photinus Schréder
Experts in lightability™

PROTOS

Versatile, efficient split solar lighting with unbeatable value

KEY ADVANTAGES

- > **Two sizes of solar panel to suit project requirements**
- > **Independent settings (tilt and orientation) for solar panel and luminaire**
- > **Designed for easy on-site deployment and adjustment**
- > **In-ground sealed battery for optimum performance and longevity**
- > **One or two (back-to-back) luminaires**
- > **Numerous light distributions**
- > **Optional sensors for light-on-demand scenarios**

The PROTOS solar LED luminaire is a perfect blend of functionality and attractive design. Ideal for areas where electrical infrastructure is lacking or too costly to install, PROTOS is a self-sufficient outdoor solar LED luminaire with versatile technical options.

Equipped with an efficient monocrystalline photovoltaic panel with adjustable tilt, PROTOS ensures optimum energy harvesting. Its intelligent control features independent day and night detection, allowing for customisable time programmes. This makes it an excellent choice for street lighting, car parks, access roads, outdoor areas and business premises.

The PROTOS family includes the 200 and 300 models, which offer configurations with either one or two luminaires (“DUO”). The integrated LiFePo4 battery, embedded in the ground together with the post, ensures optimum temperature maintenance and protection against theft. Charged during the day, the battery powers the LED luminaires, which are automatically activated at dusk and dawn, providing superior light distribution thanks to high-efficiency LEDs and advanced optical components.

PROTOS comes in anthracite as standard, but can be ordered in any RAL colour for large projects.

HIGHLIGHTS

Elegant square design, premium finish and a seamless, cable-free aesthetic.

Supplied as an easy-to-assemble kit for simplicity and convenience.

Waterproof components (LED module, power supply and cabling) make the luminaire lightweight and easy to install.

Available with two sizes of monocrystalline solar panel to suit any geography.

Toolless coded connectors for all connections.

The IPX8 LiFePo4 battery offers superior water resistance and reliable performance.

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RANGE

	PRODUCT	LIGHT POINT HEIGHT	ENERGY HARVESTING	ENERGY STORAGE	LUMINAIRE
	PROTOS 200	4200mm | 14ft 5000mm | 16ft	210Wp photovoltaic panel	LiFePo4 battery 512Wh or 768Wh	1x 24-LED module
	PROTOS 300	5000mm | 16ft 6000mm | 19ft 8000mm | 26ft	300Wp photovoltaic panel	LiFePo4 battery 768Wh, 1024Wh or 2048Wh	
	PROTOS 200 DUO	4200mm | 14ft 5000mm | 16ft	210Wp photovoltaic panel	LiFePo4 battery 512Wh or 768Wh	2x 24-LED module
	PROTOS 300 DUO	5000mm | 16ft 6000mm | 19ft 8000mm | 26ft	300Wp photovoltaic panel	LiFePo4 battery 768Wh, 1024Wh or 2048Wh	

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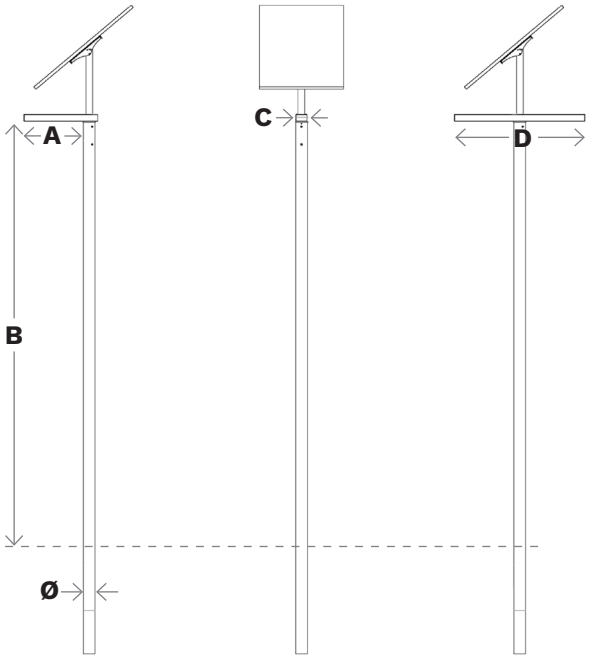
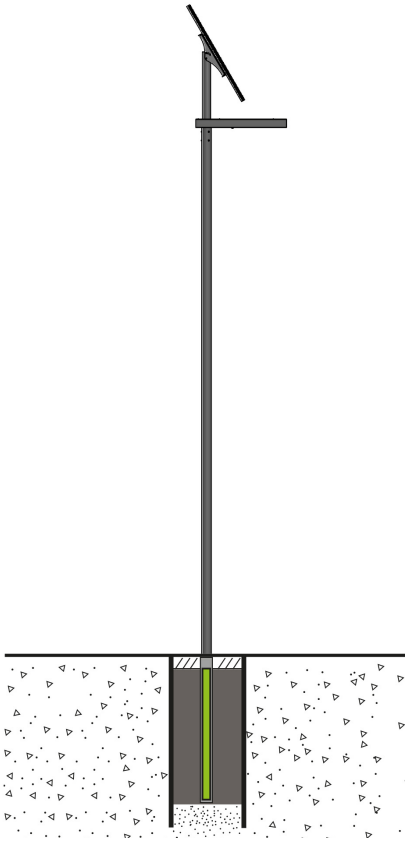
DIMENSIONS AND MOUNTING

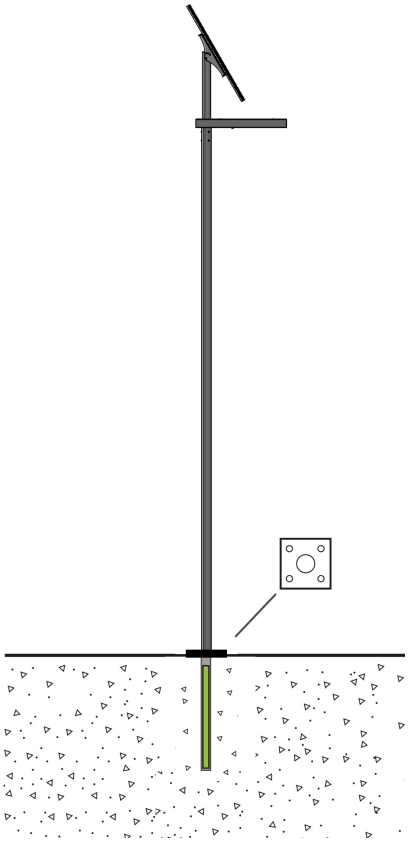


	A (mm | inch)	B (mm | ft)	C (mm | inch)	D (mm | inch)	Ø (mm | inch)
PROTOS 200	670 | 26	4200 | 14 5000 | 16	125 | 4.9	-	89 | 3.5
PROTOS 300		5000 | 16 6000 | 19 8000 | 26			133 | 5.2
PROTOS 200 DUO	-	4200 | 14 5000 | 16		1470 | 58	89 | 3.5
PROTOS 300 DUO		5000 | 16 6000 | 19 8000 | 26			133 | 5.2

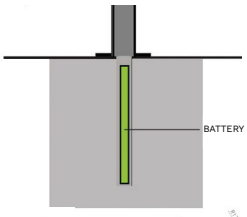
PIPE FOUNDATION



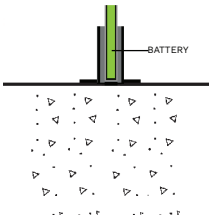
ANCHOR BASE



ABO
BASE PLATE OPEN
Battery in-ground



ABC
BASE PLATE CLOSED
Battery over-ground



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CHARACTERISTICS

GENERAL	
CE Mark	Yes
Electrical class	Class III EU
Wind speed resistance	Check with Schréder representative

MATERIALS	
Pole	Galvanised steel
Metal parts	Aluminium
Finish	Polyester powder coating
Standard colour	Tiger 29/70787 Sparkling Iron Effect Dark
Impact resistance	IK 06

SOLAR PANEL

	PROTOS 200 PROTOS 200 DUO	PROTOS 300 PROTOS 300 DUO
Technology	Monocrystalline silicon cells	
Frame	Anodised aluminium alloy	
Glass	3.2mm (0.13 in) tempered glass	
Power	210Wp	300Wp
Lifetime expectancy	25 years	

BATTERY	
Technology	LiFePo4
Voltage	12.8V
Capacity	512Wh (40Ah) 768Wh (60Ah) 1024Wh (80Ah) 2048Wh (160Ah)
Operating temperature	-20°C to 60°C | -4°F to 140°F
Autonomy	3 to 5 days
Tightness level	IPX8
Lifetime expectancy	>10 years

LED MODULE	
Optic/protector	PC integrated
Tightness level	IP 67
LED colour temperature	2200K (Warm White 722) 2700K (Warm white 727) 3000K (Warm White 730) 4000K (Neutral White 740)
Colour rendering index (CRI)	>70
Upward Light Output Ratio (ULOR)	0%
Upward Light Ratio (ULR)	0%
Lifetime of the LEDs @ Tq 25°C	100,000h - L95

CONTROL	
PIR sensor	Optional
Zhaga socket	Optional

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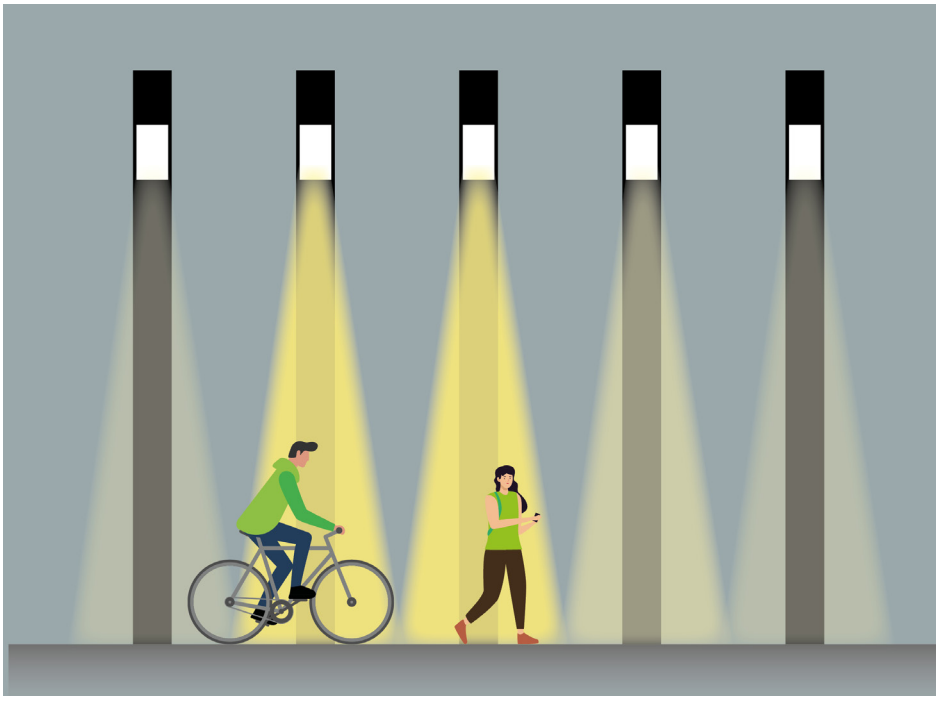
PERFORMANCE

		Luminaire output flux (lm) Warm White 722		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)
	Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
PROTOS	24	400	6300	500	6900	500	7000	500	7400	3	51	191
PROTOS DUO	2x24	800	12600	1000	13800	1000	14000	1000	14800	6	102	191

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

LIGHT ON DEMAND



With advanced sensor technology and options for stand-alone operation or communication between luminaires, light-on-demand features make a significant contribution to species conservation by actively reducing light pollution. These intelligent luminaires provide full light intensity only when needed, ensuring optimum visibility and safety. By dimming the lights during periods of low activity, they prevent over-dimensioning and eliminate the need for additional solar panels and larger batteries, making them an efficient and sustainable solution.

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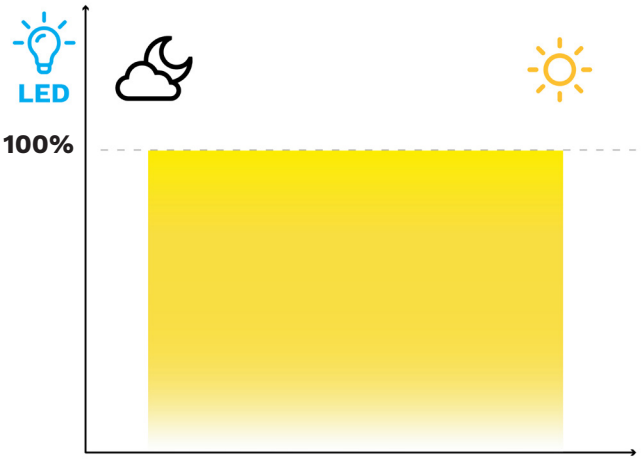
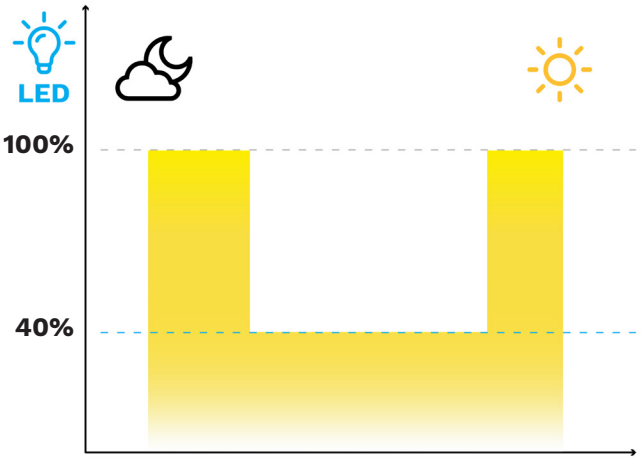
STANDARD DIMMING PROFILES*

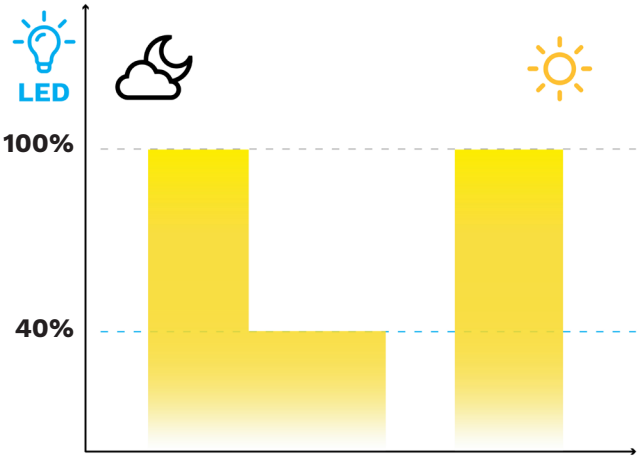
V3: all night 100%



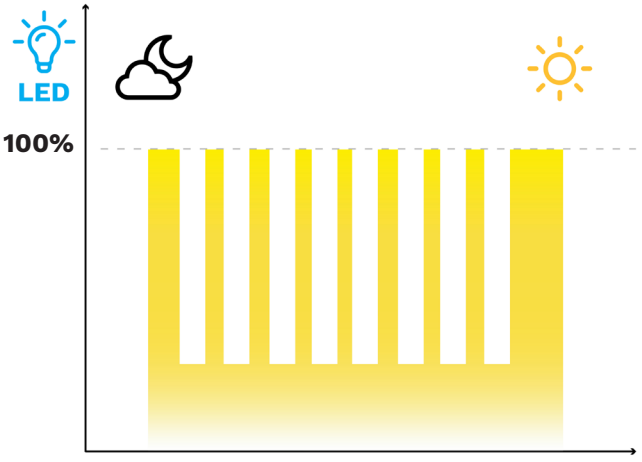
V4: night dimming to 40%



V5: partial switch OFF



Light on demand (sensor)



*Customised dimming profiles are available as an option.

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PROTOS WITH SCHRÉDER LUMINAIRES*

The PROTOS solution is available with a selection of Schréder luminaires. This combination offers the best of both world, bringing solar power to trusted, recognisable designs for areas where connection grid is not possible, while offering the extensive range of light distributions from the LensoFlex® platform.

TECEO SLR S

TECEO GEN2 SLR 1

IZYLUM NEO SLR 1

IZYLUM NEO SLR 2

*For more information about PROTOS with Schréder luminaires, please refer to the dedicated product datasheets.

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LIGHT DISTRIBUTIONS

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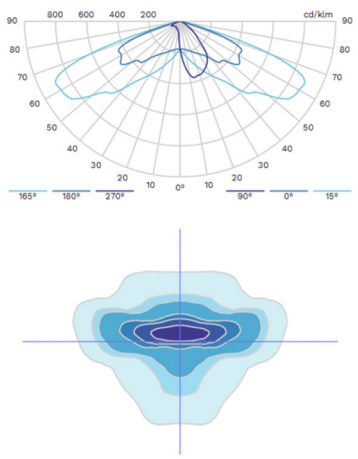

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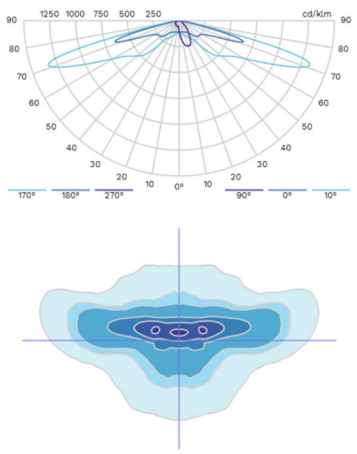

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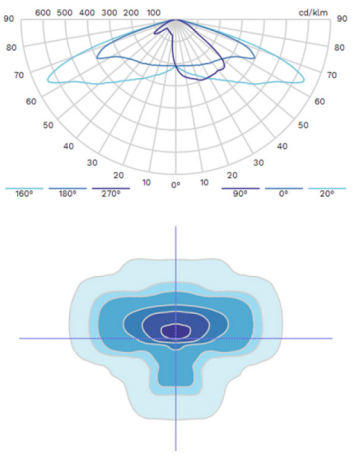

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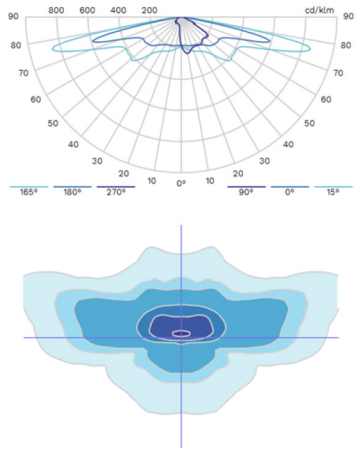

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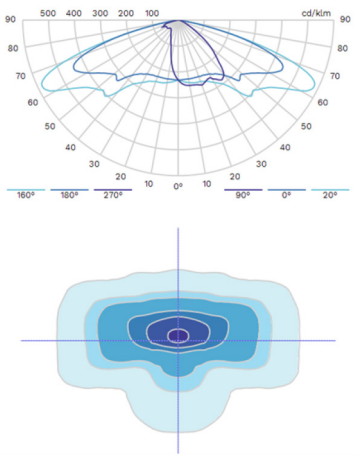

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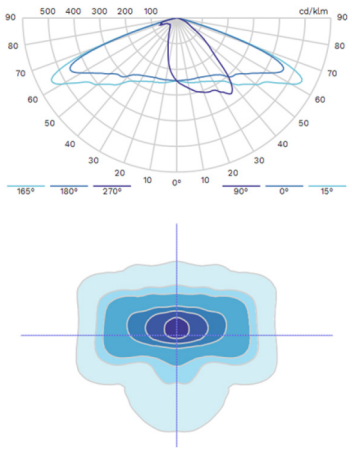

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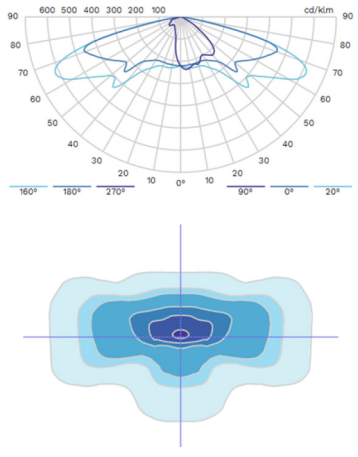

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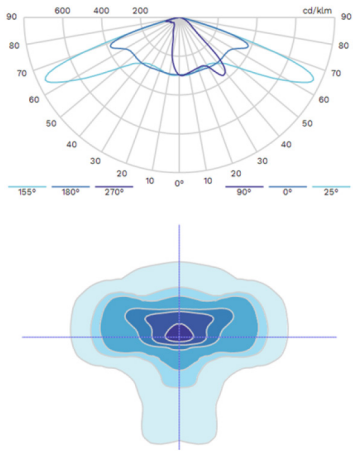

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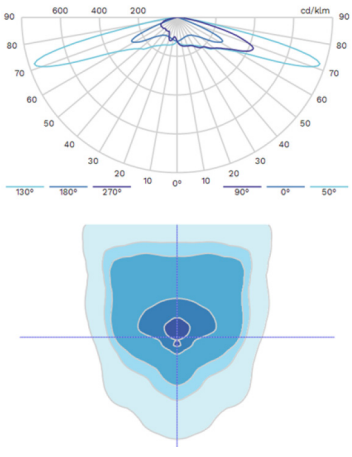

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LIGHT DISTRIBUTIONS

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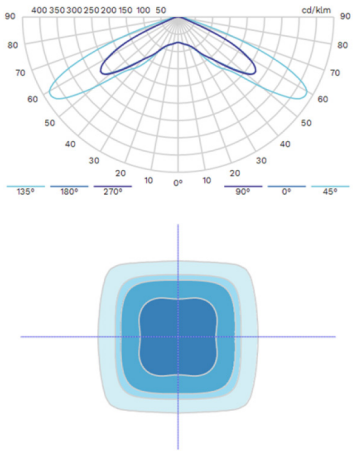

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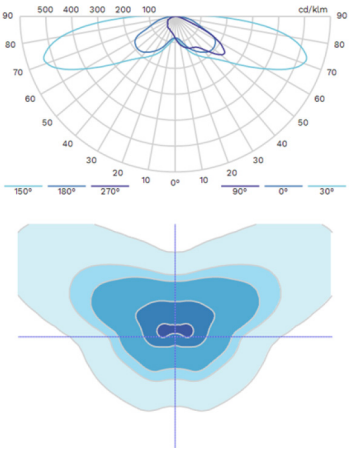

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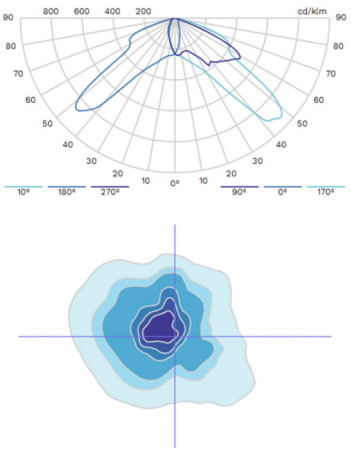

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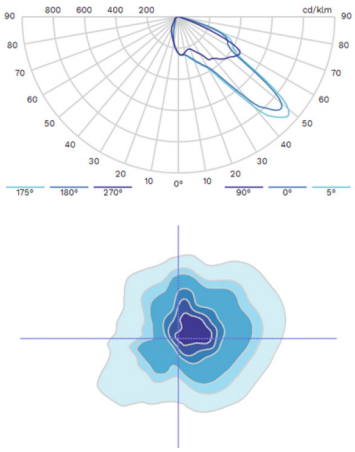

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