Schréder
Experts in lightability™

DECORATIVE

Isla LED

owlet®

LENSO FLEX™ 2

Elegant and economical solution with LED technology

The Isla LED luminaire is an economical lighting solution based on LED technology. It is available with numerous light distributions, all characterised by low energy consumption and high-quality photometric performance.

Designed by Michel Tortel, the Isla LED luminaire presents an elegant design that perfectly integrates into many urban and residential environments.

The Isla LED luminaire is composed of aluminium and glass.

IP 66

IK 08

RoHS

URBAN & RESIDENTIAL STREETS

BRIDGES

BIKE & PEDESTRIAN PATHS

RAILWAY STATIONS & METROS

CAR PARKS

SQUARES & PEDESTRIAN AREAS

Concept

Isla LED is a luminaire composed of three main parts made of die-cast aluminium: a canopy hosting the the gear compartment and the LED engine, three arms and a fixation part.

The optical compartment of the Isla LED luminaire is sealed by flat glass, which prevents any intrusive light to satisfy the most demanding criteria for light pollution (no upwards light output), thereby ensuring a high-quality urban lighting.

Isla LED is available with 16, 24 or 32 LEDs, with a low energy consumption and superior photometric performance that meets the lighting requirements of the space to be lit.

This LED-equipped luminaire, installed on a cylindrical conical, galvanised steel column, is a perfect example of lightness and elegance in design. It is particularly suited to lighting environments such as city centres, public squares, parks, residential areas and car parks.

Isla LED is designed for installation at a height of 3.5 to 6m and offers slip-over mounting onto a Ø60mm or Ø76mm pole by tightening 2 M8 screws.

Isla LED is equipped with LensoFlex®2 photometric engines.

The optical compartment sealed by flat glass ensures a ULOR of 0%.

Types of application

- URBAN & RESIDENTIAL STREETS
- BRIDGES
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS

Key advantages

- Perfect control of light distributions
- Low energy consumption
- LensoFlex®2 : high-performance photometry adapted to various applications
- Elegant design for low height installation
- No light pollution (ULOR 0 %)
- Designed to incorporate Owlet control and sensor solutions

The Isla LED luminaires can integrate the Owlet range of control solutions.

Isla LED is designed for slip-over mounting onto a Ø60 or Ø76mm spigot.

LensoFlex®2

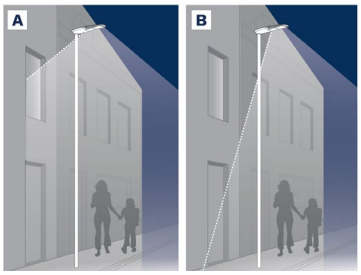
LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light distribution.

The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.

Back Light control

As an option, the LensoFlex®2 modules can be equipped with a Back Light control system.

This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.

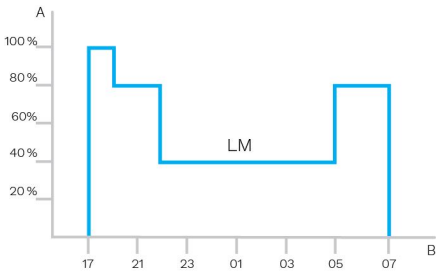


A. Without Back Light control | B. With Back Light control

Custom dimming profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. Up to five combinations of time intervals and light levels are possible. This feature does not require any extra wiring.

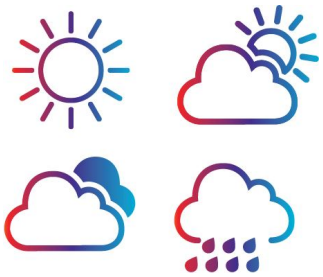
The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.



A. Performance | B. Time

Daylight sensor / photocell

Photocell or daylight sensors switch the luminaire on as soon natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at nightfall so as to provide safety and comfort in public spaces.



PIR sensor: motion detection

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

Each luminaire level can be configured individually with several parametres such as minimum and maximum light output, delay period and ON/OFF duration time. PIR sensors can be used in an autonomous or interoperable network.

Owlet IoT

Owlet IoT remotely controls luminaires in a lighting network, creating opportunities for improved efficiency, accurate real-time data and energy savings of up to 85%.

ALL-IN-ONE

The LUCO P7 CM controller includes the most advanced features for optimised asset management. It also provides an integrated photocell and operates with an astronomical clock for seasonal dimming profile

adaptations.

EASY TO DEPLOY

Thanks to wireless communication, no cabling is needed. The network is not subject to physical constraints or limitations.

From a single control unit to an unlimited network, you can expand your lighting scheme at any time.

With real-time geolocation and automatic detection of luminaire features, commissioning is quick and easy.

USER-FRIENDLY

Once a controller is installed on a luminaire, the luminaire automatically appears with its GPS coordinates on a web-based map.

An easy-to-use dashboard enables each user to organise and customise screens, statistics and reports. Users can gain relevant, real-time insights.

The Owlet IoT web application can be accessed at all times from anywhere in the world with a device connected to the Internet. The application adapts to the device to offer an intuitive and user-friendly experience.

Real-time notifications can be pre-programmed to monitor the most important elements of the lighting scheme.

SECURE

The Owlet IoT system uses a local wireless mesh communication networks to control the on-site luminaires combined with a remote control system utilising the cloud to ensure smooth data transfers to and from the central management system.

The system uses encrypted IP V6 communication to protect data transmission in both directions. Using a secure APN, Owlet IoT ensures a high level of protection.

In the exceptional case of a communication failure, the built-in astronomical clock and photocell will take over to switch the luminaires on and off, thus avoiding a complete blackout at night.

EFFICIENT

Thanks to sensors and/or pre-programmed settings, lighting scenarios can be easily adapted to cope with live events, providing the right lighting levels at the right time and in the right place.

The integrated utility grade meter offers the highest accuracy available on the market today, enabling decisions based on real figures.

Accurate real-time feedback and clear reporting ensures that the network operates efficiently and maintenance is optimised.

When LED luminaires are switched on, the inrush current can create problems for the electricity grid. Owlet IoT incorporates an algorithm to preserve the grid at all times.

OPEN

The LUCO P7 CM controller can be plugged onto the standard 7 pin NEMA socket and operates through either a DALI or 1-10V interface to control the luminaire.

Owlet IoT is based on the IPv6 protocol. This method for addressing devices can generate an almost unlimited number of unique combinations to connect non-traditional components to the Internet or computer network.

Through open APIs, Owlet IoT can be integrated into existing or future global management systems.

GENERAL INFORMATION

Recommended installation height	4m to 6m | 13' to 20'
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
CE Mark	No
ENEC certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 08
Access for maintenance	Direct access to the gear compartment by loosening screws on the top cover

OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +35 °C / -22 °F up to 95°F

· Depending on the luminaire configuration. For more details, please contact us.

ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	10
Electromagnetic compatibility (EMC)	EN 55015:2013/A1:2015, EN 61547:2009
Control protocol(s)	1-10V, DALI
Control options	Bi-power, Custom dimming profile, Photocell, Remote management
Socket option(s)	NEMA 7-pin
Associated control system(s)	Owlet Nightshift Owlet IoT
Sensor	PIR (optional)

OPTICAL INFORMATION

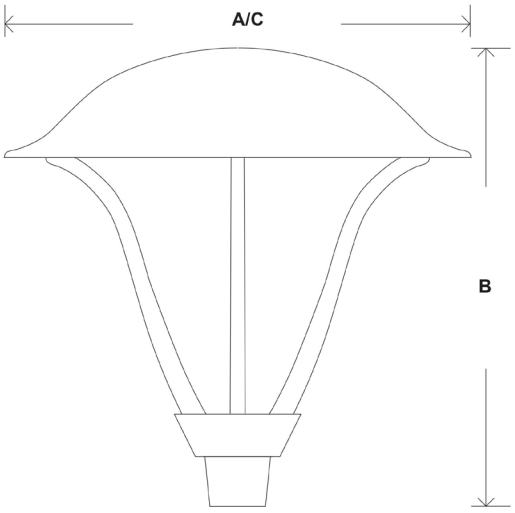
LED colour temperature	2700K (Warm White 727) 3000K (Warm White 730) 4000K (Neutral White 740)
Colour rendering index (CRI)	>70 (Warm White 727) >70 (Warm White 730) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	0%

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90

DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	647x636x647 | 25.5x25.0x25.5
Weight (kg | lbs)	9.5 | 20.9
Aerodynamic resistance (CxS)	0.06
Mounting possibilities	Post-top slip-over – Ø60mm Post-top slip-over – Ø76mm



Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 727		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)	Photometry
			Min	Max	Min	Max	Min	Max	Min	Max	Up to	
ISLA LED	16	350	1500	1800	1600	1900	1700	2100	18.2	18.2	115	LENSO FLEX 2
	16	500	2000	2400	2100	2500	2300	2800	25.7	25.7	109	LENSO FLEX 2
	24	350	2300	2700	2400	2800	2600	3100	26.8	26.8	116	LENSO FLEX 2
	24	500	3000	3600	3200	3800	3500	4200	38.1	38.1	110	LENSO FLEX 2
	32	350	3000	3600	3200	3800	3500	4200	35.9	35.9	117	LENSO FLEX 2
	32	500	4000	4700	4200	5000	4600	5500	51.5	51.5	107	LENSO FLEX 2

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

LENSO FLEX 2

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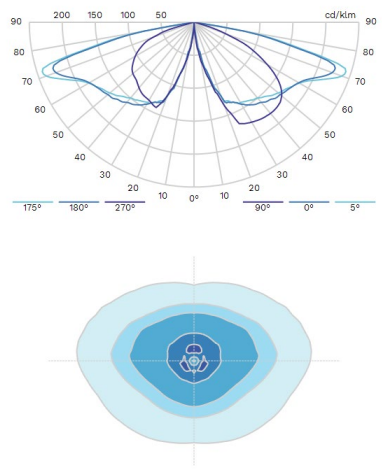

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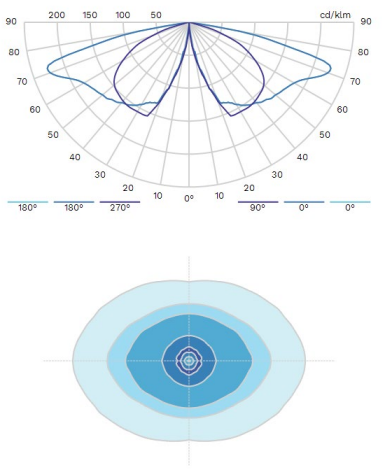

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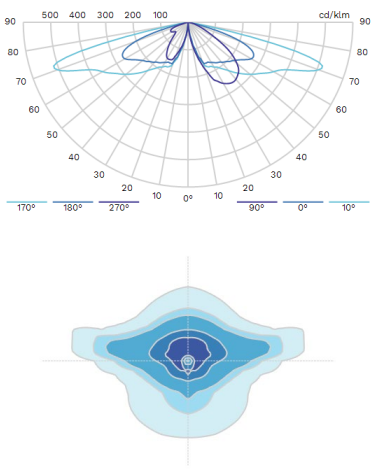

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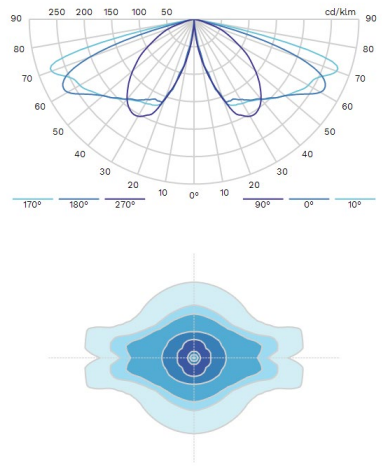

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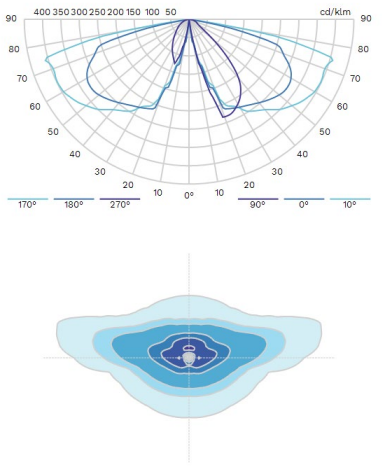

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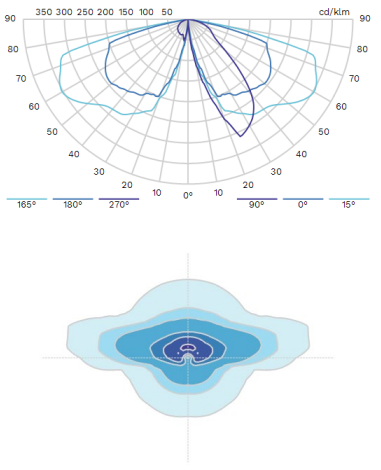

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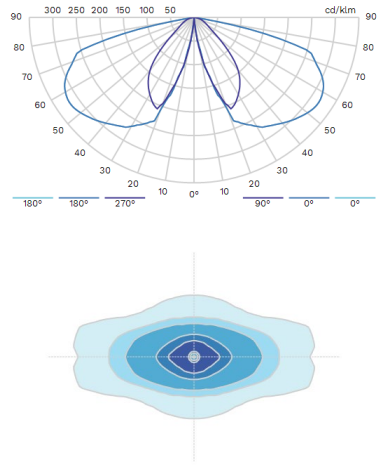

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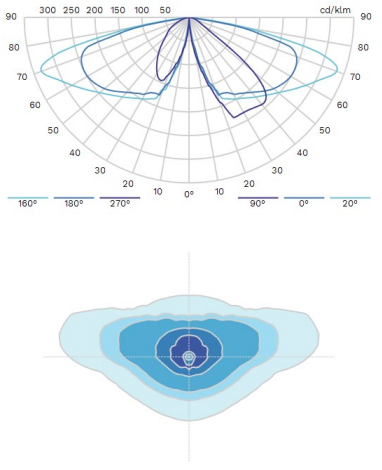

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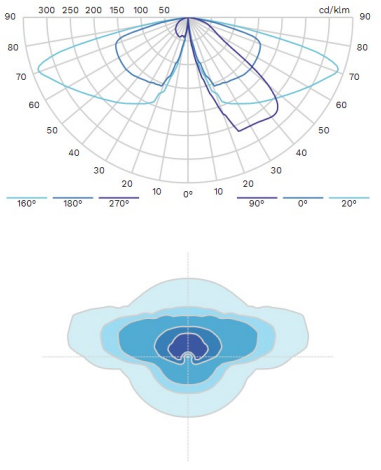

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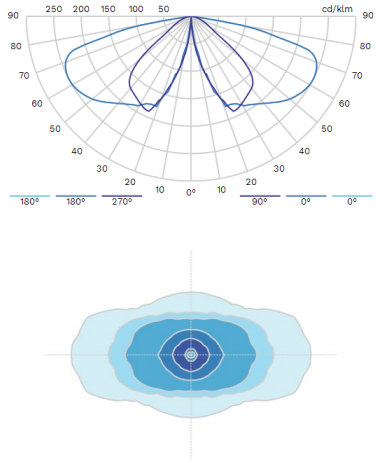

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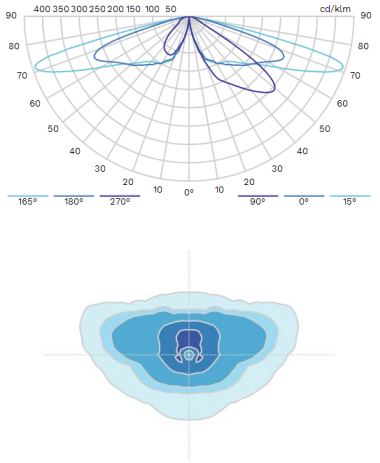

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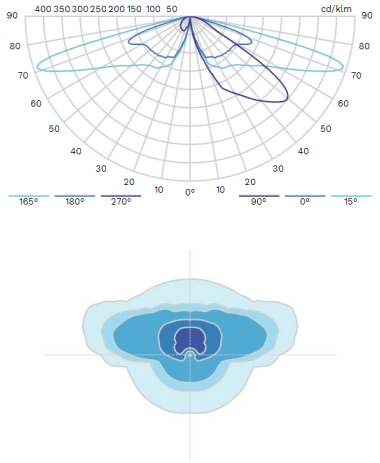

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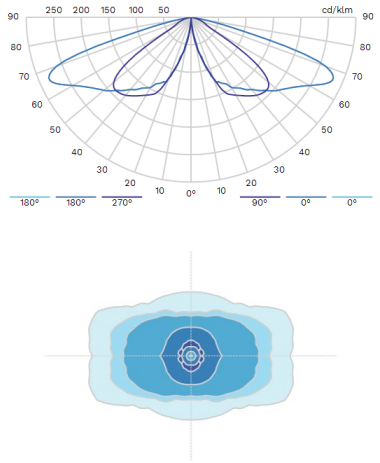

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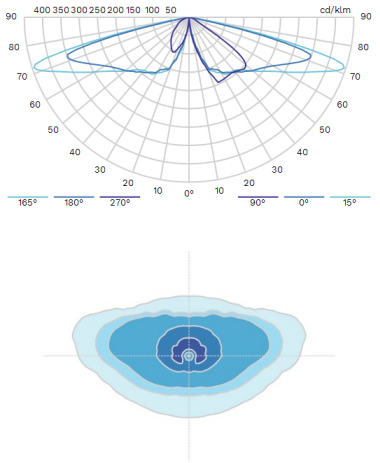

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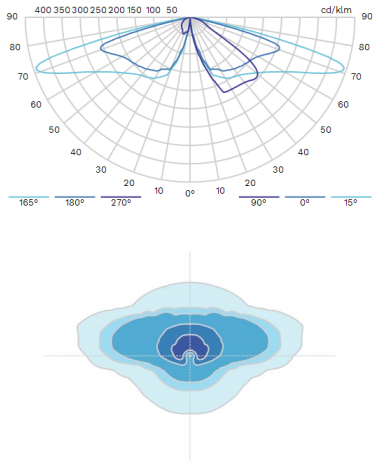

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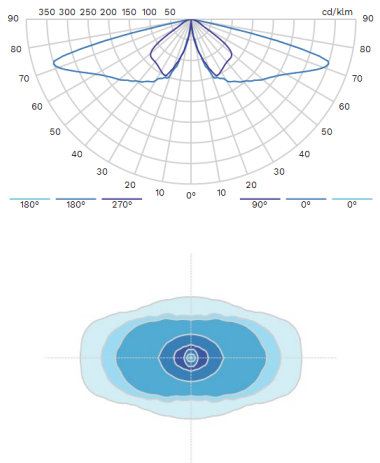

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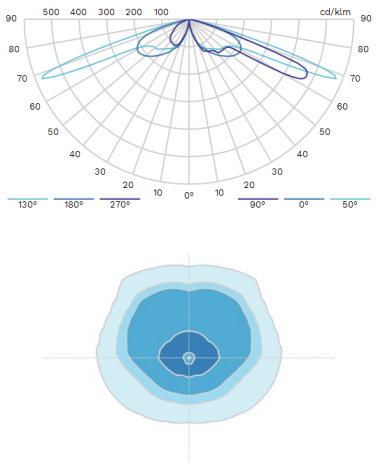

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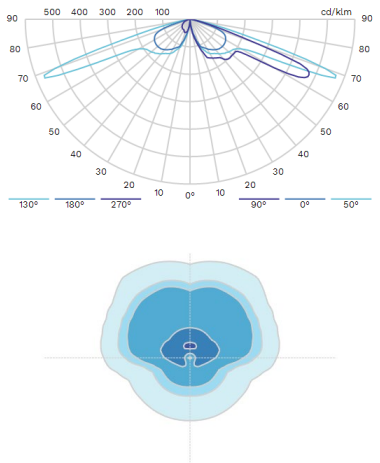

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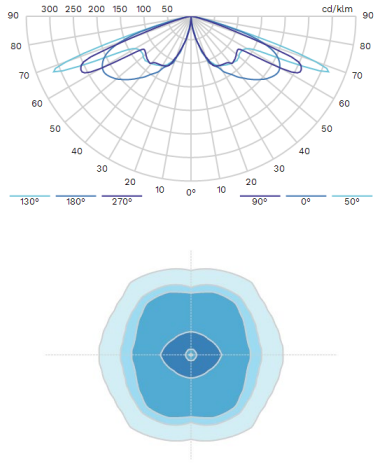

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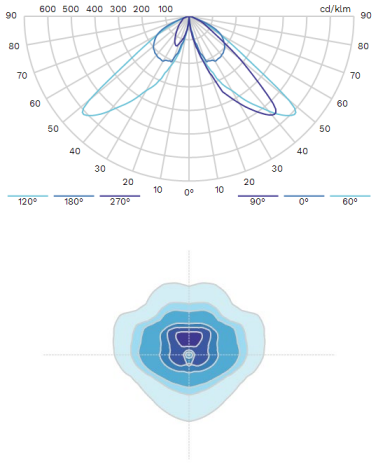

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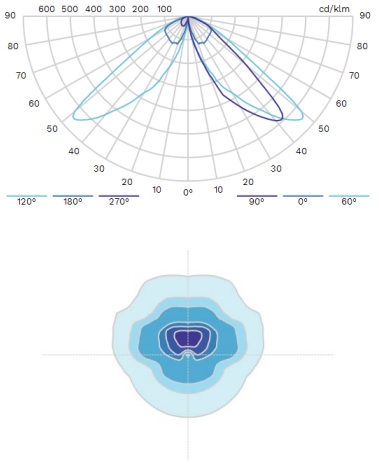

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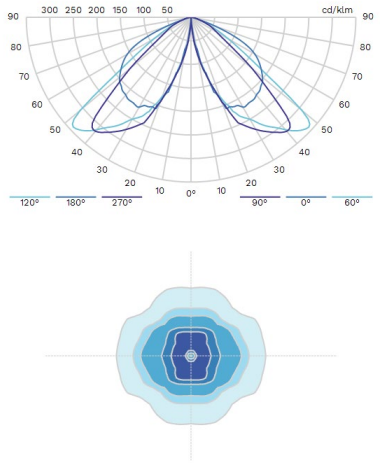

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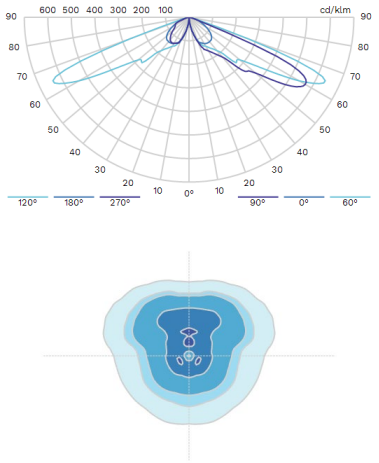

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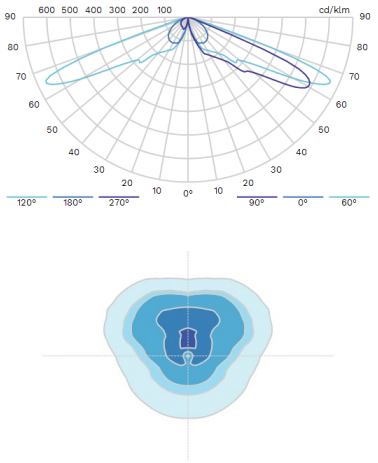

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