

Citea NG

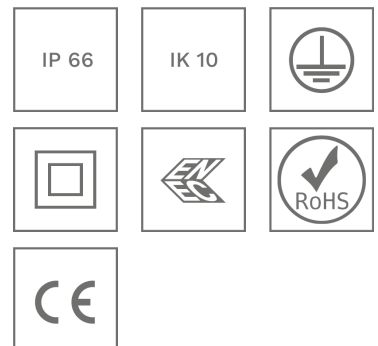


New generation. New lighting levels. New features.

Completely redesigned, 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.

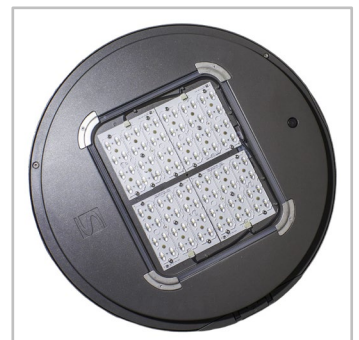
Citea NG is available in two sizes: Mini and Midi. Mini, which can incorporate 8 to 48 LEDs is ideal for lighting residential streets, urban roads and car parks while the Midi which can integrate from 16 to 96 LEDs is perfect for main roads, avenues and squares. With suspended or side-entry mounting 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.



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



Designed to incorporate the Owlet range of control solutions.

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



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.

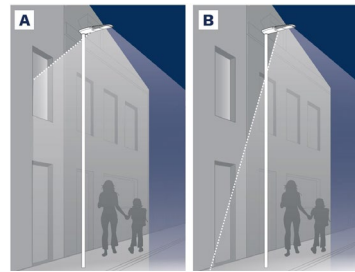
The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.



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.



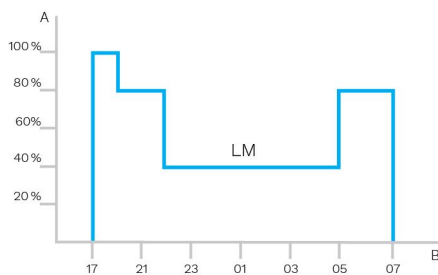
A. Without Back Light control | B. With Back Light control



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.

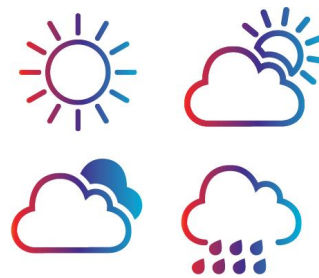


A. Performance | B. Time



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 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.



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.

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



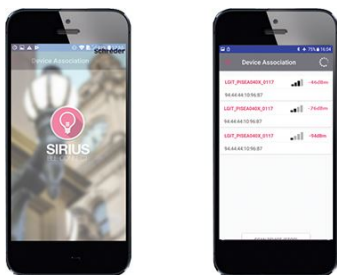
Easy to use

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.

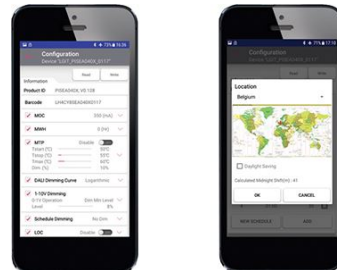
Quick and easy pairing

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.



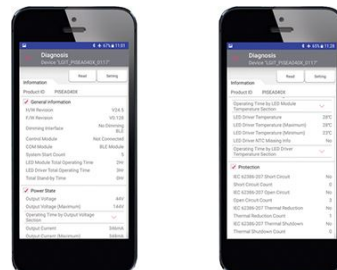
Manual dimming control

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.



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	Low voltage socket (optional) NEMA 7-pin (optional)
Associated control system(s)	Sirius BLE Owlet Nightshift Owlet IoT
Sensor	PIR (optional)

· Low voltage socket only available for Citea NG Midi

OPTICAL INFORMATION

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

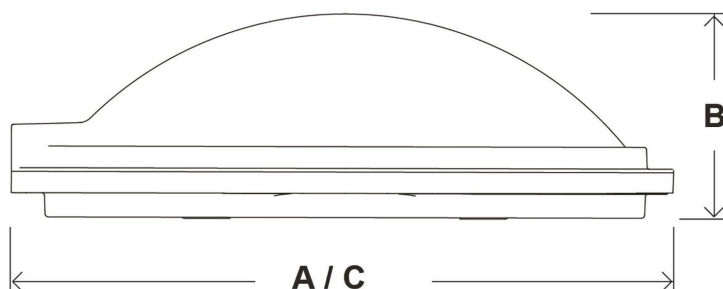
AxBxC (mm inch)	CITEA NG MINI - 500x160x500 19.7x6.3x19.7 CITEA NG MIDI - 595x185x595 23.4x7.3x23.4
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Weight (kg lbs)	CITEA NG MINI - 12 26.4 CITEA NG MIDI - 15 33.0
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Aerodynamic resistance (CxS)	CITEA NG MINI - 0.06 CITEA NG MIDI - 0.08
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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
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· Various dedicated swiveling and direct mountings. Please consult the installation sheet.





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 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	Up to	
CITEA NG MINI	8	300	700	900	800	1000	700	900	800	1000	8.7	8.7	115	
	8	400	900	1200	1000	1300	900	1200	1000	1400	11.1	11.1	126	
	8	500	1100	1400	1200	1600	1100	1400	1300	1700	13.7	13.7	124	
	8	600	1300	1700	1400	1900	1300	1700	1500	2000	16.6	16.6	120	
	8	700	1400	1900	1600	2100	1400	1900	1700	2200	19.4	19.4	113	
	8	800	1600	2100	1800	2400	1600	2100	1900	2500	22.2	22.2	113	
	8	940	1800	2400	2000	2700	1800	2400	2100	2800	25.7	25.7	109	
	16	200	900	1300	1100	1400	900	1300	1100	1500	11	11	136	
	16	300	1400	1900	1600	2100	1400	1900	1600	2100	15.8	15.8	133	
	16	400	1800	2400	2000	2700	1800	2400	2100	2800	20.8	20.8	135	
	16	500	2200	2900	2500	3300	2200	2900	2600	3400	25.9	25.9	131	
	16	600	2400	3400	2700	3800	2400	3400	2800	3900	31.1	31.1	125	
	16	700	2900	3900	3300	4300	2900	3900	3400	4500	36.4	36.4	124	
	16	850	3400	4500	3800	5000	3400	4500	3900	5200	44.5	44.5	117	
	24	200	1400	1900	1600	2200	1400	1900	1700	2200	15.4	15.4	143	
	24	300	2100	2800	2400	3100	2100	2800	2400	3200	22.5	22.5	142	
	24	400	2700	3700	3100	4100	2700	3700	3200	4200	29.9	29.9	140	
	24	590	3800	5100	4300	5700	3800	5100	4400	5900	44.5	44.5	133	
	24	600	3900	5200	4300	5800	3900	5200	4500	6000	45.5	45.5	132	
	24	700	4400	5900	4900	6500	4400	5900	5100	6800	53.5	53.5	127	
24	800	4900	6500	5500	7300	4900	6500	5700	7500	61.5	61.5	122		
24	900	5400	7100	6000	7900	5400	7100	6200	8200	69.5	69.5	118		

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



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 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		
CITEA NG MINI	24	1000	5800	7700	6400	8500	5800	7700	6600	8800	78	78	113	
	32	200	1900	2600	2200	2900	1900	2600	2200	3000	20	20	150	
	32	300	2800	3800	3200	4200	2800	3800	3300	4300	29.6	29.6	145	
	32	450	4100	5400	4500	6000	4100	5400	4700	6200	45.5	45.5	136	
	32	500	4500	5900	5000	6600	4500	5900	5200	6800	50	50	136	
	32	600	5200	6900	5800	7700	5200	6900	6000	8000	60	60	133	
	32	700	5900	7800	6600	8700	5900	7800	6800	9000	70	70	129	
	32	800	6600	8700	7300	9700	6600	8700	7600	10000	80	80	125	
	40	200	2400	3300	2700	3600	2400	3300	2800	3700	24.5	24.5	151	
	40	350	4100	5400	4600	6100	4100	5400	4700	6300	42.5	42.5	148	
	40	400	4600	6100	5100	6800	4600	6100	5300	7100	48.5	48.5	146	
	40	500	5600	7400	6200	8300	5600	7400	6500	8600	61	61	141	
	40	600	6500	8700	7300	9700	6500	8700	7500	10000	73	73	137	
	40	700	7400	9800	8200	10900	7400	9800	8500	11300	85	85	133	
	48	200	2900	3900	3300	4400	2900	3900	3400	4500	28.9	28.9	156	
	48	300	4300	5700	4800	6300	4300	5700	4900	6500	43	43	151	
	48	400	5500	7400	6200	8200	5500	7400	6400	8500	57.5	57.5	148	
	48	550	7300	9700	8100	10800	7300	9700	8400	11200	80	80	140	
	48	600	7800	10400	8700	11600	7800	10400	9000	12000	86	86	140	
	48	700	8900	11800	9900	13100	8900	11800	10200	13600	101	101	135	
48	800	9900	13100	11000	14600	9900	13100	11400	15100	116	116	130		

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



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 830		Luminaire output flux (lm) Neutral White 740		Power consumption (W)		Luminaire efficacy (lm/W)	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry
CITEA NG MIDI	16	200	1000	1300	1100	1400	1000	1300	1100	1500	11	11	136	LENSO FLEX ²
	16	300	1400	1900	1600	2100	1400	1900	1600	2100	15.8	15.8	133	LENSO FLEX ²
	16	400	1800	2400	2000	2700	1800	2400	2100	2800	20.8	20.8	135	LENSO FLEX ²
	16	500	2200	2900	2400	3200	2200	2900	2500	3400	25.9	25.9	131	LENSO FLEX ²
	16	600	2600	3400	2900	3800	2600	3400	2900	3900	31.1	31.1	125	LENSO FLEX ²
	16	700	2900	3900	3200	4300	2900	3900	3300	4400	36.4	36.4	121	LENSO FLEX ²
	16	850	3300	4400	3700	4900	3300	4400	3800	5100	44.5	44.5	115	LENSO FLEX ²
	24	200	1500	2000	1600	2200	1500	2000	1700	2300	15.4	15.4	149	LENSO FLEX ²
	24	300	2100	2800	2400	3100	2100	2800	2400	3200	22.5	22.5	142	LENSO FLEX ²
	24	400	2700	3600	3000	4000	2700	3600	3100	4200	29.9	29.9	140	LENSO FLEX ²
	24	590	3800	5000	4200	5600	3800	5000	4400	5800	44.5	44.5	130	LENSO FLEX ²
	24	600	3900	5100	4300	5700	3900	5100	4400	5900	45.5	45.5	130	LENSO FLEX ²
	24	700	4400	5800	4900	6500	4400	5800	5000	6700	53.5	53.5	125	LENSO FLEX ²
	24	800	4900	6400	5400	7200	4900	6400	5600	7400	61.5	61.5	120	LENSO FLEX ²
	24	900	5300	7100	5900	7900	5300	7100	6100	8100	69.5	69.5	117	LENSO FLEX ²
	24	1000	5800	7600	6400	8500	5800	7600	6600	8800	78	78	113	LENSO FLEX ²
	32	200	2000	2600	2200	2900	2000	2600	2300	3000	20	20	150	LENSO FLEX ²
	32	300	2800	3800	3200	4200	2800	3800	3300	4300	29.6	29.6	145	LENSO FLEX ²
	32	450	4000	5400	4500	6000	4000	5400	4700	6200	45.5	45.5	136	LENSO FLEX ²
	32	500	4400	5900	4900	6500	4400	5900	5100	6800	50	50	136	LENSO FLEX ²
	32	600	5200	6800	5800	7600	5200	6800	5900	7900	60	60	132	LENSO FLEX ²
	32	700	5900	7800	6500	8600	5900	7800	6700	8900	70	70	127	LENSO FLEX ²
	32	800	6500	8600	7300	9600	6500	8600	7500	9900	80	80	124	LENSO FLEX ²
	40	200	2500	3300	2800	3700	2500	3300	2900	3800	24.5	24.5	155	LENSO FLEX ²
	40	350	4100	5400	4500	6000	4100	5400	4700	6200	42.5	42.5	146	LENSO FLEX ²
	40	400	4600	6100	5100	6800	4600	6100	5300	7000	48.5	48.5	144	LENSO FLEX ²
	40	500	5600	7400	6200	8200	5600	7400	6400	8500	61	61	139	LENSO FLEX ²
	40	600	6500	8600	7200	9500	6500	8600	7400	9900	73	73	136	LENSO FLEX ²
	40	700	7300	9700	8200	10800	7300	9700	8400	11200	85	85	132	LENSO FLEX ²
	48	200	3000	4000	3300	4400	3000	4000	3500	4600	28.9	28.9	159	LENSO FLEX ²
	48	300	4300	5700	4800	6300	4300	5700	4900	6500	43	43	151	LENSO FLEX ²
	48	400	5500	7300	6100	8100	5500	7300	6300	8400	57.5	57.5	146	LENSO FLEX ²
48	550	7200	9600	8000	10600	7200	9600	8300	11000	80	80	138	LENSO FLEX ²	

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



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 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		
CITEA NG MIDI	48	600	7800	10300	8700	11400	7800	10300	8900	11800	86	86	137	LENZO FLEX*2
	48	700	8800	11700	9800	13000	8800	11700	10100	13400	101	101	133	LENZO FLEX*2
	48	800	9800	12900	10900	14400	9800	12900	11300	14900	116	116	128	LENZO FLEX*2
	56	200	3500	4600	3900	5200	3500	4600	4000	5300	33.4	33.4	159	LENZO FLEX*2
	56	300	5000	6600	5600	7400	5000	6600	5800	7600	49.5	49.5	154	LENZO FLEX*2
	56	470	8200	10800	9100	12000	8200	10800	9400	12500	80	80	156	LENZO FLEX*2
	56	500	7800	10300	8700	11500	7800	10300	9000	11900	83	83	143	LENZO FLEX*2
	56	680	10000	13300	11200	14800	10000	13300	11600	15300	114	114	134	LENZO FLEX*2
	64	200	4000	5300	4500	5900	4000	5300	4600	6100	38	38	161	LENZO FLEX*2
	64	300	5700	7600	6400	8400	5700	7600	6600	8700	56.5	56.5	154	LENZO FLEX*2
	64	420	7700	10100	8500	11300	7700	10100	8800	11700	80	80	146	LENZO FLEX*2
	64	500	8900	11800	9900	13100	8900	11800	10300	13600	95	95	143	LENZO FLEX*2
	64	600	10400	13700	11600	15300	10400	13700	11900	15800	114	114	139	LENZO FLEX*2
	64	700	11800	15600	13100	17300	11800	15600	13500	17900	134	134	134	LENZO FLEX*2
	72	200	4500	6000	5000	6700	4500	6000	5200	6900	42.5	42.5	162	LENZO FLEX*2
	72	370	7700	10200	8600	11400	7700	10200	8900	11800	79	79	149	LENZO FLEX*2
	72	400	8300	11000	9200	12200	8300	11000	9500	12600	85	85	148	LENZO FLEX*2
	72	540	10700	14200	11900	15800	10700	14200	12300	16300	115	115	142	LENZO FLEX*2
	80	200	5000	6700	5600	7400	5000	6700	5800	7700	47	47	164	LENZO FLEX*2
	80	300	7200	9500	8000	10600	7200	9500	8300	10900	70	70	156	LENZO FLEX*2
	80	400	9200	12200	10300	13600	9200	12200	10600	14000	94	94	149	LENZO FLEX*2
	80	500	11200	14800	12400	16400	11200	14800	12900	17000	118	118	144	LENZO FLEX*2
	80	600	13000	17200	14500	19100	13000	17200	14900	19800	142	142	139	LENZO FLEX*2
	88	200	5500	7300	6200	8200	5500	7300	6400	8400	51.5	51.5	163	LENZO FLEX*2
	88	300	7900	10400	8800	11600	7900	10400	9100	12000	77	77	156	LENZO FLEX*2
	88	400	10100	13400	11300	14900	10100	13400	11700	15400	103	103	150	LENZO FLEX*2
	88	500	12300	16300	13700	18100	12300	16300	14200	18700	130	130	144	LENZO FLEX*2
	88	600	14300	18900	15900	21000	14300	18900	16400	21700	157	157	138	LENZO FLEX*2
	96	200	6000	8000	6700	8900	6000	8000	7000	9200	56.5	56.5	163	LENZO FLEX*2
	96	300	8600	11400	9600	12700	8600	11400	9900	13100	84	84	156	LENZO FLEX*2
96	400	11100	14600	12300	16300	11100	14600	12700	16800	112	112	150	LENZO FLEX*2	
96	530	14100	18600	15700	20700	14100	18600	16200	21400	150	150	143	LENZO FLEX*2	

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

