

Citea NG

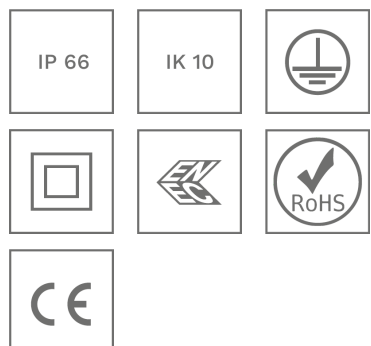


New generation. New lighting levels. New features.

Completely redeveloped, the only feature that the Citea New Generation (NG) shares with its predecessor, is the pure design that easily blends into all types of rural and urban environments.

Thanks to a new mechanical design, the long life span of the LEDs is guaranteed and performance is assured over time.

The Citea NG is equipped with second generation LensoFlex®2 photometric engines that have been specifically developed to light various spaces where the safety and well-being of the people using the environment are essential.



Concept

Citea NG has been designed to incorporate the latest generation of LEDs and optics. The mechanical design was carefully thought-out to separate the LED module and the driver compartment to optimise thermal management.

Citea NG is composed of a high-pressure, die-cast aluminium body and a glass protector.

Citea NG is available in two sizes: Mini and Midi. Mini, which can incorporate 8 to 48 LEDs is ideal for lighting residential streets, urban roads and car parks while the Midi which can integrate from 16 to 96 LEDs is perfect for main roads, avenues and squares. With suspended or side-entry mounting options, it can be installed on various brackets (single, double, wall) and columns for a perfect integration into the landscape.



Citea NG is available in two sizes: Mini and Midi.



Citea NG benefits from a range of mounting options and brackets.

Types of application

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

Key advantages

- Timeless and elegant design for rural and urban environments
- Two sizes available: Mini and Midi
- Protector in extra-clear tempered glass for high-performance
- Wide range of mounting options and brackets
- Low energy consumption
- LensoFlex®2 photometric engine with photometry adapted to various applications
- ThermiX® for long lasting performance
- FutureProof: easy replacement of photometric engine and power supply on-site
- Designed to incorporate the Owlet range of control solutions



Citea NG takes advantage of the proven LensoFlex®2 photometric engines.



Designed to incorporate the Owlet range of control solutions.



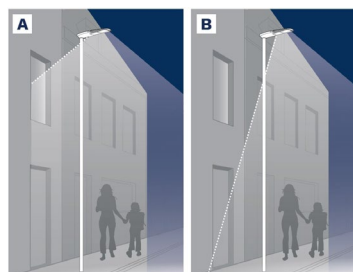
LensoFlex®2

LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.



Back Light control

As an option, the LensoFlex®2 modules can be equipped with a Back Light control system. This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.

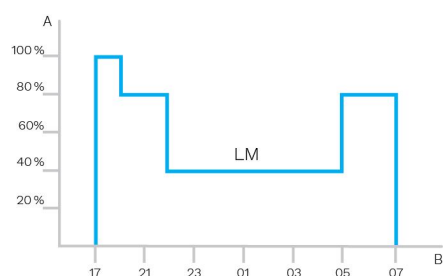


A. Without Back Light control | B. With Back Light control



Custom dimming profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. Up to five combinations of time intervals and light levels are possible. This feature does not require any extra wiring. The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.

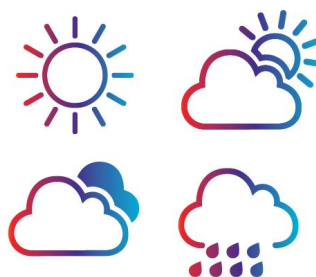


A. Performance | B. Time



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 night fall 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.



Owlet IoT

Owlet IoT remotely controls luminaires in a lighting network, creating opportunities for improved efficiency, accurate real-time data and energy savings of up to 85%.



ALL-IN-ONE

The LUCO P7 CM controller includes the most advanced features for optimised asset management. It also provides an integrated photocell and operates with an astronomical clock for seasonal dimming profile adaptations.

EASY TO DEPLOY

Thanks to wireless communication, no cabling is needed. The network is not subject to physical constraints or limitations. From a single control unit to an unlimited network, you can expand your lighting scheme at any time.

With real-time geolocation and automatic detection of luminaire features, commissioning is quick and easy.

USER-FRIENDLY

Once a controller is installed on a luminaire, the luminaire automatically appears with its GPS coordinates on a web-based map.

An easy-to-use dashboard enables each user to organise and customise screens, statistics and reports. Users can gain relevant, real-time insights.

The Owlet IoT web application can be accessed at all times from anywhere in the world with a device connected to the Internet. The application adapts to the device to offer an intuitive and user-friendly experience.

Real-time notifications can be pre-programmed to monitor the most important elements of the lighting scheme.



Plugging the LUCO P7 CM controller onto the 7-pin NEMA socket.

SECURE

The Owlet IoT system uses a local wireless mesh communication networks to control the on-site luminaires combined with a remote control system utilising the cloud to ensure smooth data transfers to and from the central management system.

The system uses encrypted IP V6 communication to protect data transmission in both directions. Using a secure APN, Owlet IoT ensures a high level of protection.

In the exceptional case of a communication failure, the built-in astronomical clock and photocell will take over to switch the luminaires on and off, thus avoiding a complete blackout at night.

EFFICIENT

Thanks to sensors and/or pre-programmed settings, lighting scenarios can be easily adapted to cope with live events, providing the right lighting levels at the right time and in the right place.

The integrated utility grade meter offers the highest accuracy available on the market today, enabling decisions based on real figures.

Accurate real-time feedback and clear reporting ensures that the network operates efficiently and maintenance is optimised.

When LED luminaires are switched on, the inrush current can create problems for the electricity grid. Owlet IoT incorporates an algorithm to preserve the grid at all times.

OPEN

The LUCO P7 CM controller can be plugged onto the standard 7 pin NEMA socket and operates through either a DALI or 1-10V interface to control the luminaire.

Owlet IoT is based on the IPv6 protocol. This method for addressing devices can generate an almost unlimited number of unique combinations to connect non-traditional components to the Internet or computer network.

Through open APIs, Owlet IoT can be integrated into existing or future global management systems.

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
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass Frosted 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)

· Any other RAL or AKZO colour upon request

OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +55 °C / -22 ° F up to 131 °F
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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)	10
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 option(s)	NEMA 7-pin (optional)
Associated control system(s)	Sirius BLE Owlet Nightshift Owlet IoT
Sensor	PIR (optional)

OPTICAL INFORMATION

LED colour temperature	2700K (Warm White) 3000K (Warm White) 4000K (Neutral White)
Colour rendering index (CRI)	>70 (Warm White) >80 (Warm White) >70 (Neutral White)
Upward Light Output Ratio (ULOR)	0%

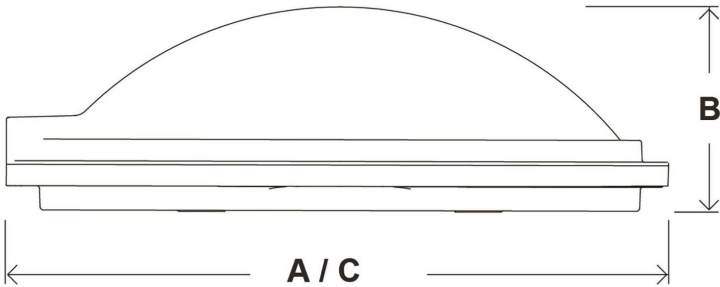
LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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DIMENSIONS AND MOUNTING

AxBxC (mm inch)	CITEA NG MINI - 500x160x500 19.7x6.3x19.7
	CITEA NG MIDI - 595x185x595 23.4x7.3x23.4
Weight (kg lbs)	CITEA NG MINI - 12 26.4
	CITEA NG MIDI - 15 33.0
Aerodynamic resistance (CxS)	CITEA NG MINI - 0.06
	CITEA NG MIDI - 0.08
Mounting possibilities	Side-entry slip-over – Ø60mm
	Side-entry penetrating – Ø60mm
	Post-top slip-over – Ø60mm
	Suspended 1" gas male
	Suspended 1" gas female
	Catenary

· Various dedicated swiveling and direct mountings. Please consult the installation sheet.





			Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Warm White 727		Power consumption (W)	Luminaire efficacy (lm/W)	
	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry
CITEA NG MINI	8	300	800	1000	800	1000	600	900	700	900	8.7	126	
	8	400	1000	1300	1000	1300	800	1100	900	1200	11.1	126	
	8	500	1200	1600	1200	1600	1000	1400	1100	1400	13.7	124	
	8	600	1400	1900	1400	1900	1200	1600	1300	1700	16.6	120	
	8	700	1600	2100	1600	2100	1400	1800	1400	1900	19.4	113	
	8	800	1800	2400	1800	2400	1500	2000	1600	2100	22.2	113	
	8	940	2000	2700	2000	2700	1700	2300	1800	2400	25.7	109	
	16	200	1100	1400	1100	1400	900	1200	900	1300	11	136	
	16	300	1600	2100	1600	2100	1300	1800	1400	1900	15.8	139	
	16	400	2000	2700	2000	2700	1700	2300	1800	2400	20.8	135	
	16	500	2500	3300	2500	3300	2100	2800	2200	2900	25.9	131	
	16	600	2700	3800	2700	3800	2300	3200	2400	3400	31.1	125	
	16	700	3300	4300	3300	4300	2800	3700	2900	3900	36.4	124	
	16	850	3800	5000	3800	5000	3200	4300	3400	4500	44.5	119	
	24	200	1600	2200	1600	2200	1400	1800	1400	1900	15.4	149	
	24	300	2400	3100	2400	3100	2000	2700	2100	2800	22.5	147	
	24	400	3100	4100	3100	4100	2600	3400	2700	3700	29.9	144	
	24	590	4300	5700	4300	5700	3600	4800	3800	5100	44.5	135	
	24	600	4300	5800	4300	5800	3700	4900	3900	5200	45.5	132	
	24	700	4900	6500	4900	6500	4200	5500	4400	5900	53.5	127	
	24	800	5500	7300	5500	7300	4600	6100	4900	6500	61.5	124	
	24	900	6000	7900	6000	7900	5000	6700	5400	7100	69.5	119	

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



			Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Warm White 727		Power consumption (W)	Luminaire efficacy (lm/W)	
	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry
CITEA NG MINI	24	1000	6400	8500	6400	8500	5400	7200	5800	7700	78	114	
	32	200	2200	2900	2200	2900	1800	2400	1900	2600	20	150	
	32	300	3200	4200	3200	4200	2700	3600	2800	3800	29.6	149	
	32	450	4500	6000	4500	6000	3800	5100	4100	5400	45.5	138	
	32	500	5000	6600	5000	6600	4200	5600	4500	5900	50	138	
	32	600	5800	7700	5800	7700	4900	6500	5200	6900	60	135	
	32	700	6600	8700	6600	8700	5600	7400	5900	7800	70	130	
	32	800	7300	9700	7300	9700	6200	8200	6600	8700	80	126	
	40	200	2700	3600	2700	3600	2300	3100	2400	3300	24.5	155	
	40	350	4600	6100	4600	6100	3900	5100	4100	5400	42.5	148	
	40	400	5100	6800	5100	6800	4300	5800	4600	6100	48.5	146	
	40	500	6200	8300	6200	8300	5300	7000	5600	7400	61	143	
	40	600	7300	9700	7300	9700	6200	8200	6500	8700	73	138	
	40	700	8200	10900	8200	10900	7000	9300	7400	9800	85	134	
	48	200	3300	4400	3300	4400	2800	3700	2900	3900	28.9	159	
	48	300	4800	6300	4800	6300	4000	5400	4300	5700	43	153	
	48	400	6200	8200	6200	8200	5200	6900	5500	7400	57.5	150	
	48	550	8100	10800	8100	10800	6900	9100	7300	9700	80	141	
	48	600	8700	11600	8700	11600	7400	9800	7800	10400	86	141	
	48	700	9900	13100	9900	13100	8400	11100	8900	11800	101	136	
	48	800	11000	14600	11000	14600	9300	12300	9900	13100	116	131	

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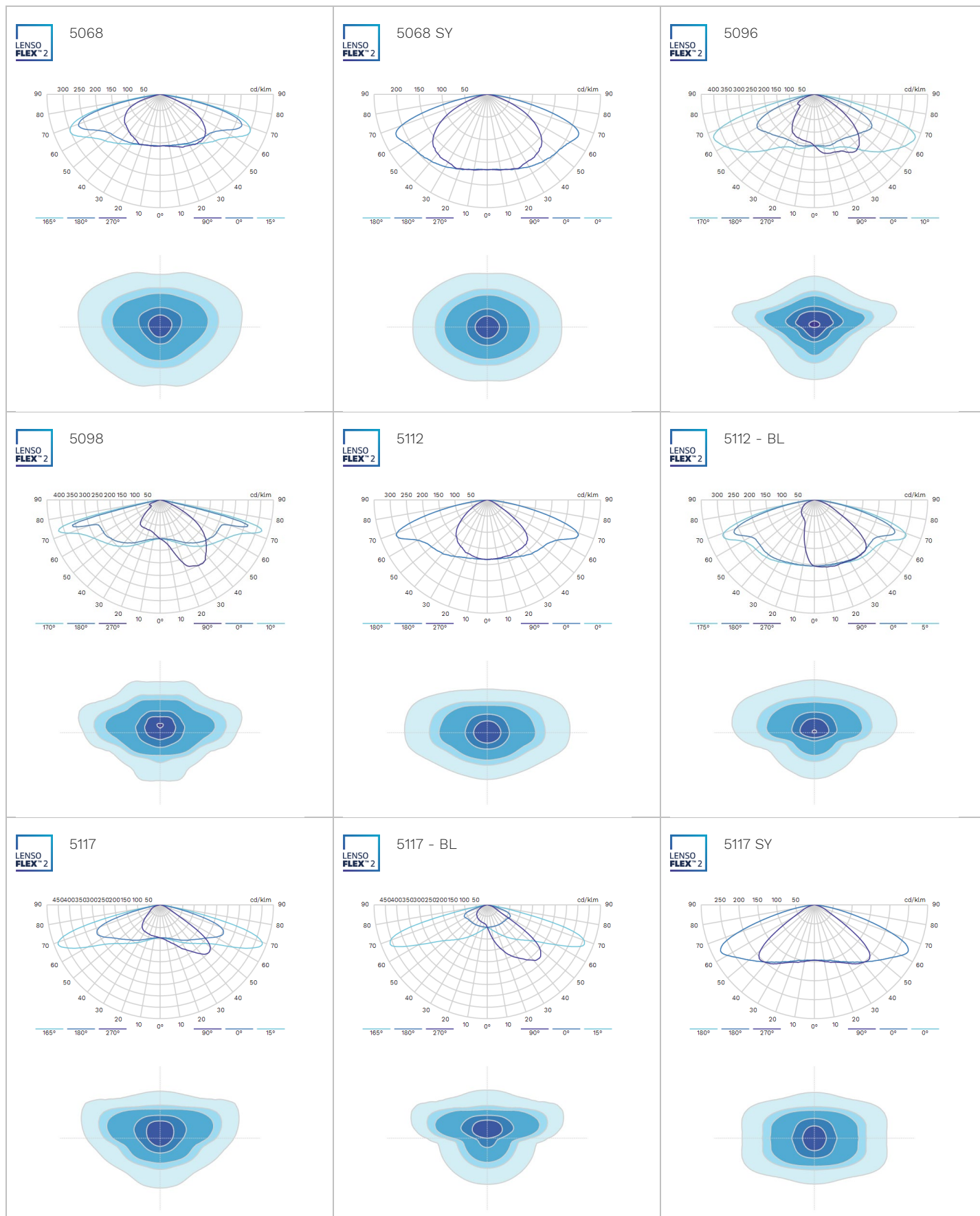
			Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 830		Luminaire output flux (lm) Warm White 727		Power consumption (W)	Luminaire efficacy (lm/W)	
	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry
CITEA NG MIDI	16	200	1100	1400	1100	1400	900	1200	1000	1300	11	136	LENZO FLEX ²
	16	300	1600	2100	1600	2100	1300	1700	1400	1900	15.8	139	LENZO FLEX ²
	16	400	2000	2700	2000	2700	1700	2300	1800	2400	20.8	135	LENZO FLEX ²
	16	500	2400	3200	2400	3200	2100	2700	2200	2900	25.9	131	LENZO FLEX ²
	16	600	2900	3800	2900	3800	2400	3200	2600	3400	31.1	129	LENZO FLEX ²
	16	700	3200	4300	3200	4300	2700	3600	2900	3900	36.4	124	LENZO FLEX ²
	16	850	3700	4900	3700	4900	3100	4100	3300	4400	44.5	115	LENZO FLEX ²
	24	200	1600	2200	1600	2200	1400	1800	1500	2000	15.4	149	LENZO FLEX ²
	24	300	2400	3100	2400	3100	2000	2600	2100	2800	22.5	147	LENZO FLEX ²
	24	400	3000	4000	3000	4000	2600	3400	2700	3600	29.9	140	LENZO FLEX ²
	24	590	4200	5600	4200	5600	3600	4800	3800	5000	44.5	133	LENZO FLEX ²
	24	600	4300	5700	4300	5700	3600	4800	3900	5100	45.5	132	LENZO FLEX ²
	24	700	4900	6500	4900	6500	4100	5500	4400	5800	53.5	127	LENZO FLEX ²
	24	800	5400	7200	5400	7200	4600	6100	4900	6400	61.5	122	LENZO FLEX ²
	24	900	5900	7900	5900	7900	5000	6700	5300	7100	69.5	118	LENZO FLEX ²
	24	1000	6400	8500	6400	8500	5400	7200	5800	7600	78	114	LENZO FLEX ²
	32	200	2200	2900	2200	2900	1900	2500	2000	2600	20	155	LENZO FLEX ²
	32	300	3200	4200	3200	4200	2700	3500	2800	3800	29.6	149	LENZO FLEX ²
	32	450	4500	6000	4500	6000	3800	5100	4000	5400	45.5	136	LENZO FLEX ²
	32	500	4900	6500	4900	6500	4200	5500	4400	5900	50	136	LENZO FLEX ²
	32	600	5800	7600	5800	7600	4900	6400	5200	6800	60	133	LENZO FLEX ²
	32	700	6500	8600	6500	8600	5500	7300	5900	7800	70	129	LENZO FLEX ²
	32	800	7300	9600	7300	9600	6100	8100	6500	8600	80	125	LENZO FLEX ²
	40	200	2800	3700	2800	3700	2300	3100	2500	3300	24.5	155	LENZO FLEX ²
	40	350	4500	6000	4500	6000	3800	5100	4100	5400	42.5	148	LENZO FLEX ²
	40	400	5100	6800	5100	6800	4300	5700	4600	6100	48.5	146	LENZO FLEX ²
	40	500	6200	8200	6200	8200	5200	6900	5600	7400	61	141	LENZO FLEX ²
	40	600	7200	9500	7200	9500	6100	8100	6500	8600	73	137	LENZO FLEX ²
	40	700	8200	10800	8200	10800	6900	9200	7300	9700	85	133	LENZO FLEX ²
	48	200	3300	4400	3300	4400	2800	3700	3000	4000	28.9	159	LENZO FLEX ²
	48	300	4800	6300	4800	6300	4000	5300	4300	5700	43	153	LENZO FLEX ²
	48	400	6100	8100	6100	8100	5200	6900	5500	7300	57.5	148	LENZO FLEX ²
	48	550	8000	10600	8000	10600	6800	9000	7200	9600	80	139	LENZO FLEX ²

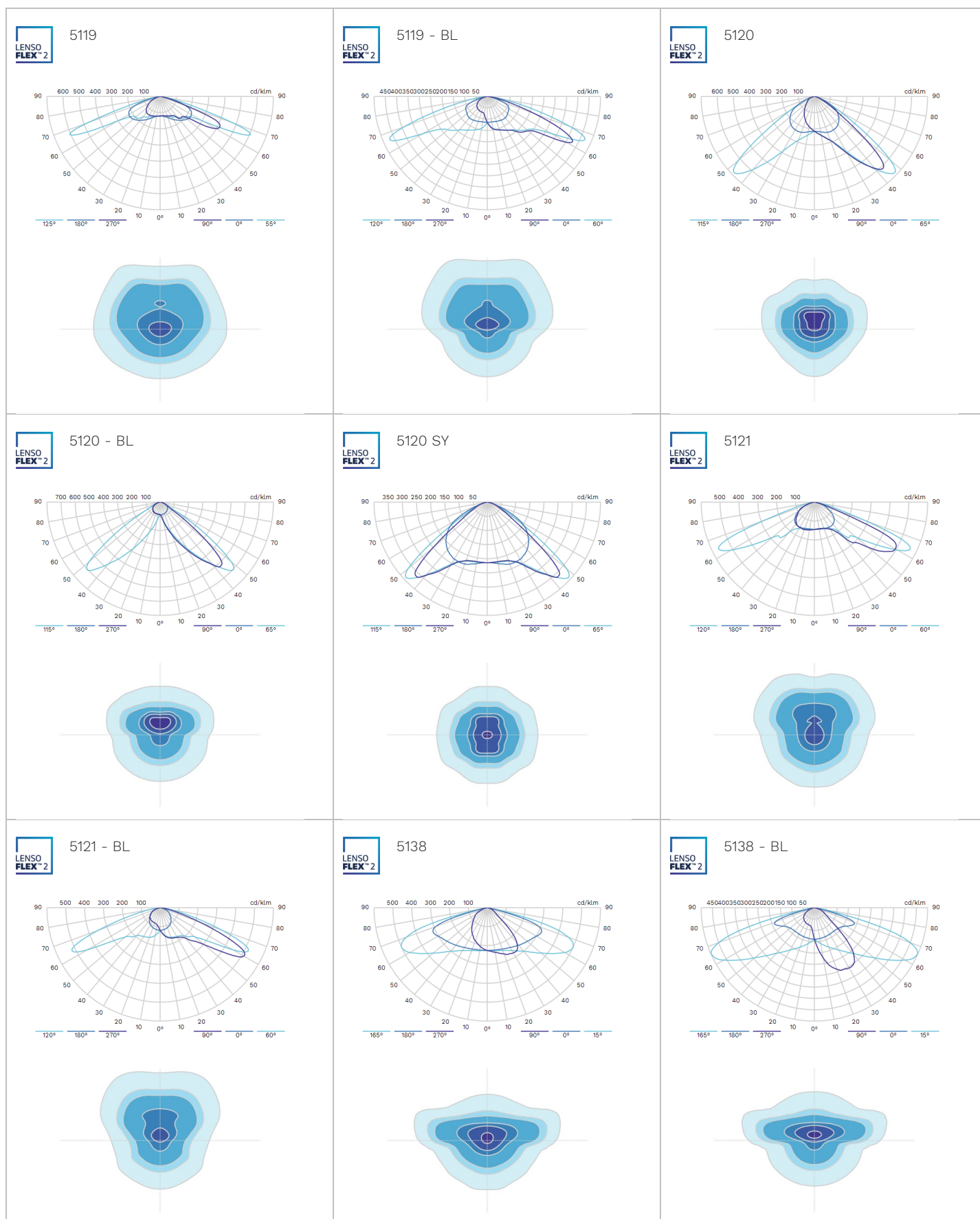
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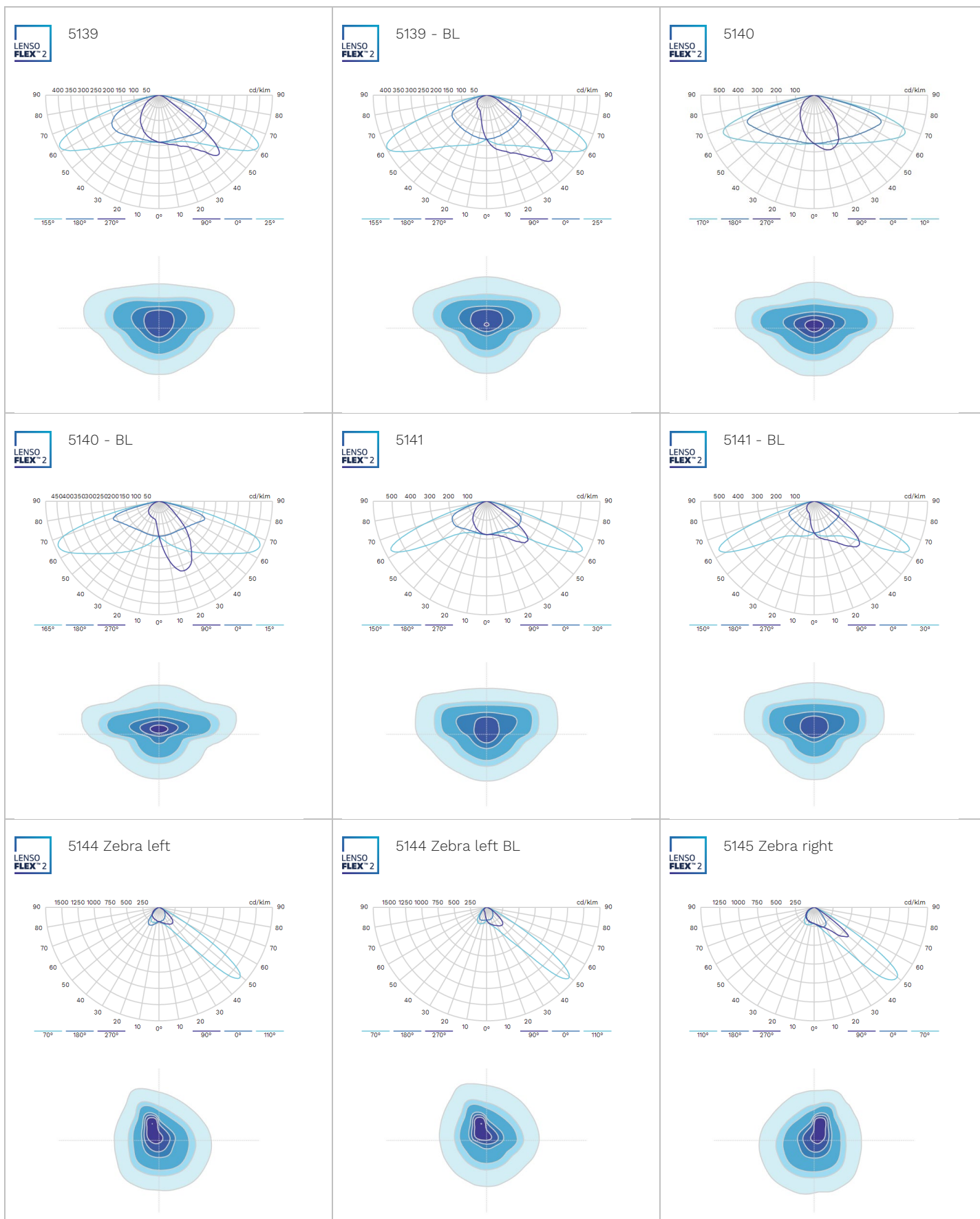


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	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry
CITEA NG MIDI	48	600	8700	11400	8700	11400	7300	9700	7800	10300	86	140	LENZO FLEX* 2
	48	700	9800	13000	9800	13000	8300	11000	8800	11700	101	135	LENZO FLEX* 2
	48	800	10900	14400	10900	14400	9200	12200	9800	12900	116	130	LENZO FLEX* 2
	56	200	3900	5200	3900	5200	3300	4400	3500	4600	33.4	162	LENZO FLEX* 2
	56	300	5600	7400	5600	7400	4700	6200	5000	6600	49.5	156	LENZO FLEX* 2
	56	470	9100	12000	9100	12000	7700	10200	8200	10800	80	158	LENZO FLEX* 2
	56	500	8700	11500	8700	11500	7400	9700	7800	10300	83	145	LENZO FLEX* 2
	56	680	11200	14800	11200	14800	9500	12500	10000	13300	114	136	LENZO FLEX* 2
	64	200	4500	5900	4500	5900	3800	5000	4000	5300	38	163	LENZO FLEX* 2
	64	300	6400	8400	6400	8400	5400	7100	5700	7600	56.5	156	LENZO FLEX* 2
	64	420	8500	11300	8500	11300	7200	9600	7700	10100	80	148	LENZO FLEX* 2
	64	500	9900	13100	9900	13100	8400	11100	8900	11800	95	144	LENZO FLEX* 2
	64	600	11600	15300	11600	15300	9800	12900	10400	13700	114	140	LENZO FLEX* 2
	64	700	13100	17300	13100	17300	11100	14700	11800	15600	134	135	LENZO FLEX* 2
	72	200	5000	6700	5000	6700	4300	5600	4500	6000	42.5	165	LENZO FLEX* 2
	72	370	8600	11400	8600	11400	7300	9700	7700	10200	79	151	LENZO FLEX* 2
	72	400	9200	12200	9200	12200	7800	10300	8300	11000	85	151	LENZO FLEX* 2
	72	540	11900	15800	11900	15800	10100	13300	10700	14200	115	143	LENZO FLEX* 2
	80	200	5600	7400	5600	7400	4700	6300	5000	6700	47	164	LENZO FLEX* 2
	80	300	8000	10600	8000	10600	6800	8900	7200	9500	70	157	LENZO FLEX* 2
	80	400	10300	13600	10300	13600	8700	11500	9200	12200	94	151	LENZO FLEX* 2
	80	500	12400	16400	12400	16400	10500	13900	11200	14800	118	146	LENZO FLEX* 2
	80	600	14500	19100	14500	19100	12200	16200	13000	17200	142	141	LENZO FLEX* 2
	88	200	6200	8200	6200	8200	5200	6900	5500	7300	51.5	165	LENZO FLEX* 2
	88	300	8800	11600	8800	11600	7400	9800	7900	10400	77	158	LENZO FLEX* 2
	88	400	11300	14900	11300	14900	9600	12600	10100	13400	103	151	LENZO FLEX* 2
	88	500	13700	18100	13700	18100	11600	15300	12300	16300	130	145	LENZO FLEX* 2
	88	600	15900	21000	15900	21000	13500	17800	14300	18900	157	140	LENZO FLEX* 2
	96	200	6700	8900	6700	8900	5700	7500	6000	8000	56.5	165	LENZO FLEX* 2
	96	300	9600	12700	9600	12700	8100	10700	8600	11400	84	158	LENZO FLEX* 2
	96	400	12300	16300	12300	16300	10400	13800	11100	14600	112	152	LENZO FLEX* 2
	96	530	15700	20700	15700	20700	13300	17500	14100	18600	150	144	LENZO FLEX* 2

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

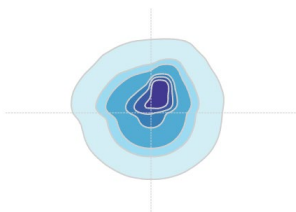
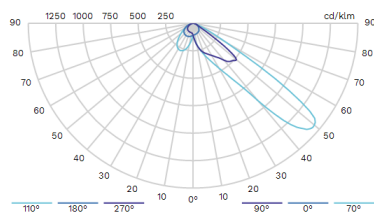






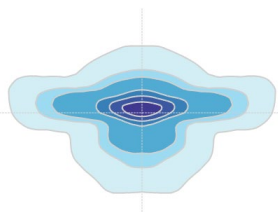
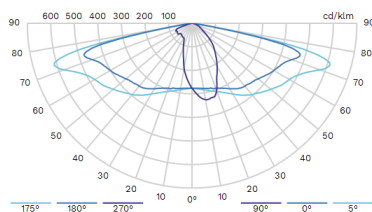
LENSO
FLEX²

5145 Zebra right BL



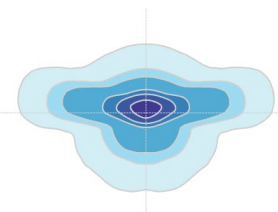
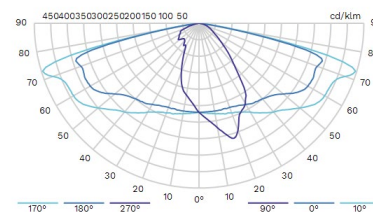
LENSO
FLEX²

5244



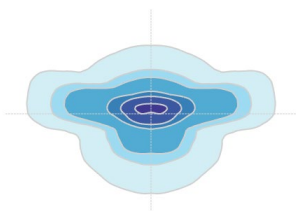
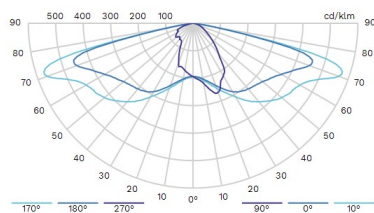
LENSO
FLEX²

5245



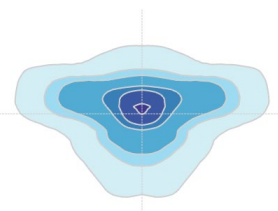
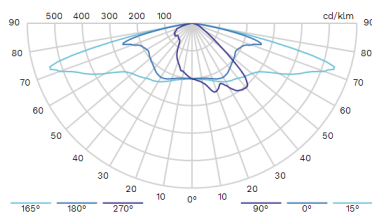
LENSO
FLEX²

5246



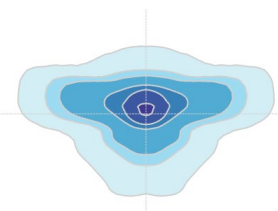
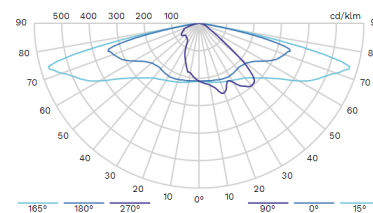
LENSO
FLEX²

5247



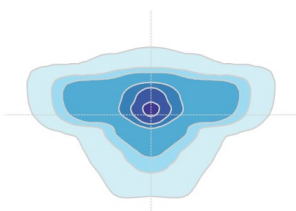
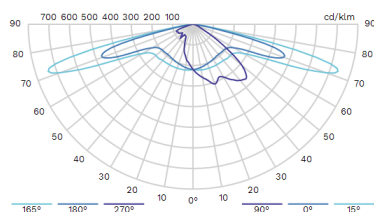
LENSO
FLEX²

5248



LENSO
FLEX²

5249



LENSO
FLEX²

5250

