Schréder
Experts in lightability™

DECORATIVE

ZYLINDO GEN2

LENSO FLEX™4

A timeless, decorative design integrating the latest technology

ZYLINDO GEN2 helps you create safer, more attractive, future-ready urban spaces.

Its elegant, cylindrical silhouette enhances public environments without imposing on the surrounding architecture. Available with or without a cap, it gives urban planners and architects the freedom to shape distinctive ambiences while maintaining visual coherence across projects.

Its high-efficiency LED technology and precise, glare-free photometric distributions ensure optimal light levels for various applications. Delivering the right light exactly where it is needed, ZYLINDO GEN2 helps municipalities reduce energy costs while maintaining safety and visual comfort for citizens. Designed for operational efficiency, its user-friendly, future-ready architecture allows fast installation, simplified maintenance and great adaptability to evolving urban requirements.

IP 66 · IK 10

URBAN & RESIDENTIAL STREETS · BRIDGES · BIKE & PEDESTRIAN PATHS · RAILWAY STATIONS & METROS · CAR PARKS · SQUARES & PEDESTRIAN AREAS

Concept

ZYLINDO GEN2 is a timeless, decorative post-top luminaire designed around a robust, smart architecture.

Its cylindrical protector is made of UV-stabilised polycarbonate and houses two oval extruded aluminium rods that structurally connect the base to the top of the luminaire. The power cable is discreetly routed inside these hollow rods, preserving the clean, minimalist design. Internal components are finished in black to minimise internal reflections and limit unnecessary upward light (ULR 0%).

ZYLINDO GEN2 features a user-friendly architecture that significantly simplifies installation, access and maintenance. The photometric engine and gear components are mounted on the upper cap, which can be easily accessed by pinching two stainless steel spring locks. The complete unit can then be fully removed using quarter-turn latches, enabling fast intervention and simplified servicing.

This design allows cities to optimise operational efficiency throughout the luminaire's lifecycle by replacing or upgrading only the required components, without needing to change the entire luminaire.

ZYLINDO GEN2 integrates energy-efficient LED technology combined with a wide range of precise photometric distributions and glare-free solutions (internal diffusor and light flux cut-off) to deliver high-quality, comfortable lighting.

Compatible with a standard NEMA 7-pin or a Zhaga socket, it is ready to integrate into open connected lighting networks, enabling smart lighting applications such as light-on-demand scenarios through motion sensors, and precise control over energy consumption and luminaire performance.

Available in two aesthetic variants, ZYLINDO GEN2 delivers design flexibility to suit a wide range of urban projects.

The optional internal diffuser enhances visual comfort, while backlight technology cuts the light flux to eliminate unwanted light spill in populated urban areas.

Connected-ready and fully interoperable, ZYLINDO GEN2 is ready to integrate into open connected lighting networks.

ZYLINDO GEN2 internal parts are finished in black to reduce upward light reflection and to comply with light pollution standards (ULR 0%).

TYPES OF APPLICATION

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

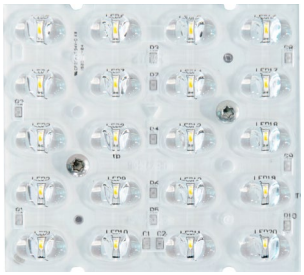
KEY ADVANTAGES

- LensoFlex®4 versatile solutions for high-end photometries maximising comfort and safety
- Elegant and robust design with 2 aesthetic versions
- Supplied pre-cabled to facilitate its installation
- Connected-ready
- Zhaga-D4i certified
- Wide choice of photometrical distributions
- Tool free access: easy and safe maintenance
- Sustainable and circular: replace only the components you need and avoid unnecessary waste

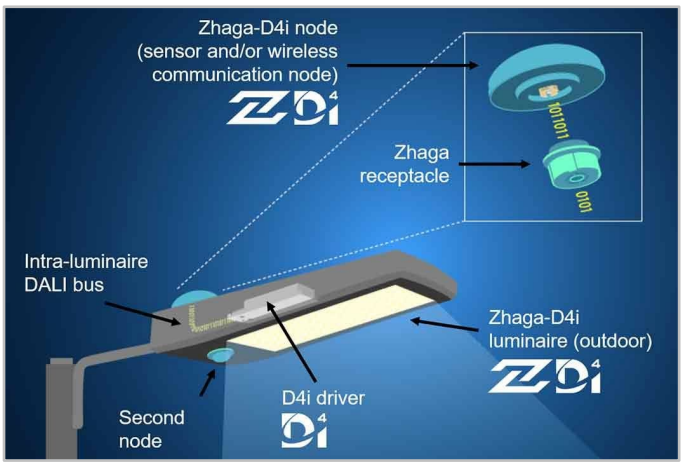
LensoFlex®4

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.



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.

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

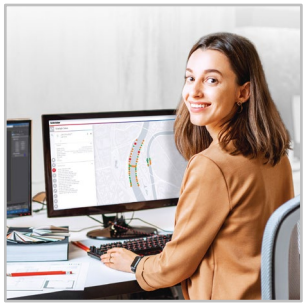
With EXEDRA, Schréder has taken a technology-agnostic approach: we rely on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions. Schréder EXEDRA is designed to unlock complete interoperability, as it offers the ability to:

- 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

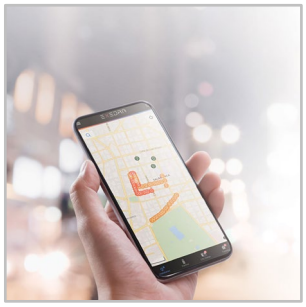
Data is gold. Schréder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help end-users take the right actions.

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.

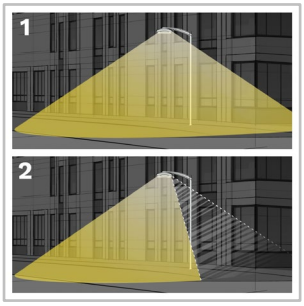
Mobile App: any time, any place, connect to your street lighting



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.

With the PureNight concept, Schréder offers the ultimate solution for restoring the night sky without switching off cities, while maintaining safety and well-being for people and preserving wildlife. The PureNight concept guarantees that your Schréder lighting solution satisfies environmental laws and requirements. Well-designed LED lighting has the potential to improve the environment in all respects.

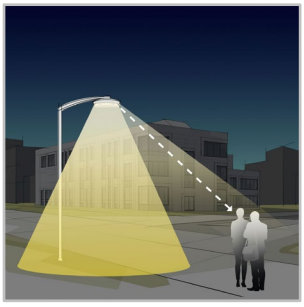
Direct the light only where it is wanted and needed



Schréder is renowned for its expertise in photometry. Our optics direct light only where it is wanted and needed. However, light trespass behind the luminaire might be a key concern when it comes to protecting a sensitive wildlife habitat or avoiding intrusive lighting towards buildings. Our fully integrated backlight solutions easily address this potential risk.

1. Without backlight
2. With backlight

Offer maximum visual comfort to people



Because of the lower installation height compared to road lighting, visual comfort is an essential aspect of urban lighting. Schréder designs lenses and accessories to minimise any type of glare (distracting, discomforting, disabling glare and blinding glare). Our design offices harness a range of possibilities to find the best solutions for each project and ensure that we provide a gentle light that delivers the best night-time experience.

Protect wildlife

If not well designed, artificial lighting can badly affect wildlife. Blue light and excessive intensity can have a damaging effect on all types of life. Blue light radiation has the ability to suppress the production of melatonin, the hormone that contributes to the regulation of the circadian rhythm. It can also alter the behavioural patterns of animals including bats and moths, as it can change their movements towards or away from light sources. Schréder favours warm white LEDs with minimal blue light, combined with advanced control systems including sensors. This enables permanent adaptation of the lighting to the real needs of the moment, minimising disturbance to the fauna and flora.

Get the starry sky back

The Upward Light Ratio (ULR) and Upward Light Output Ratio (ULOR), the latter taking the flux from the luminaire into account, provide information on the percentage of light emitted towards the sky. This Schréder range of luminaires minimises or eliminates (depending on the options) upward-directed light flux. It complies with strict international and local requirements.

ZYLINDO GEN2 | CHARACTERISTICS

Schréder

GENERAL INFORMATION

CE mark	Yes
UKCA marking	Yes
ENEC certified	Yes
ENEC+ certified	Yes
RCM mark	Yes
Zhaga-D4i certified	Yes

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Polycarbonate
Tightness level	IP 66
Impact resistance	IK 10
Access for maintenance	Tool-less access to gear compartment

OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +55°C / -22°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
Nominal voltage	220-240V – 50-60Hz
Surge protection options (kV)	10
Control protocol(s)	1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Socket	Zhaga (optional) NEMA 7-pin
Associated control system(s)	Schréder EXEDRA
Sensor	PIR (optional)

OPTICAL INFORMATION

LED colour temperature	2200K (Warm White WW 722) 2700K (Warm White WW 727) 3000K (Warm White WW 730) 3000K (Warm White WW 830) 4000K (Neutral White NW 740)
Colour rendering index (CRI)	>70 (Warm White WW 722) >70 (Warm White WW 727) >70 (Warm White WW 730) >80 (Warm White WW 830) >70 (Neutral White NW 740)

LIFETIME OF THE LEDS @ TQ 25°C

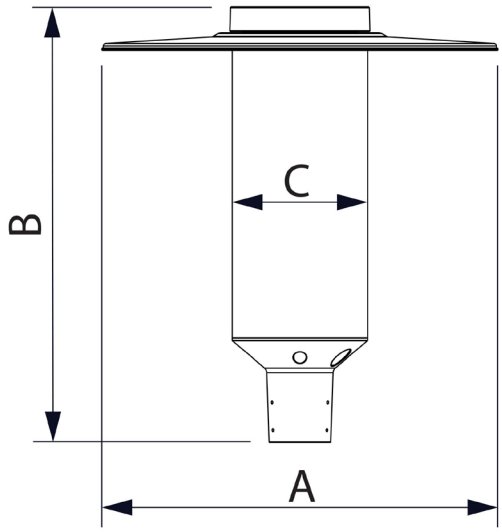
All configurations	100,000h - L95

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

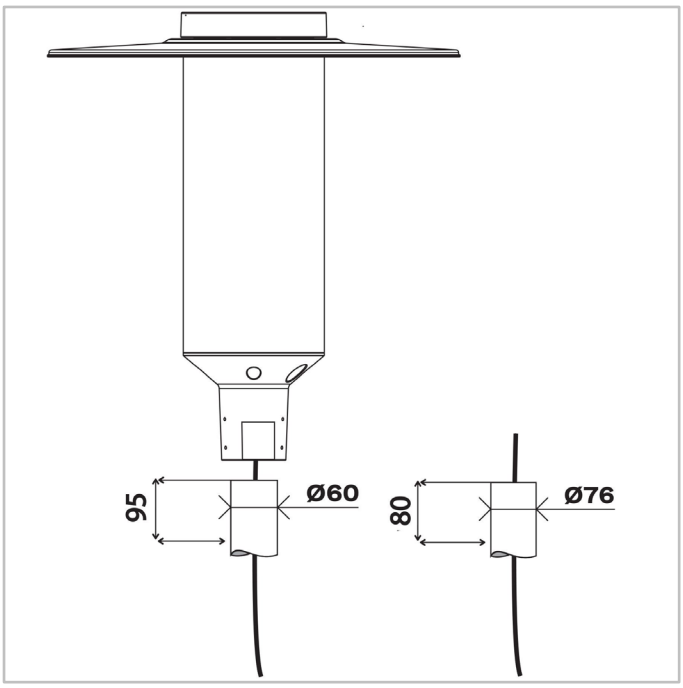
DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	644x708x220 | 25.4x27.9x8.7
Weight (kg | lbs)	6.4-7.8 | 14.0-17.1
Aerodynamic resistance (CxS)	0.24
Mounting possibilities	Post-top slip-over – Ø60mm Post-top slip-over – Ø76mm

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



ZYLINDO GEN2 | Post-top slip-over mounting on a Ø60mm (with an accessory) or Ø76mm spigot.



ZYLINDO GEN2

Photometry

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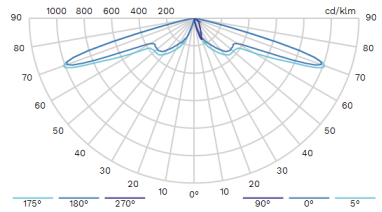
	Luminaire output flux (lm)										Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White WW 722		Warm White WW 727		Warm White WW 730		Warm White WW 830		Neutral White NW 740				
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
10	400	2300	400	2500	400	2700	400	2500	500	2900	7	23	138
20	800	3500	900	3800	900	4000	900	3800	1000	4400	13	32	145

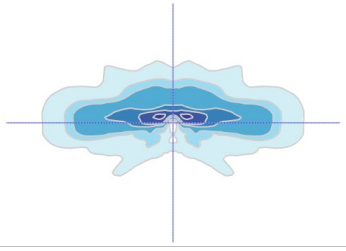
Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

LensoFlex4

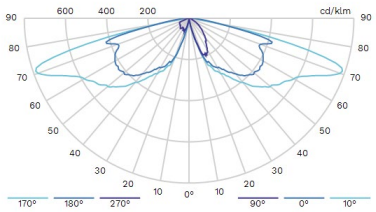
LENSO FLEX™4

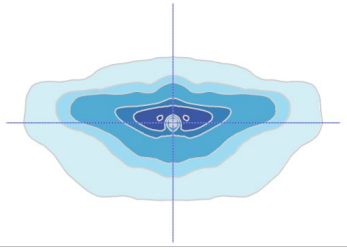
5300 Ultra-Narrow



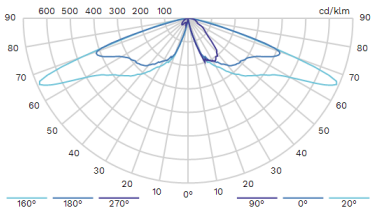


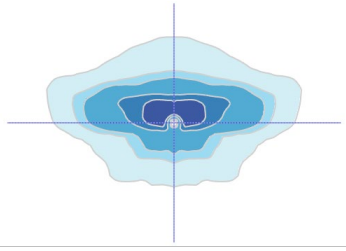
5301 Narrow





5303 Medium





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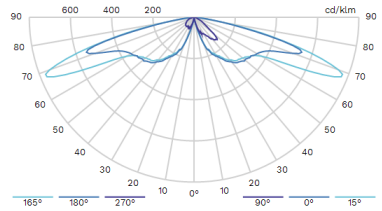

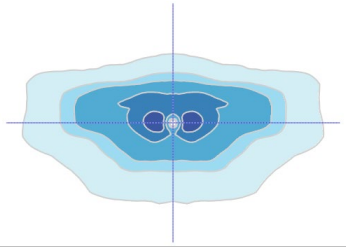

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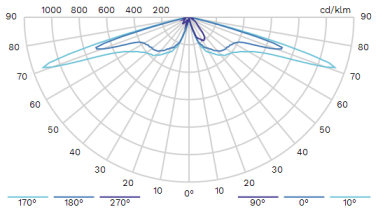

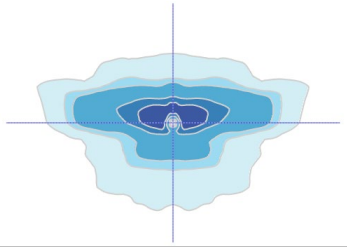

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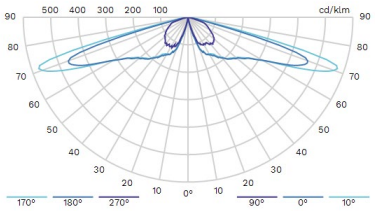
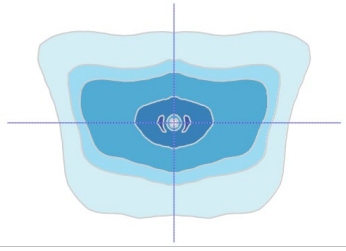
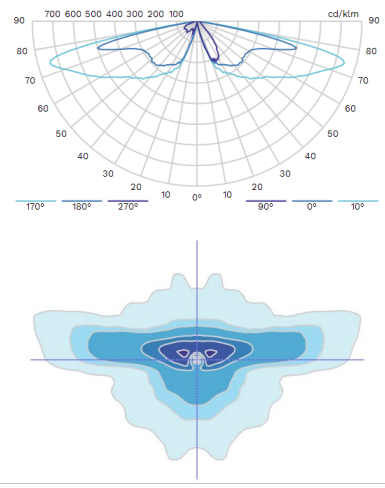




LENSO FLEX 4 5399 Medium



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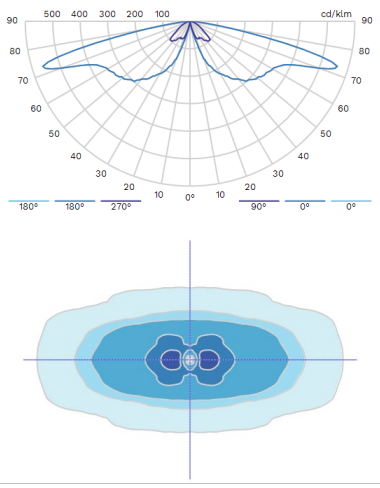

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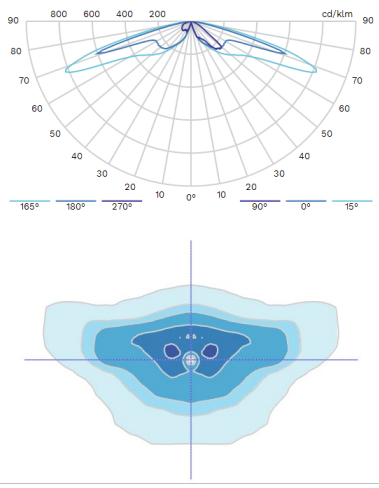

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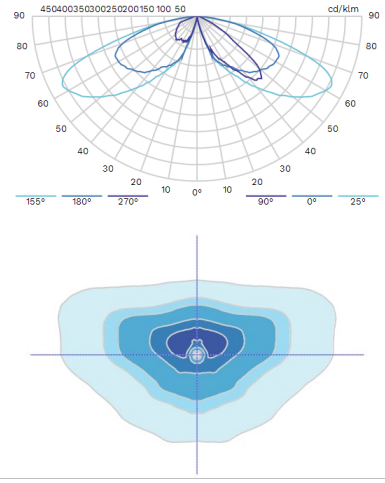

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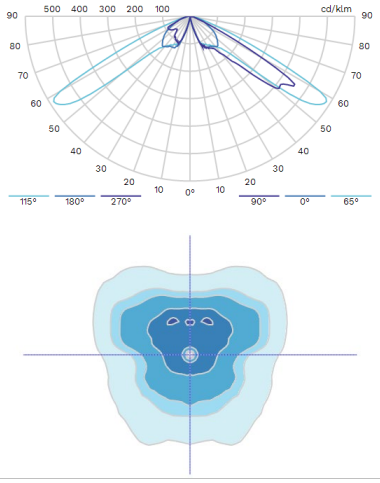
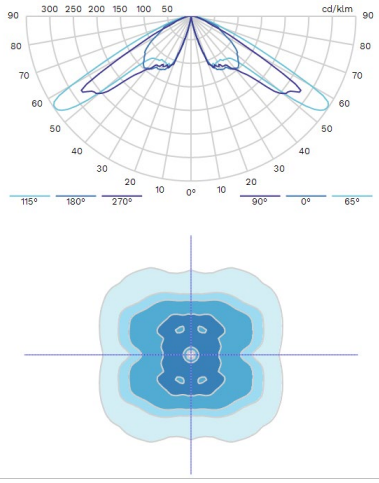
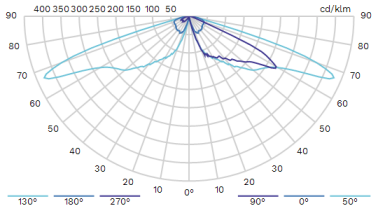


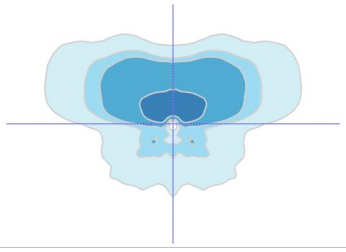
LENSO FLEX 4 50004 Extra-Wide Symmetrical



LENSO FLEX 4

5393 Ultra-Wide





LENSO FLEX 4

50008 Ultra-Wide Symmetrical