

# YMER A



Designer : AF lighting



## Aesthetic appeal, comfort and efficiency

The YMER A incorporates a refined design and state-of-the-art LED technology to provide an energy-efficient lighting solution that enhances city streets.

Perfect for roads, public squares, bike paths and other urban outdoor areas, YMER A delivers a high-quality lighting and lowers the carbon footprint for towns and cities - creating a safe and attractive environment

Scandinavian inspired, the YMER A brings elegance to cities through four distinctive versions including an illuminated dome and a decorative skirt.

The YMER A benefits from highly efficient light distributions that are compliant with stringent standards for glare control. This refined luminaire has been specifically developed to reduce disability glare and improve the quality of light.



IP 66

IK 10



CE



005  
certification



## Concept

The YMER A range combines the energy efficiency of LED technology with the photometric performance of the LensoFlex®2 and LensoFlex®3 engines developed by Schröder. Certain photometric distributions are compliant with G\*4 class requirements to restrict glare and discomfort. YMER A can lower the threshold increment (TI) to less than 6%, ensuring glare free environments.

The YMER A luminaire is composed of an aluminium body sealed with a glass protector. Its accessories include an illuminated dome in diffuse polycarbonate with a high-power LED and a decorative skirt that reduces glare. It is a complete range of luminaires with four different designs for a distinctive identity. A flux enhancer is available as an option.

The luminaire is delivered with a universal slip-over 60mm fixation piece for both side-entry and post-top (with an aluminium adapter) mounting. An optional side-entry penetrating fixation piece for a 60mm diameter tube is available to complement the range of installation possibilities.

YMER A is supplied pre-wired to facilitate installation as there is no need to open the luminaire. As an option, the luminaire can be delivered with quick-on IP 68 connectors to accelerate the wiring process.

YMER A also integrates patented technologies such as the IzyHub compact connection and connectivity module for quick, tool-free and error-proof wiring.

This connected-ready luminaire is compatible with standard NEMA 7-pin or Zhaga socket, enabling easy entry to the digital era of lighting while ensuring compatibility with advanced lighting features that plan, monitor and control outdoor lighting networks.



YMER A includes an universal Ø60mm slip-over fixation piece.



YMER A is compatible with standard NEMA 7-pin or Zhaga socket.

## TYPES OF APPLICATION

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

## KEY ADVANTAGES

- Elegant and robust design with four aesthetic versions
- State-of-the-art LED technology for low energy consumption
- Broad range of lighting distributions
- High visual comfort: glare up to G\*4 class, TI <6%
- Designed for side-entry and post-top mounting (depending on accessory)
- Supplied pre-wired to facilitate installation (optional quick-on connectors)
- Connected-ready for your future Smart city requirements
- Based on open and interoperable standards
- Compatible with the Schröder EXEDRA control platform



YMER A is available with an illuminated dome (high-power LED) and a decorative skirt.



As an option to increase the lumen output, a flux enhancer can be placed around the LEDs.

YMER | basic



YMER | dome



YMER | skirt



YMER | dome+skirt





## LensoFlex®2

LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light distribution.



## LensoFlex®3

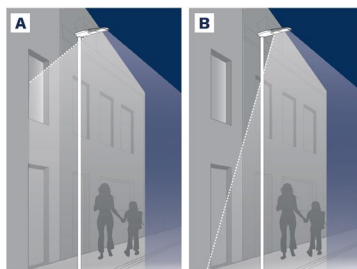
LensoFlex®3 uses lenses made of mouldable and optical-grade silicon offering superior transparency and excellent photothermal stability. This withstands high driving currents and delivers maximised lumen output over time. As silicon offers a higher thermal resistance compared to PMMA, temperature is not as critical for LensoFlex®3 engines. This offers two distinct advantages; LensoFlex®3 ensures enhanced performance in warm climates and enables a high driving current to be used to increase the lumen output and a higher lm/kg ratio. It also does not suffer from yellowing over time.



## 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.



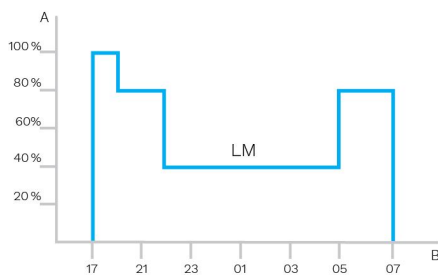
A. Without Back Light control | B. With Back Light control



## 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.

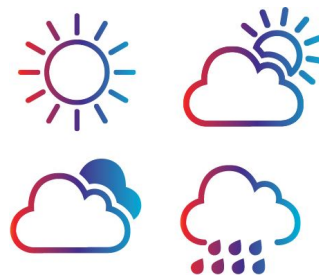


A. Dimming level | B. Time



## 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.

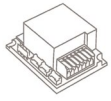


## PIR sensor: motion detection

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

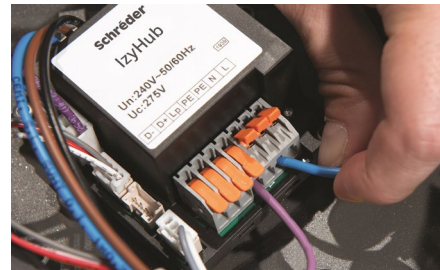
IzyHub features a built-in surge protection device. This prevents electrical surges resulting from lightning strikes and other transient voltages that originate from the mains network from damaging the luminaire, even in the most demanding conditions. The protective device also includes an end-of-life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





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
Driver included	Yes
CE mark	Yes
ENEC+ certified	Yes
ROHS compliant	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
BE 005 certified	Yes
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

## HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA Silicon
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 10
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	By loosening screws on the bottom cover

· Any other RAL or AKZO colour upon request

## OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +40°C / -22°F up to 104°F with wind effect
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· Depending on the luminaire configuration. For more details, please contact us.

## ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	4 10
Electromagnetic compatibility (EMC)	EN 61547 / EN 61000-4-2, -3, -4, -5, -6, -8, -11
Control protocol(s)	1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Photocell, Remote management
Socket	Zhaga (optional) NEMA 7-pin (optional)
Associated control system(s)	Schröder EXEDRA
Sensor	PIR (optional)

## OPTICAL INFORMATION

LED colour temperature	2200K (WW 822) 2700K (WW 727) 3000K (WW 730) 3000K (WW 830) 4000K (NW 740)
Colour rendering index (CRI)	>80 (WW 822) >70 (WW 727) >70 (WW 730) >80 (WW 830) >70 (NW 740)
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.

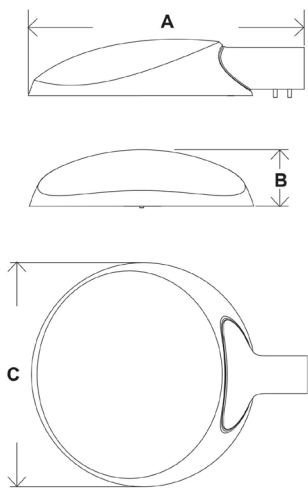
## LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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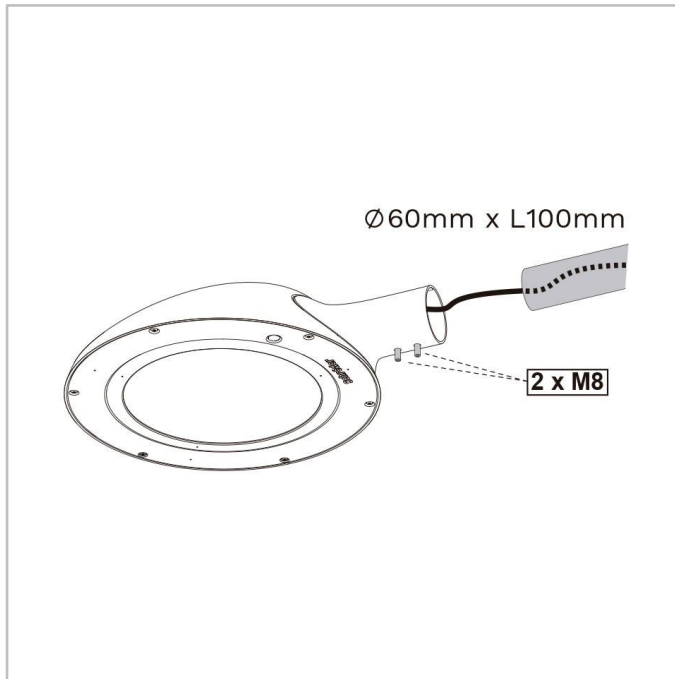


DIMENSIONS AND MOUNTING

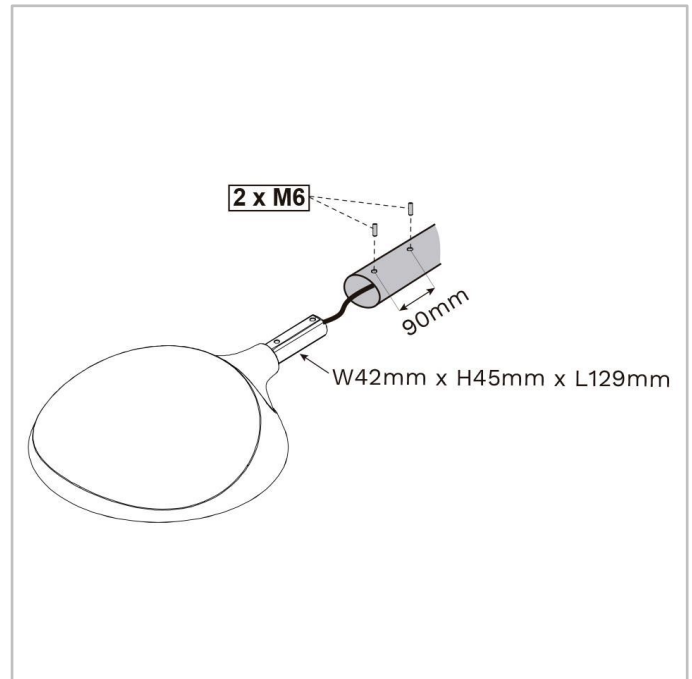
AxBxC (mm   inch)	568x116x462   22.4x4.6x18.2
Weight (kg   lbs)	8   17.6
Aerodynamic resistance (CxS)	0.02
Mounting possibilities	Side-entry slip-over – Ø60mm Side-entry penetrating – Ø60mm Post-top slip-over – Ø60mm



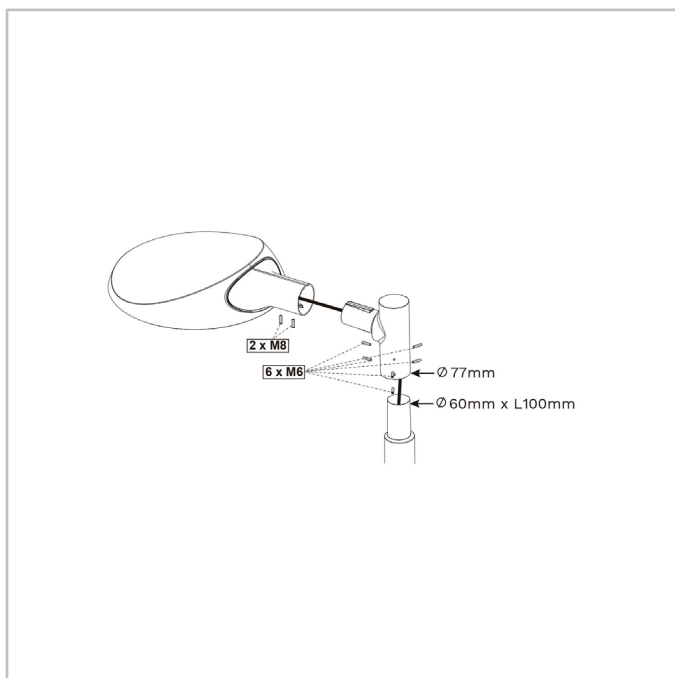
YMER A | Side-entry mounting Ø60 mm - 2xM8 screws



YMER A | Penetrating fixation Ø42 mm



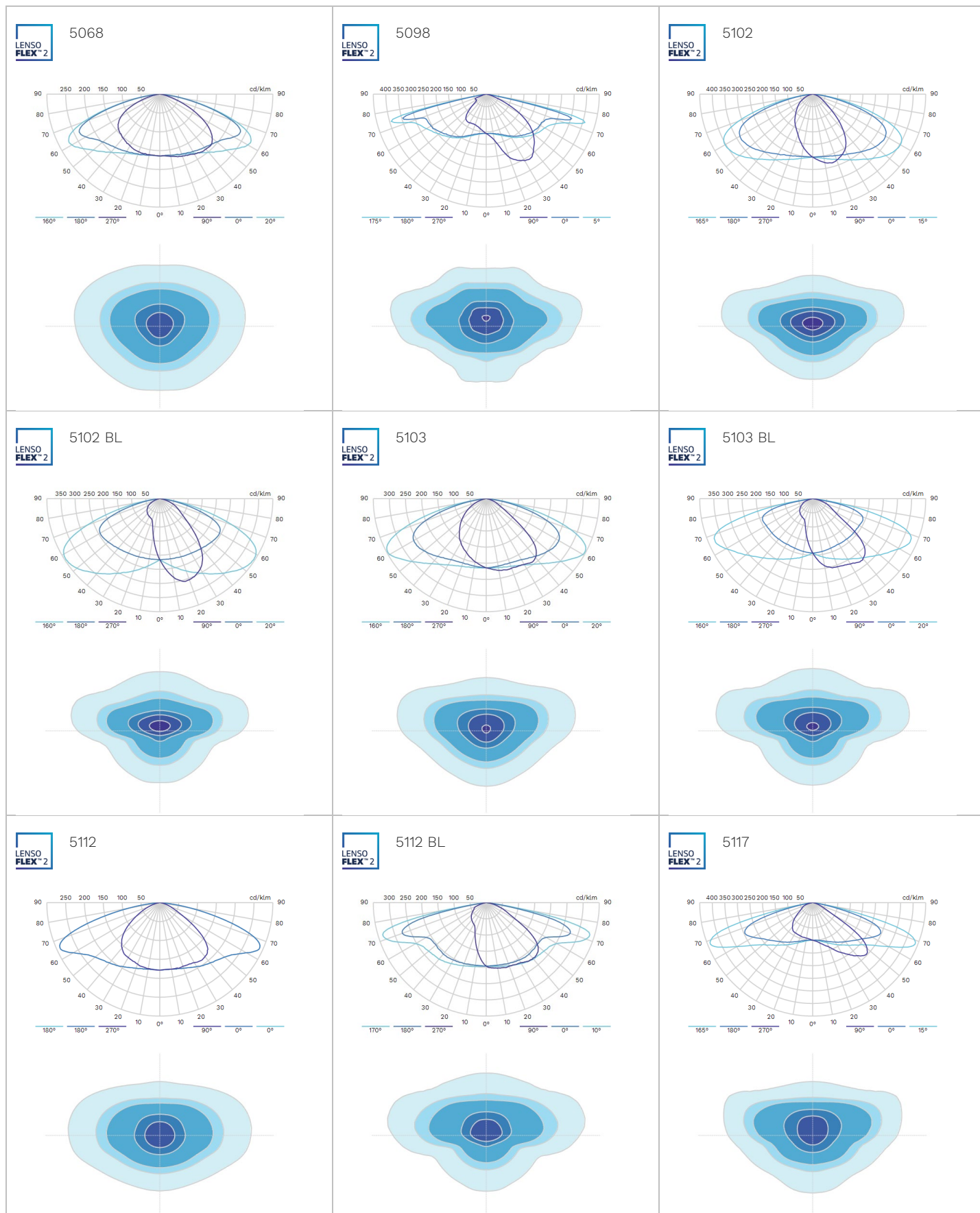
YMER A | Post-top adaptor for a vertical mounting on a Ø76 mm pole

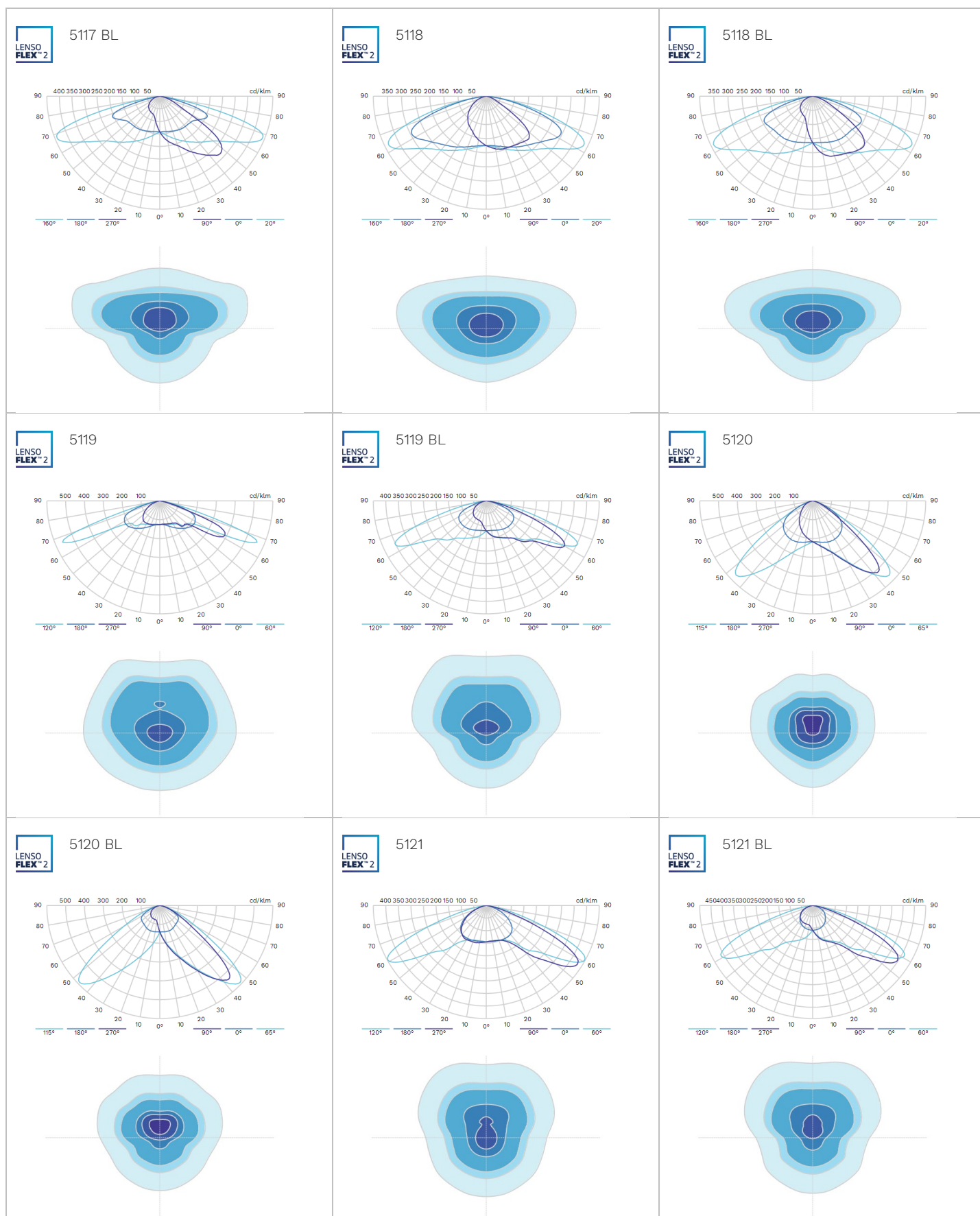


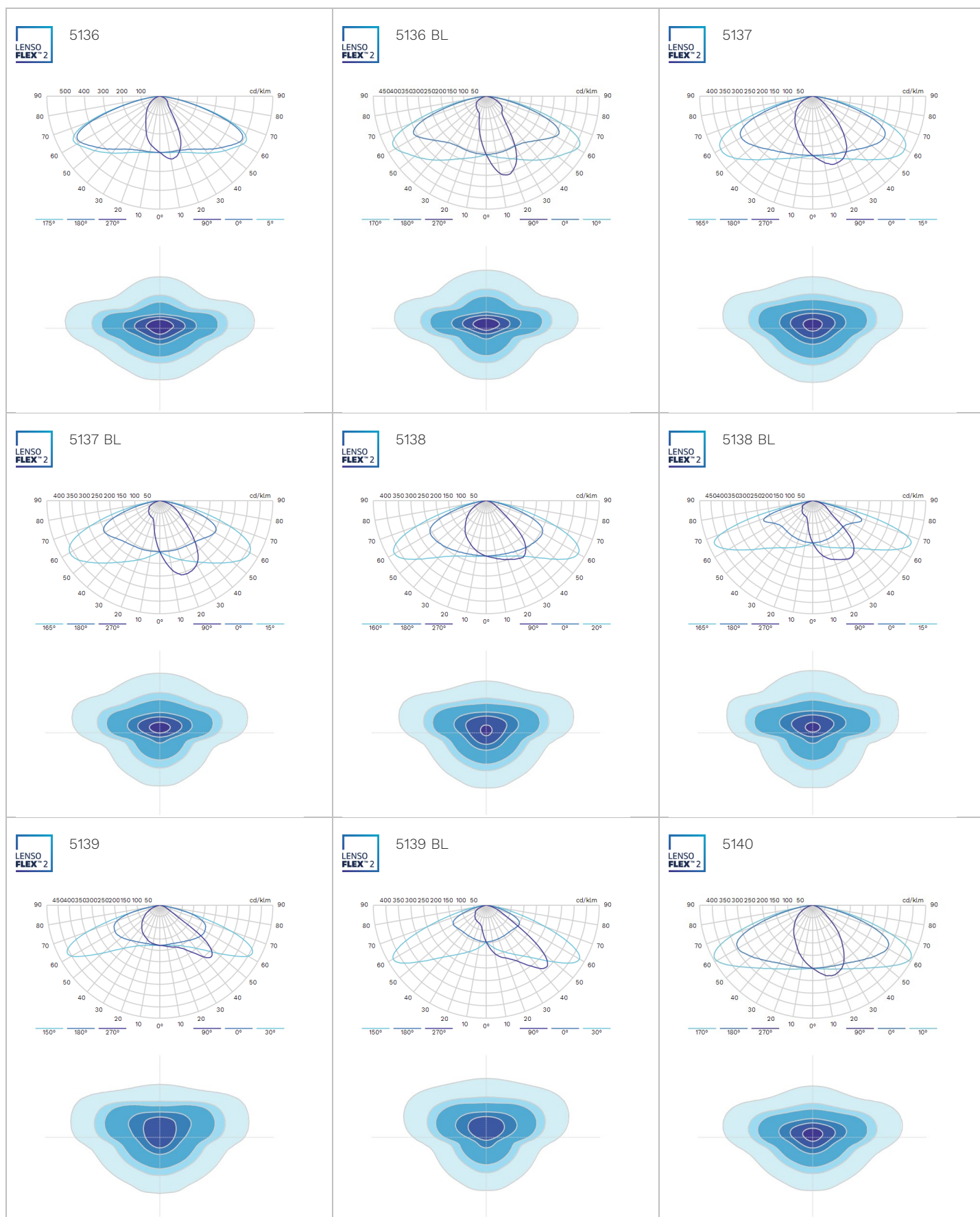


Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Warm White 727		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 822		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)	Luminaire efficacy (lm/W)	Photometry
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
YMER A	16	350	1700	2100	1900	2400	1300	1700	1700	2100	1900	2500	18.1	138	
	16	400	1900	2400	2100	2700	1500	1900	1900	2400	2200	2800	20.6	136	
	16	500	2300	2900	2600	3300	1800	2300	2300	2900	2700	3400	25.8	132	
	16	600	2700	3400	3000	3800	2100	2700	2700	3400	3100	3900	31	126	
	16	700	3000	3800	3400	4300	2400	3000	3000	3800	3500	4400	35.9	123	
	24	350	2500	3200	2800	3600	2000	2600	2500	3200	2900	3700	26.6	139	
	24	400	2900	3600	3200	4100	2300	2900	2900	3600	3300	4200	30.4	138	
	24	500	3500	4400	3900	4900	2700	3500	3500	4400	4000	5100	38.1	134	
	24	590	4000	5100	4400	5600	3100	4000	4000	5100	4600	5800	44.5	130	
	24	600	4000	5100	4500	5700	3200	4100	4000	5100	4700	5900	45	131	
	24	700	4600	5800	5100	6500	3600	4600	4600	5800	5300	6700	53	126	
	32	350	3400	4300	3800	4800	2700	3400	3400	4300	3900	5000	34.6	145	
	32	400	3800	4900	4300	5400	3000	3900	3800	4900	4400	5600	39.5	142	
	32	430	4100	5200	4600	5800	3200	4100	4100	5200	4700	6000	42.5	141	
	32	500	4600	5900	5200	6600	3700	4700	4600	5900	5400	6800	49	139	
	32	600	5400	6900	6000	7600	4300	5400	5400	6900	6200	7900	59.5	133	
	32	700	6100	7700	6800	8600	4800	6100	6100	7700	7000	8900	69.5	128	
	48	350	5100	6500	5700	7300	4100	5200	5100	6500	5900	7500	51.5	146	
	48	400	5800	7300	6400	8200	4600	5800	5800	7300	6700	8500	58.5	145	
	48	500	7000	8900	7800	9900	5500	7000	7000	8900	8100	10200	74	138	
	48	550	7600	9600	8400	10700	6000	7600	7600	9600	8700	11100	80	139	
	48	600	8100	10300	9100	11500	6400	8200	8100	10300	9400	11900	89	134	
	48	700	9200	11600	10200	13000	7300	9200	9200	11600	10600	13400	104	129	

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



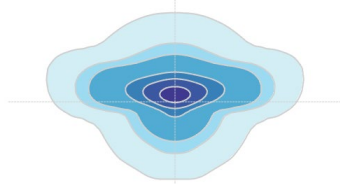
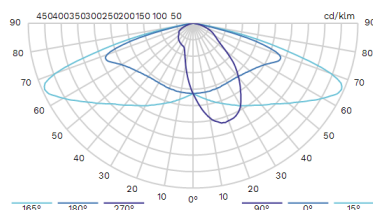






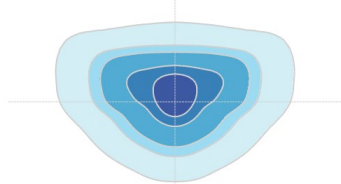
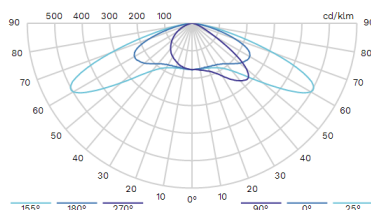
LENSO  
FLEX<sup>2</sup>

5140 BL



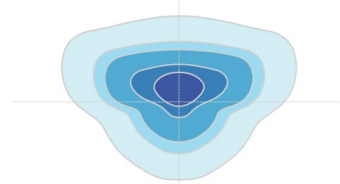
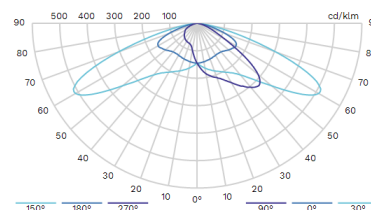
LENSO  
FLEX<sup>2</sup>

5141



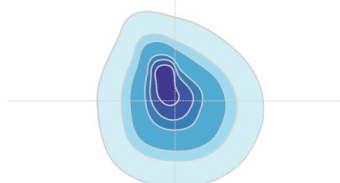
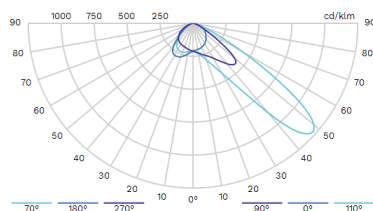
LENSO  
FLEX<sup>2</sup>

5141 BL



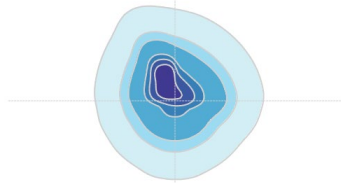
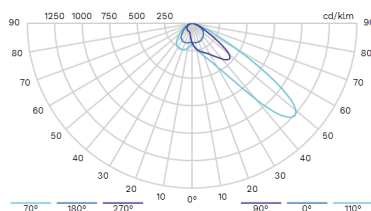
LENSO  
FLEX<sup>2</sup>

5144 ZL



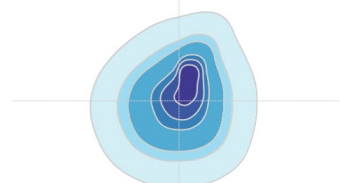
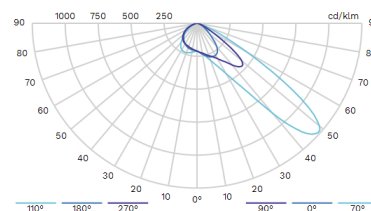
LENSO  
FLEX<sup>2</sup>

5144 ZL BL



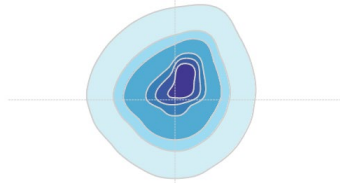
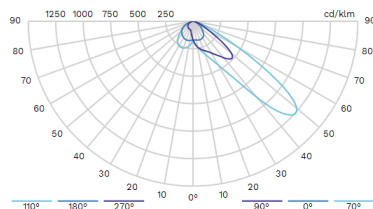
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5145 ZR



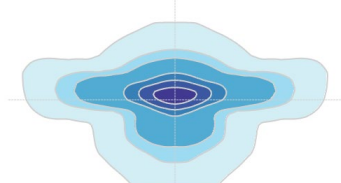
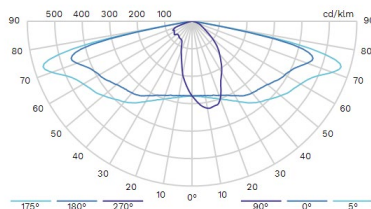
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5145 ZR BL



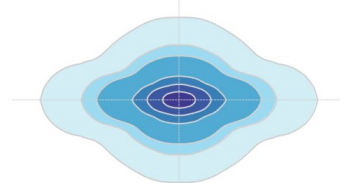
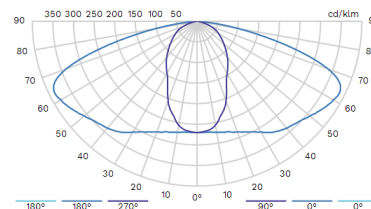
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5244

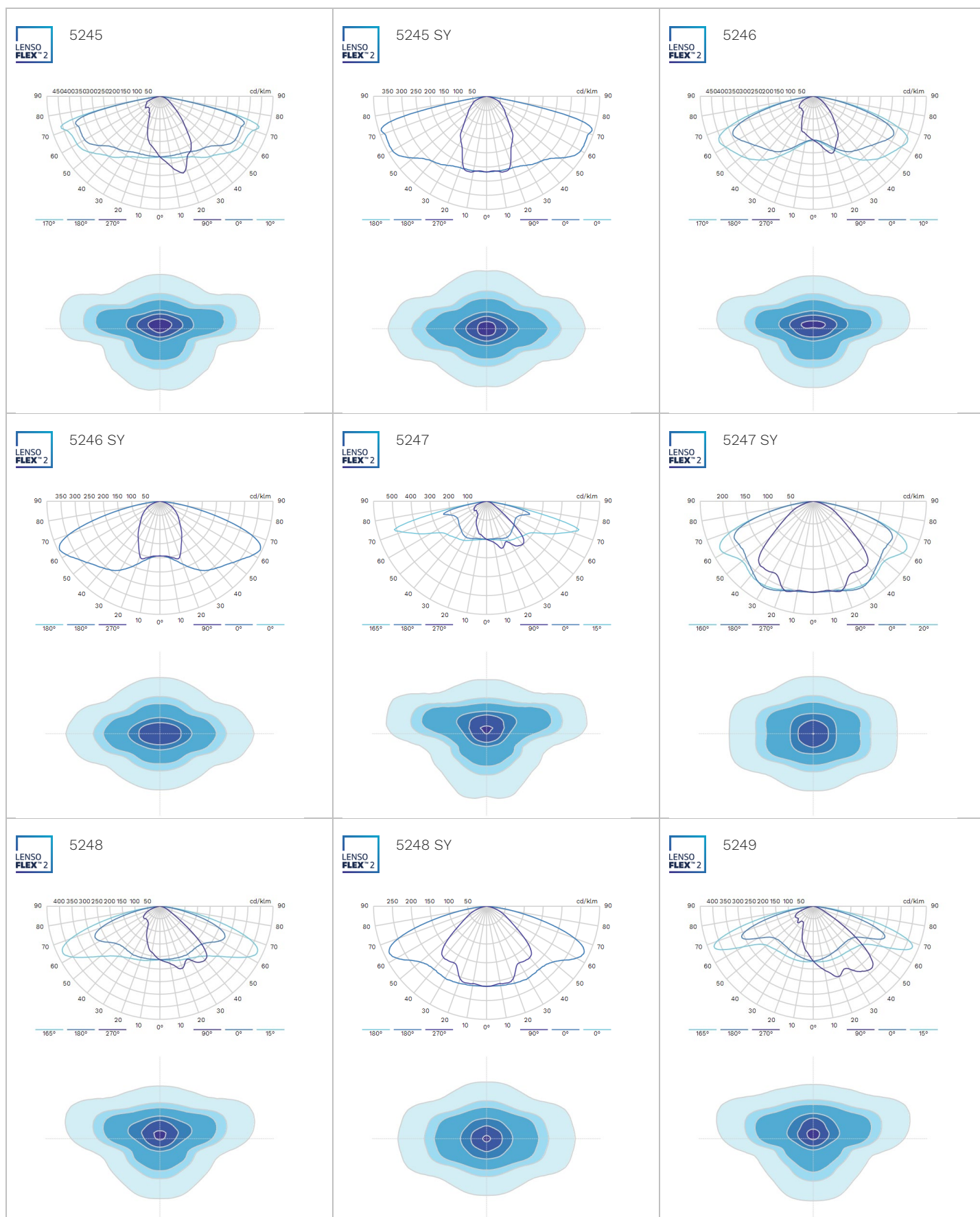


LENSO  
FLEX<sup>2</sup>

5244 SY

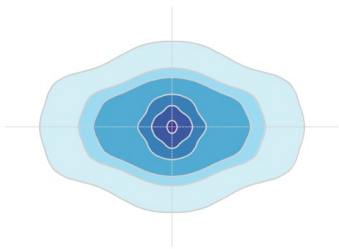
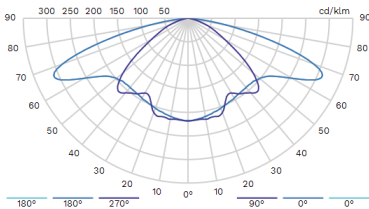






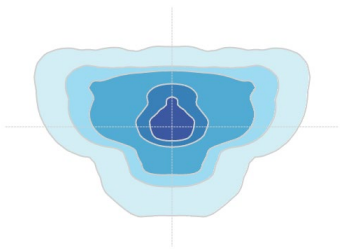
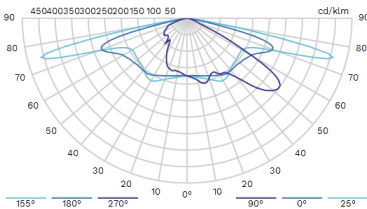
LENSO  
FLEX<sup>2</sup>

5249 SY



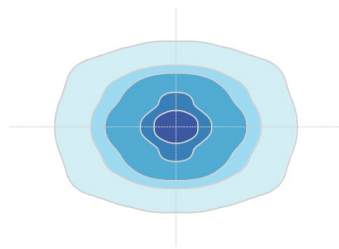
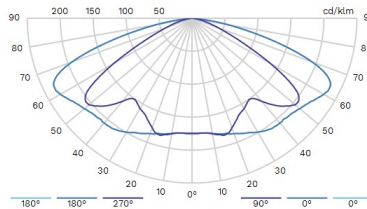
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FLEX<sup>2</sup>

5250



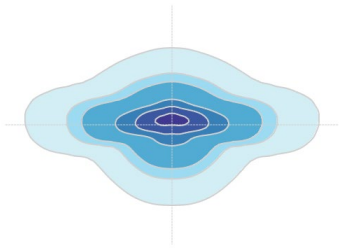
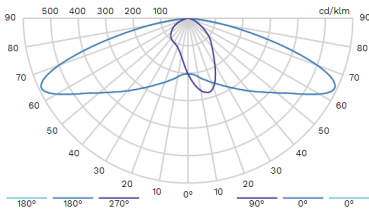
LENSO  
FLEX<sup>2</sup>

5250 SY



LENSO  
FLEX<sup>2</sup>

5283



LENSO  
FLEX<sup>2</sup>

5283 SY

