Schréder
Experts in lightability™

ROAD

Albany LED

owlet®

LENSO FLEX™ 2

A versatile best-seller converted to LED technology

A classic of the Victorian era, the Albany LED is notable for its versatility.

Available in two sizes, with a range of LED photometric engines and a timeless design, it is suitable for large urban centres as well as villages or towns.

Adopted from Spain to China and from Brazil to Malaysia, the design of the Albany

LED luminaire pleases at every latitude.

Equipped with state-of-the-art LED technology, this classic luminaire is ready to improve the quality, comfort and safety of your lighting installation while offering significant energy savings and reduced CO2 emissions.

IP 66

IK 08

RoHS

CE

URBAN & RESIDENTIAL STREETS

BRIDGES

BIKE & PEDESTRIAN PATHS

RAILWAY STATIONS & METROS

CAR PARKS

LARGE AREAS

SQUARES & PEDESTRIAN AREAS

ROADS & MOTORWAYS

Concept

The Albany LED luminaires are composed of an upper and a lower body of spun aluminum and a protector, made of UV-resistant polycarbonate for Albany Midi and thermoformed co-extruded polycarbonate for Albany Maxi.

Equipped with LensoFlex®2 photometric engines, Albany LED can be fitted with 16, 24, 32 or 48 LEDs and a series of lenses that cover a wide range of photometric solutions.

The gear compartment offers a tool less access using ¼ turn optic clamps. This operation allows the optical compartment to swivel open on a hinge.

To suit multiple technical requirements, Albany LED is available with various mounting possibilities. It can be installed using a suspended mounting: 1" or 1¼" gas (optional) male for female or female on male, all secured with a counter-nut.

Post-top mounting on a stirrup fork and catenary suspension are also available.

Two sizes to offer the best solution for every application.

Albany LED can be mounted using suspended, catenary and post-top fixations.

Types of application

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

Key advantages

- A classic shape with the advantages of LED technology
- Low energy consumption
- Photometric engine with light distributions adapted to various applications
- Two sizes for aesthetic consistency
- Robust and recyclable materials
- Numerous mounting options (various post-top or suspended)

Albany LED is available with a wide range of LensoFlex®2 optics.

Easy access to LED engine and control gear.

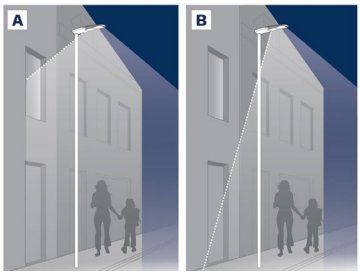
LensoFlex®2

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.

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.

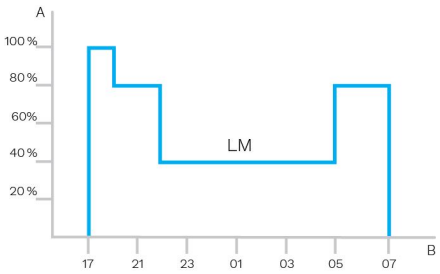


A. Without Back Light control | B. With Back Light control

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

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.

The Schréder Bluetooth solution consists of 3 main components:

- A Bluetooth dongle plugged into the modular driver of the luminaire (BLE transceiver)
- A Bluetooth antenna fitted on the luminaire
- A smartphone application called Sirius BLE

Easy to use

The Schréder Bluetooth solution is ideal for the on-site configuration of individual outdoor luminaires using Bluetooth. From the ground, the user is able to switch the luminaire on or off, adapt the dimming curve, read diagnostic data and much more. A user-friendly application called Sirius BLE provides an easy and secure access to the control and configuration functions.

Whether you are managing a lighting network in an urban or a residential area, this solution will make it easy to control your outdoor luminaires while simply standing by the pole.

Quick and easy pairing

Get the Sirius App from Schréder. Go to the menu. Press the “SCAN DEVICE (START)” button, to search for the surrounding BLE modules. They will be displayed with a bar graphic (signal intensity) to indicate the closest and the most distant one you can reach. Click on the device you want to connect to and enter your personal access key to control the luminaire.

Defining the settings

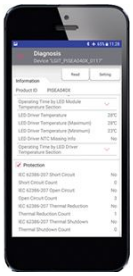
Once you are connected to a luminaire, you can set various parameters such as the maximum output current, minimum dimming level and custom dimming profile.

Manual dimming control

The App enables you to do a manual override to adapt the dimming levels instantly. Simply tap on the “Dimming” button in the main menu and adjust the dimming using the wheel and button. Predefined dimming levels can be applied immediately. The corresponding value is displayed on the wheel. This enables you to test the ON / OFF and dimming features of the luminaire paired to the smartphone.

On-site diagnostic

When a luminaire is paired, you can access various diagnostic information: total number of power up events, operation time of LED module and driver, total energy consumption of LED driver... etc. You can also track operating events (short circuits, thermal shutdowns...). The diagnostic values may be the current state or values accumulated to date.



GENERAL INFORMATION

Recommended installation height	4m to 10m | 13' to 33'
Driver included	Yes
CE Mark	Yes
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	Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 08
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	Toolless access to gear compartment

· The gear compartment is IP 43.
· Any other RAL or AKZO colour upon request

OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +50 °C / -22 °F up to 122 °F with wind effect

· 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 / EN 61000-3-2 / EN 61000-4-5 / EN 61547
Control protocol(s)	Bluetooth, 1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Socket option(s)	Low voltage socket NEMA 7-pin
Associated control system(s)	Sirius BLE Owlet Nightshift Owlet IoT

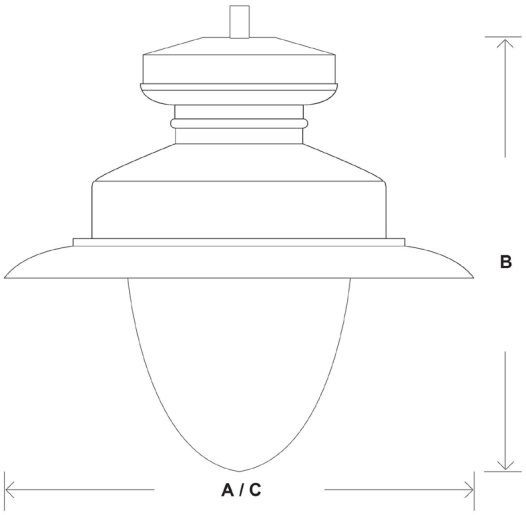
OPTICAL INFORMATION

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)	<5%

· ULOR may be different according to the configuration. Please consult us.

DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	Albany MIDI LED - 590x570x590 | 23.2x22.4x23.2 Albany MAXI LED - 700x650x700 | 27.6x25.6x27.6
Weight (kg | lbs)	Albany MIDI LED - 8 | 17.6 Albany MAXI LED - 10 | 22.0
Aerodynamic resistance (CxS)	Albany MIDI LED - 0.10 Albany MAXI LED - 0.14
Mounting possibilities	Post-top slip-over – Ø60mm Post-top slip-over – Ø76mm Post-top slip-over – Ø89mm Post-top slip-over – Ø101mm Suspended 1" gas male Suspended 1" 1/4 gas male Suspended 1" gas female Catenary



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	
Albany MIDI LED	16	200	1000	1300	1200	1500	1200	1500	11	11	136	
	16	300	1500	1800	1600	2100	1700	2100	15.8	15.8	133	
	16	400	1800	2300	2100	2600	2100	2700	20.8	20.8	130	
	16	500	2200	2700	2400	3000	2500	3100	25.9	25.9	120	
	16	600	2500	3100	2700	3400	2800	3600	31.1	31.1	116	
	16	700	2700	3400	3000	3800	3100	3900	36.4	36.4	107	
	16	850	3000	3700	3300	4200	3400	4300	44.5	44.5	97	
	16	900	3100	3800	3400	4300	3500	4400	47	47	94	
	16	1000	3200	4000	3500	4400	3600	4600	52	52	88	
	24	200	1600	2000	1800	2200	1800	2300	15.4	15.4	149	
	24	300	2200	2800	2500	3100	2600	3200	22.5	22.5	142	
	24	400	2800	3500	3100	3900	3200	4000	29.9	29.9	134	
	24	590	3700	4600	4100	5100	4200	5300	44.5	44.5	119	
	24	700	4100	5100	4500	5700	4700	5900	53.5	53.5	110	
	24	800	4400	5500	4900	6100	5000	6300	61.5	61.5	102	
	24	900	4600	5800	5100	6400	5300	6700	69.5	69.5	96	
	24	1000	4800	6000	5300	6700	5500	6900	78	78	88	

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

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	
Albany MIDI LED	32	200	2100	2700	2400	3000	2500	3100	20	20	155	LENSO FLEX°2
	32	300	3000	3700	3300	4200	3400	4300	29.6	29.6	145	LENSO FLEX°2
	32	450	4100	5100	4500	5700	4700	5900	45.5	45.5	130	LENSO FLEX°2
	32	500	4400	5500	4900	6100	5100	6300	50	50	126	LENSO FLEX°2
	32	600	5000	6200	5500	6900	5700	7200	60	60	120	LENSO FLEX°2
	32	700	5400	6800	6100	7600	6300	7900	70	70	113	LENSO FLEX°2
	32	800	5800	7300	6500	8200	6700	8400	80	80	105	LENSO FLEX°2
	32	900	6200	7700	6900	8600	7100	8900	89	89	100	LENSO FLEX°2
	32	1000	6400	8000	7100	8900	7300	9200	99	99	93	LENSO FLEX°2
	48	200	3200	4100	3600	4500	3700	4700	28.9	28.9	163	LENSO FLEX°2
	48	300	4500	5600	5000	6300	5200	6500	43	43	151	LENSO FLEX°2
	48	400	5600	7000	6300	7800	6500	8100	57.5	57.5	141	LENSO FLEX°2
	48	550	7100	8800	7900	9800	8100	10200	80	80	128	LENSO FLEX°2
	48	600	7500	9400	8300	10400	8600	10800	86	86	126	LENSO FLEX°2
	48	700	8200	10300	9100	11400	9400	11800	101	101	117	LENSO FLEX°2

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

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	
Albany MAXI LED	16	200	1100	1300	1200	1500	1200	1500	11	11	136	
	16	300	1500	1800	1700	2100	1700	2100	15.8	15.8	133	
	16	400	1900	2300	2100	2600	2200	2700	20.8	20.8	130	
	16	500	2200	2700	2500	3000	2600	3100	25.9	25.9	120	
	16	600	2500	3100	2800	3400	2900	3600	31.1	31.1	116	
	16	700	2800	3400	3100	3800	3200	3900	36.4	36.4	107	
	16	850	3000	3700	3400	4200	3500	4300	44.5	44.5	97	
	16	900	3100	3800	3500	4300	3600	4400	47	47	94	
	16	1000	3200	4000	3600	4400	3700	4600	52	52	88	
	24	200	1600	2000	1800	2200	1900	2300	15.4	15.4	149	
	24	300	2300	2800	2500	3100	2600	3200	22.5	22.5	142	
	24	400	2800	3500	3200	3900	3300	4000	29.9	29.9	134	
	24	500	3500	4200	3900	4700	4000	4900	37.6	37.6	130	
	24	590	3800	4600	4200	5100	4300	5300	44.5	44.5	119	
	24	700	4200	5100	4600	5700	4800	5900	53.5	53.5	110	
	24	800	4500	5500	5000	6100	5100	6300	61.5	61.5	102	
	24	900	4700	5800	5200	6400	5400	6700	69.5	69.5	96	

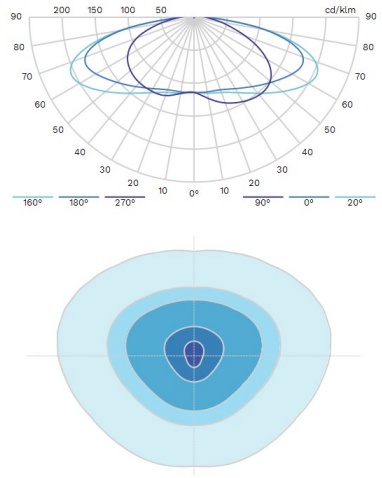
Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

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	
Albany MAXI LED	24	1000	4900	6000	5400	6700	5600	6900	78	78	88	LENSO FLEX°2
	32	200	2200	2700	2400	3000	2500	3100	20	20	155	LENSO FLEX°2
	32	300	3000	3700	3400	4200	3500	4300	29.6	29.6	145	LENSO FLEX°2
	32	450	4200	5100	4600	5700	4800	5900	45.5	45.5	130	LENSO FLEX°2
	32	500	4500	5500	5000	6100	5200	6300	50	50	126	LENSO FLEX°2
	32	600	5100	6200	5700	6900	5800	7200	60	60	120	LENSO FLEX°2
	32	700	5600	6800	6200	7600	6400	7900	70	70	113	LENSO FLEX°2
	32	800	6000	7300	6700	8200	6900	8400	80	80	105	LENSO FLEX°2
	32	900	6300	7700	7000	8600	7200	8900	89	89	100	LENSO FLEX°2
	32	1000	6500	8000	7300	8900	7500	9200	99	99	93	LENSO FLEX°2
	48	200	3300	4100	3700	4500	3800	4700	28.9	28.9	163	LENSO FLEX°2
	48	300	4600	5600	5100	6300	5300	6500	43	43	151	LENSO FLEX°2
	48	400	5700	7000	6400	7800	6600	8100	57.5	57.5	141	LENSO FLEX°2
	48	550	7200	8800	8000	9800	8300	10200	80	80	128	LENSO FLEX°2
	48	600	7600	9400	8500	10400	8800	10800	86	86	126	LENSO FLEX°2
	48	700	8400	10300	9300	11400	9700	11800	101	101	117	LENSO FLEX°2

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

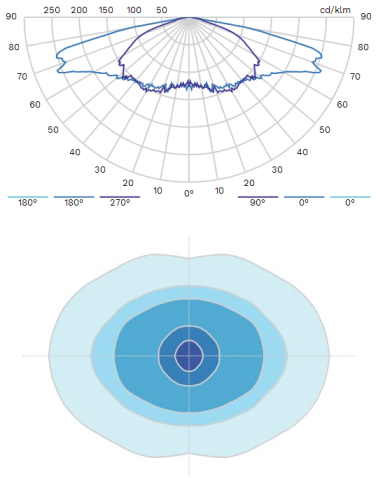
LENSO FLEX 2

5068



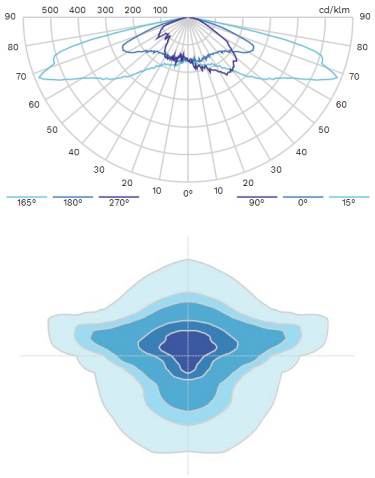
LENSO FLEX 2

5068 SY



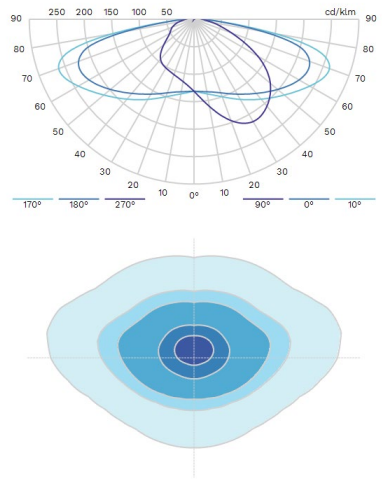
LENSO FLEX 2

5096



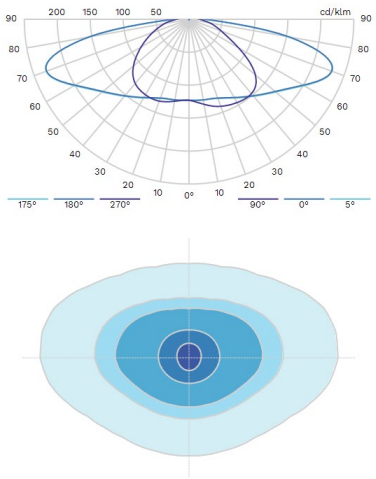
LENSO FLEX 2

5098



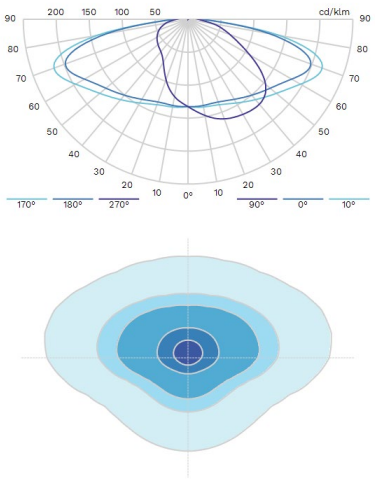
LENSO FLEX 2

5112



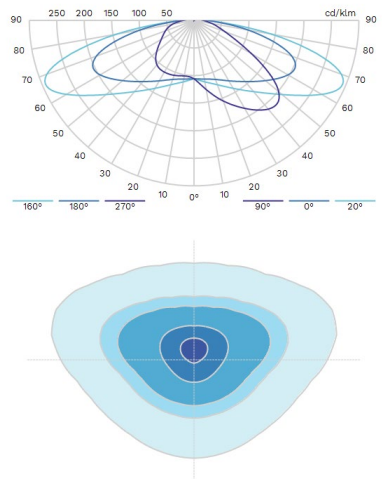
LENSO FLEX 2

5112 - BL



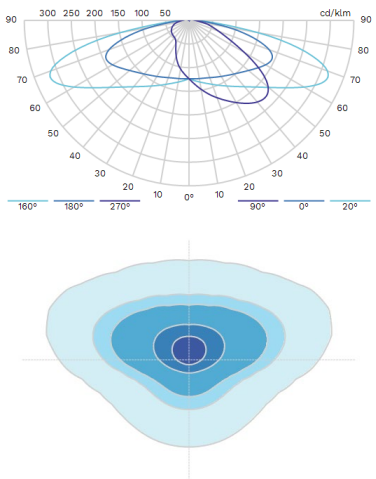
LENSO FLEX 2

5117



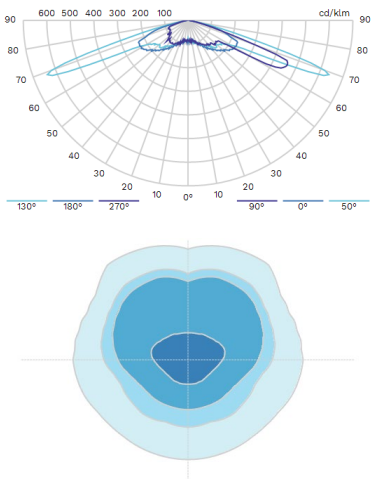
LENSO FLEX 2

5117 - BL



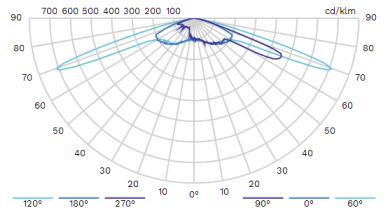
LENSO FLEX 2

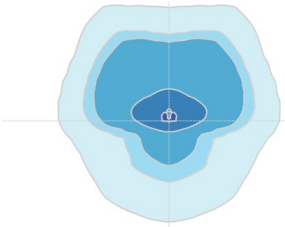
5119



LENSO FLEX 2

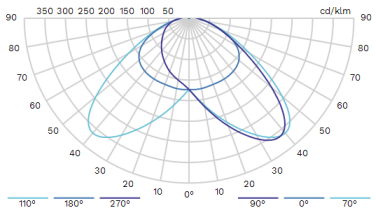
5119 - BL

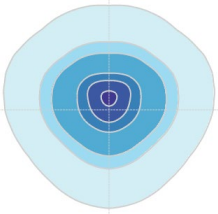




LENSO FLEX 2

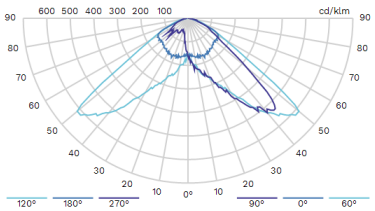
5120

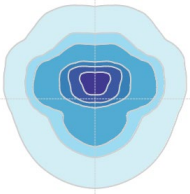




LENSO FLEX 2

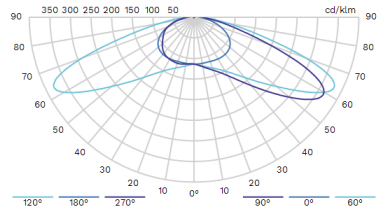
5120 - BL

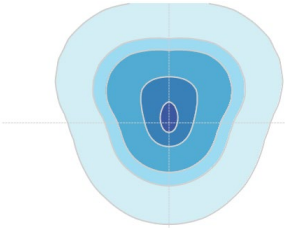




LENSO FLEX 2

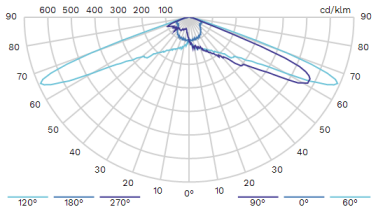
5121

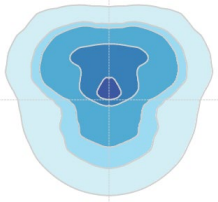




LENSO FLEX 2

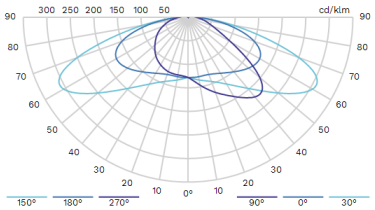
5121 - BL

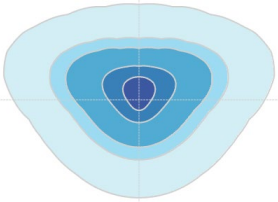




LENSO FLEX 2

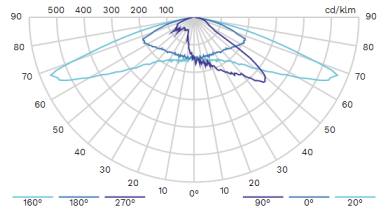
5139

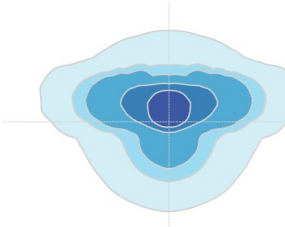




LENSO FLEX 2

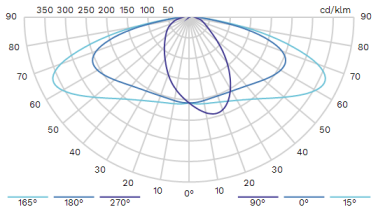
5139 - BL

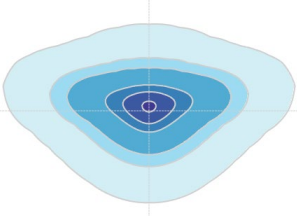




LENSO FLEX 2

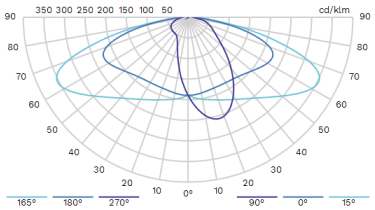
5140

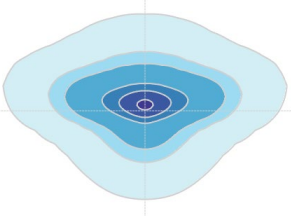




LENSO FLEX 2

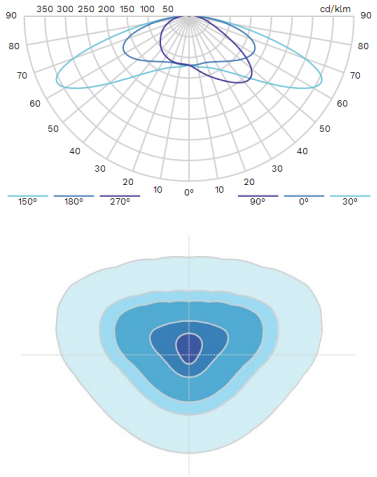
5140 - BL





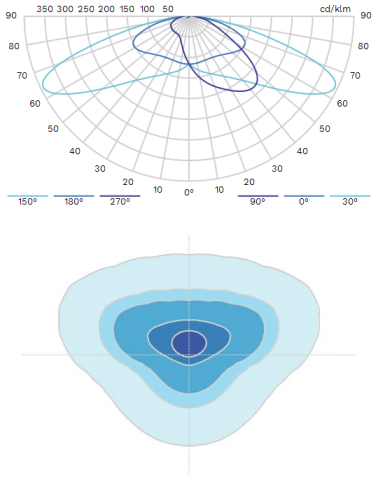
LENSO FLEX 2

5141



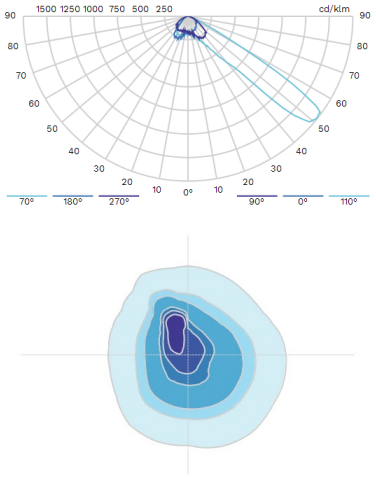
LENSO FLEX 2

5141 - BL



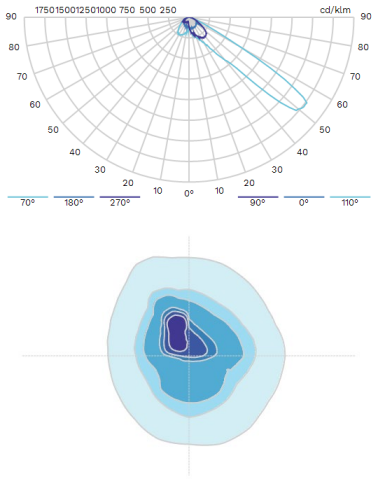
LENSO FLEX 2

5144 Zebra left



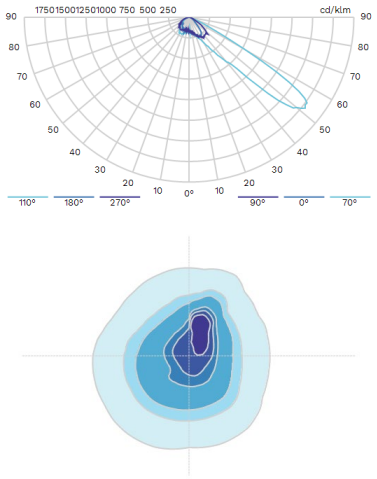
LENSO FLEX 2

5144 Zebra left BL



LENSO FLEX 2

5145 Zebra right



LENSO FLEX 2

5145 Zebra right BL