

Neos LED



Designer : Michel Tortel



Robust and versatile luminaire for all road and urban applications

Compact yet powerful, light yet robust, the Neos LED range provides multiple configurations to create comfort and security in numerous road and urban environments.

Available in three sizes and with multiple light distributions, the Neos LED provides a high-performing and energy-efficient lighting solution for pedestrian areas, streets, roads, car parks and bike paths.

This wide range of multi-purpose luminaires is designed to ensure that the lighting meets the real needs of the place to be lit.



IP 66

IK 08



005
certification



Concept

The Neos LED range combines the energy efficiency of LED technology with the photometric performance of the LensoFlex®2 concept developed by Schröder.

The Neos LED luminaires are composed of a two-piece housing made of painted die-cast aluminium. The glass protector is sealed onto the cover.

Mounting by means of a fork enables the inclination to be adjusted precisely on-site. The versatility of this fork makes it perfect for mounting on a surface, a wall or on a pole/bracket.

The Neos LED luminaires are available in three sizes to suit numerous outdoor lighting applications: Neos 1 with 16 or 24 LEDs, Neos 2 with 32 or 48 LEDs and Neos 3 with 64 LEDs.



The 3 sizes of Neos LED make it suitable for multiple outdoor lighting applications.



Neos LED is composed of a two-piece housing made of painted die-cast aluminium.

Types of application

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

Key advantages

- LensoFlex®2 photometric engine with photometry adapted to various applications
- Adjustable inclination on-site
- FutureProof: easy replacement of the photometric engine and electronic assembly on-site
- Dedicated family of bracket and poles
- Designed to incorporate Owlet range of control solutions: stand-alone (PIR, photocell...), autonomous network and interoperable network
- Surge protection 10kV



Mounting by means of a fork enables the inclination to be adjusted on-site.



Tool less opening for easy installation and maintenance.



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.

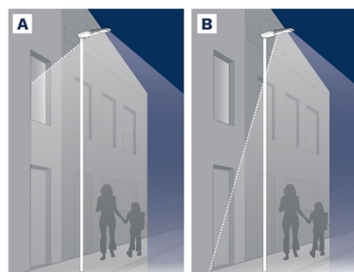
The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.



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.



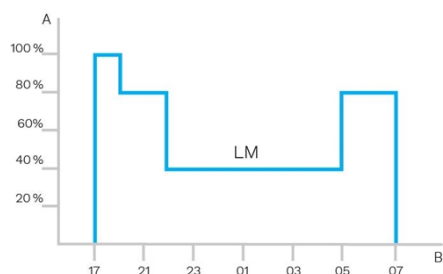
A. Without Back Light control | B. With Back Light control



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



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 parameters 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.



GENERAL INFORMATION

| | |
|---------------------------------|--|
| Recommended installation height | 4m to 8m 13' to 26' |
| FutureProof | Easy replacement of the photometric engine and electronic assembly on-site |
| Driver included | Yes |
| CE Mark | Yes |
| ENEC certified | Yes |
| ROHS compliant | Yes |
| BE 005 certified | 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 |

· Any other RAL or AKZO colour upon request

ELECTRICAL INFORMATION

| | |
|-------------------------------|---|
| Electrical class | Class I EU, Class II EU |
| Nominal voltage | 220-240V – 50-60Hz |
| Surge protection options (kV) | 10 |
| Control protocol(s) | 1-10V, DALI |
| Control options | AmpDim, Bi-power, Custom dimming profile, Photocell |
| Associated control system(s) | Owlet Nightshift |
| Sensor | PIR (optional) |

OPTICAL INFORMATION

| | |
|----------------------------------|--|
| LED colour temperature | 3000K (Warm White 730) 4000K (Neutral White 740) 6500K (Cool White 65) |
| Colour rendering index (CRI) | >70 (Warm White 730) >70 (Neutral White 740) >0 (Cool White 65) |
| Upward Light Output Ratio (ULOR) | 0% |

LIFETIME OF THE LEDS @ TQ 25°C

| | |
|--------------------|----------------|
| All configurations | 100,000h - L90 |
|--------------------|----------------|

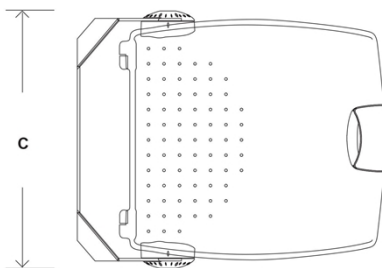
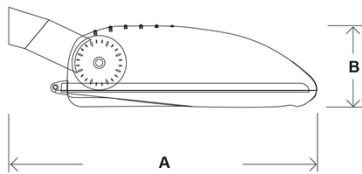
DIMENSIONS AND MOUNTING

| | |
|-------------------|--|
| AxBxC (mm inch) | NEOS 1 LED - 360x100x320 14.2x3.9x12.6 |
| | NEOS 2 LED - 441x140x398 17.4x5.5x15.7 |
| | NEOS 3 LED - 600x160x500 23.6x6.3x19.7 |

| | |
|-------------------|------------------------|
| Weight (kg lbs) | NEOS 1 LED - 3.4 7.5 |
| | NEOS 2 LED - 8 17.6 |
| | NEOS 3 LED - 8 17.6 |

| | |
|------------------------------|-------------------|
| Aerodynamic resistance (CxS) | NEOS 1 LED - 0.11 |
| | NEOS 2 LED - 0.18 |
| | NEOS 3 LED - 0.30 |

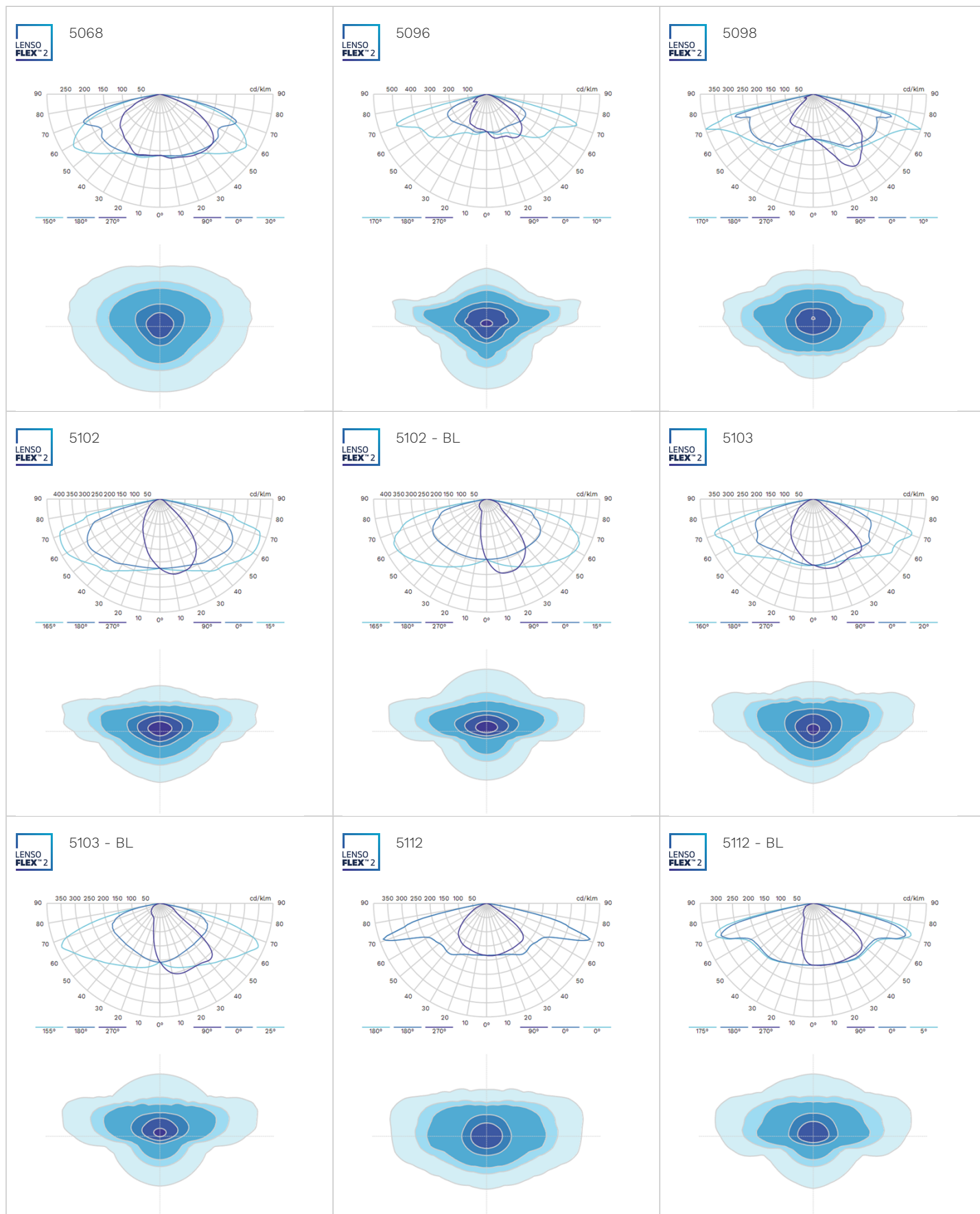
| | |
|------------------------|---|
| Mounting possibilities | Bracket enabling adjustable inclination |
|------------------------|---|

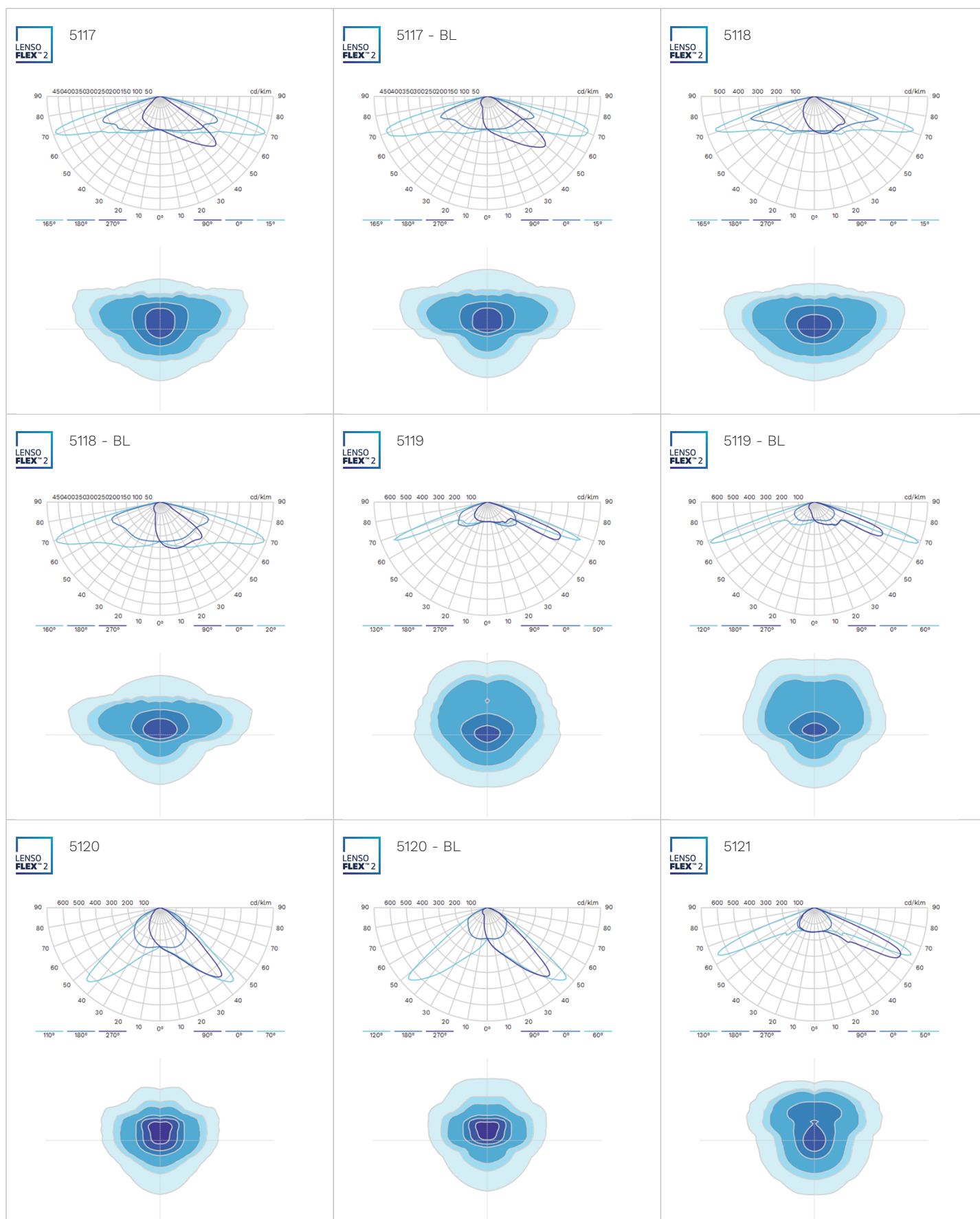




| | | | Luminaire output flux (lm) Warm White 730 | | Luminaire output flux (lm) Neutral White 740 | | Power consumption (W) | Luminaire efficacy (lm/W) | |
|------------|-------------------|--------------|--|-------|---|-------|-----------------------------|---------------------------------|------------|
| Luminaire | Number of LEDs | Current (mA) | Min | Max | Min | Max | | Up to | Photometry |
| NEOS 1 LED | 16 | 350 | 1800 | 2300 | 1900 | 2400 | 18.3 | 131 | |
| | 16 | 500 | 2500 | 3100 | 2600 | 3200 | 26.1 | 124 | |
| | 24 | 350 | 2800 | 3500 | 2900 | 3700 | 27 | 141 | |
| | 24 | 500 | 3700 | 4700 | 3900 | 4900 | 38.6 | 130 | |
| NEOS 2 LED | 32 | 350 | 3700 | 4700 | 3900 | 4900 | 35 | 144 | |
| | 32 | 500 | 4900 | 6200 | 5100 | 6400 | 50 | 131 | |
| | 48 | 350 | 5600 | 7100 | 5800 | 7300 | 52 | 146 | |
| | 48 | 500 | 7400 | 9400 | 7700 | 9700 | 74 | 133 | |
| NEOS 3 LED | 64 | 350 | 7300 | 9000 | 7500 | 9400 | 67.5 | 141 | |
| | 64 | 500 | 9600 | 11900 | 9900 | 12300 | 97 | 129 | |

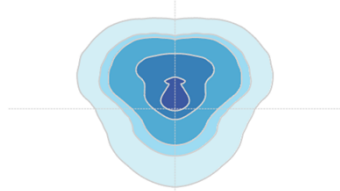
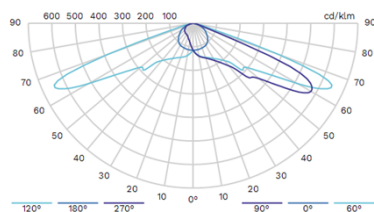
Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$





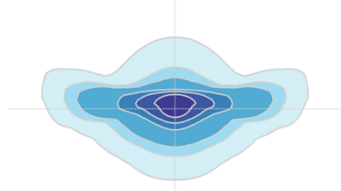
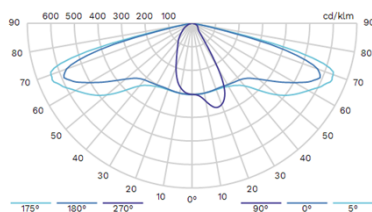
LENSO
FLEX²

5121 - BL



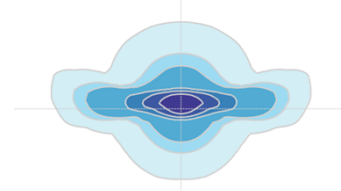
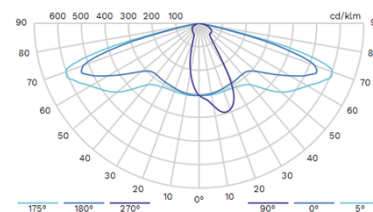
LENSO
FLEX²

5136



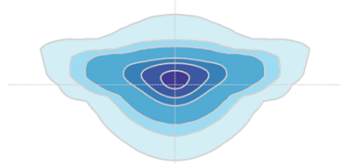
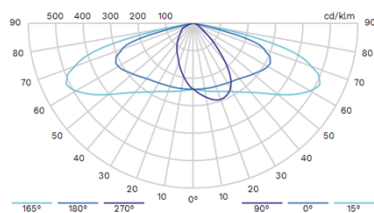
LENSO
FLEX²

5136 - BL



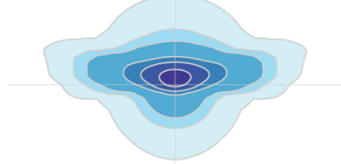
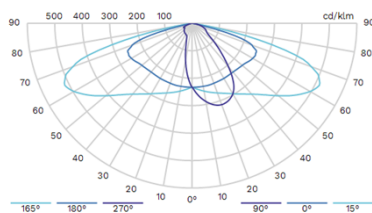
LENSO
FLEX²

5137



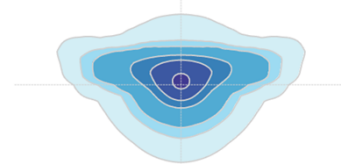
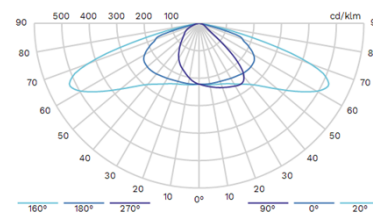
LENSO
FLEX²

5137 - BL



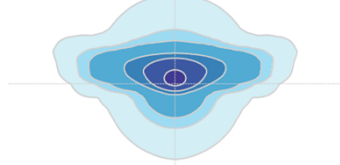
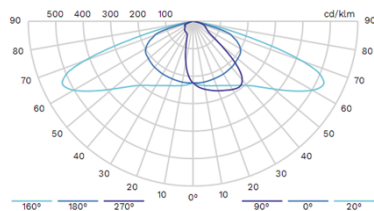
LENSO
FLEX²

5138



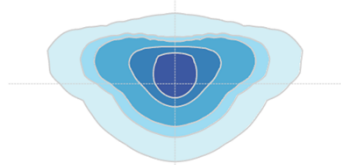
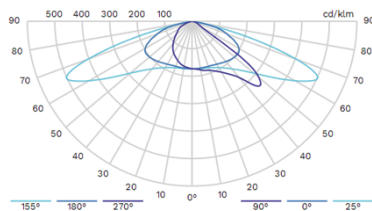
LENSO
FLEX²

5138 - BL



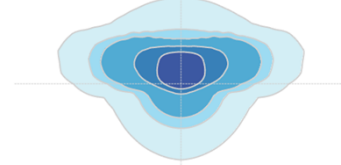
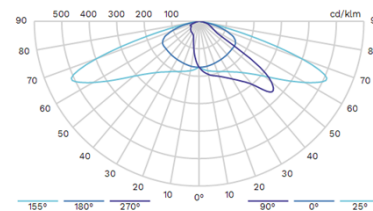
LENSO
FLEX²

5139



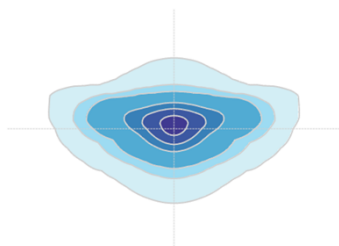
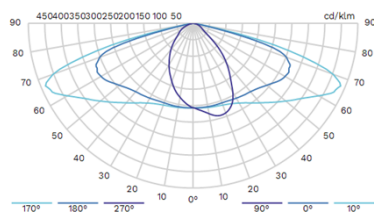
LENSO
FLEX²

5139 - BL



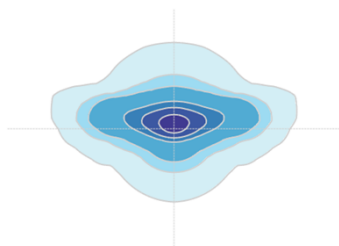
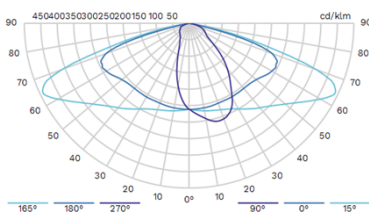
LENSO
FLEX²

5140



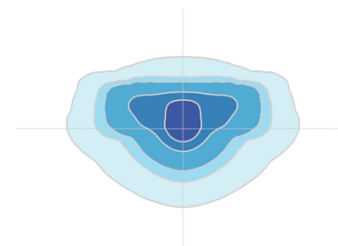
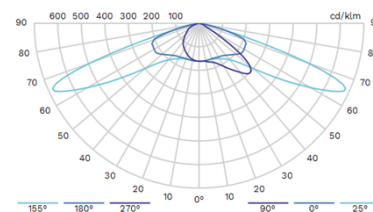
LENSO
FLEX²

5140 - BL



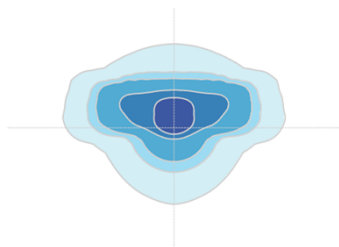
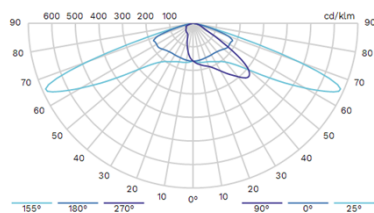
LENSO
FLEX²

5141



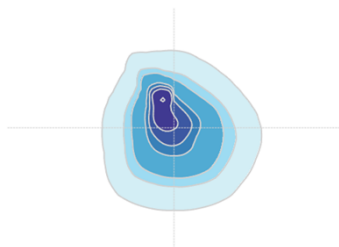
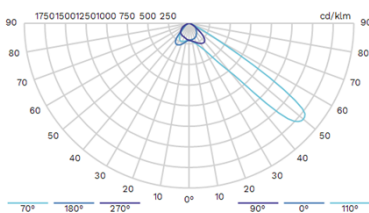
LENSO
FLEX²

5141 - BL



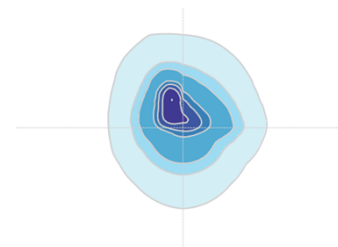
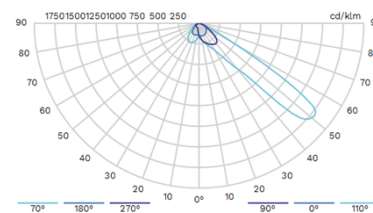
LENSO
FLEX²

5144 Zebra left



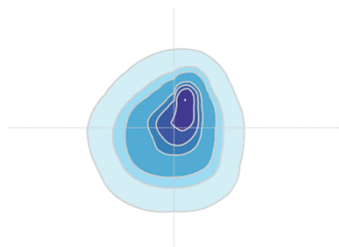
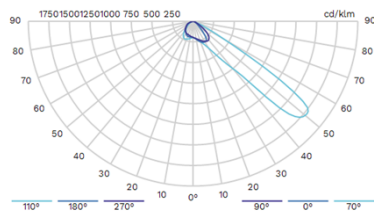
LENSO
FLEX²

5144 Zebra left BL



LENSO
FLEX²

5145 Zebra right



LENSO
FLEX²

5145 Zebra right BL

