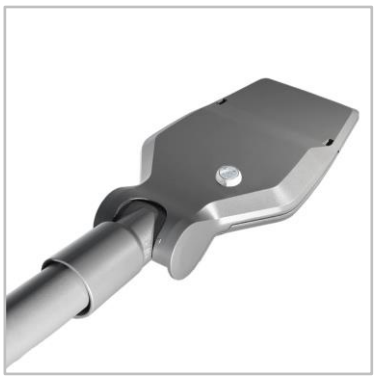
Schréder
Experts in lightability™

ROAD

# IZYLUM

Designer : Indio da Costa



MID FLEX™ 2 LENSO FLEX™ 4

## A time-saving, versatile and high-performing road and urban solution

Based on Schréder's experience and proven track record with road and urban LED lighting, the IZYLUM luminaire benefits from numerous innovations to provide the best experience for all stakeholders in public lighting: cities looking for a fast return on investment with an environmentally friendly, easy-to-operate lighting solution, contractors wanting to save time and avoid mistakes during installation, and citizens requiring safe and comfortable environments.

This connected-ready range of luminaires not only offers a realistic platform for smart cities; its compact, lightweight, optimised design minimises the carbon footprint at every stage of the product lifecycle. IZYLUM stands out as the best in class for a circular economy.

IP 66/67 | IP 66 | IK 09

RoHS | UK CA | CE | 005 certification

UL 1598
CSA C22.2 No. 250.0

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

## Concept

IZYLUM is a robust yet compact luminaire, designed with a focus on ease of installation and maintenance, enabling customers to extend its lifetime with future upgrades. Composed of two separate parts made of high-pressure die-casted aluminium, the body is sealed with tempered flat glass, offering a high degree of tightness and resistance to shocks.

Available in five sizes with a LED count of 10 to 240 LEDs, IZYLUM provides a well-dimensioned, efficient lighting solution ranging from various low-height applications such as parks, bicycle paths or residential streets to main roads, boulevards and motorways.

The IZYLUM range takes advantage of the latest photometric innovations. It uses the new LensoFlex®4 and MidFlexL 2 photometric engines, which have been developed around the ideas of performance, compactness, versatility and standardisation. They both fit in the same product design, no matter which photometrical concept is preferred.

To simplify installation and maintenance operations, IZYLUM introduces patented technologies such as the IzyFix universal fixation system enabling post-top or side-entry mounting. The luminaire offers tool-free access to the gear compartment. The bottom cover opens downwards and is retained by a hinge. Closing of the luminaire is confirmed with a clear, loud clicking noise, audible even in a noisy urban environment.

Supplied pre-wired (optional), IZYLUM is adapted to post-top and side-entry mounting on any spigot (Ø32mm, Ø42-48mm, Ø60mm and Ø76mm). The IzyFix system enables switching from one position to another at any time, without removing the luminaire from the pole. This unique feature eases installation and offers complete versatility regarding pole and bracket configurations.

The IzyFix system enables tilting within a 130° range and fully complies with IEC and ANSI 3G vibration standards.

## TYPES OF APPLICATION

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

## KEY ADVANTAGES

- Maximised savings in energy and maintenance costs
- New generation of LensoFlex®4 and MidFlexL 2 photometric engines offering high-efficiency lighting, comfort and safety
- 5 sizes to provide the most accurate solution for numerous road and urban applications
- Tool-free access with a clear, perceptible click upon closing
- On-site adjustment from post-top to side-entry without disconnecting the luminaire from the pole thanks to IzyFix
- Wide range of operating temperatures
- Zhaga-D4i certified
- Connected-ready
- Solar-powered variants

IZYLUM integrates two new highly efficient photometrical platforms.

The IzyFix universal fixation system with switching from a post-top to a side-entry position facilitates ordering and installing luminaires.

IZYLUM is compatible with the Circle Light Application, a straightforward, quick and cost-effective tool to interact with the luminaire, capture its data and manage settings.


IZYLUM is connected-ready and can operate with various sensors and control systems.

## LensoFlex®4

LensoFlex®4 maximises the heritage of the LensoFlex® concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With optimised light distributions and very high efficiency, this fourth generation enables the products to be downsized to meet application requirements with an optimised solution in terms of investment.

LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.

## MidFlex™2

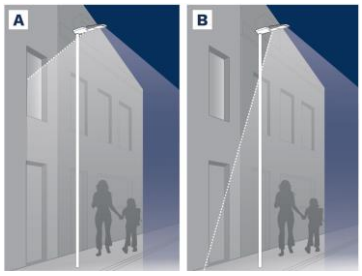
The second-generation MidFlex™ 2 photometric engine takes advantage of the latest generation of mid-power LEDs and dedicated optics for professional applications.

Designed to have the same footprint and fixations as the LensoFlex®4, the MidFlex™ 2 platform provides an alternative solution for those who are looking for very cost-effective yet efficient lighting while keeping the same luminaire design.

## Back Light control

As an option, the LensoFlex®2 and LensoFlex®4 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

## Embellishment plate

This accessory not only provides a more aesthetic solution as it covers the wires supplying the PCBA's with power, it also increases the lumen output thanks to its extra bright surface that reflects light out of the optical unit. Depending on the configuration, the embellishment plate can increase the lumen output by 2 to 3%.

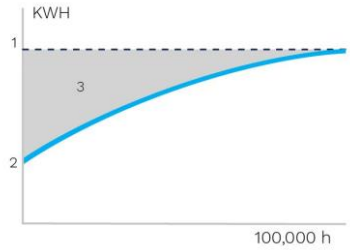
## Diamond cooling blocks

IZYLUM 5 features newly developed cooling blocks on the upper side of the optical compartment. Their diamond shape has been carefully designed to minimise dust and water accumulation while providing optimal thermal management to maintain performance over time.

## Constant Light Output (CLO)

This system compensates for the depreciation of luminous flux to avoid excess lighting at the beginning of the installation's service life. Luminous depreciation over time must be taken into account to ensure a predefined lighting level during the luminaire's useful life.

Without a CLO feature, this simply means increasing the initial power upon installation in order to make up for luminous depreciation. By precisely controlling the luminous flux, the energy needed to reach the required level can be maintained throughout the luminaire's life.

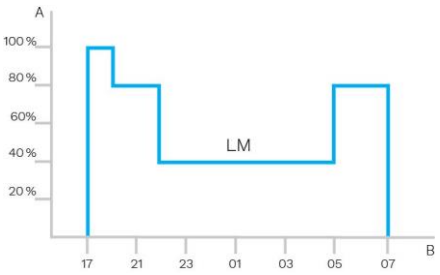



1. Standard lighting level | 2. LED lighting consumption with CLO | 3. Energy savings

## 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.



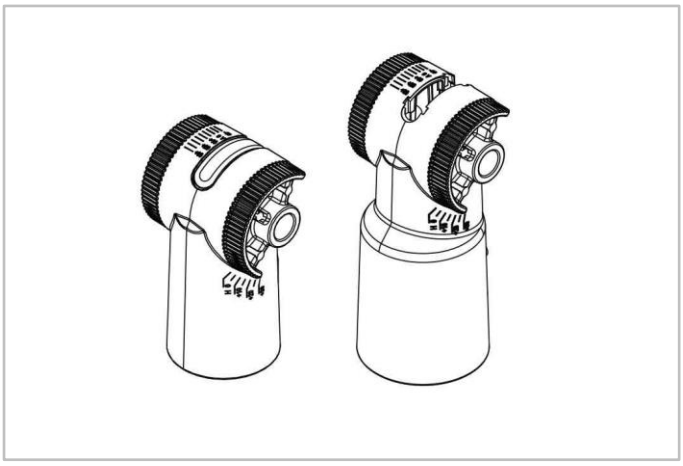

A. Dimming level | B. Time

## 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 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.

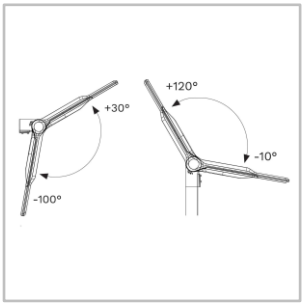
**The Schréder IzyFix patented high-pressure die-casted aluminium universal fixation system is an integral part of the luminaire mounted in the factory. The IzyFix system aims to fit needs worldwide by meeting IEC and ANSI 3G testing requirements. It is intended to simplify life for customers and installers in the process of purchasing and installing luminaires for various applications.**



## From post-top to side-entry in one movement

The innovative design allows changing from a side-entry to a post-top position – even with luminaires ordered with factory pre-cabling – without any switching work on the fixation or disconnection from the pole. Therefore the type of mounting (horizontal or vertical) does not have to be considered when ordering. This unique feature also eases installation. After setting the correct position, an accessory is provided to cover the resulting space and ensure further protection of the luminaire.

## Best-in-class tilting range




The IzyFix universal fixation system enables a best-in-class range of mounting angle of 130°*, to ensure maximum lighting performance for all kinds of road scenarios and offer the possibility of installing the luminaire in extreme situations as well. With a setting mark on the body and angles on the spigot, adjusting is carried out in 5° increments by loosening two screws. The wide tilting range enables more comfortable access to the gear compartment during field maintenance.

**Depending on the size and shape of the luminaire, the inclination angle may be reduced. For more accurate information, always consult the installation sheets.*

## Variation for all poles


Due to the many different applications used worldwide, Schréder has created a range of fixation systems and reducers to satisfy all needs that might come up on the market.

| | IzyFix Ø60mm | IzyFix Ø76mm |
|---|---|---|
| Ø32mm spigot | ✓ (with reducer) | ✓ (with reducer) |
| Ø42-48mm spigot | ✓ | ✓ (with reducer) |
| Ø60mm spigot | ✓ | ✓ |
| Ø76mm spigot | × | ✓ |

**Schréder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.**

## Standardisation for interoperable ecosystems

Schréder plays a key role in driving standardisation with alliances and partners such as uCIFI, TALQ or Zhaga. Our joint commitment is to provide solutions designed for vertical and horizontal IoT integration. From the body (hardware) to the language (data model) and the intelligence (algorithms), the complete Schréder EXEDRA system relies on shared and open technologies. Schréder EXEDRA also relies on Microsoft Azure for cloud services, provided with the highest levels of trust, transparency, standards conformance and regulatory compliance.

## Breaking the silos

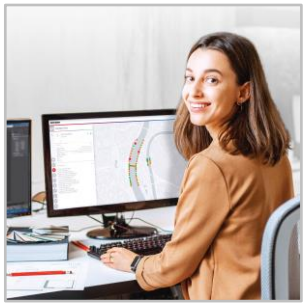
With EXEDRA, Schréder has taken a technology-agnostic approach: we rely on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions. Schréder EXEDRA is designed to unlock complete interoperability, as it offers the ability to:

- control devices (luminaires) from other brands
- manage controllers and to integrate sensors from other brands
- connect with third-party devices and platforms

## A plug-and-play solution

As a gateway-less system using the cellular network, an intelligent automated commissioning process recognises, verifies and retrieves luminaire data into the user interface. The self-healing mesh between luminaire controllers enables real-time adaptive lighting to be configured directly via the user interface. OWLET IV luminaire controllers, optimised for Schréder EXEDRA, operate Schréder's luminaires and luminaires from third parties. They use both cellular and mesh radio networks, optimising geographical coverage and redundancy for continuous operation.

## Tailored experience



Schréder EXEDRA includes all advanced features needed for smart device management, real-time and scheduled control, dynamic and automated lighting scenarios, maintenance and field operation planning, energy consumption management and third-party connected hardware integration. It is fully configurable and includes tools for user management and multi-tenant policy that enables contractors, utilities or big cities to segregate projects.

## A powerful tool for efficiency, rationalisation and decision making

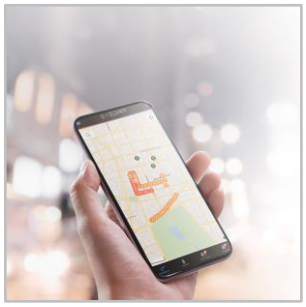
Data is gold. Schréder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help end-users take the right actions.

## Protected on every side

ISO 27001
BUREAU VERITAS
Certification

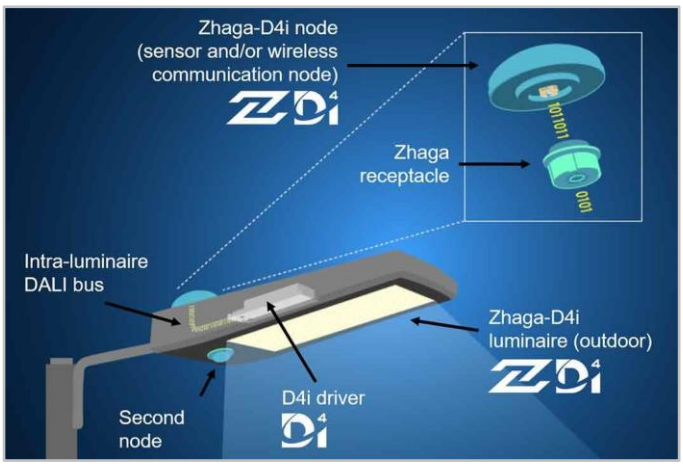
Schréder EXEDRA provides state-of-the-art data security with encryption, hashing, tokenisation, and key management practices that protect data across the whole system and its associated services. The whole platform is ISO 27001 certified. It demonstrates that Schréder EXEDRA meets the requirements for establishing, implementing, maintaining and continually improving security management.

## Mobile App: any time, any place, connect to your street lighting



The Schréder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting. It enables real-time control and settings, and contributes to effective maintenance.

**The Zhaga consortium joined forces with the DiiA and produced a single Zhaga-D4i certification that combines the Zhaga Book 18 version 2 outdoor connectivity specifications with the DiiA's D4i specifications for intra-luminaire DALI.**




## Standardisation for interoperable ecosystems

Member of Zhaga

As a founding member of the Zhaga consortium, Schréder has participated in the creation of, and therefore supports, the Zhaga-D4i certification program and the initiative of this group to standardise an interoperable ecosystem. The D4i specifications take the best of the standard DALI2 protocol and adapt it to an intra-luminaire environment but it has certain limitations. Only luminaire mounted control devices can be combined with a Zhaga-D4i luminaire. According to the specification, control devices are limited respectively to 2W and 1W average power consumption.

## Certification program

The Zhaga-D4i certification covers all the critical features including mechanical fit, digital communication, data reporting and power requirements within a single luminaire, ensuring plug-and-play interoperability of luminaires (drivers) and peripherals such as connectivity nodes.

## Cost-effective solution

A Zhaga-D4i certified luminaire includes drivers offering features that had previously been in the control node, like energy metering, which has in turn simplified the control device therefore reducing the price of the control system.

## 2 sockets: top and bottom

The Zhaga socket is small and suited to applications where aesthetics is essential. The architecture of Zhaga-D4i also foresees the possibility of putting two sockets on one luminaire, allowing for instance, the combination of a detection sensor and a control node. This also has the added value of standardising certain detection sensor communications with the D4i protocol.

**Schréder EKINOX powered by Sunna Design is an eco-friendly solar lighting solution that combines renewable energy production with Schréder's renowned photometries, achieving optimal lighting levels while reducing carbon emissions and preserving the environment. This stand-alone solution consists of three solar kits (with two battery capacity options) paired with dedicated Schréder luminaires that are equipped with 20 to 80 high-power LEDs.**

Schréder EKINOX POWERED BY Sunna DESIGN

## Smart lighting package

Schréder EKINOX powered by Sunna Design revolutionises the deployment of renewable energy lighting solutions with its innovative design. It features frameless solar panels, advanced battery technology, intelligent in-built electronics, and luminaires equipped with LensoFlex®4 photometric engines to fully optimise solar lighting. With three customisable package options available, this solution sets a new standard for ease and efficiency.

| SE1 | SE2 | SE4 |
|---|---|---|
| 20 LEDs | 20 or 40 LEDs | 40 or 80 LEDs |
| 1,800lm | 3,500/3,700lm | 7,100/7,500lm |
| Up to 180lm/W | Up to 180lm/W | Up to 180lm/W |

## Straightforward implementation

Schréder EKINOX powered by Sunna Design simplifies on-site deployment and ensures optimal performance with its user-friendly design. The SE solar kits feature post-top mounting for Ø60mm (SE1 and SE2) or Ø76mm (SE4) spigots. With the help of its partners, Schréder provides comprehensive solutions that include reinforced poles and brackets that are compliant with EN40 calculation standards and have CE marking.

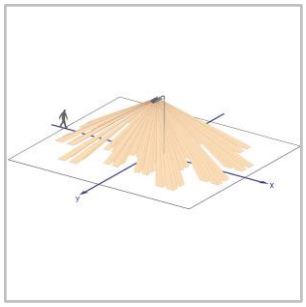
## Separate tilt settings

Optimising solar energy harvesting and light distribution on a site require different settings. This can only be achieved when the solar panel and luminaire are separate. Schréder EKINOX allows for this flexibility within its design, as the solar panels can be tilted to the optimal angle, ranging from 0 to 50° (depending on the selected SE kit). The connection between the solar panels and luminaire is made using a cable with coded connectors, eliminating the risk of installation errors, and ensuring easy and efficient installation.

## Specific dimming profiles

The energy capacity of a solar-powered luminaire is limited and should be managed carefully. To ensure that the right panel and battery size is chosen for the specific local requirements, such as light levels, autonomy days, and traffic density, several pre-configured profiles are available at the time of ordering. The chosen dimming scenario can also be modified on-site by Schréder's local customer service team to meet the specific needs of the site.

## Motion detection feature



As an additional feature, the luminaire can be equipped with a motion sensor (PIR) to enhance safety and user experience. The dimming scenario can be overridden by motion detection (vehicles, bicycles, or pedestrians) resulting in the light level rising to 100% for a brief period, maximising visibility and ensuring safety for users.

## Smart management to prevent blackouts

Managing energy use intelligently is crucial as the level of charge in the battery when the luminaire is turned on can vary depending on the energy accumulated throughout the day. The on-board electronics in Schréder EKINOX intelligently divide the night into three parts, and adjust the light level accordingly, to prevent blackout situations and ensure seamless operation.

## GENERAL INFORMATION

| | |
|---|---|
| Recommended installation height | 4m to 15m \| 13' to 49' |
| Circle Light label | Score ≥90 - The product fully meets circular economy requirements |
| Driver included | Yes |
| CE mark | Yes |
| ENEC certified | Yes |
| ENEC+ certified | Yes |
| UL certified | Yes |
| ROHS compliant | Yes |
| Zhaga-D4i certified | Yes |
| BE 005 certified | Yes |
| UKCA marking | Yes |
| Testing standard | EN 60598-1<br>EN 60598-2-3<br>IEC TR 62778<br>EN 62262<br>LM 79-08 (all measurements in ISO17025 accredited laboratory)<br>LM 80 (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, IP66/IP67 |
| Impact resistance | IK 09 |
| Vibration test | Compliant with ANSI C 136-31 standard, 3G load and modified IEC 68-2-6 (0.5G) |
| Access for maintenance | Tool-less access to gear compartment |

· *Any other RAL or AKZO colour upon request*

## OPERATING CONDITIONS

| | |
|---|---|
| Operating temperature range (Ta) | -40°C up to +55°C / -40°F up to 131°F with wind effect |

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

## ELECTRICAL INFORMATION

| | |
|---|---|
| Electrical class | Class 1 US, Class I EU, Class II EU |
| Nominal voltage | 120-277V – 50-60Hz<br>220-240V – 50-60Hz<br>347V - 50-60Hz |
| Surge protection options (kV) | 6<br>8<br>10 |
| Electromagnetic compatibility (EMC) | EN 55015:2013/A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015 |
| Control protocol(s) | 1-10V, DALI |
| Control options | AmpDim, Bi-power, Custom dimming profile, Photocell, Remote management |
| Socket | Zhaga (optional)<br>NEMA 7-pin (optional) |
| Associated control system(s) | Schréder EXEDRA |
| Sensor | PIR (optional) |

## OPTICAL INFORMATION

| | |
|---|---|
| LED colour temperature | 0K (R )<br>2200K (WW 722)<br>2700K (WW 727)<br>3000K (WW 730)<br>3000K (WW 830)<br>4000K (NW 740)<br>5700K (CW 757) |
| Colour rendering index (CRI) | >0 (R )<br>>70 (WW 722)<br>>70 (WW 727)<br>>70 (WW 730)<br>>80 (WW 830)<br>>70 (NW 740)<br>>70 (CW 757) |
| ULOR | 0% |
| ULR | 0% |

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

## LIFETIME OF THE LEDS @ TQ 25°C

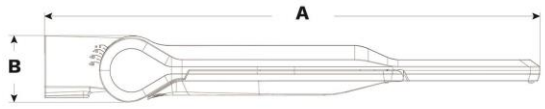
| | |
|---|---|
| All configurations | 60,000h - L80 (mid-power LEDs)<br>100,000h - L95 (high-power LEDs) |

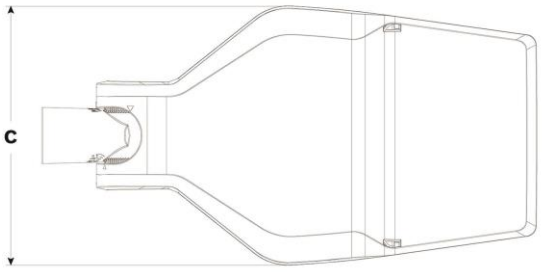
· *Lifetime may be different according to the size/configurations. Please consult us.*

## DIMENSIONS AND MOUNTING

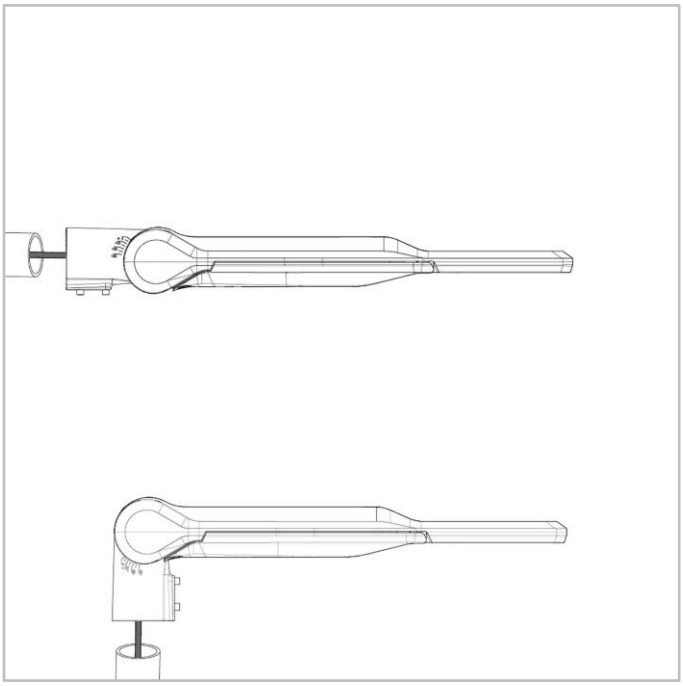
| | |
|---|---|
| AxBxC (mm \| inch) | IZYLUM 1 : 587x94x294 \| 23.1x3.7x11.6<br>IZYLUM 2 : 604x94x352 \| 23.8x3.7x13.9<br>IZYLUM 3 : 715x94x368 \| 28.1x3.7x14.5<br>IZYLUM 4 : 873x94x390 \| 34.4x3.7x15.4<br>IZYLUM 5 : 873x94x390 \| 34.4x3.7x15.4 |
| Weight (kg \| lbs) | IZYLUM 1 : 4.9-5.9 \| 10.8-13.0<br>IZYLUM 2 : 6.3-7.3 \| 13.9-16.1<br>IZYLUM 3 : 7.0-8.3 \| 15.4-18.3<br>IZYLUM 4 : 9.9-12.1 \| 21.8-26.6<br>IZYLUM 5 : 10.3-12.6 \| 22.7-27.7 |
| Aerodynamic resistance (CxS) | IZYLUM 1 : 0.03<br>IZYLUM 2 : 0.03<br>IZYLUM 3 : 0.03<br>IZYLUM 4 : 0.03<br>IZYLUM 5 : 0.03 |
| Mounting possibilities | Side-entry slip-over – Ø32mm<br>Side-entry slip-over – Ø42mm<br>Side-entry slip-over – Ø48mm<br>Side-entry slip-over – Ø60mm<br>Side-entry penetrating – Ø60mm<br>Post-top slip-over – Ø32mm<br>Post-top slip-over – Ø42mm<br>Post-top slip-over – Ø48mm<br>Post-top slip-over – Ø60mm<br>Post-top slip-over – Ø76mm<br>Post-top penetrating – Ø60mm |

· *Dimensions given for IZYLUM with Ø60mm spigot (side-entry mounting)*
· *Size and weight may be different according to the configuration. Please consult us for more information.*

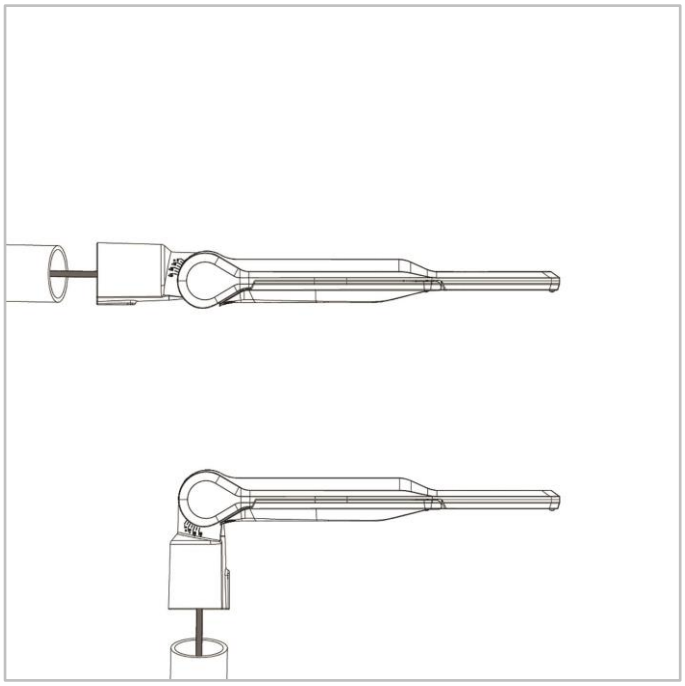


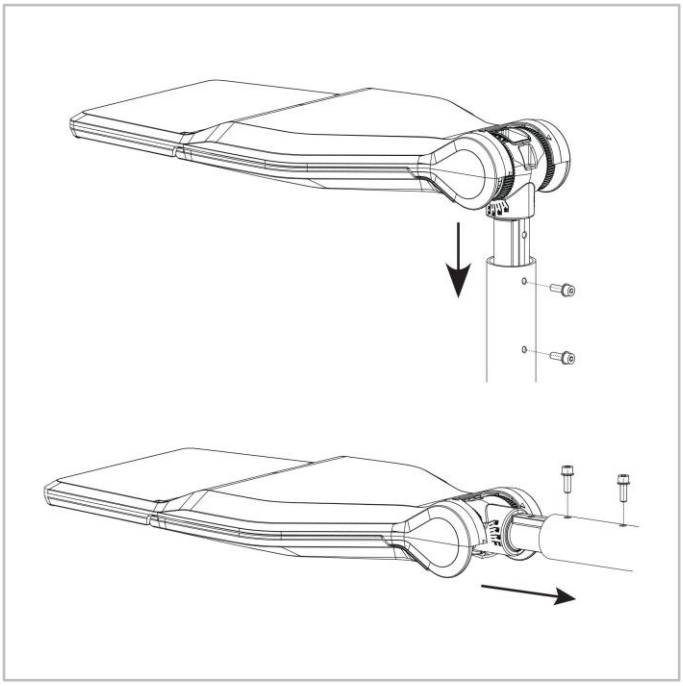
## IZYLUM | Slip-over mounting for Ø32-60mm spigot - 2xM10 screws



## IZYLUM | Slip-over mounting for Ø32-76mm spigot - 2xM10 screws



## IZYLUM | Penetrating fixation for Ø60mm spigot - 2xM8 screws



IZYLUM 1

Photometry

LENSO FLEX™4

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 10 | 600 | 3000 | 700 | 3500 | 800 | 3800 | 700 | 3600 | 800 | 4100 | 800 | 4000 | 7 | 34 | 150 |
| 20 | 1200 | 6100 | 1400 | 7100 | 1600 | 7700 | 1500 | 7300 | 1700 | 8200 | 1600 | 8000 | 13 | 65 | 165 |

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

IZYLUM 1

Photometry

MID FLEX™2

| | Luminaire output flux (lm) | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|
| | Warm White 730 | | Neutral White 740 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Up to |
| 40 | 1300 | 6100 | 1400 | 6600 | 11 | 56 | 149 |

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

IZYLUM 2

Photometry

LENSO FLEX™4

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 30 | 1900 | 8400 | 2200 | 9700 | 2400 | 10600 | 2300 | 10000 | 2600 | 11200 | 2500 | 11000 | 19 | 82 | 175 |
| 40 | 2600 | 11200 | 3000 | 12900 | 3200 | 14200 | 3000 | 13300 | 3400 | 15000 | 3300 | 14600 | 24 | 109 | 179 |

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

IZYLUM 2

Photometry

MID FLEX™2

| | Luminaire output flux (lm) | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|
| | Warm White 730 | | Neutral White 740 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Up to |
| 80 | 2800 | 12000 | 3000 | 12800 | 20 | 107 | 164 |

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

IZYLUM 3

Photometry

LENSO FLEX™4

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 40 | 2600 | 9500 | 3000 | 11000 | 3200 | 12000 | 3100 | 11300 | 3400 | 12700 | 3400 | 12400 | 24 | 86 | 179 |
| 50 | 3300 | 11800 | 3800 | 13500 | 4200 | 14800 | 3900 | 13900 | 4400 | 15700 | 4300 | 15300 | 30 | 108 | 182 |
| 60 | 3900 | 14100 | 4500 | 16300 | 4900 | 17800 | 4600 | 16700 | 5200 | 18900 | 5100 | 18400 | 35 | 128 | 184 |
| 70 | 4600 | 15900 | 5300 | 18300 | 5800 | 20000 | 5500 | 18800 | 6200 | 21200 | 6000 | 20600 | 41 | 142 | 184 |
| 80 | 5200 | 17900 | 6000 | 20600 | 2800 | 22600 | 6200 | 21200 | 3000 | 23900 | 6800 | 23300 | 20 | 162 | 183 |

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

IZYLUM 3

Photometry

MID FLEX™2

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 80 | 5200 | 17900 | 6000 | 20600 | 2800 | 22600 | 6200 | 21200 | 3000 | 23900 | 6800 | 23300 | 20 | 162 | 183 |
| 120 | - | - | - | - | 4200 | 15600 | - | - | 4500 | 16700 | - | - | 29 | 127 | 169 |
| 160 | - | - | - | - | 5700 | 20300 | - | - | 6100 | 21800 | - | - | 38 | 167 | 167 |

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

IZYLUM 4

Photometry

LENSO FLEX™4

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 70 | 4700 | 14300 | 5400 | 16500 | 5900 | 18000 | 5500 | 17000 | 6200 | 19100 | 6100 | 18600 | 41 | 127 | 184 |
| 80 | 5200 | 16400 | 6000 | 18800 | 6600 | 20600 | 6200 | 19400 | 7000 | 21900 | 6800 | 21300 | 46 | 144 | 186 |
| 100 | 6500 | 20500 | 7500 | 23600 | 8200 | 25800 | 7700 | 24300 | 8700 | 27300 | 8500 | 26600 | 58 | 182 | 186 |
| 120 | 7800 | 24600 | 9000 | 28300 | 9900 | 31000 | 9300 | 29100 | 10500 | 32800 | 10200 | 32000 | 71 | 218 | 183 |

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

IZYLUM 4

Photometry

MID FLEX™2

| | Luminaire output flux (lm) | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|
| | Warm White 730 | | Neutral White 740 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Up to |
| 160 | 5700 | 17800 | 6200 | 19000 | 38 | 141 | 171 |
| 200 | 7200 | 21300 | 7700 | 22900 | 47 | 165 | 172 |
| 240 | 8600 | 26700 | 9200 | 28600 | 58 | 214 | 168 |

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

IZYLUM 5

Photometry

LENSO FLEX™4

| | Luminaire output flux (lm) | | | | | | | | | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Warm White 722 | | Warm White 727 | | Warm White 730 | | Warm White 830 | | Neutral White 740 | | Cool White 757 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Up to |
| 70 | 4700 | 17500 | 5400 | 20100 | 5900 | 22000 | 5600 | 20700 | 6300 | 23300 | 6100 | 22700 | 41 | 162 | 185 |
| 80 | 5200 | 18200 | 6000 | 21000 | 6500 | 23000 | 6100 | 21600 | 6900 | 24300 | 6700 | 23700 | 46 | 162 | 186 |
| 100 | 6500 | 25000 | 7500 | 28800 | 8200 | 31500 | 7700 | 29600 | 8700 | 33400 | 8400 | 32500 | 58 | 234 | 187 |
| 120 | 7800 | 30000 | 9000 | 34500 | 9800 | 37800 | 9200 | 35500 | 10400 | 40000 | 10100 | 39000 | 71 | 280 | 184 |

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

IZYLUM 5

Photometry

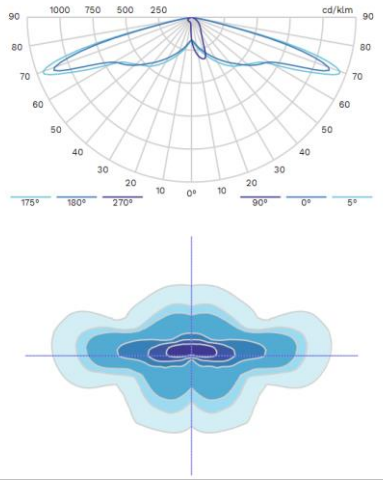
MID FLEX™2

| | Luminaire output flux (lm) | | | | Power consumption (W) | | Luminaire efficacy (lm/W) |
|---|---|---|---|---|---|---|---|
| | Warm White 730 | | Neutral White 740 | | | | |
| Number of LEDs | Min | Max | Min | Max | Min | Max | Up to |
| 160 | 8400 | 20800 | 9000 | 22300 | 60 | 180 | 159 |
| 200 | 7200 | 21600 | 7700 | 23200 | 48 | 165 | 168 |
| 240 | 8600 | 31200 | 9300 | 33500 | 58 | 268 | 167 |

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

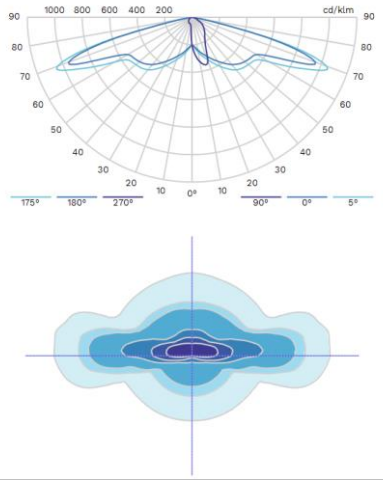
LENSO FLEX 4

## 5300 Anti-reflective glass



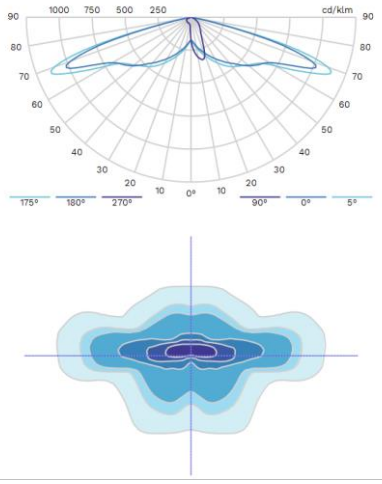

LENSO FLEX 4

## 5300 Anti-reflective glass BL LE



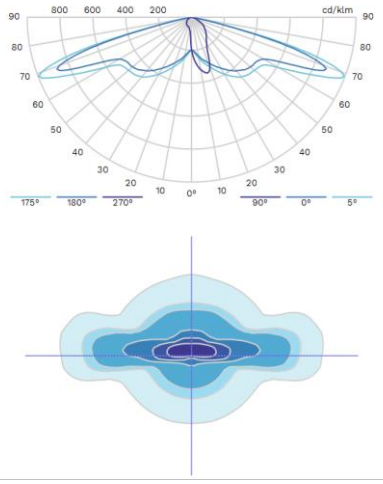

LENSO FLEX 4

## 5300 Anti-reflective glass LE



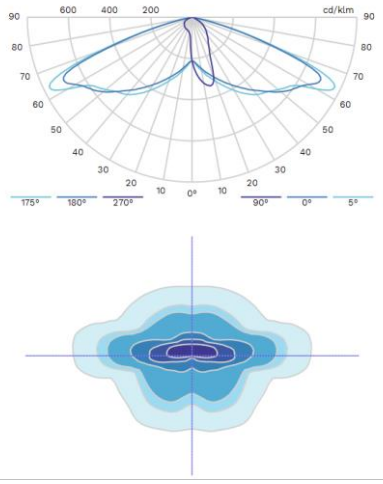

LENSO FLEX 4

## 5300 BL



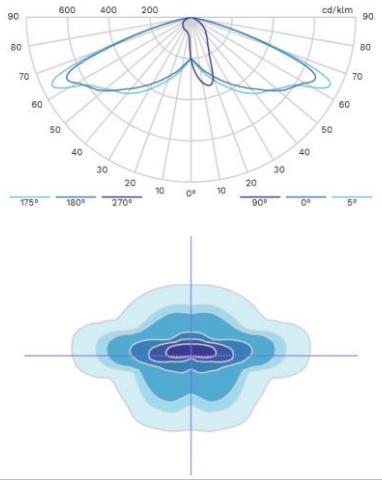

LENSO FLEX 4

## 5300 GL



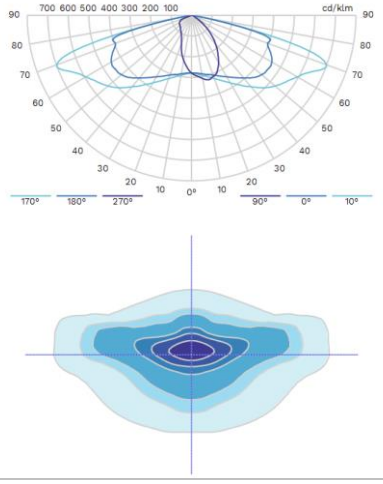

LENSO FLEX 4

## 5300 GL LE



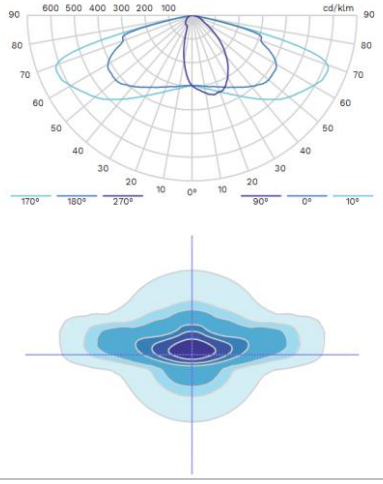

LENSO FLEX 4

## 5301 Anti-reflective glass



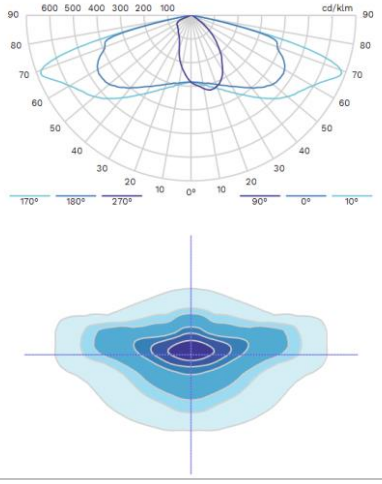

LENSO FLEX 4

## 5301 Anti-reflective glass BL LE



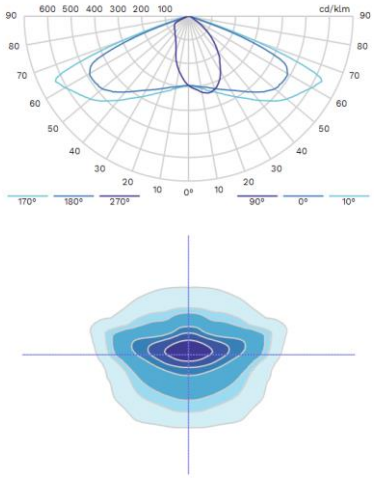

LENSO FLEX 4

## 5301 Anti-reflective glass LE



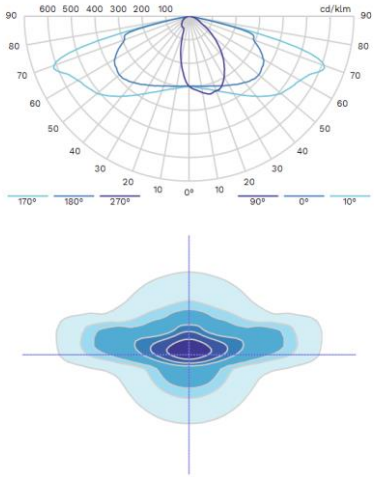
LENSO FLEX™4

## 5301 Anti-reflective glass LE GL



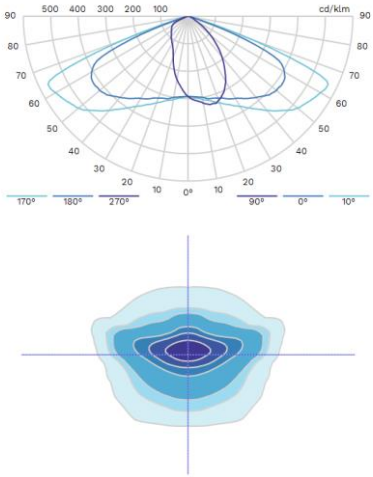

LENSO FLEX™4

## 5301 BL



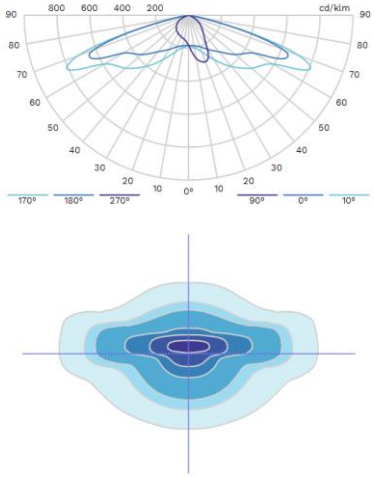

LENSO FLEX™4

## 5301 GL



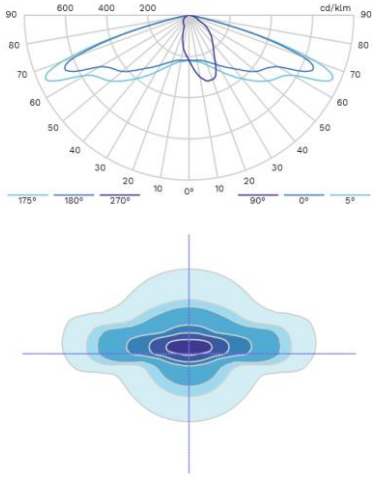

LENSO FLEX™4

## 5302 Anti-reflective glass



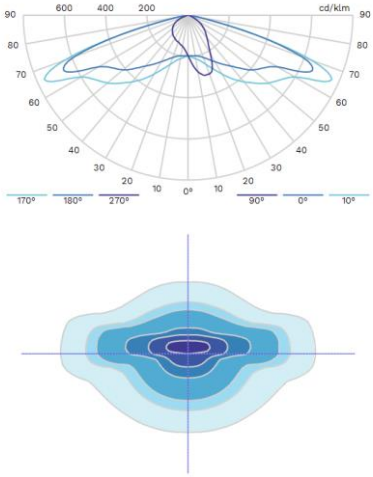

LENSO FLEX™4

## 5302 Anti-reflective glass BL LE



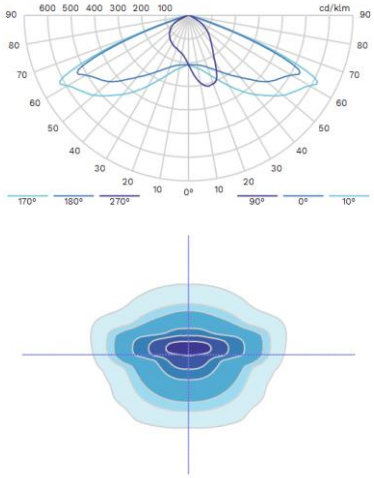

LENSO FLEX™4

## 5302 Anti-reflective glass LE



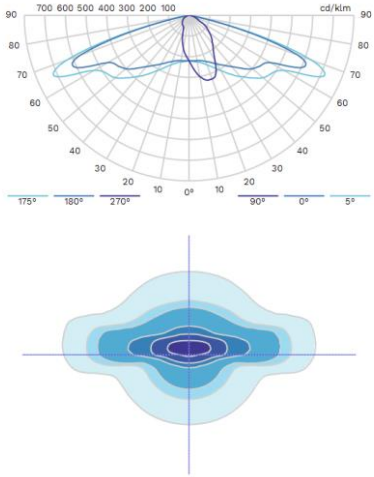

LENSO FLEX™4

## 5302 Anti-reflective glass LE GL



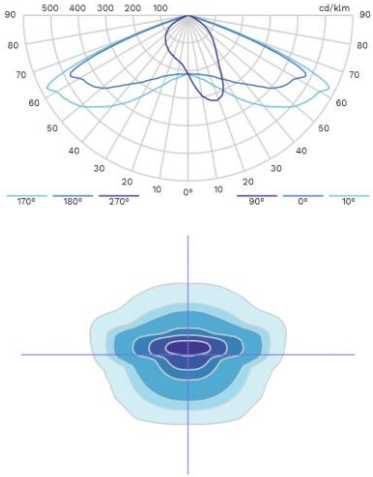

LENSO FLEX™4

## 5302 BL



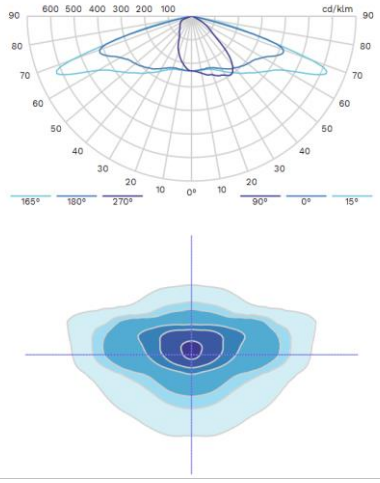

LENSO FLEX™4

## 5302 GL



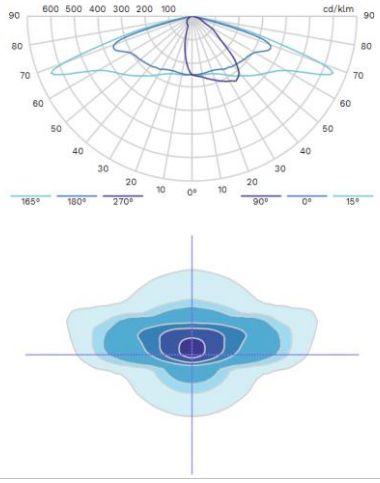
LENSO FLEX™4

5303 Anti-reflective glass



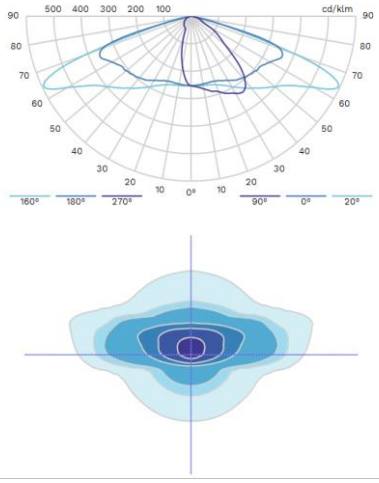
LENSO FLEX™4

5303 Anti-reflective glass BL



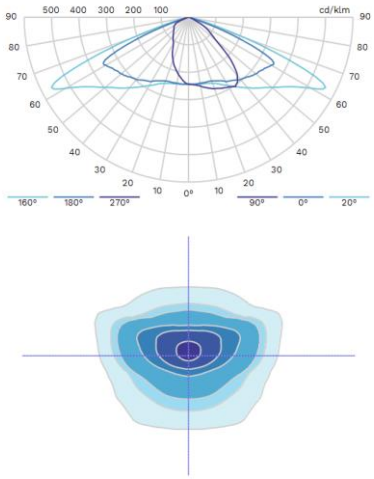
LENSO FLEX™4

5303 Anti-reflective glass BL LE



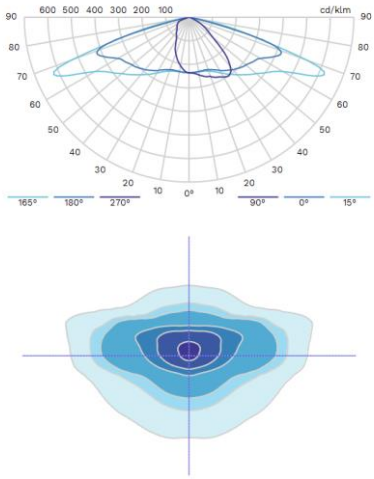
LENSO FLEX™4

5303 Anti-reflective glass GL



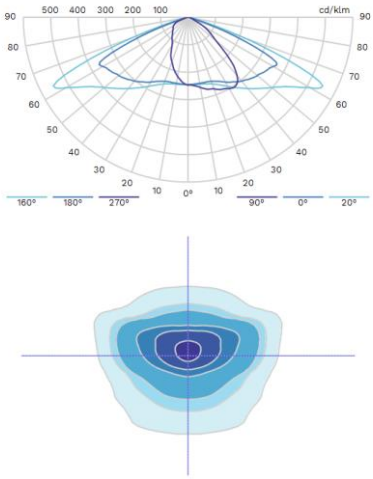
LENSO FLEX™4

5303 Anti-reflective glass LE



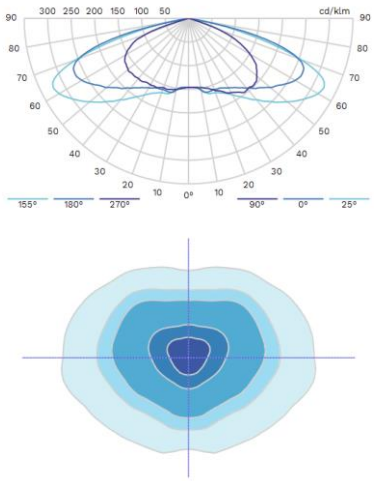
LENSO FLEX™4

5303 Anti-reflective glass LE GL



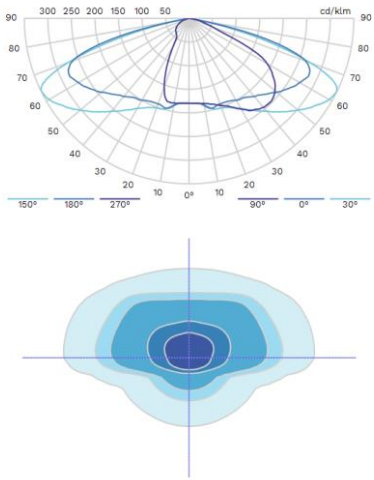
LENSO FLEX™4

5304 Anti-reflective glass



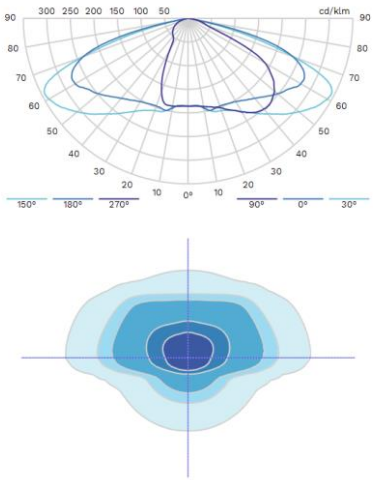
LENSO FLEX™4

5304 Anti-reflective glass BL



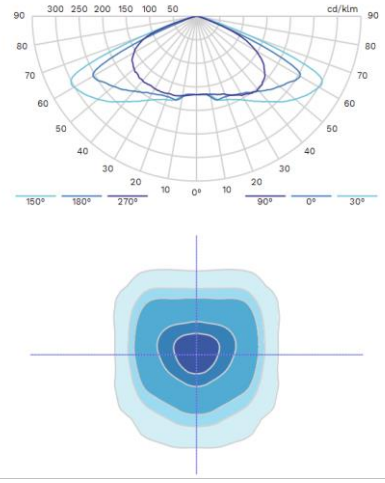
LENSO FLEX™4

5304 Anti-reflective glass LE BL



LENSO FLEX™4

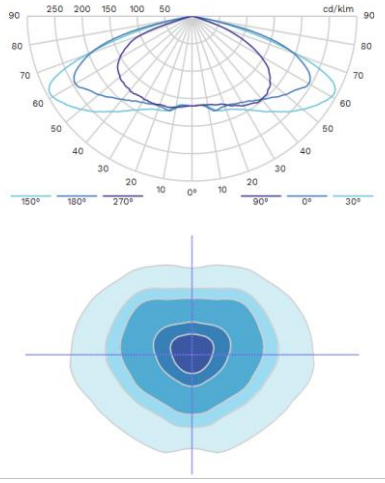
## 5304 GL






LENSO FLEX™4

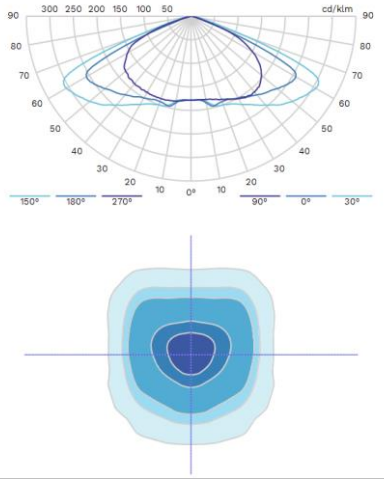
## 5304 LE






LENSO FLEX™4

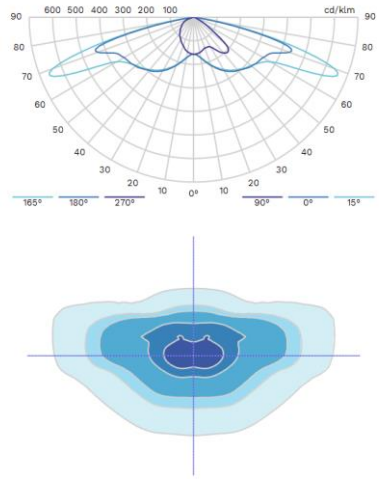
## 5304 LE GL






LENSO FLEX™4

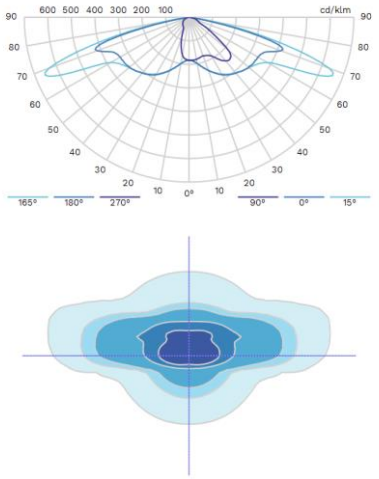
## 5305 Anti-reflective glass






LENSO FLEX™4

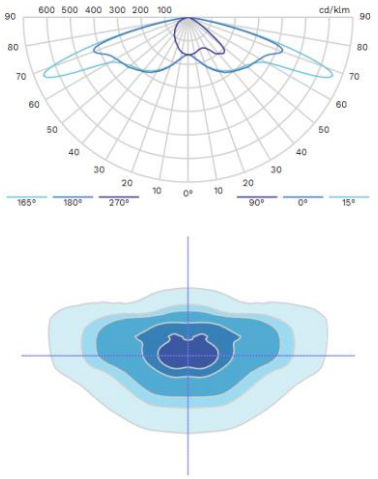
## 5305 Anti-reflective glass BL






LENSO FLEX™4

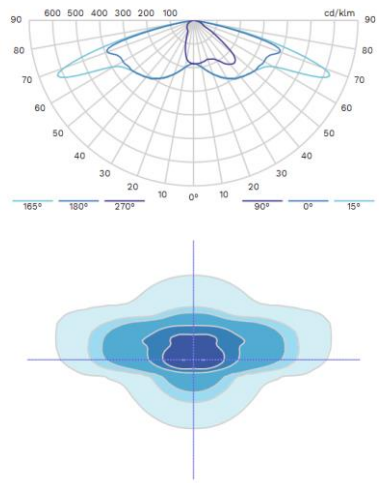
## 5305 Anti-reflective glass LE






LENSO FLEX™4

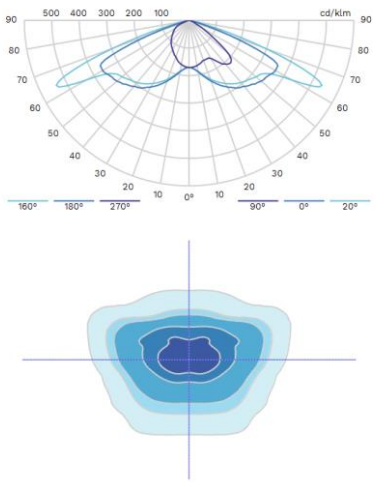
## 5305 Anti-reflective glass LE BL






LENSO FLEX™4

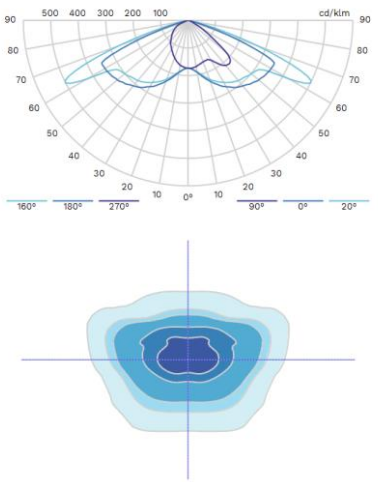
## 5305 Anti-reflective glass LE GL





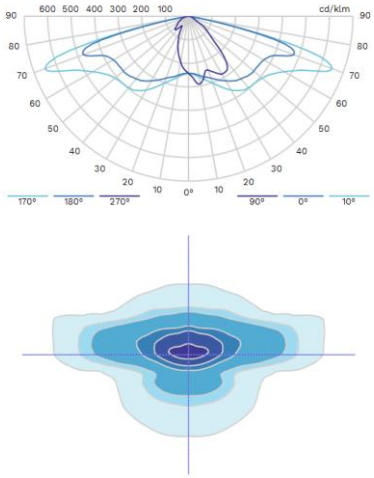

LENSO FLEX™4

## 5305 GL



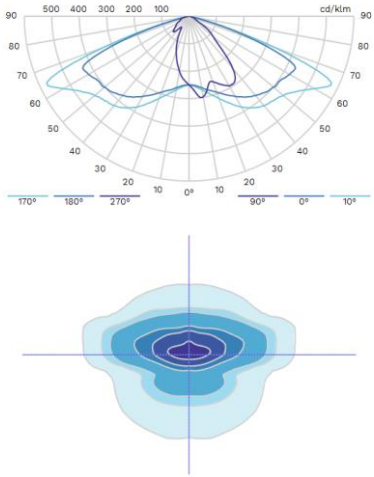
LENSO FLEX™4

5306



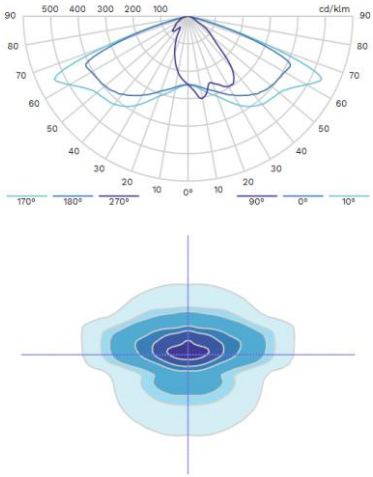
LENSO FLEX™4

5306 Anti-reflective glass LE GL



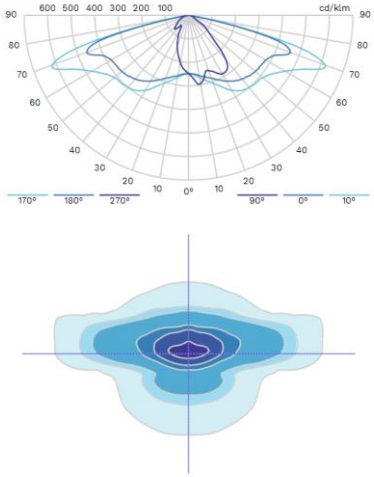
LENSO FLEX™4

5306 GL



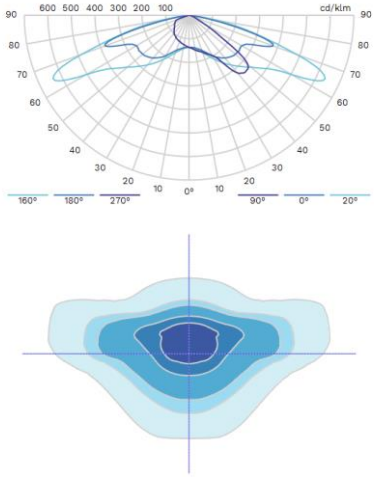
LENSO FLEX™4

5306 LE



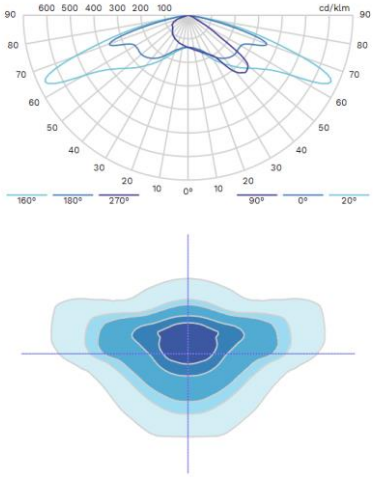
LENSO FLEX™4

5307 Anti-reflective glass



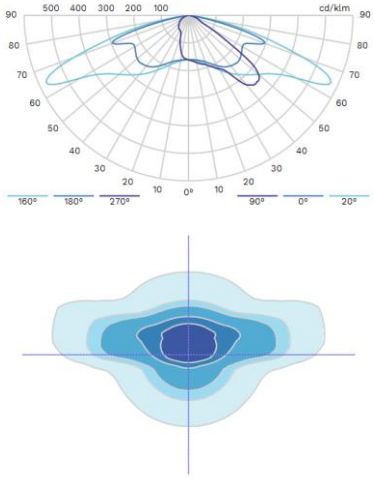
LENSO FLEX™4

5307 Anti-reflective glass LE



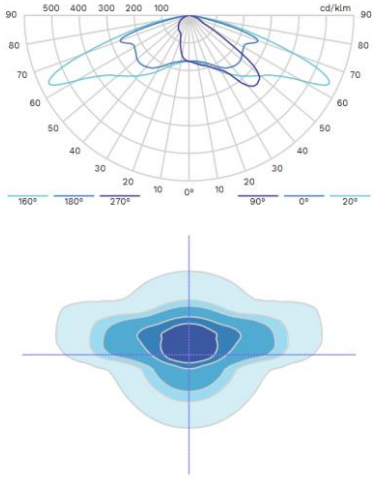
LENSO FLEX™4

5307 BL



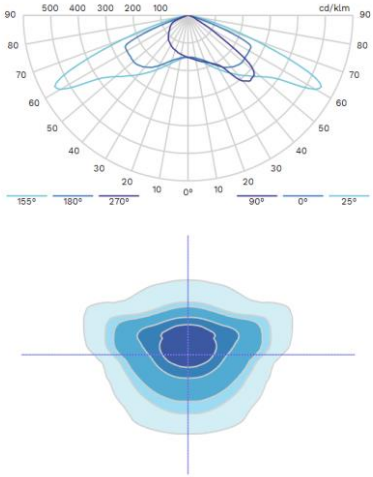
LENSO FLEX™4

5307 BL LE



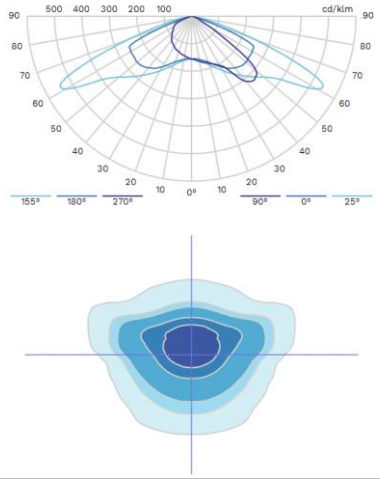
LENSO FLEX™4

5307 GL



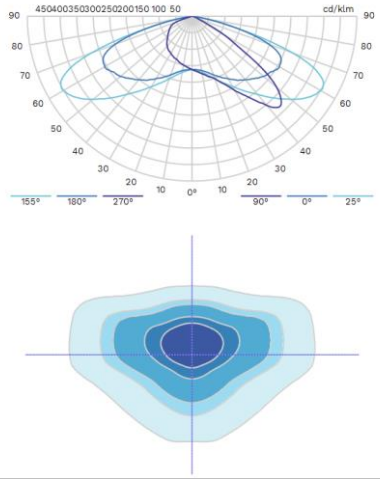
LENSO FLEX™4

## 5307 GL LE



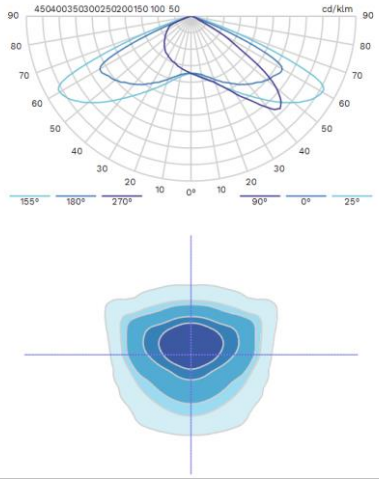

LENSO FLEX™4

## 5308 Anti-reflective glass



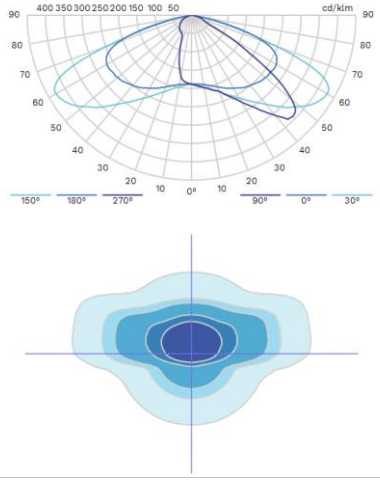

LENSO FLEX™4

## 5308 Anti-reflective glass GL



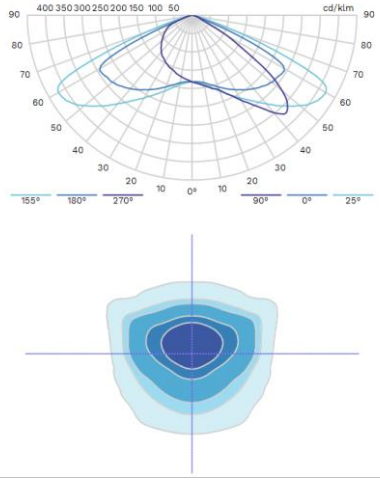

LENSO FLEX™4

## 5308 BL



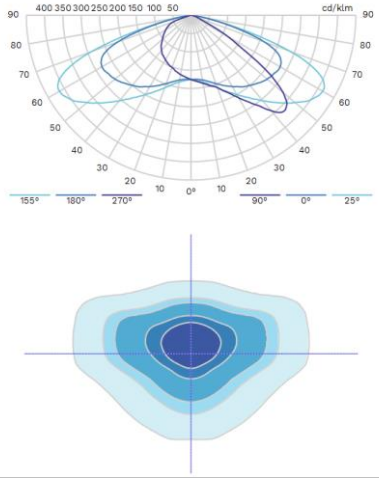

LENSO FLEX™4

## 5308 GL LE



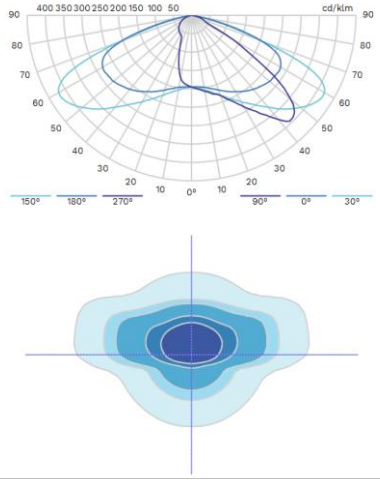

LENSO FLEX™4

## 5308 LE



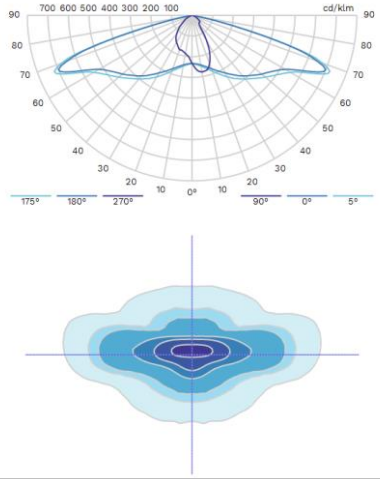

LENSO FLEX™4

## 5308 LE BL




MID FLEX™2

## 5311




MID FLEX™2

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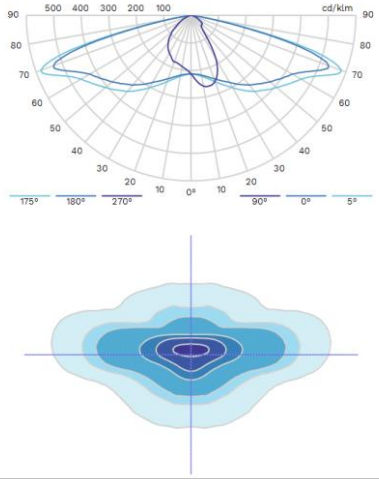
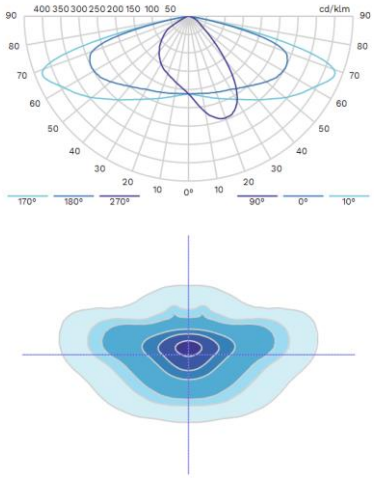


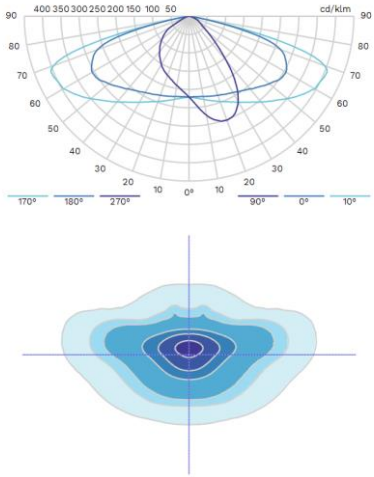
MID FLEX™2

## 5312



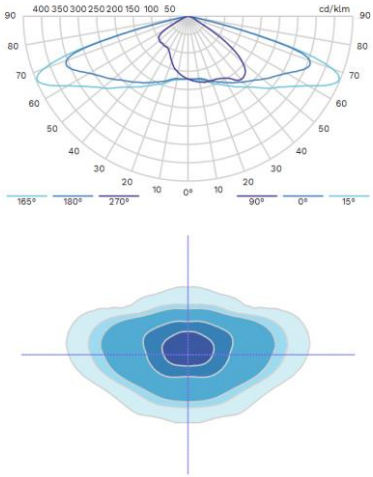

MID FLEX™2

## 5312 LE



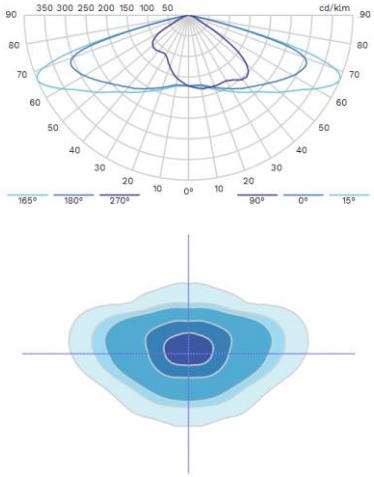

MID FLEX™2

## 5313



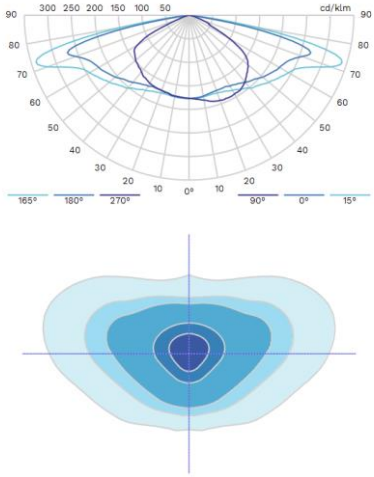

MID FLEX™2

## 5313 LE



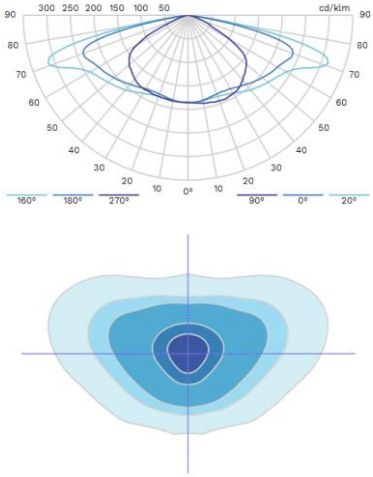

MID FLEX™2

## 5314



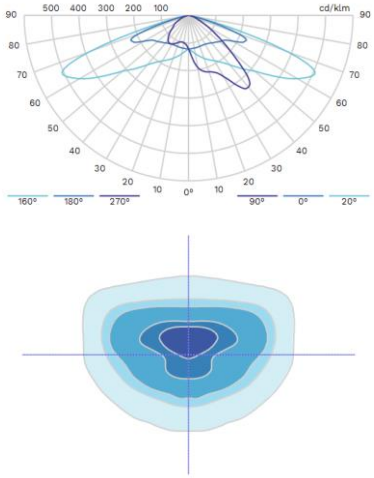

MID FLEX™2

## 5314 LE



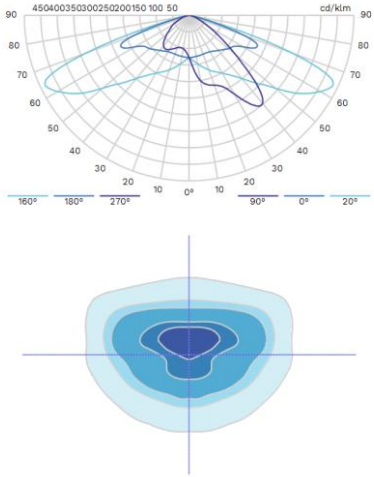

MID FLEX™2

## 5315



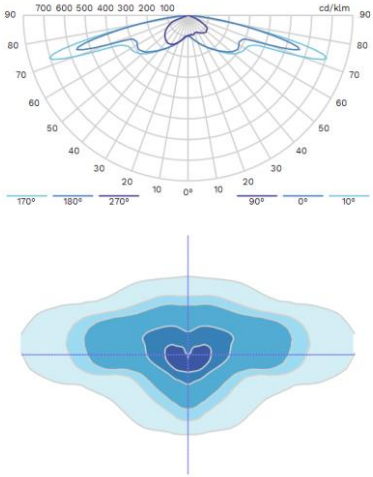

MID FLEX™2

## 5315 LE



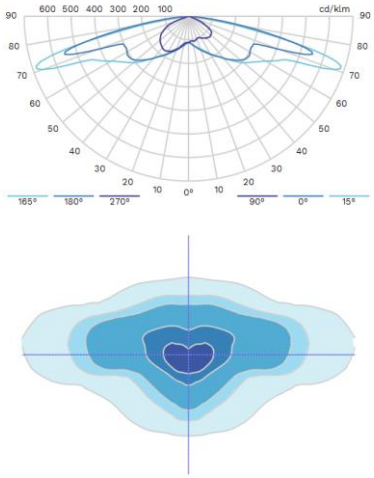

LENSO FLEX™4

## 5345 Anti-reflective glass



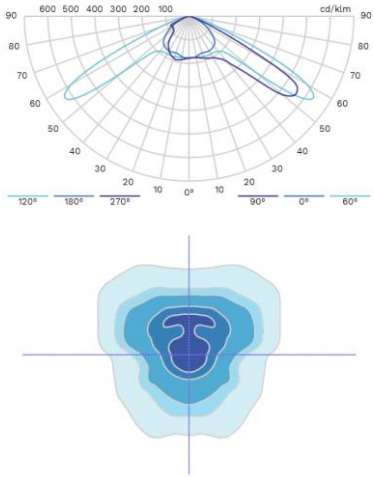
LENSO FLEX™4

5345 Anti-reflective glass LE



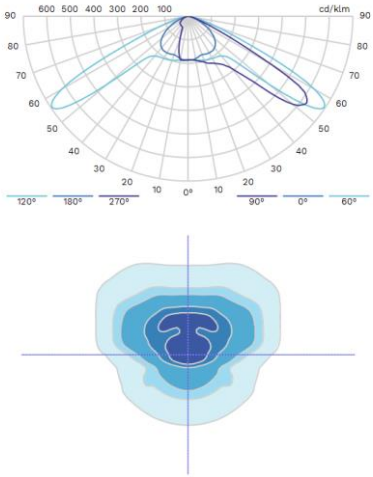

LENSO FLEX™4

5366



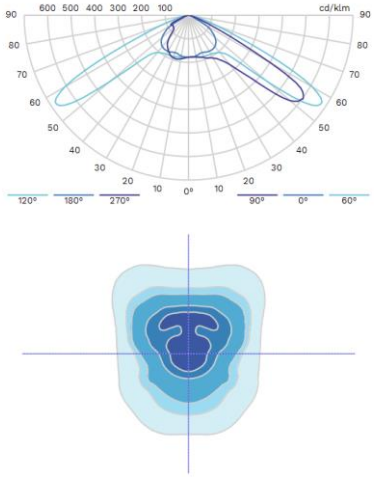

LENSO FLEX™4

5366 Anti-reflective glass BL



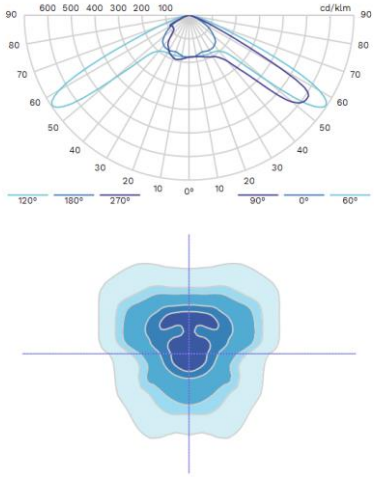

LENSO FLEX™4

5366 Anti-reflective glass GL



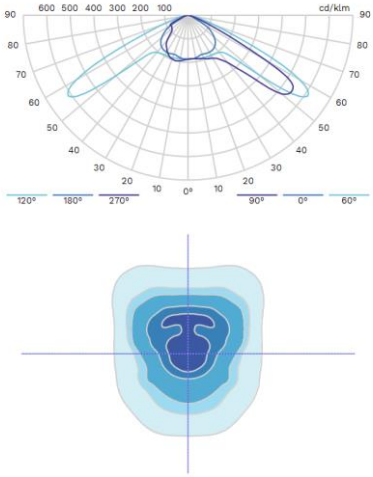

LENSO FLEX™4

5366 Anti-reflective glass LE



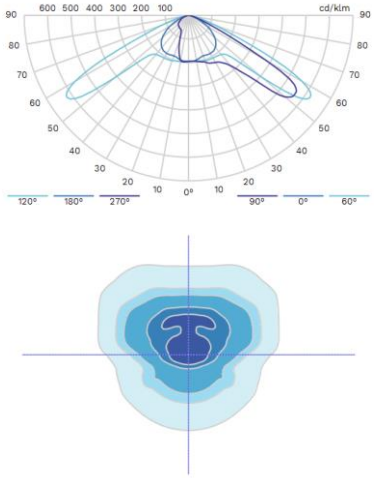

LENSO FLEX™4

5366 GL LE



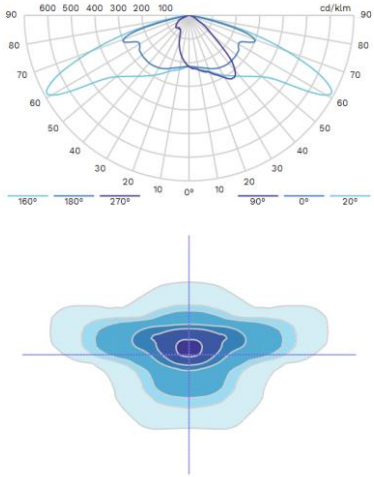

LENSO FLEX™4

5366 LE BL



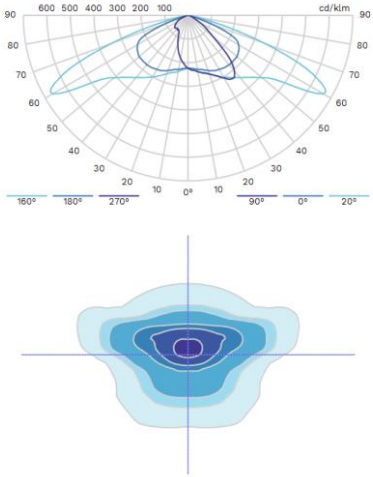

LENSO FLEX™4

5367 Anti-reflective glass



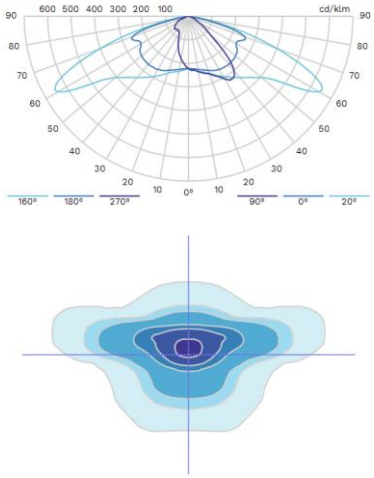

LENSO FLEX™4

5367 Anti-reflective glass GL



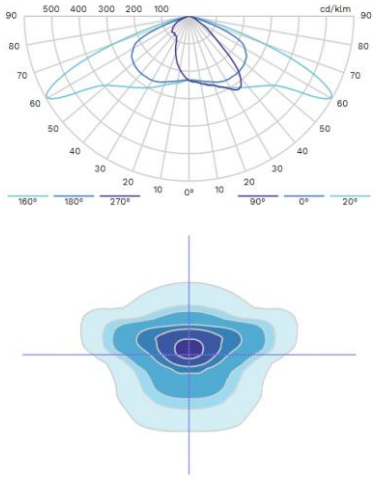
LENSO FLEX™4

5367 Anti-reflective glass LE



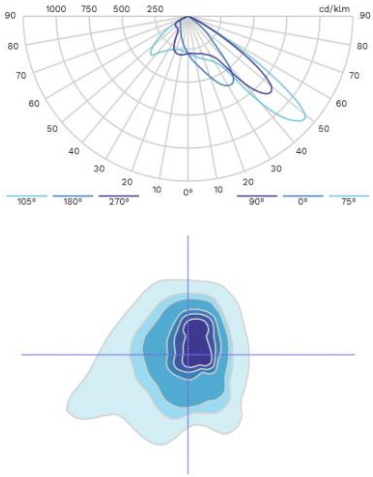

LENSO FLEX™4

5367 LE GL



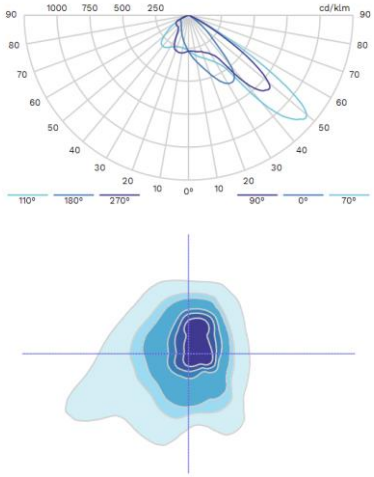

LENSO FLEX™4

5369 Anti-reflective glass LE ZR



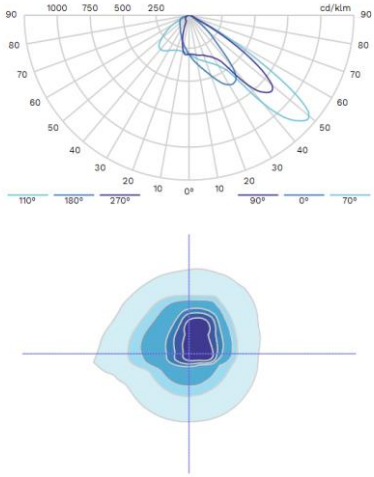

LENSO FLEX™4

5369 Anti-reflective glass ZR



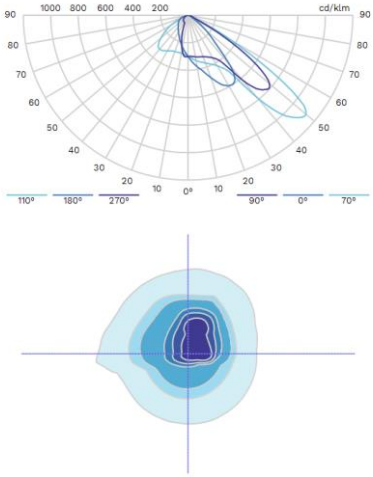

LENSO FLEX™4

5369 Anti-reflective glass ZR BL



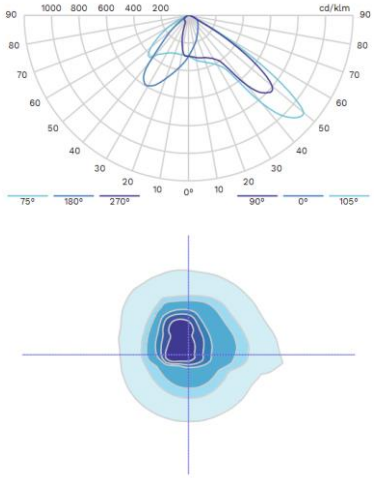

LENSO FLEX™4

5369 ZR LE BL



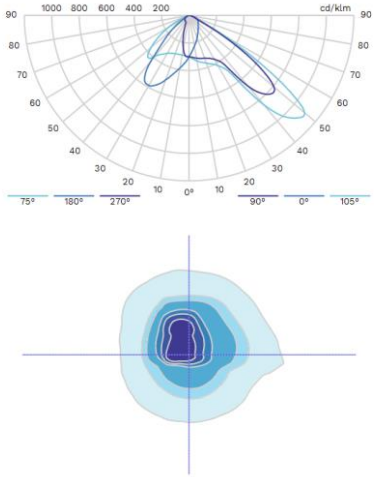

LENSO FLEX™4

5370 BL ZL



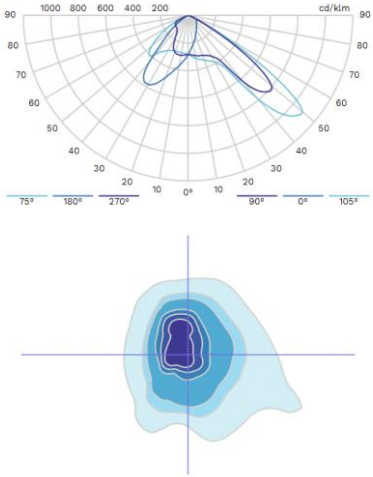

LENSO FLEX™4

5370 BL ZL LE



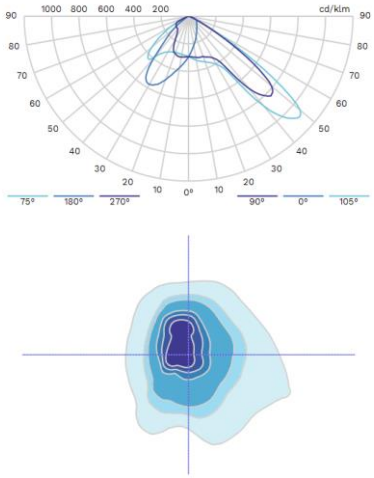

LENSO FLEX™4

5370 LE ZR



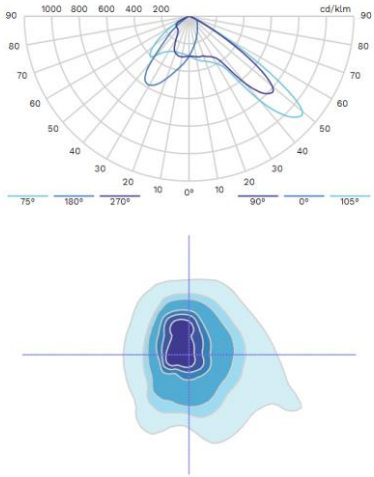
LENSO FLEX™4

5370 ZL



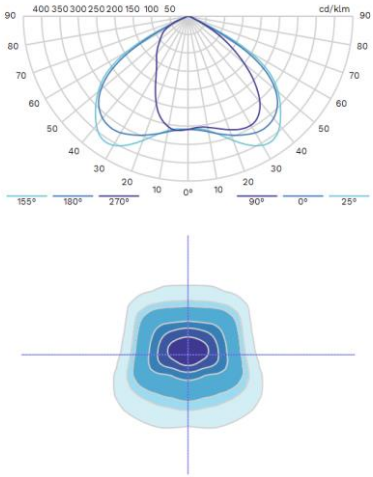

LENSO FLEX™4

5370 ZL LE



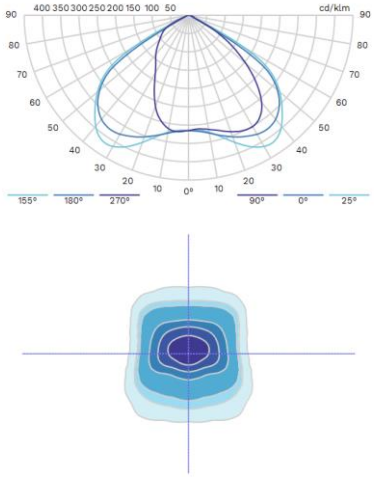

LENSO FLEX™4

5388 Anti-reflective glass



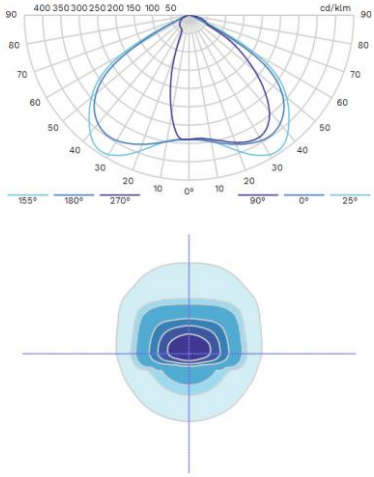

LENSO FLEX™4

5388 Anti-reflective glass GL



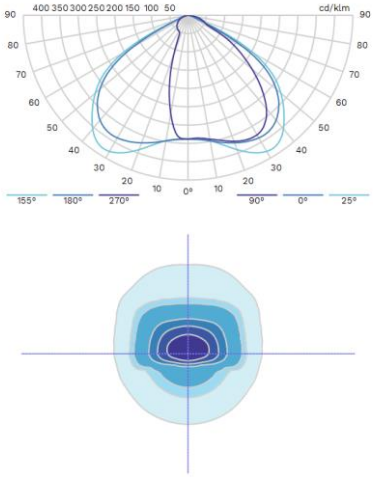

LENSO FLEX™4

5388 Anti-reflective glass LE BL



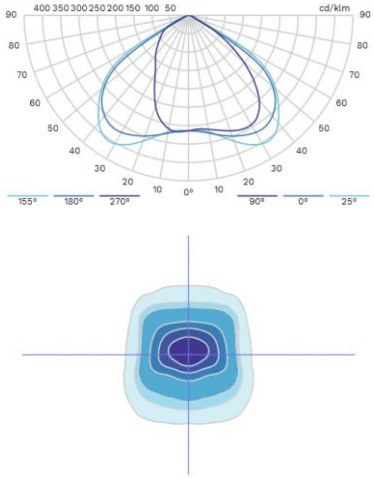

LENSO FLEX™4

5388 BL



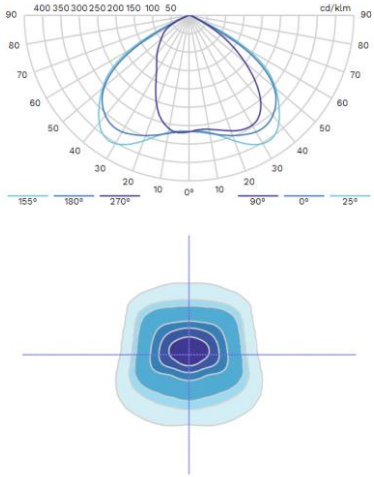

LENSO FLEX™4

5388 GL LE



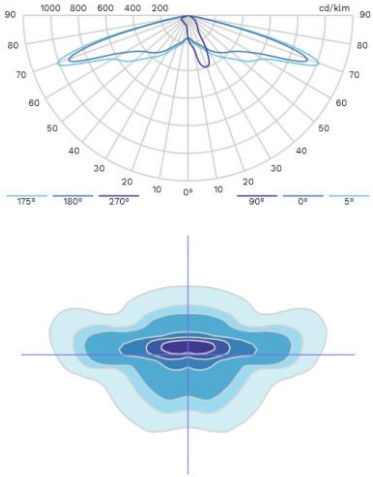

LENSO FLEX™4

5388 LE



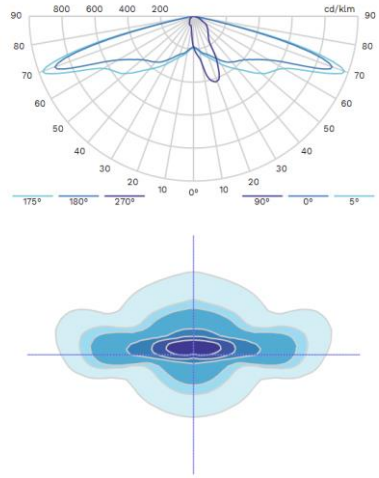

LENSO FLEX™4

5390 Anti-reflective glass



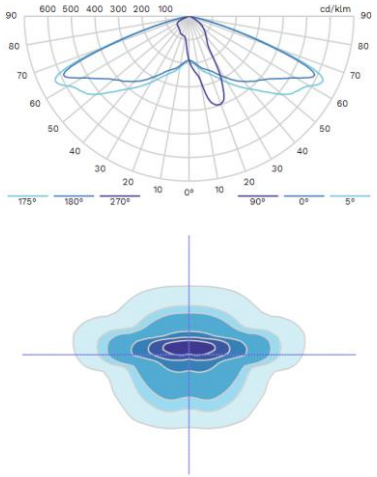
LENSO FLEX™4

5390 Anti-reflective glass BL



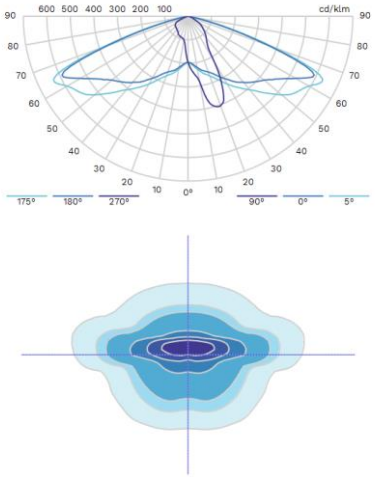

LENSO FLEX™4

5390 GL



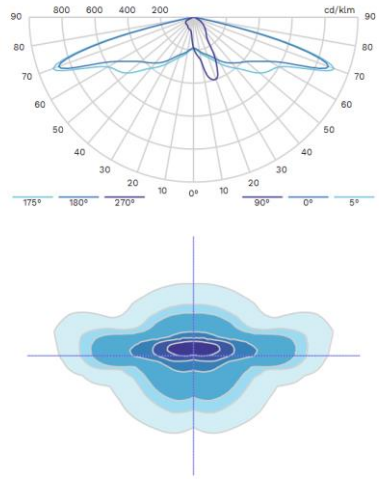

LENSO FLEX™4

5390 GL LE



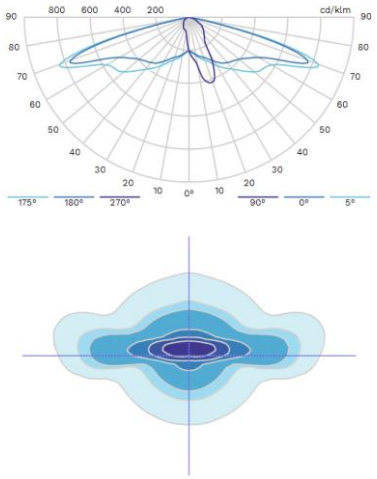

LENSO FLEX™4

5390 LE



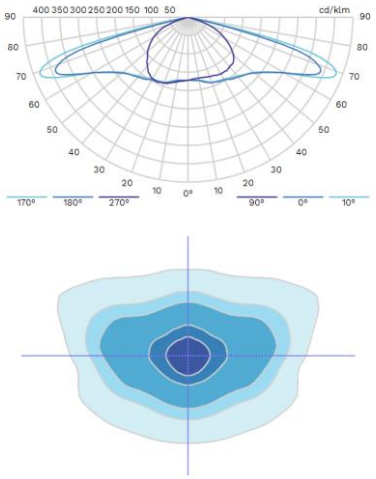

LENSO FLEX™4

5390 LE BL



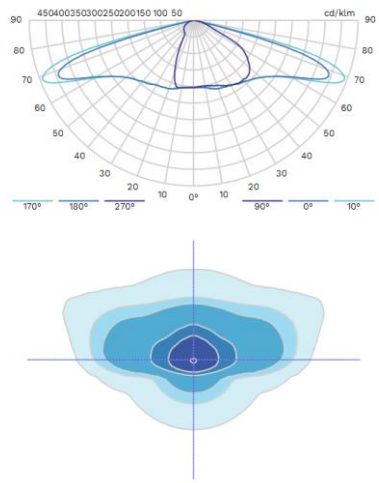

LENSO FLEX™4

5392



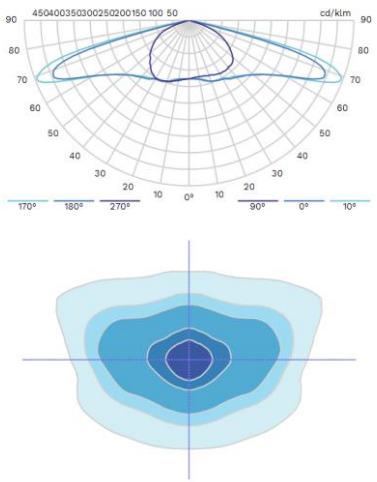

LENSO FLEX™4

5392 Anti-reflective glass BL



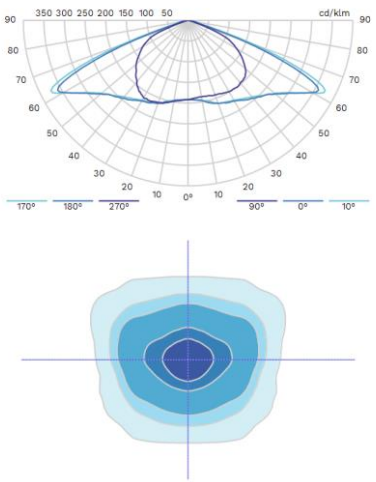

LENSO FLEX™4

5392 Anti-reflective glass LE



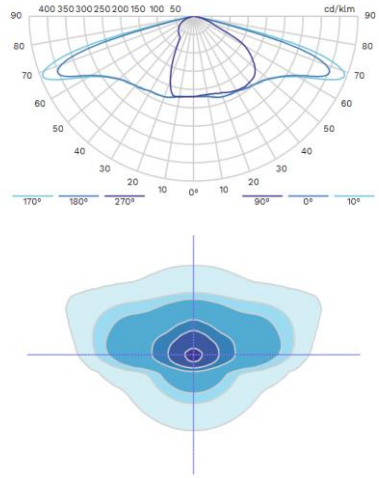

LENSO FLEX™4

5392 Anti-reflective glass LE GL



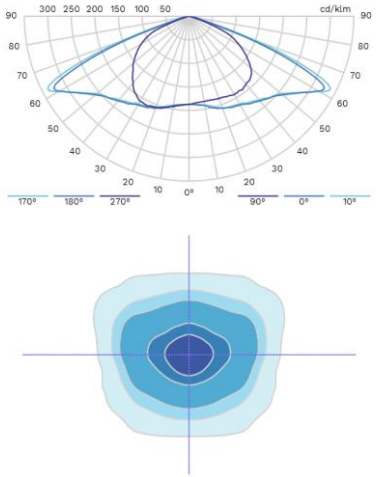
LENSO FLEX™4

## 5392 BL LE




LENSO FLEX™4

## 5392 GL




LENSO FLEX™4

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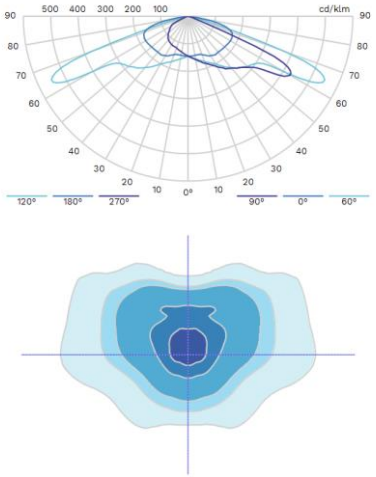
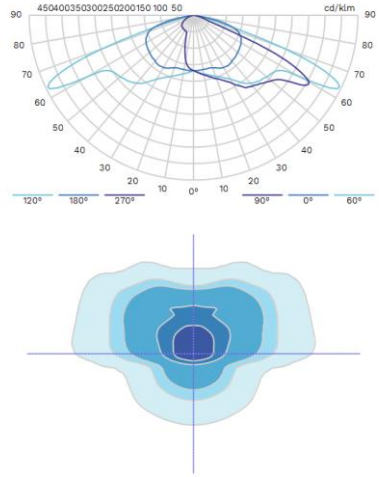


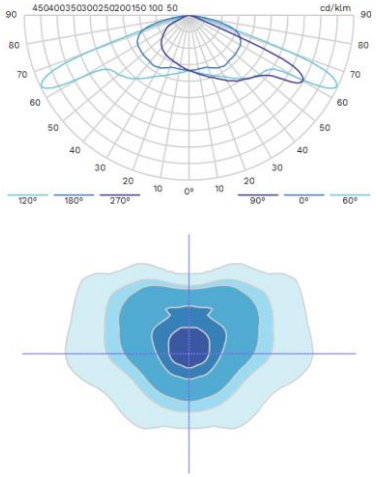

LENSO FLEX™4

## 5393 BL



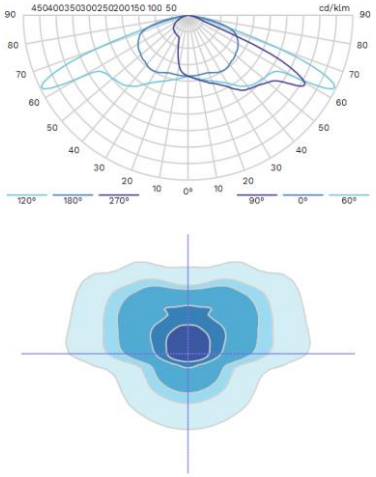

LENSO FLEX™4

## 5393 LE




LENSO FLEX™4

## 5393 LE BL




LENSO FLEX™4

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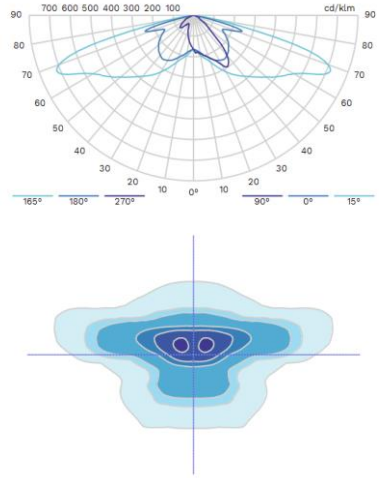
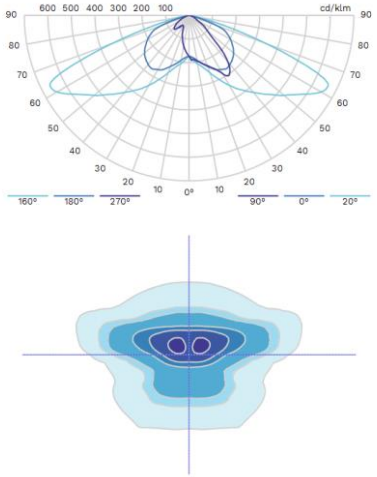


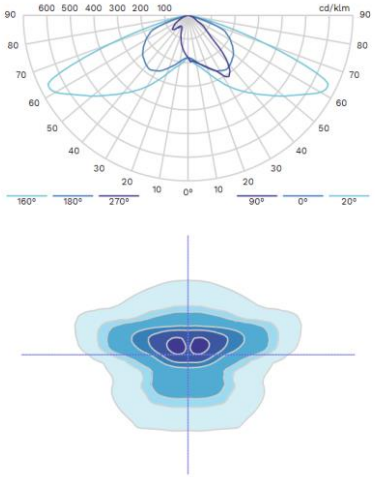

LENSO FLEX™4

## 5397 Anti-reflective glass GL



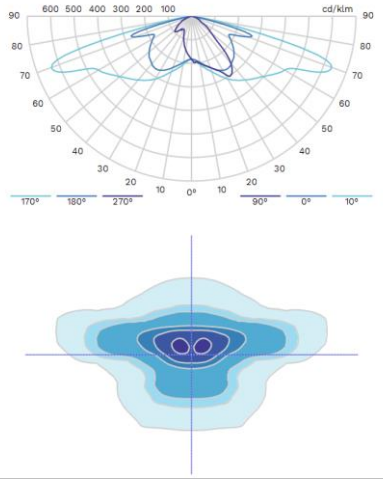

LENSO FLEX™4

## 5397 Anti-reflective glass LE GL



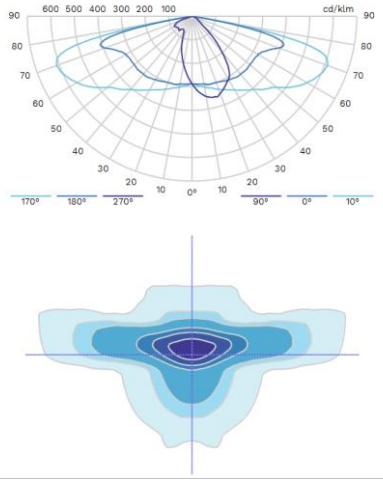
LENSO FLEX™4

5397 LE



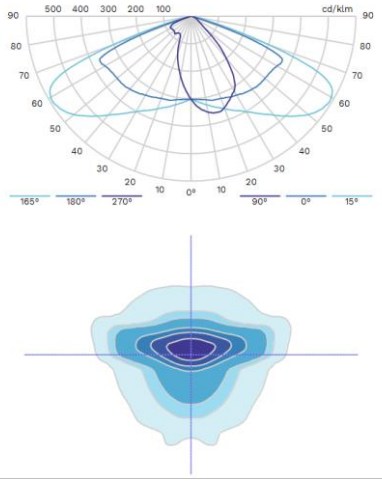
LENSO FLEX™4

5399 Anti-reflective glass



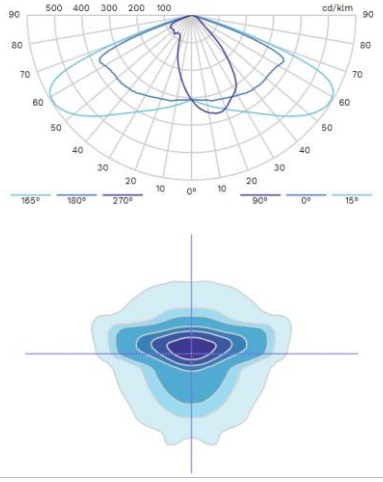
LENSO FLEX™4

5399 Anti-reflective glass GL



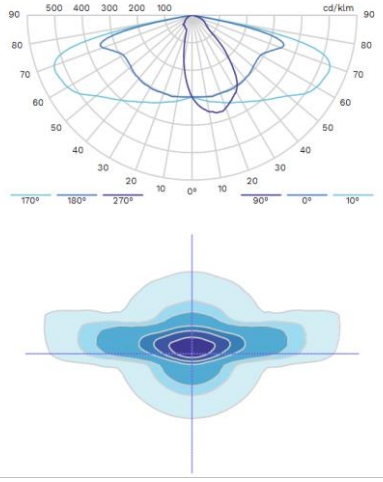
LENSO FLEX™4

5399 Anti-reflective glass LE GL



LENSO FLEX™4

5399 BL



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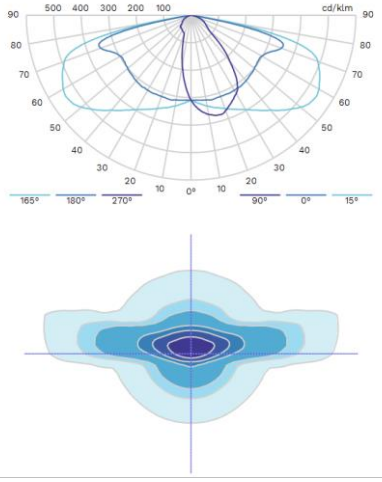
5399 BL LE



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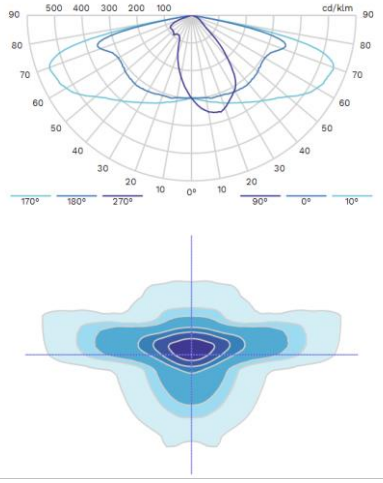
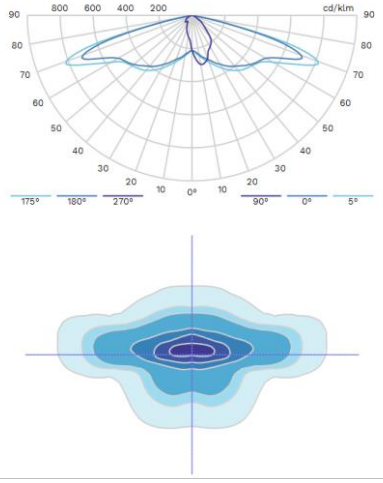
5399 LE



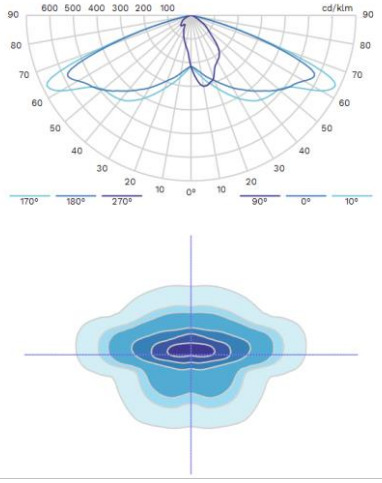
LENSO FLEX™4

50001



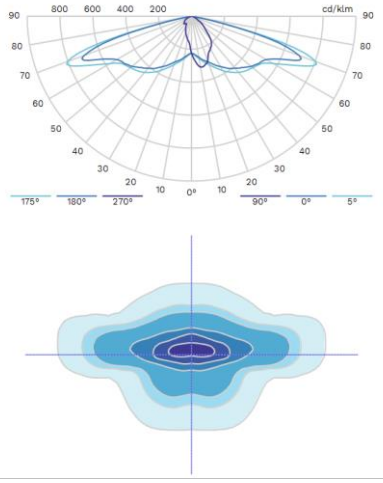
LENSO FLEX™4

50001 Anti-reflective glass GL



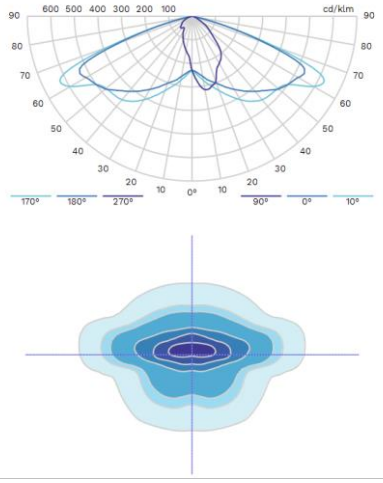
LENSO FLEX™4

50001 LE



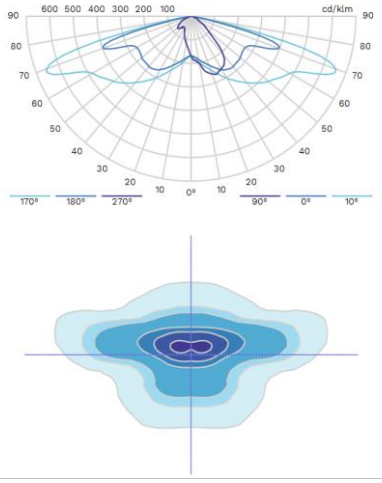

LENSO FLEX™4

50001 LE GL



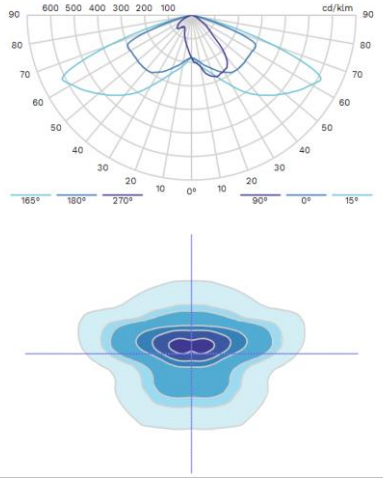

LENSO FLEX™4

50002



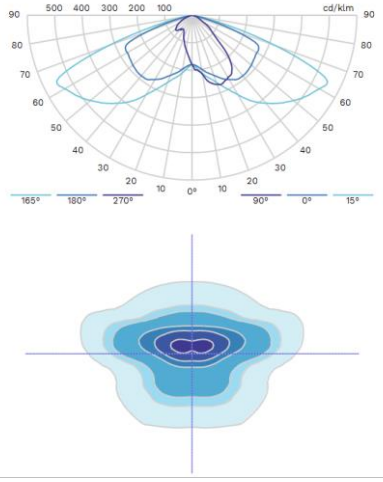

LENSO FLEX™4

50002 Anti-reflective glass GL LE



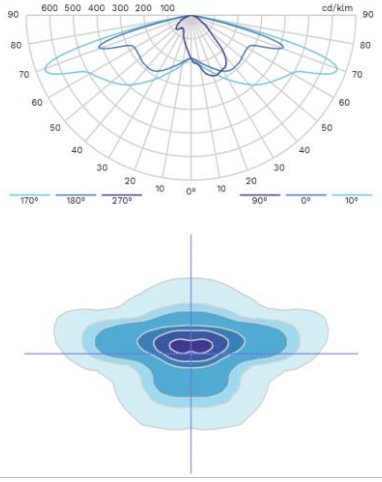

LENSO FLEX™4

50002 GL



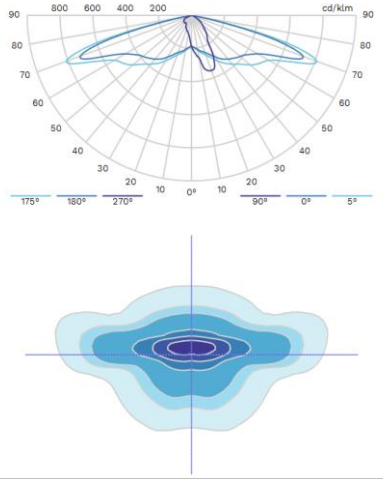

LENSO FLEX™4

50002 LE



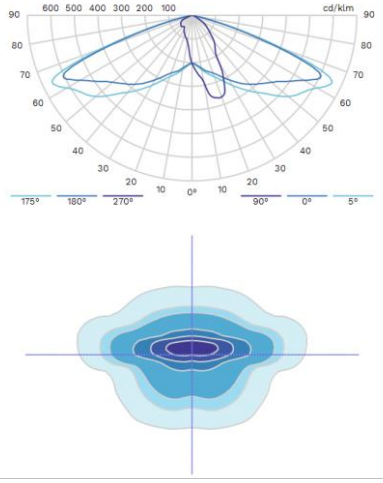

LENSO FLEX™4

50003



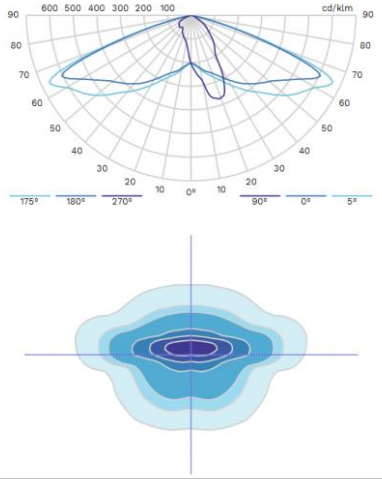

LENSO FLEX™4

50003 Anti-reflective glass GL



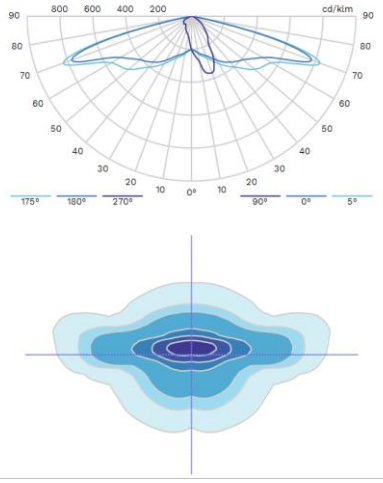

LENSO FLEX™4

50003 Anti-reflective glass LE GL



LENSO FLEX™4

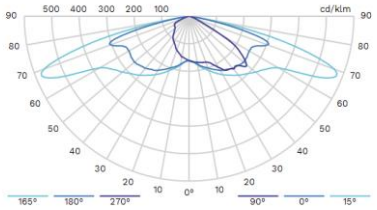
50003 LE

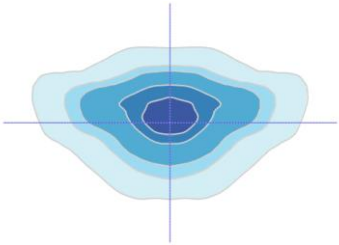





LENSO FLEX™4

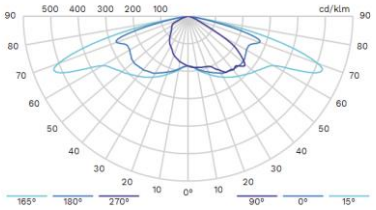
50009 Anti-reflective glass

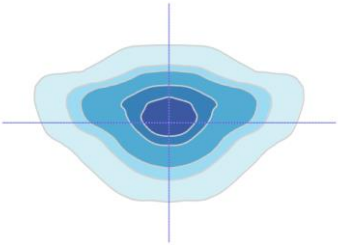


LENSO FLEX™4

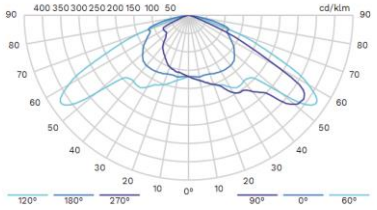
50009 LE

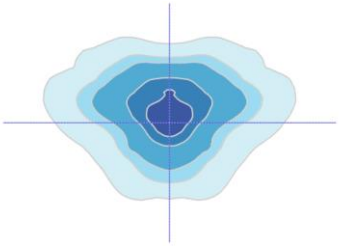


LENSO FLEX™4

50010



LENSO FLEX™4

50010 LE