	14,350	16,430	17,705	18,610
126 W	16,920	20,355	21,935	23,055
213 W	27,470	31,450	33,890	35,625



GR9 Roadway

Luminaire Lumen Output (lm):

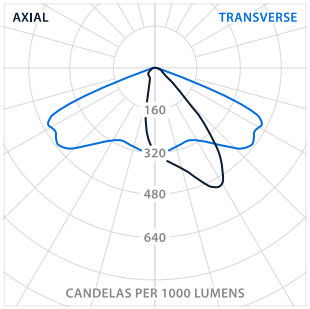
	2200 K	2700 K	3000 K	4000 K
36 W	5,500	6,295	6,785	7,130
59 W	8,335	9,540	10,280	10,805
72 W	10,010	11,460	12,350	12,980
100 W	14,180	16,235	17,495	18,385
126 W	16,720	20,110	21,675	22,780
213 W	27,145	31,075	33,490	35,200



GR12 Roadway

Luminaire Lumen Output (lm):

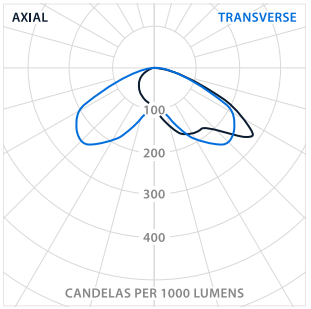
	2200 K	2700 K	3000 K	4000 K
36 W	5,665	6,485	6,990	7,345
59 W	8,590	9,830	10,595	11,135
72 W	10,315	11,810	12,725	13,375
100 W	14,610	16,725	18,025	18,950
126 W	17,230	20,725	22,335	23,475
213 W	27,975	32,020	34,510	36,275



GR13 Roadway

Luminaire Lumen Output (lm):

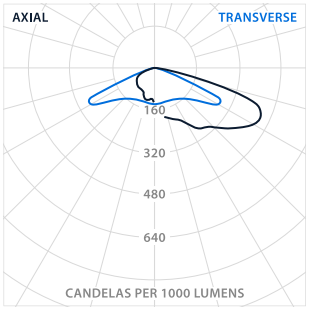
	2200 K	2700 K	3000 K	4000 K
36 W	5,650	6,465	6,970	7,325
59 W	8,560	9,800	10,565	11,105
72 W	10,285	11,775	12,690	13,340
100 W	14,835	16,980	18,300	19,235
126 W	17,490	21,040	22,675	23,835
213 W	28,400	32,510	35,035	36,825



GA1 Area & GR4 Roadway

Luminaire Lumen Output (lm):

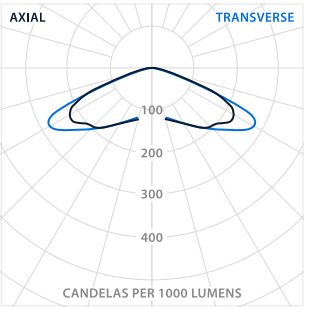
	2200 K	2700 K	3000 K	4000 K
36 W	5,075	5,810	6,265	6,585
59 W	7,695	8,810	9,495	9,980
72 W	9,245	10,580	11,405	11,985
100 W	13,095	14,990	16,155	16,980
126 W	15,440	18,570	20,015	21,035
213 W	25,065	28,695	30,920	32,500



GA2 Area

Luminaire Lumen Output (lm):

	2200 K	2700 K	3000 K	4000 K
36 W	5,365	6,140	6,620	6,955
59 W	8,130	9,305	10,030	10,545
72 W	9,765	11,180	12,050	12,665
100 W	13,835	15,835	17,065	17,940
126 W	16,310	19,620	21,145	22,225
213 W	26,485	30,315	32,675	34,340



GA3 Area

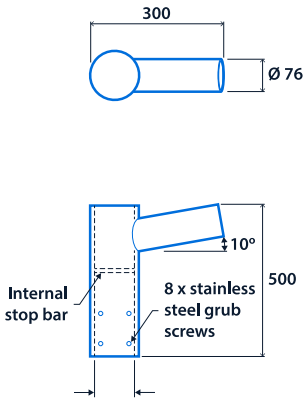
Luminaire Lumen Output (lm):

	2200 K	2700 K	3000 K	4000 K
36 W	5,750	6,585	7,095	7,460
59 W	8,720	9,980	10,755	11,305
72 W	10,475	11,990	12,920	13,580
100 W	14,835	16,980	18,300	17,775
126 W	17,490	21,040	22,675	22,020
213 W	26,240	30,040	32,370	34,025

Ordering

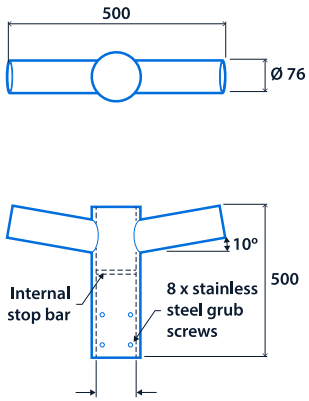
Mounting options

Single outreach arm



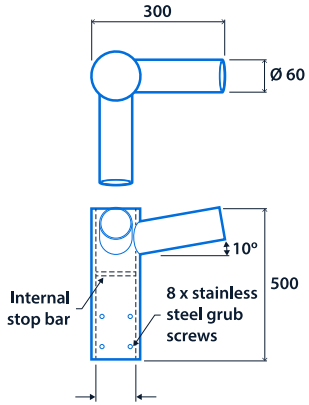
SB15863 to fit on to Ø 76
SB17788 to fit on to Ø 89
SB15865 to fit on to Ø 101
SB17180 to fit on to Ø 114

Twin outreach arm 180°



SB15864 to fit on to Ø 76
SB17789 to fit on to Ø 89
SB15866 to fit on to Ø 101
SB17181 to fit on to Ø 114

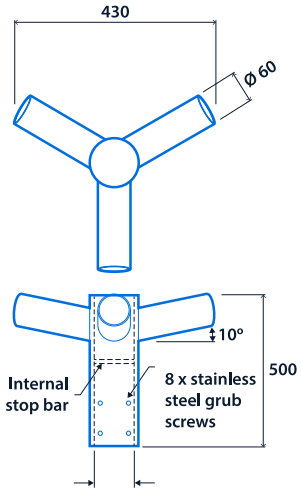
Twin outreach arm 90°



SB15890K to fit on to Ø 76
SB19695K to fit on to Ø 89
SB15893K to fit on to Ø 101

Supplied with 2 x 76mm to 60mm reducer kits (SB15809)

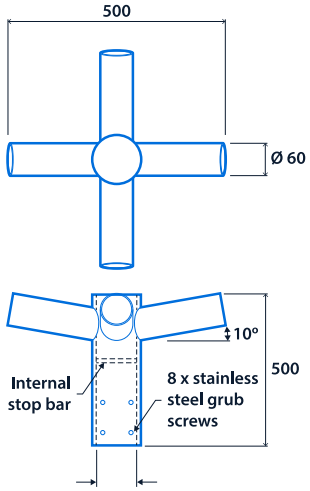
Triple outreach arm 120°



SB15896K to fit on to Ø 89
SB15894K to fit on to Ø 101

Supplied with 3 x 76mm to 60mm reducer kits (SB15809)

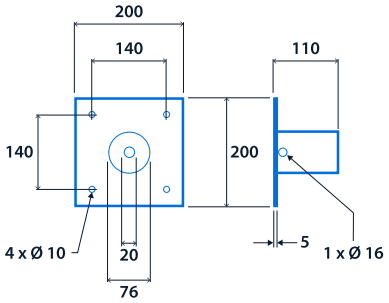
Quad outreach arm N-S-E-W



SB15897K to fit on to Ø 89
SB15895K to fit on to Ø 101

Supplied with 4 x 76mm to 60mm reducer kits (SB15809)

Wall mounting bracket



SB 15808



Innovating sustainable lighting solutions for a brighter future

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

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.

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

T +44 (0)1527 583200
F +44 (0)1527 584177
E thorlux@thorlux.co.uk
W www.thorlux.com

Direct UK Sales Line: 01527 583222

Thorlux Lighting Ireland
Unit G6
Riverview Business Park
Nangor Road
Gallanstown
Dublin 12
Ireland

T +353 (0)1 460 4608
F +353 (0)1 460 4609
E thorlux@thorlux.ie
W www.thorlux.ie

Thorlux Lighting Australasia Pty Ltd.
31 Cross Street
Brookvale
Sydney
NSW 2100
Australia

T 1300 04 32 32
T +61 (0)2 9907 1261
E thorlux@thorlux.com.au
W www.thorlux.com.au

Registered No. ABN 139 400 507

SchahlLED Lighting GmbH
Max-Planck-Str. 9
85716 Unterschleißheim
Deutschland

T +49 (0)89 90 11 98 20
E info@schahlled.de
W www.schahlled.de

bsi ISO 9001 Quality Management Systems CERTIFIED FM 10913 · ISO 14001 Environmental Management CERTIFIED EMS 532104 · ISO/IEC 27001 Information Security Management CERTIFIED IS 803960 · ISO 45001 Occupational Health and Safety Management CERTIFIED OHS 704131

Woodland Carbon CO_2de

SUSTAINING MEMBER Society of Light and Lighting

LIGHTING INDUSTRY ASSOCIATION

MADE IN BRITAIN

Lighting Council AUSTRALIA MEMBER

PN 4230B Nov. 26