

# FLEXIA FG

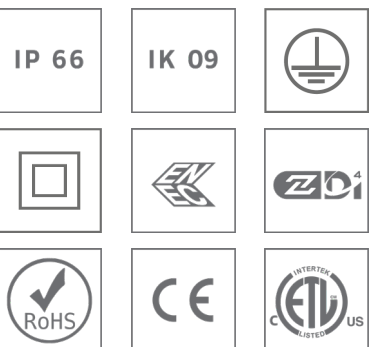


Designer : iOL Design



## The ultimate platform for your unique urban lighting solution

Various designs, many configurations, one single DNA. FLEXIA is the ultimate platform to create your unique urban lighting solution. Focus on creating a unique ambiance for people living and visiting your spaces instead of dealing with non-stop constraints. With no technical limitations, more design consistency and the guarantee of the latest innovations, FLEXIA offers a versatile technological platform with refined aesthetics. FLEXIA incorporates a refined design with an advanced and interchangeable technology compatible with a circular economy. Ideal for large boulevards, city centres, public squares, bike paths and other urban outdoor areas, FLEXIA delivers a high-quality lighting with design consistency and lowers the carbon footprint for towns and cities - creating a safe and attractive environment.



## Concept

FLEXIA FG is a versatile, side-entry or suspended, decorative luminaire, designed to provide the greatest modularity and easy customisation. Available in two sizes (Midi and Maxi), it is composed of an aluminum body sealed with a glass protector.

FLEXIA FG offers three different decorative crowns: the Mona as standard and the Lisa or Scala as options. Both the Lisa and Scala crowns can have a customised finish (colour, pattern, texture) to enhance your identity.

FLEXIA FG is part of the FLEXIA range and shares the same technical architecture for more consistency and interchangeability. It relies on the new LensoFlex®4 photometrical engine, developed on a concept of performance, dark-sky compliance (PureNight) and versatility, and use the same CR-Kit that regroups the LEDs, lenses, gear and electrical accessories on a tool-free removable unit. This standardisation of internal components enables an easier and more cost-effective management of spare parts. To simplify installation, FLEXIA FG is delivered pre-cabled. It also uses the patented IzyHub compact connection and connectivity module which is designed for quick, error-proof wiring.

FLEXIA FG offers tool-free access to the gear compartment. For safety reasons, it includes an instant electrical disconnection on opening.

It is available with various connectivity options (NEMA or Zhaga), sensors and the FlexiWhite solution that adapts the colour temperature of the lighting to the need of the space and the moment. Thanks to tool-free access to the optical compartment, Cromax coloured filters can be added any time to create a special atmosphere for events.

Built with recyclable materials and with an architecture designed for easy service, FLEXIA FG is a role model for a circular economy.



FLEXIA FG is available with three different crowns with their own customized design for a unique identity.



FLEXIA FG is designed for side-entry mounting with the versatile SOFIA bracket, enabling numerous configurations.



FLEXIA FG includes an instant electrical disconnection on opening and a complete tool-free removable LED engine.



To remain as open and interoperable as possible, FLEXIA FG is available with both NEMA or Zhaga sockets and complies with the new ZD4i standard.

## TYPES OF APPLICATION

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

## KEY ADVANTAGES

- State-of-the-art LED modular platform that can be endlessly customised
- Design consistency for all urban applications
- Tool-free philosophy: opening, cabling and LED engine removal
- PureNight: dark-sky and low-glare lighting distributions
- FlexiWhite option for human-centric and nature-friendly scenarios
- Supplied pre-cabled to facilitate its installation
- Numerous mounting possibilities
- Connected-ready for your future Smart cities' requirements
- Based on open and interoperable standards
- Compatible with Schröder EXEDRA control platform
- Zhaga-D4i certified

FLEXIA FG | Sofia bracket



FLEXIA FG | Evens bracket (Midi only)



FLEXIA FG | Catenary (Midi only)



FLEXIA FG | Available crowns



## FLEXIA FG | With Croma filters





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.

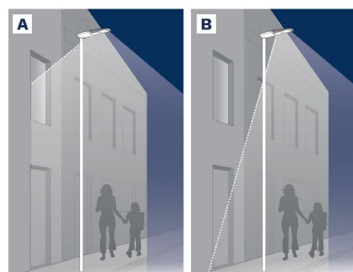
LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



## 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.



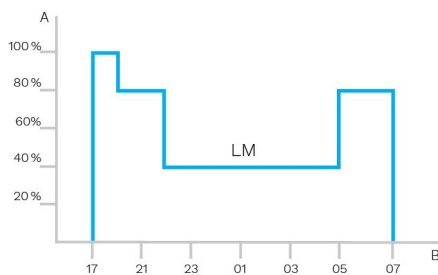
A. Without Back Light control | B. With Back Light control



## 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.

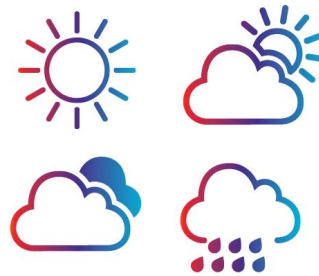


A. Dimming level | B. Time



## Daylight sensor / photocell

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

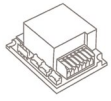


## PIR sensor: motion detection

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

Each luminaire level can be configured individually with several 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.

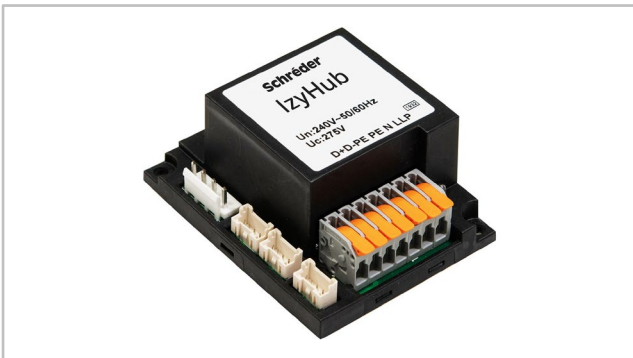




## IzyHub

IzyHub is an innovative device that aims to keep luminaire installation and maintenance hassle-free. This single central connection hub distributes electricity and control information to all parts of the luminaire, ensuring that all components work together and offering reliable, long-term performance.

Its compact size and error-proof connections enable smaller and lighter luminaires that are easier to maintain and upgrade.



### Surge Protection

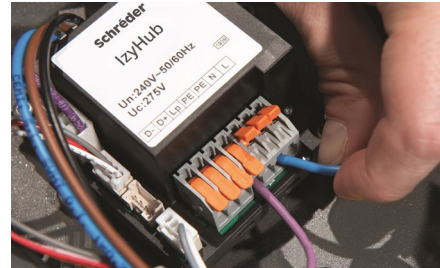
IzyHub features a built-in surge protection device. This prevents electrical surges resulting from lightning strikes and other transient voltages that originate from the mains network from damaging the luminaire, even in the most demanding conditions. The protective device also includes an end-of-life LED warning light, indicating that the luminaire is protected correctly.

### User-friendly

Installing a luminaire has never been easier. IzyHub features tool-free connector as the main connection terminal. It enables 30% shorter installation times compared with standard solutions. Lever actuated spring-loaded electrical connectors provide optimal contact throughout the entire life of the product.

### Easy maintenance

On the rare occasion that a component needs to be replaced in the luminaire, IzyHub makes sure that operations are carried out quickly and easily. Luminaire component connections are keyed so that mixing up electrical connections is physically impossible. Installers do not need to trace wires individually: plug it in, and it works straight away.



### Versions and upgrades

IzyHub has several versions featuring different connectivity options. IzyHub can include an SPD, can work with external dimming and operate with all type of control sockets. It is also able to provide bi-power control and to include fuse options.

These options provide flexibility for future upgrades by only having to replace the IzyHub to connect the new equipment. No complicated re-wiring needed.





The Schröder 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 Schröder 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.

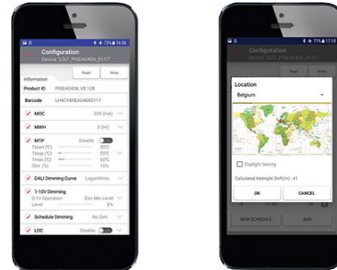
## Quick and easy pairing

Get the Sirius App from Schröder. 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.



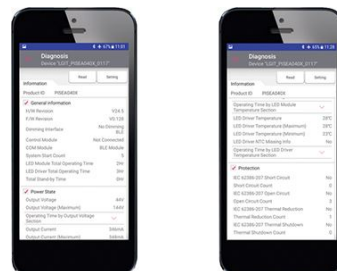
## Manual dimming control

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.







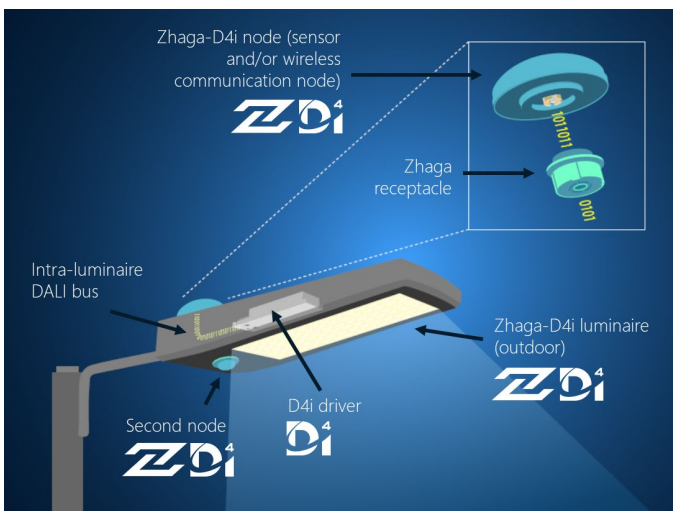
The Zhaga consortium joined forces with the DiiA and produced a single Zhaga-D4i certification that combines the Zhaga Book 18 version 2 outdoor connectivity specifications with the DiiA's D4i specifications for intra-luminaire DALI.

## Standardisation for interoperable ecosystems

As a founding member of the Zhaga consortium, Schröder 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.



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



## Tailored experience

Schröder 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. Schröder 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

Schröder 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.

## Standardisation for interoperable ecosystems

Schröder 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 Schröder EXEDRA system relies on shared and open technologies.

Schröder 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, Schröder 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. Schröder 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.

## GENERAL INFORMATION

|   |  |
|---|--|
| Recommended installation height                                       | 4m to 12m   13' to 39'   |
| FutureProof   | Easy replacement of the photometric engine and electronic assembly on-site |
| Circle Light label  | Score >90 - The product fully meets circular economy requirements          |
| Driver included   | Yes  |
| CE mark   | Yes  |
| CB mark   | Yes  |
| ENEC certified  | Yes  |
| UL certified  | Yes  |
| ROHS compliant  | Yes  |
| Zhaga-D4i certified   | Yes  |
| French law of December 27th 2018 - Compliant with application type(s) | a, b, c, d, e, f, g  |
| 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 09                                     |
| Vibration test         | Compliant with 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 I EU, Class II EU, Class 1 US                                    |
| Nominal voltage                     | 120-277V – 50-60Hz<br>220-240V – 50-60Hz                               |
| Power factor (at full load)         | 0.95+  |
| Surge protection options (kV)       | 10, 20   |
| 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, Photocell, Remote management |
| Socket                              | Zhaga (optional)<br>NEMA 7-pin (optional)                              |
| Associated control system(s)        | Sirius BLE<br>Owlet IoT<br>Schröder EXEDRA                             |
| Sensor                              | PIR (optional)   |

· PIR only available for FLEXIA Midi

## OPTICAL INFORMATION

|                              |   |
|------------------------------|---|
| LED colour temperature       | 2200K (FlexiWhite 722 722)<br>2600K (FlexiWhite 726 726)<br>2700K (Warm White 727)<br>3000K (Warm White 730)<br>3000K (Warm White 830)<br>3000K (FlexiWhite 730 730)<br>4000K (Neutral White 740) |
| Colour rendering index (CRI) | >70 (FlexiWhite 722 722)<br>>70 (FlexiWhite 726 726)<br>>70 (Warm White 727)<br>>70 (Warm White 730)<br>>80 (Warm White 830)<br>>70 (FlexiWhite 730 730)<br>>70 (Neutral White 740)               |

Upward Light Output Ratio (ULOR) 0%

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

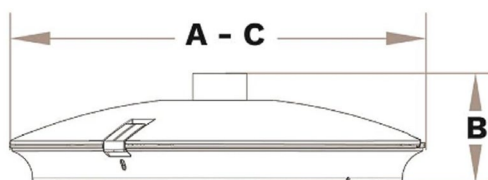
## LIFETIME OF THE LEDS @ TQ 25°C

|                    |                |
|--------------------|----------------|
| All configurations | 100,000h - L95 |
|--------------------|----------------|

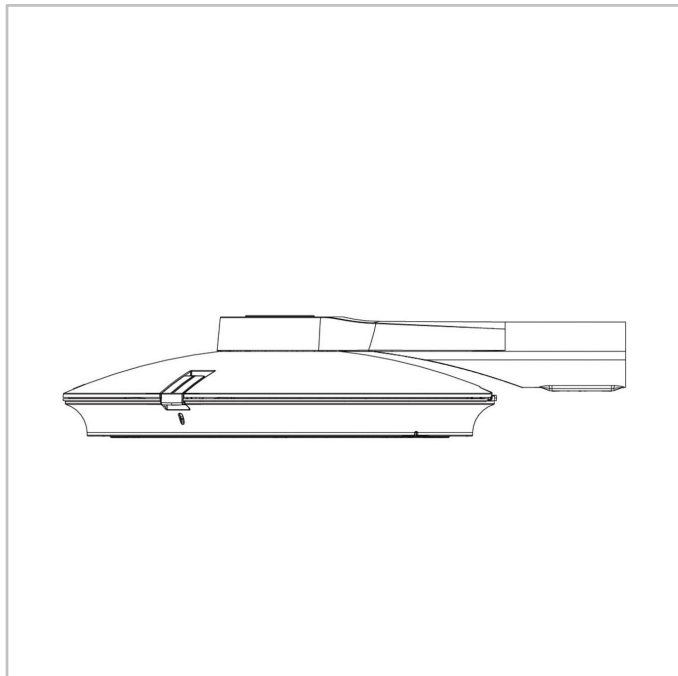
## DIMENSIONS AND MOUNTING

|                              |  |
|------------------------------|--|
| AxBxC (mm   inch)            | FLEXIA FG MIDI - 504x140x504   19.8x5.5x19.8<br>FLEXIA FG MAXI - 610x168x610   24.0x6.6x24.0   |
| Weight (kg   lbs)            | FLEXIA FG MIDI - 9.6   21.1<br>FLEXIA FG MAXI - 14.25   31.4   |
| Aerodynamic resistance (CxS) | FLEXIA FG MIDI - 0.11<br>FLEXIA FG MAXI - 0.10   |
| Mounting possibilities       | Side-entry slip-over – Ø60mm<br>Side-entry penetrating – Ø48mm<br>Suspended 1" gas male<br>Suspended 1" gas female<br>Catenary<br>Wall-mounted |

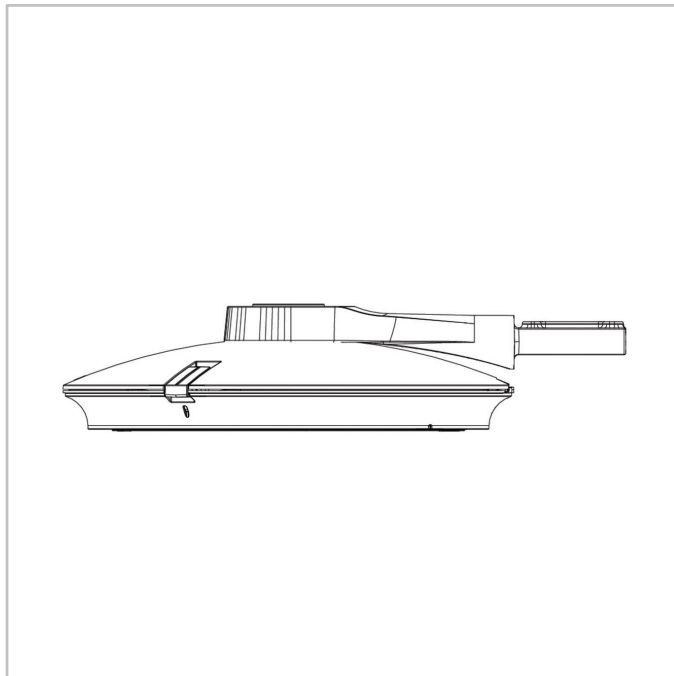
· For more information about mounting possibilities, please consult the installation sheet.



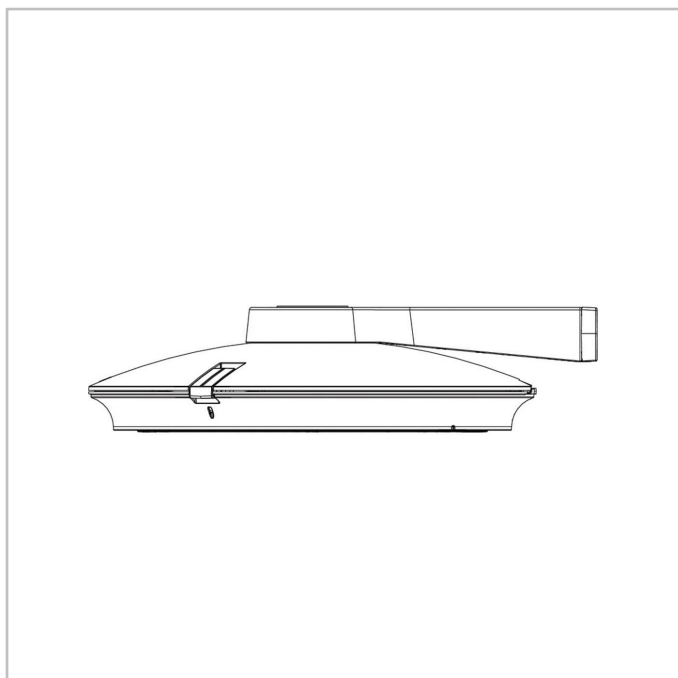
FLEXIA FG | Side-entry enclosing Ø60 mm mounting



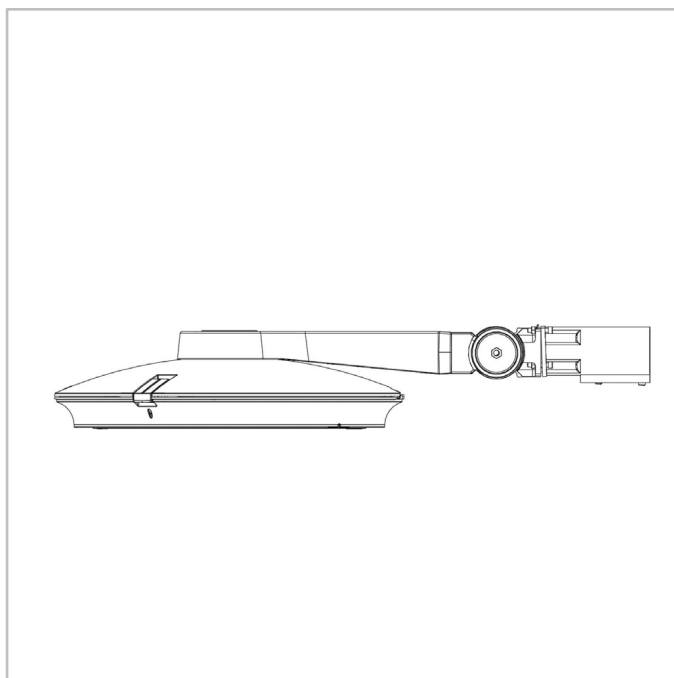
FLEXIA FG | Side-entry penetrating spigot Ø48 mm



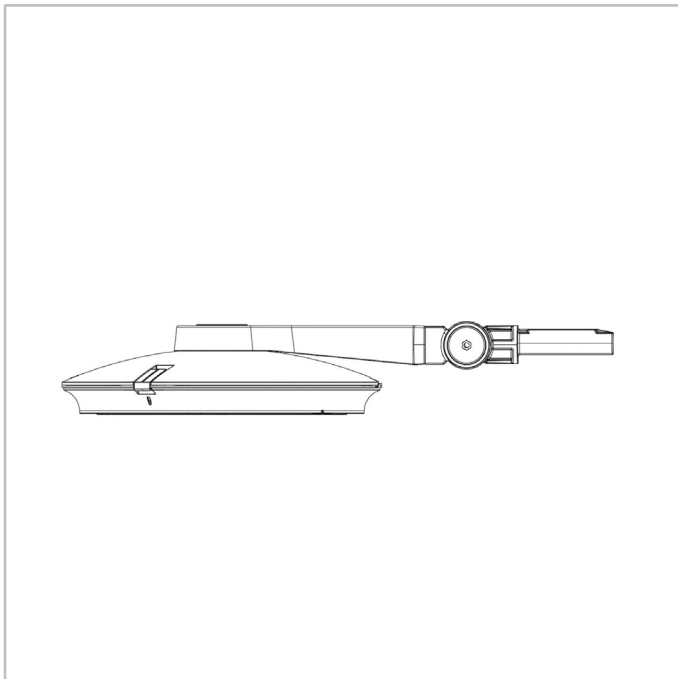
FLEXIA FG | Side-entry 40X40 square direct mounting



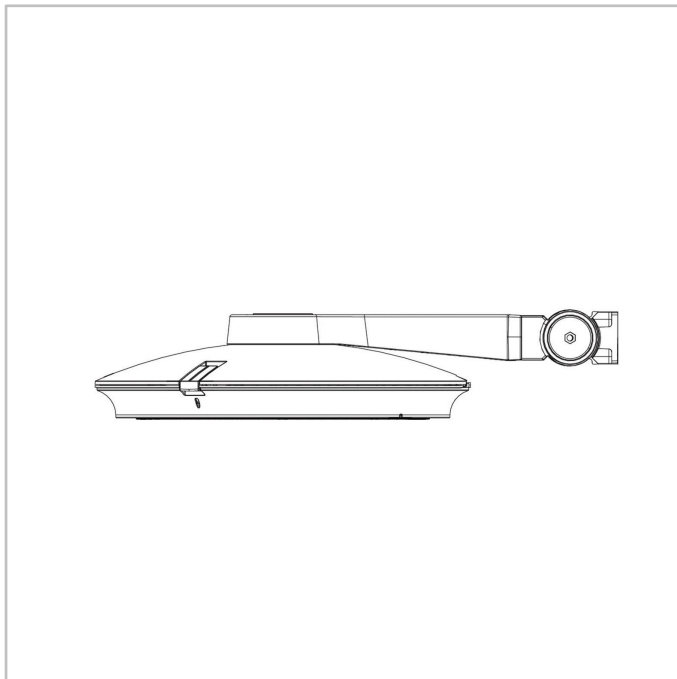
FLEXIA FG | Knuckle joint side-entry enclosing Ø60 mm



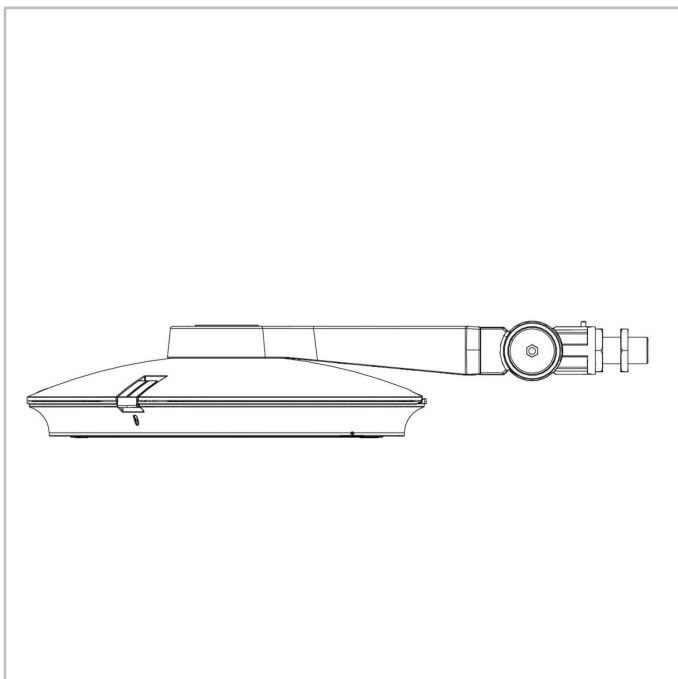
FLEXIA FG | Knuckle joint side-entry  
penetrating Ø48 mm



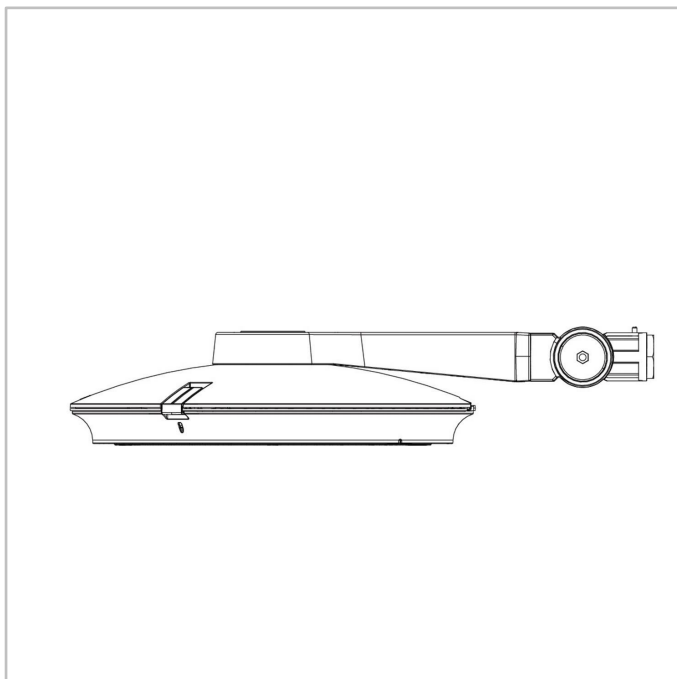
FLEXIA FG | Knuckle joint side-entry 60X50  
square mounting



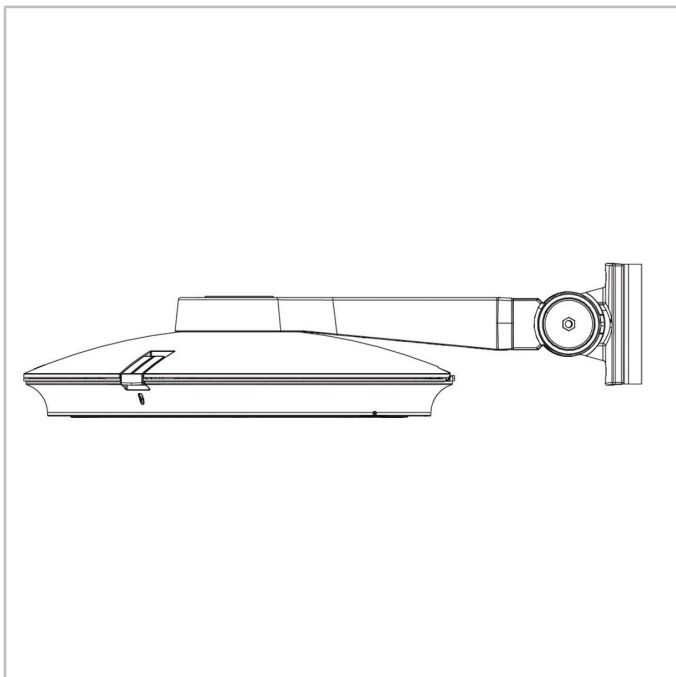
FLEXIA FG | Knuckle joint side-entry 1" gas  
mounting



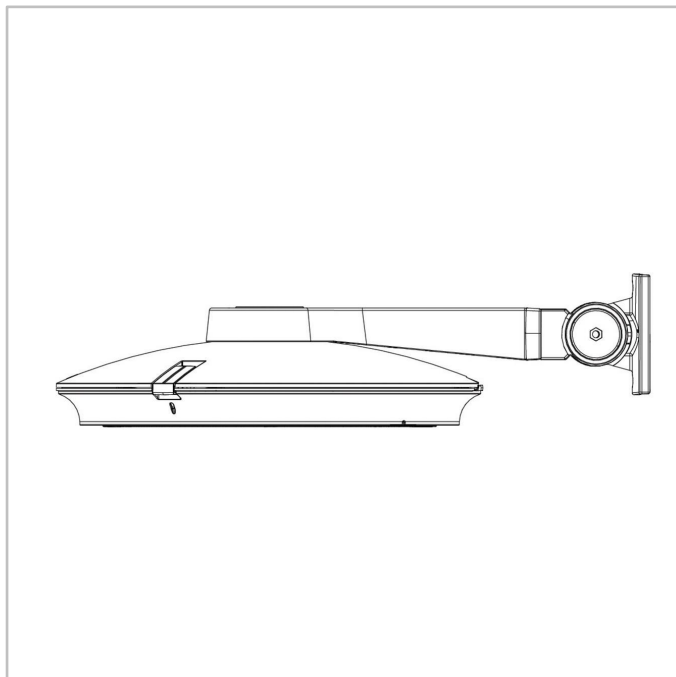
FLEXIA FG | Knuckle joint 1" gas side-entry  
enclosing mounting



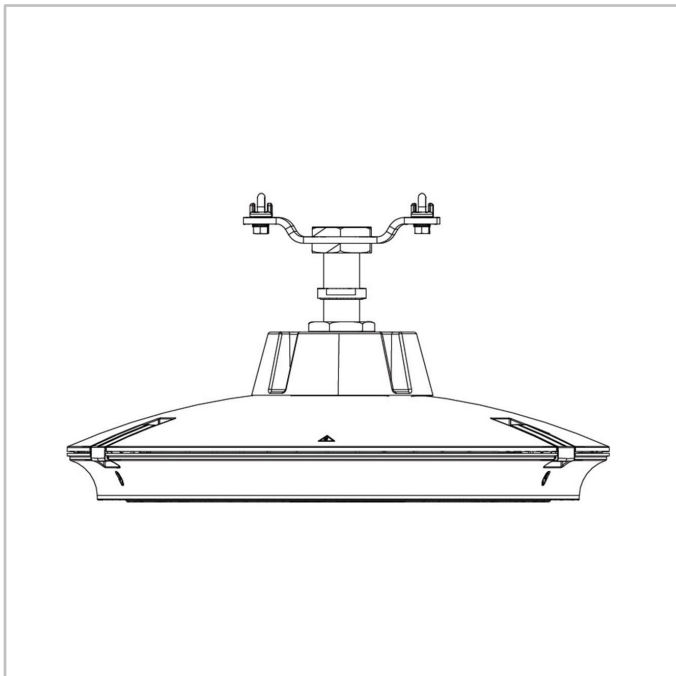
FLEXIA FG | Knuckle joint surface mounting



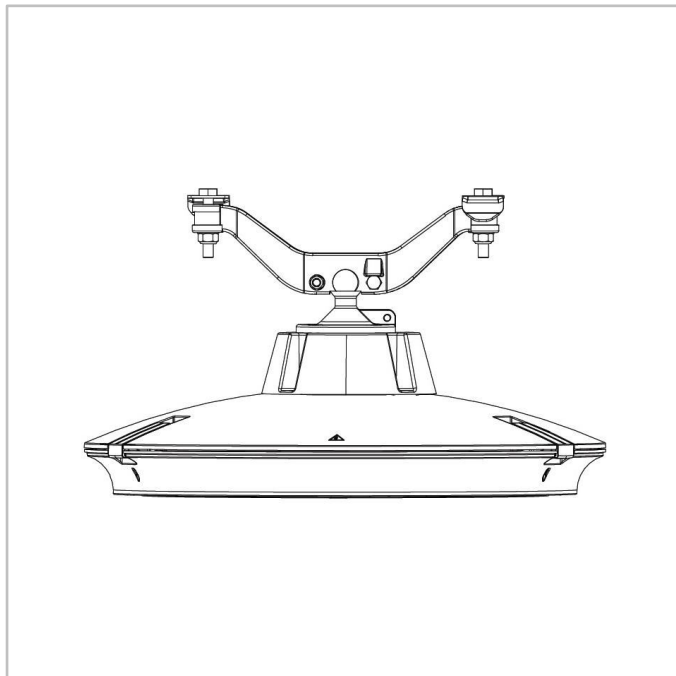
FLEXIA FG | Knuckle rear bracket mounting



FLEXIA FG | Catenary fixed mounting (Midi only)

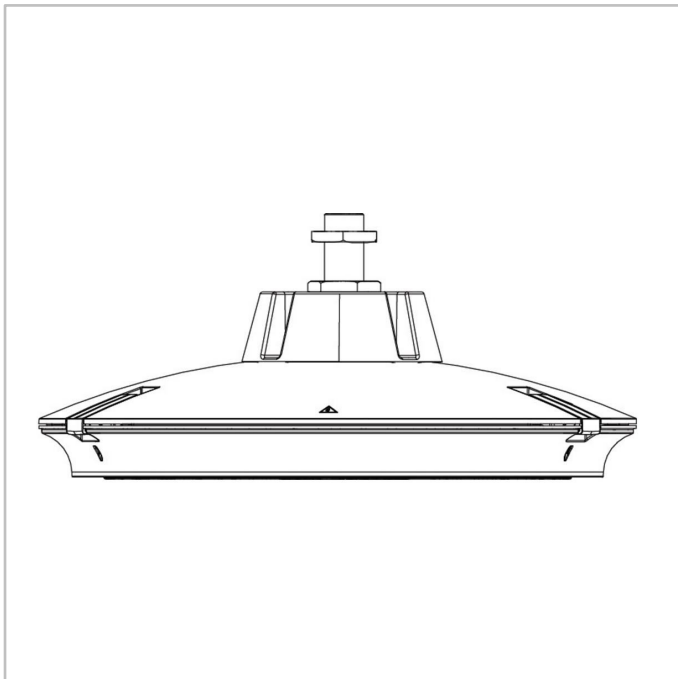


FLEXIA FG | Catenary swiveling mounting (Midi only)

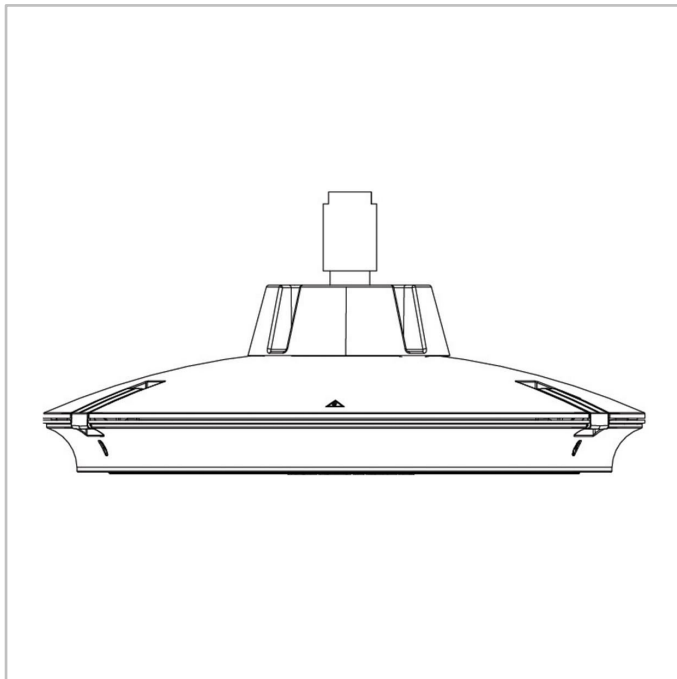




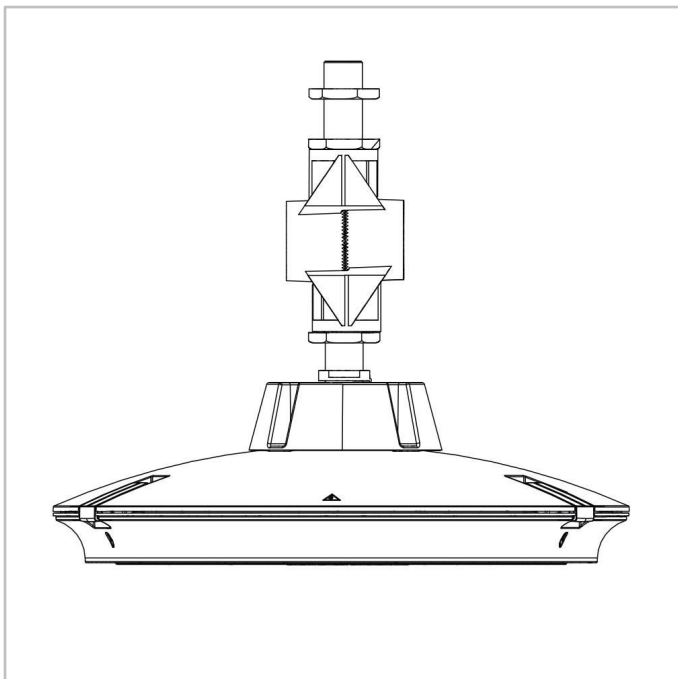
FLEXIA FG | Suspended with fixed 1" gas mounting



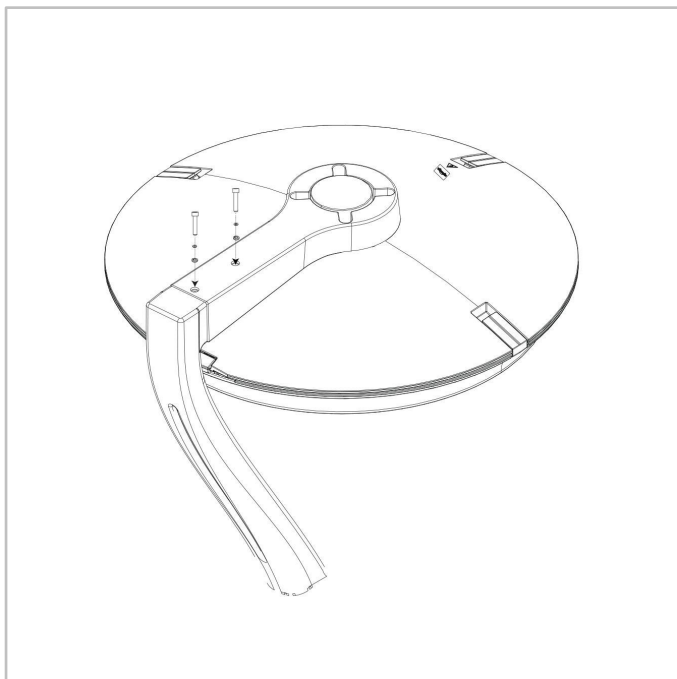
FLEXIA FG | Suspended with 1" gas enclosing mounting



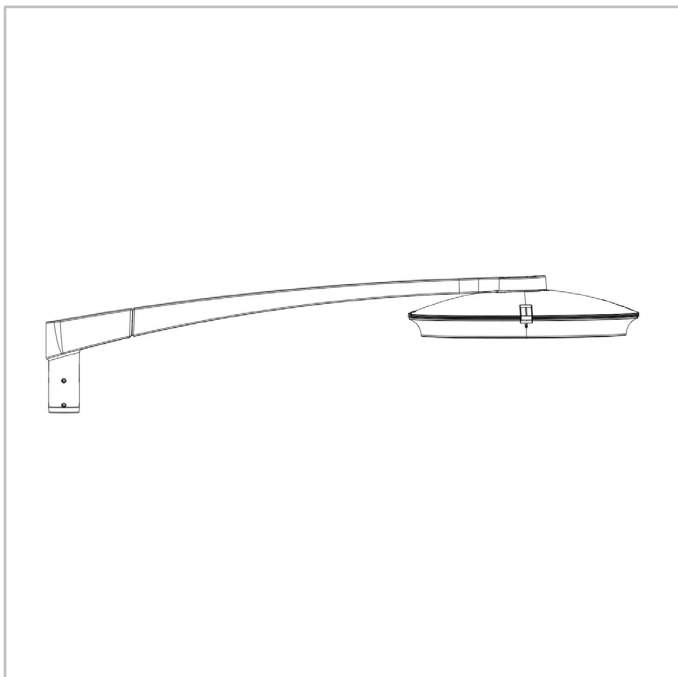
FLEXIA FG | Suspended with knuckle joint 1" gas mounting



FLEXIA FG | Evens bracket (Midi only)



## FLEXIA FG | Sofia bracket (2 sizes)






|                | Number of LEDs | mA  | Luminaire output flux (lm)<br>FlexiWhite 722 722 |      | Luminaire output flux (lm)<br>FlexiWhite 726 726 |      | Luminaire output flux (lm)<br>FlexiWhite 730 730 |      | Luminaire output flux (lm)<br>Warm White 727 |      | Luminaire output flux (lm)<br>Warm White 730 |      | Luminaire output flux (lm)<br>Warm White 830 |      | Luminaire output flux (lm)<br>Neutral White 740 |      | W    | lm/W | Photometry |
|----------------|----------------|-----|--|------|--|------|--|------|--|------|--|------|--|------|---|------|------|------|------------|
|                |                |     | Min  | Max  | Min  | Max  | Min  | Max  | Min  | Max  | Min  | Max  | Min  | Max  | Min   | Max  |      |      |            |
| FLEXIA FG MIDI | 10             | 200 | -  | -    | -  | -    | -  | -    | 700  | 800  | 800  | 900  | 700  | 800  | 800   | 1000 | 7.8  | 128  |            |
|                | 10             | 300 | -  | -    | -  | -    | -  | -    | 1100   | 1200 | 1200   | 1300 | 1100   | 1200 | 1200  | 1400 | 10.8 | 130  |            |
|                | 10             | 300 | 1000   | 1000 | 1100   | 1200 | 1200   | 1200 | -  | -    | -  | -    | -  | -    | -   | -    | 10.5 | 114  |            |
|                | 10             | 310 | -  | -    | -  | -    | -  | -    | 1100   | 1300 | 1200   | 1400 | 1100   | 1300 | 1300  | 1400 | 11.1 | 126  |            |
|                | 10             | 400 | -  | -    | -  | -    | -  | -    | 1400   | 1600 | 1500   | 1700 | 1400   | 1600 | 1600  | 1800 | 13.8 | 130  |            |
|                | 10             | 400 | 1300   | 1300 | 1500   | 1500 | 1600   | 1600 | -  | -    | -  | -    | -  | -    | -   | -    | 13.6 | 118  |            |
|                | 10             | 500 | -  | -    | -  | -    | -  | -    | 1700   | 2000 | 1900   | 2100 | 1700   | 2000 | 2000  | 2200 | 17   | 129  |            |
|                | 10             | 500 | 1600   | 1700 | 1800   | 1900 | 2000   | 2000 | -  | -    | -  | -    | -  | -    | -   | -    | 17.1 | 117  |            |
|                | 10             | 600 | -  | -    | -  | -    | -  | -    | 2000   | 2300 | 2200   | 2400 | 2000   | 2300 | 2300  | 2600 | 20.5 | 127  |            |
|                | 10             | 600 | 1900   | 1900 | 2100   | 2100 | 2200   | 2300 | -  | -    | -  | -    | -  | -    | -   | -    | 20.4 | 113  |            |
|                | 10             | 650 | -  | -    | -  | -    | -  | -    | 2200   | 2400 | 2300   | 2600 | 2200   | 2400 | 2400  | 2700 | 22.2 | 122  |            |
|                | 10             | 700 | 2200   | 2200 | 2400   | 2500 | 2600   | 2700 | -  | -    | -  | -    | -  | -    | -   | -    | 23.7 | 114  |            |
|                | 10             | 730 | 2200   | 2300 | 2500   | 2600 | 2700   | 2800 | -  | -    | -  | -    | -  | -    | -   | -    | 24.7 | 113  |            |
|                | 20             | 200 | -  | -    | -  | -    | -  | -    | 1500   | 1700 | 1600   | 1900 | 1500   | 1700 | 1700  | 2000 | 13.8 | 145  |            |
|                | 20             | 200 | 1400   | 1400 | 1600   | 1600 | 1700   | 1700 | -  | -    | -  | -    | -  | -    | -   | -    | 13.3 | 128  |            |
|                | 20             | 300 | -  | -    | -  | -    | -  | -    | 2200   | 2500 | 2400   | 2700 | 2200   | 2500 | 2500  | 2900 | 19.8 | 146  |            |
|                | 20             | 300 | 2100   | 2100 | 2300   | 2400 | 2500   | 2500 | -  | -    | -  | -    | -  | -    | -   | -    | 19.3 | 130  |            |
|                | 20             | 400 | -  | -    | -  | -    | -  | -    | 2900   | 3300 | 3100   | 3500 | 2900   | 3300 | 3300  | 3700 | 25.9 | 143  |            |
|                | 20             | 400 | 2700   | 2700 | 3000   | 3100 | 3200   | 3300 | -  | -    | -  | -    | -  | -    | -   | -    | 25.5 | 129  |            |
|                | 20             | 500 | -  | -    | -  | -    | -  | -    | 3600   | 4000 | 3800   | 4300 | 3600   | 4000 | 4000  | 4500 | 32.3 | 139  |            |




















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



|                |                |      | Luminaire output flux (lm)<br>FlexiWhite 722<br>722 |      | Luminaire output flux (lm)<br>FlexiWhite 726<br>726 |      | Luminaire output flux (lm)<br>FlexiWhite 730<br>730 |      | Luminaire output flux (lm)<br>Warm White 727 |       | Luminaire output flux (lm)<br>Warm White 730 |       | Luminaire output flux (lm)<br>Warm White 830 |       | Luminaire output flux (lm)<br>Neutral White 740 |       | W    | lm/W  |            |
|----------------|----------------|------|---|------|---|------|---|------|--|-------|--|-------|--|-------|---|-------|------|-------|------------|
|                | Number of LEDs | mA   | Min   | Max  | Min   | Max  | Min   | Max  | Min  | Max   | Min  | Max   | Min  | Max   | Min   | Max   |      | Up to | Photometry |
| FLEXIA FG MIDI | 20             | 500  | 3300  | 3400 | 3700  | 3800 | 4000  | 4100 | -  | -     | -  | -     | -  | -     | -   | -     | 31.9 | 129   |            |
|                | 20             | 600  | -   | -    | -   | -    | -   | -    | 4200   | 4700  | 4400   | 5000  | 4200   | 4700  | 4700  | 5300  | 38.9 | 136   |            |
|                | 20             | 600  | 3900  | 3900 | 4300  | 4400 | 4600  | 4800 | -  | -     | -  | -     | -  | -     | -   | -     | 38.2 | 126   |            |
|                | 20             | 700  | -   | -    | -   | -    | -   | -    | 4700   | 5300  | 5000   | 5700  | 4700   | 5300  | 5300  | 6000  | 45.5 | 132   |            |
|                | 20             | 700  | 4400  | 4500 | 4900  | 5000 | 5300  | 5400 | -  | -     | -  | -     | -  | -     | -   | -     | 44   | 123   |            |
|                | 20             | 800  | -   | -    | -   | -    | -   | -    | 5200   | 5900  | 5600   | 6300  | 5200   | 5900  | 5900  | 6600  | 52.5 | 126   |            |
|                | 20             | 800  | 4900  | 5000 | 5500  | 5600 | 5900  | 6000 | -  | -     | -  | -     | -  | -     | -   | -     | 50.5 | 119   |            |
|                | 20             | 900  | -   | -    | -   | -    | -   | -    | 5700   | 6400  | 6100   | 6900  | 5700   | 6400  | 6400  | 7200  | 59.5 | 121   |            |
|                | 20             | 900  | 5400  | 5500 | 6000  | 6200 | 6500  | 6600 | -  | -     | -  | -     | -  | -     | -   | -     | 57   | 116   |            |
|                | 20             | 1000 | -   | -    | -   | -    | -   | -    | 6100   | 6900  | 6500   | 7400  | 6100   | 6900  | 6900  | 7800  | 66.5 | 117   |            |
|                | 20             | 1000 | 5800  | 6000 | 6500  | 6700 | 7000  | 7200 | -  | -     | -  | -     | -  | -     | -   | -     | 64   | 112   |            |
|                | 40             | 200  | -   | -    | -   | -    | -   | -    | 3100   | 3500  | 3300   | 3800  | 3100   | 3500  | 3500  | 4000  | 24.3 | 165   |            |
|                | 40             | 300  | -   | -    | -   | -    | -   | -    | 4500   | 5100  | 4800   | 5500  | 4500   | 5100  | 5100  | 5800  | 37   | 157   |            |
|                | 40             | 350  | -   | -    | -   | -    | -   | -    | 5200   | 5900  | 5600   | 6300  | 5200   | 5900  | 5900  | 6600  | 43   | 153   |            |
|                | 40             | 400  | -   | -    | -   | -    | -   | -    | 5900   | 6600  | 6300   | 7100  | 5900   | 6600  | 6600  | 7500  | 50   | 150   |            |
|                | 40             | 500  | -   | -    | -   | -    | -   | -    | 7100   | 8000  | 7600   | 8500  | 7100   | 8000  | 8000  | 9000  | 62.2 | 145   |            |
|                | 40             | 600  | -   | -    | -   | -    | -   | -    | 8200   | 9300  | 8800   | 9900  | 8200   | 9300  | 9300  | 10500 | 75   | 140   |            |
|                | 40             | 700  | -   | -    | -   | -    | -   | -    | 9300   | 10500 | 9900   | 11200 | 9300   | 10500 | 10400   | 11800 | 88   | 134   |            |

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



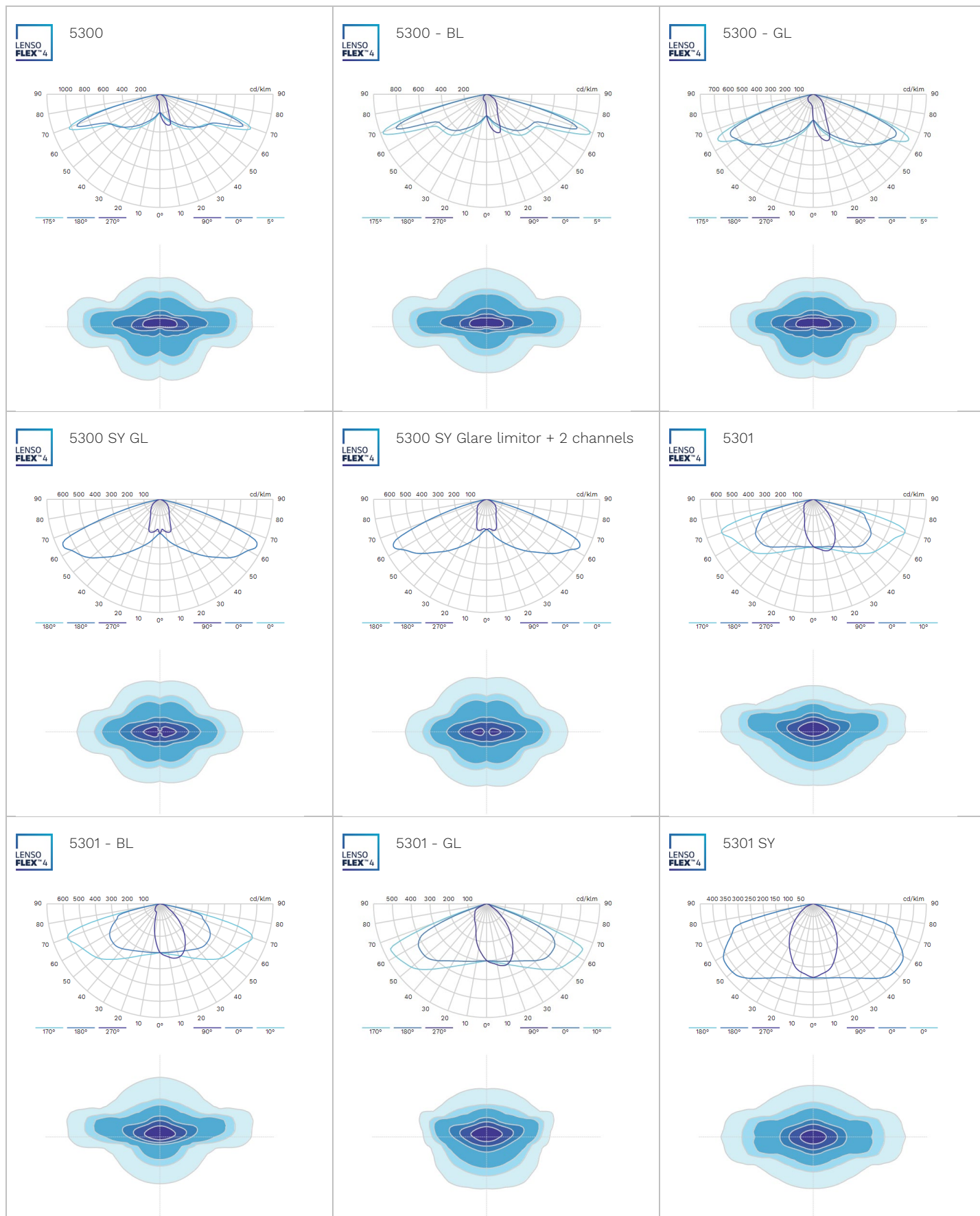
|                |                |      | Luminaire output flux (lm)<br>FlexiWhite 722 |      | Luminaire output flux (lm)<br>FlexiWhite 726 |       | Luminaire output flux (lm)<br>FlexiWhite 730 |       | Luminaire output flux (lm)<br>Warm White 727 |     | Luminaire output flux (lm)<br>Warm White 730 |     | Luminaire output flux (lm)<br>Warm White 830 |     | Luminaire output flux (lm)<br>Neutral White 740 |     | W    | lm/W  |   |
|----------------|----------------|------|--|------|--|-------|--|-------|--|-----|--|-----|--|-----|---|-----|------|-------|---|
|                | Number of LEDs | mA   | Min  | Max  | Min  | Max   | Min  | Max   | Min  | Max | Min  | Max | Min  | Max | Min   | Max |      | Up to | Photometry  |
| FLEXIA FG MAXI | 30             | 200  | 1800   | 2000 | 2000   | 2300  | 2100   | 2500  | -  | -   | -  | -   | -  | -   | -   | -   | 19.6 | 128   |    |
|                | 30             | 300  | 2700   | 3200 | 3000   | 3500  | 3300   | 3800  | -  | -   | -  | -   | -  | -   | -   | -   | 28.4 | 134   |    |
|                | 30             | 400  | 3600   | 4200 | 4100   | 4700  | 4400   | 5100  | -  | -   | -  | -   | -  | -   | -   | -   | 37.5 | 136   |    |
|                | 30             | 460  | 4100   | 4800 | 4600   | 5400  | 5000   | 5800  | -  | -   | -  | -   | -  | -   | -   | -   | 43   | 135   |    |
|                | 30             | 500  | 4500   | 5200 | 5000   | 5800  | 5400   | 6200  | -  | -   | -  | -   | -  | -   | -   | -   | 46.5 | 133   |    |
|                | 30             | 600  | 5200   | 6100 | 5900   | 6800  | 6300   | 7300  | -  | -   | -  | -   | -  | -   | -   | -   | 56   | 130   |   |
|                | 30             | 700  | 6000   | 6900 | 6700   | 7800  | 7200   | 8300  | -  | -   | -  | -   | -  | -   | -   | -   | 65.5 | 127   |  |
|                | 30             | 800  | 6600   | 7700 | 7400   | 8600  | 8000   | 9200  | -  | -   | -  | -   | -  | -   | -   | -   | 75   | 123   |  |
|                | 30             | 850  | 6900   | 8000 | 7700   | 9000  | 8300   | 9700  | -  | -   | -  | -   | -  | -   | -   | -   | 79   | 123   |  |
|                | 30             | 900  | 7200   | 8400 | 8100   | 9400  | 8700   | 10100 | -  | -   | -  | -   | -  | -   | -   | -   | 86   | 117   |  |
|                | 30             | 1000 | 7700   | 9000 | 8700   | 10100 | 9300   | 10800 | -  | -   | -  | -   | -  | -   | -   | -   | 96   | 112   |  |
|                | 40             | 200  | 2400   | 2700 | 2600   | 3100  | 2800   | 3300  | -  | -   | -  | -   | -  | -   | -   | -   | 25.7 | 128   |  |
|                | 40             | 300  | 3600   | 4200 | 4100   | 4700  | 4400   | 5100  | -  | -   | -  | -   | -  | -   | -   | -   | 37.3 | 137   |  |
|                | 40             | 350  | 4300   | 5000 | 4800   | 5600  | 5200   | 6100  | -  | -   | -  | -   | -  | -   | -   | -   | 43.5 | 140   |  |
|                | 40             | 400  | 4800   | 5600 | 5400   | 6300  | 5800   | 6800  | -  | -   | -  | -   | -  | -   | -   | -   | 49.5 | 137   |  |
|                | 40             | 500  | 6000   | 6900 | 6700   | 7800  | 7200   | 8300  | -  | -   | -  | -   | -  | -   | -   | -   | 62   | 134   |  |
|                | 40             | 600  | 7000   | 8100 | 7800   | 9100  | 8400   | 9800  | -  | -   | -  | -   | -  | -   | -   | -   | 74   | 132   |  |
|                | 40             | 650  | 7500   | 8700 | 8400   | 9700  | 9000   | 10500 | -  | -   | -  | -   | -  | -   | -   | -   | 80   | 131   |  |
|                | 40             | 700  | 8000   | 9200 | 8900   | 10400 | 9600   | 11100 | -  | -   | -  | -   | -  | -   | -   | -   | 87   | 128   |  |

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



|                | Number of LEDs | mA  | Luminaire output flux (lm)<br>FlexiWhite 722 722 |       | Luminaire output flux (lm)<br>FlexiWhite 726 726 |       | Luminaire output flux (lm)<br>FlexiWhite 730 730 |       | Luminaire output flux (lm)<br>Warm White 727 |       | Luminaire output flux (lm)<br>Warm White 730 |       | Luminaire output flux (lm)<br>Warm White 830 |       | Luminaire output flux (lm)<br>Neutral White 740 |       | w    | lm/w | Photometry |
|----------------|----------------|-----|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|---|-------|------|------|------------|
|                |                |     | Min  | Max   | Min  | Max   | Min  | Max   | Min  | Max   | Min  | Max   | Min  | Max   | Min   | Max   |      |      |            |
| FLEXIA FG MAXI | 40             | 800 | 8800   | 10300 | 9900   | 11500 | 10600  | 12300 | -  | -     | -  | -     | -  | -     | -   | -     | 100  | 123  |            |
|                | 40             | 900 | 9600   | 11200 | 10800  | 12500 | 11600  | 13500 | -  | -     | -  | -     | -  | -     | -   | -     | 113  | 119  |            |
|                | 40             | 930 | 9800   | 11400 | 11000  | 12800 | 11900  | 13800 | -  | -     | -  | -     | -  | -     | -   | -     | 117  | 118  |            |
|                | 60             | 200 | -  | -     | -  | -     | -  | -     | 4700   | 5200  | 5000   | 5600  | 4700   | 5300  | 5300  | 5900  | 37.8 | 156  |            |
|                | 60             | 300 | -  | -     | -  | -     | -  | -     | 6700   | 7600  | 7200   | 8100  | 6800   | 7600  | 7600  | 8600  | 55   | 156  |            |
|                | 60             | 400 | -  | -     | -  | -     | -  | -     | 8700   | 9700  | 9300   | 10400 | 8700   | 9800  | 9800  | 11000 | 73   | 151  |            |
|                | 60             | 500 | -  | -     | -  | -     | -  | -     | 10400  | 11700 | 11100  | 12500 | 10400  | 11800 | 11700   | 13200 | 92   | 143  |            |
|                | 60             | 600 | -  | -     | -  | -     | -  | -     | 11900  | 13400 | 12800  | 14400 | 12000  | 13500 | 13500   | 15200 | 116  | 131  |            |
|                | 60             | 700 | -  | -     | -  | -     | -  | -     | 13300  | 15000 | 14200  | 16000 | 13400  | 15100 | 15000   | 16900 | 134  | 126  |            |
|                | 60             | 800 | -  | -     | -  | -     | -  | -     | 14600  | 16500 | 15700  | 17600 | 14700  | 16600 | 16500   | 18600 | 151  | 123  |            |
|                | 80             | 200 | -  | -     | -  | -     | -  | -     | 6200   | 7000  | 6700   | 7500  | 6300   | 7100  | 7100  | 7900  | 48   | 165  |            |
|                | 80             | 300 | -  | -     | -  | -     | -  | -     | 9000   | 10100 | 9700   | 10900 | 9100   | 10200 | 10200   | 11500 | 72   | 160  |            |
|                | 80             | 350 | -  | -     | -  | -     | -  | -     | 10300  | 11600 | 11100  | 12400 | 10400  | 11700 | 11700   | 13100 | 84   | 156  |            |
|                | 80             | 400 | -  | -     | -  | -     | -  | -     | 11600  | 13000 | 12400  | 13900 | 11600  | 13100 | 13100   | 14700 | 97   | 152  |            |
|                | 80             | 500 | -  | -     | -  | -     | -  | -     | 13900  | 15600 | 14800  | 16700 | 13900  | 15700 | 15700   | 17600 | 123  | 143  |            |
|                | 80             | 600 | -  | -     | -  | -     | -  | -     | 15900  | 17900 | 17100  | 19200 | 16000  | 18000 | 18000   | 20300 | 149  | 136  |            |
|                | 80             | 700 | -  | -     | -  | -     | -  | -     | 17700  | 20000 | 19000  | 21400 | 17800  | 20100 | 20100   | 22600 | 174  | 130  |            |

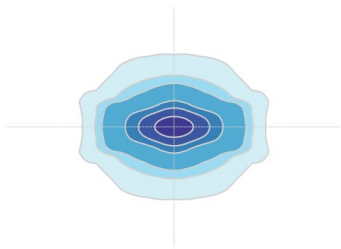
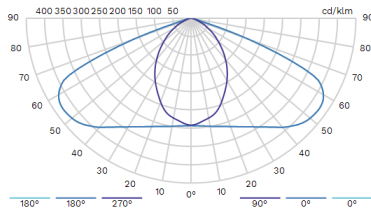
Tolerance on LED flux is  $\pm 7\%$  and on total luminaire power  $\pm 5\%$





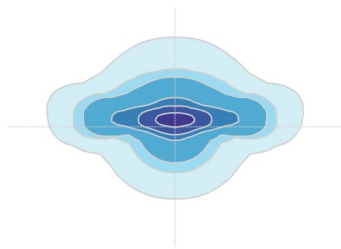
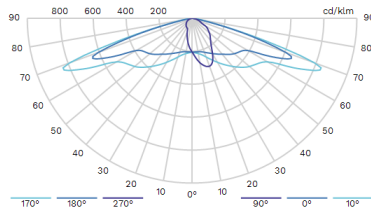
LENSO  
FLEX<sup>4</sup>

5301 SY GL



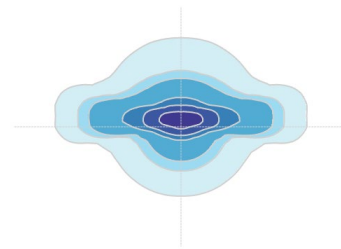
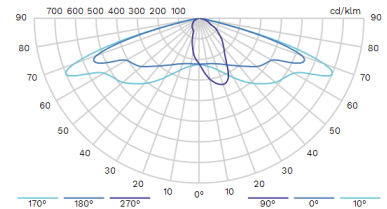
LENSO  
FLEX<sup>4</sup>

5302 - Back light + 2 Channels



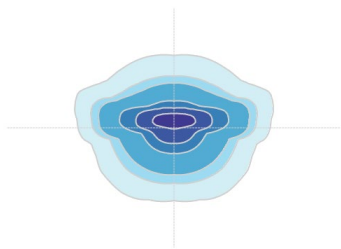
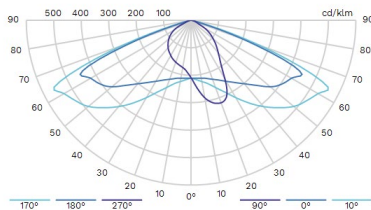
LENSO  
FLEX<sup>4</sup>

5302 - BL



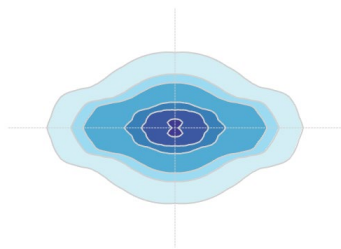
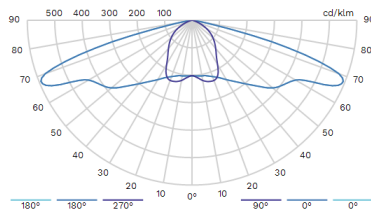
LENSO  
FLEX<sup>4</sup>

5302 - GL



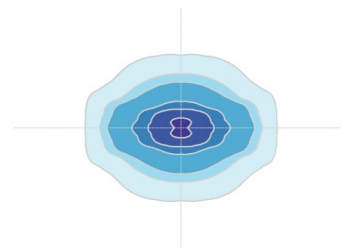
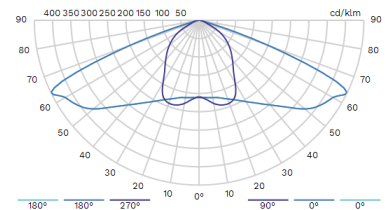
LENSO  
FLEX<sup>4</sup>

5302 SY



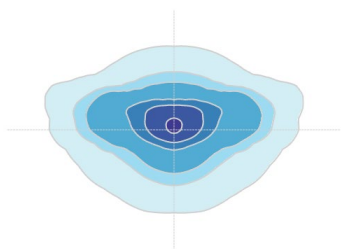
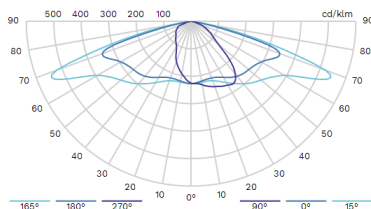
LENSO  
FLEX<sup>4</sup>

5302 SY GL



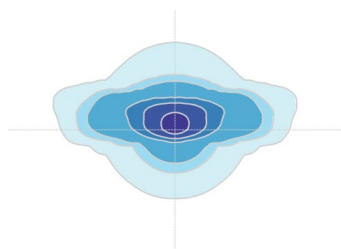
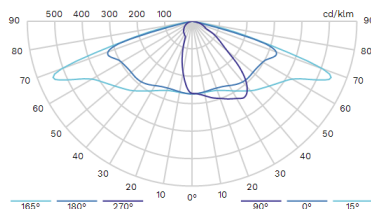
LENSO  
FLEX<sup>4</sup>

5303 - 2 channels



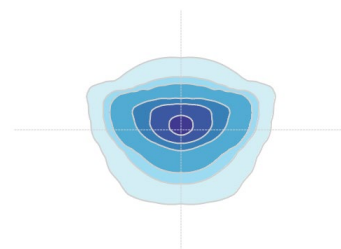
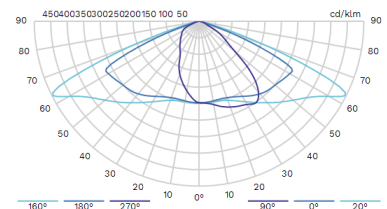
LENSO  
FLEX<sup>4</sup>

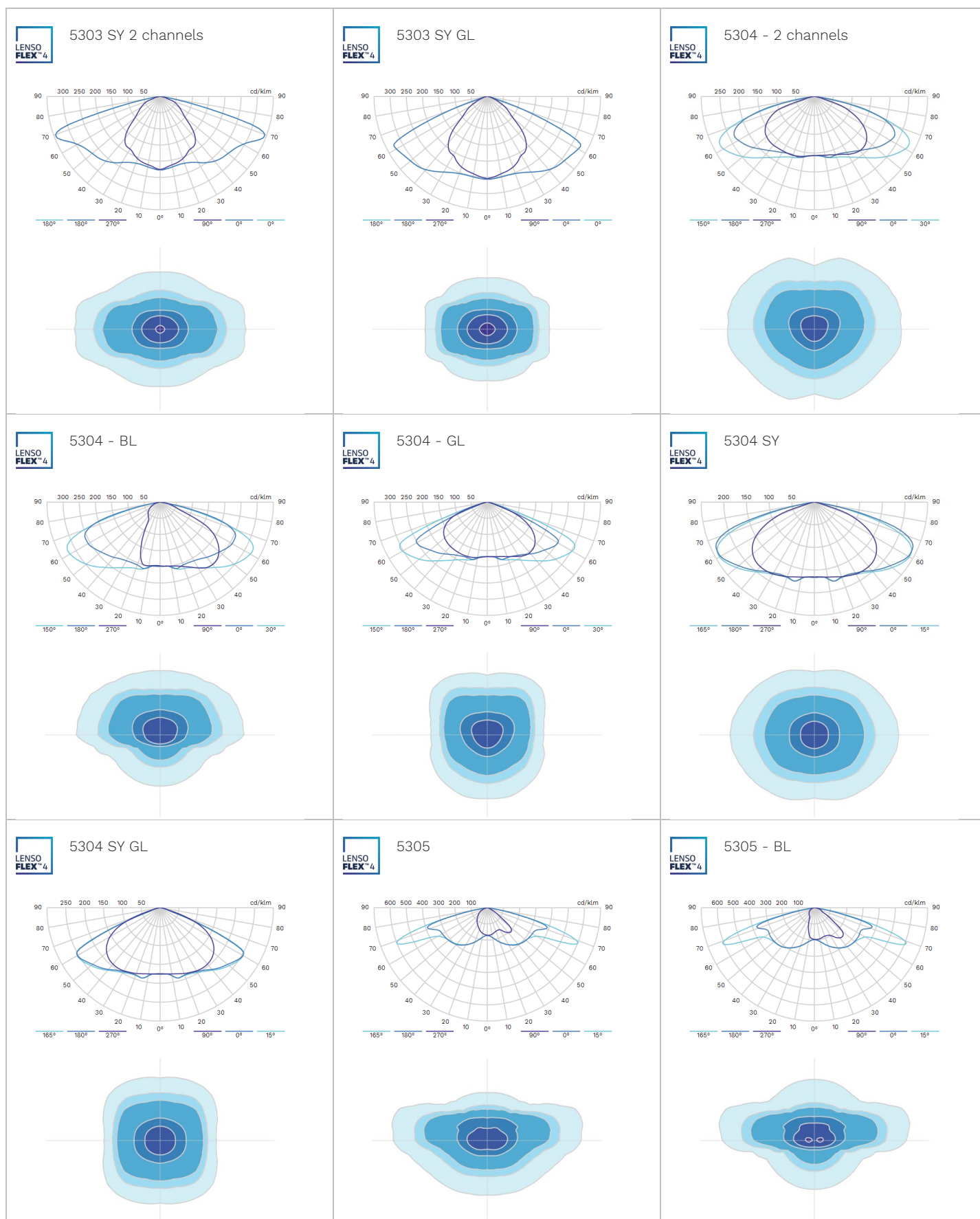
5303 - BL

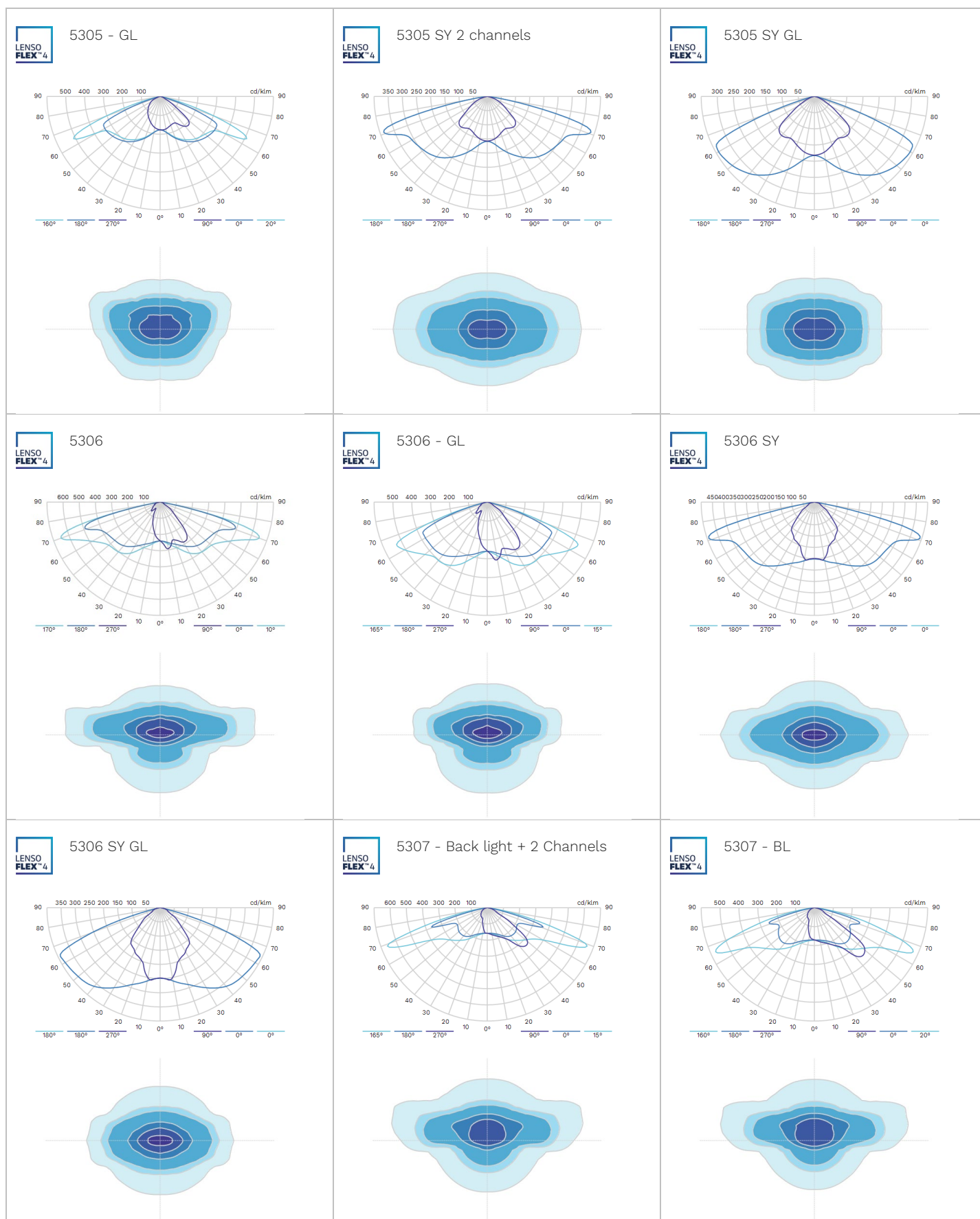


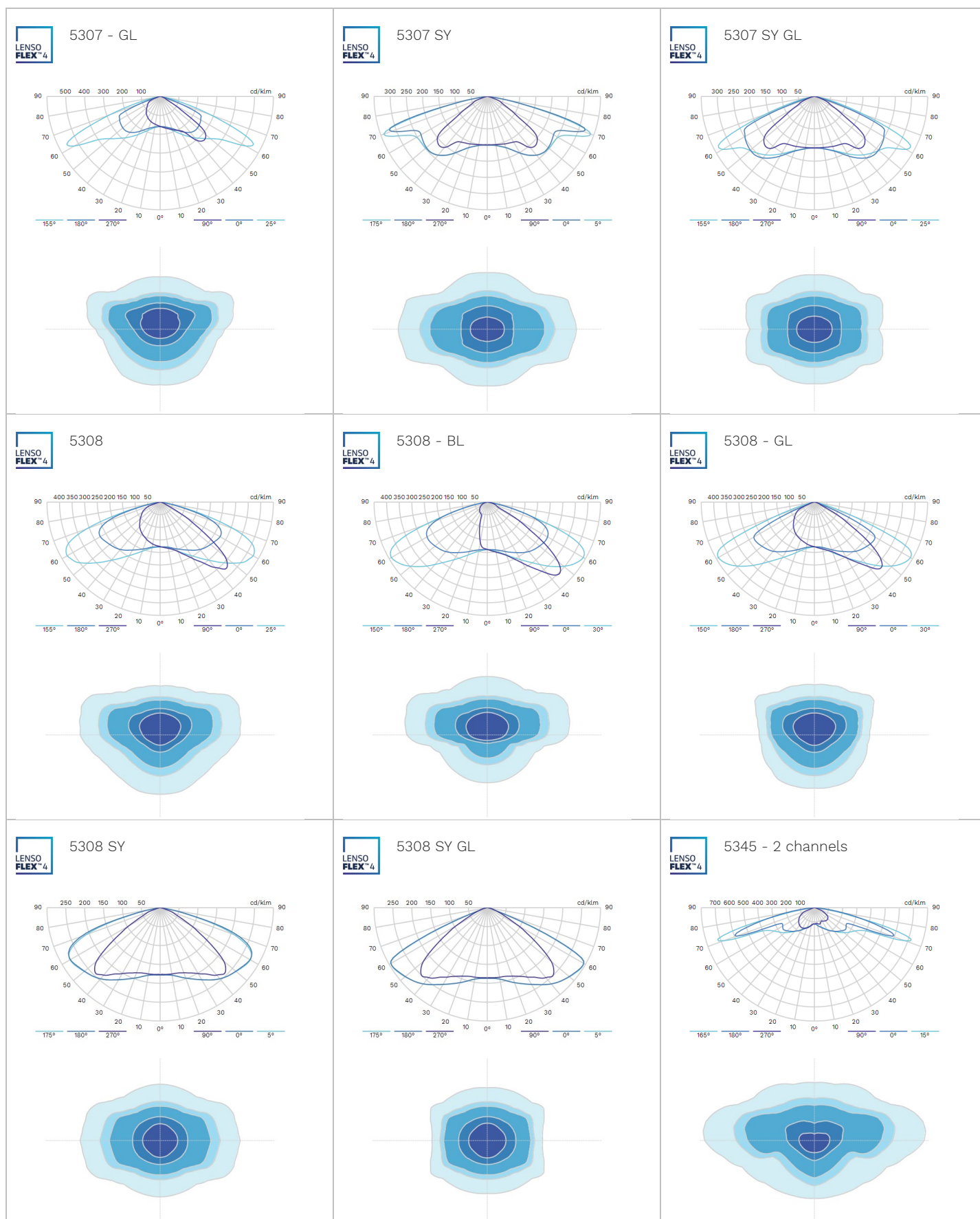
LENSO  
FLEX<sup>4</sup>

5303 - GL

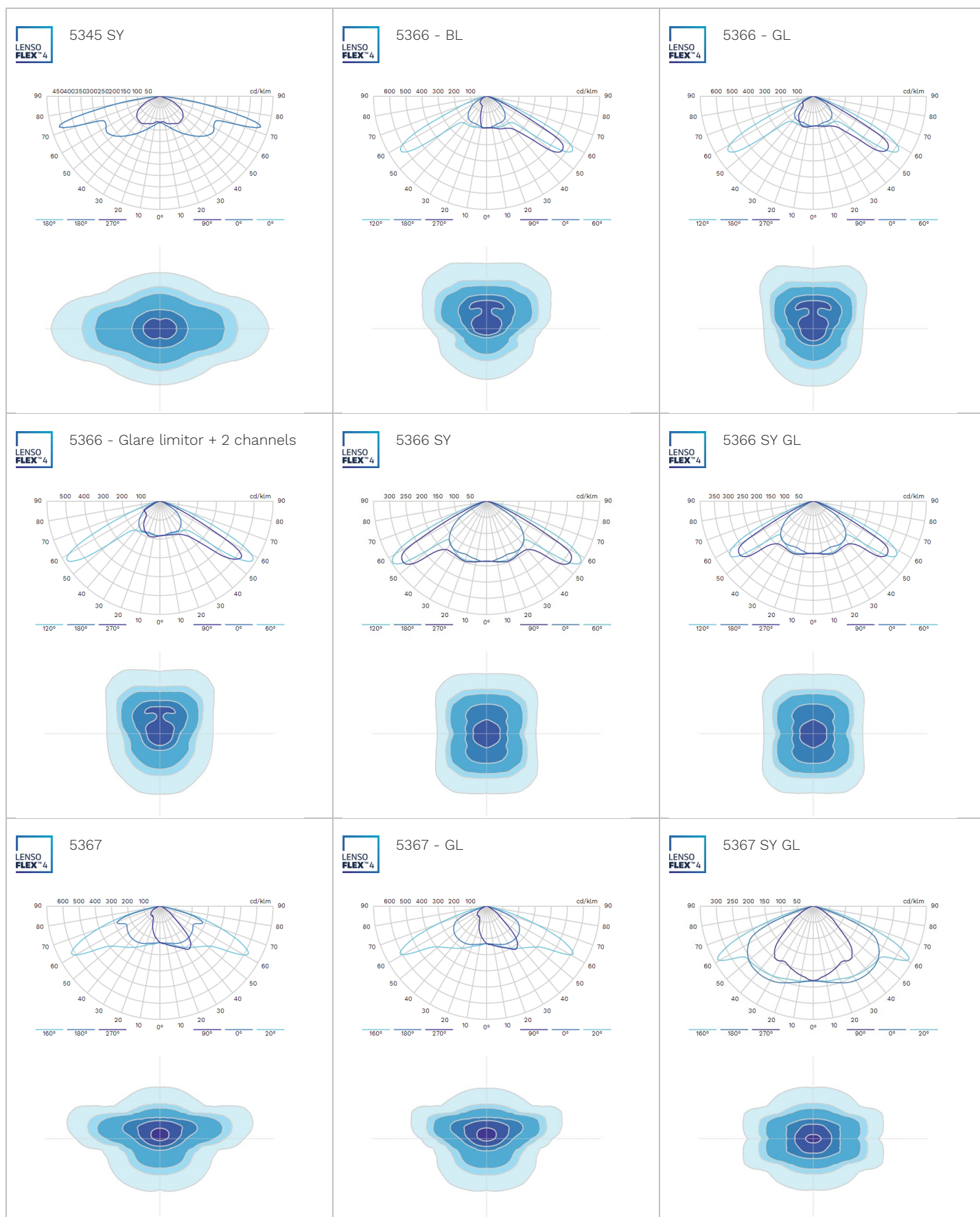






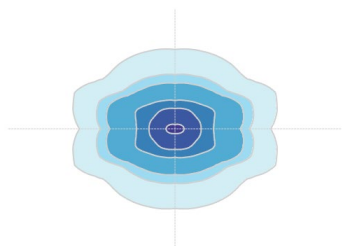
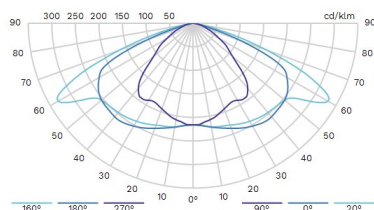




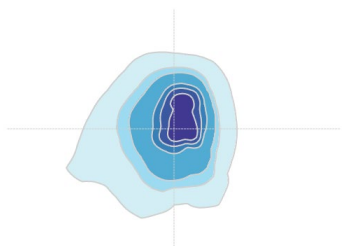
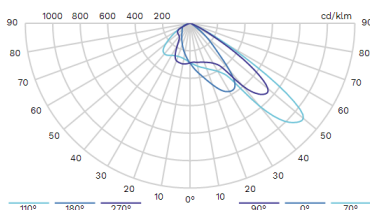




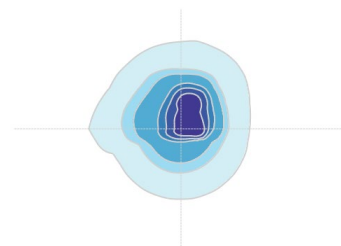
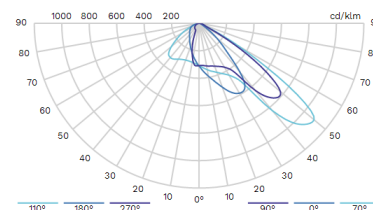
5367 SY Glare limiter + 2 channels



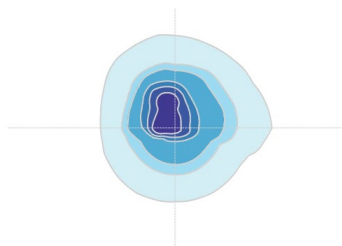
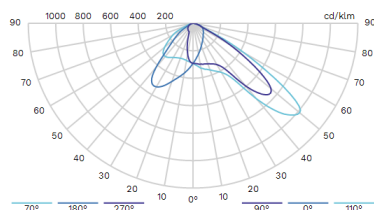
5369 Zebra right



5369 Zebra right BL



5370 Zebra left Back light + 2 Channels



5370 Zebra left BL

