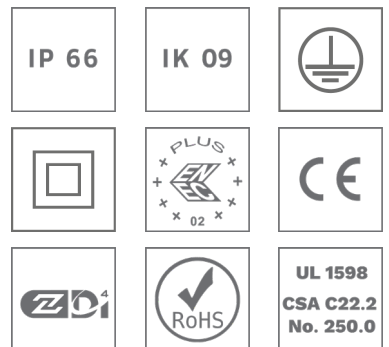


FLEXIA POEME



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 POEME is a versatile suspended decorative luminaire, designed to provide the greatest modularity and easy customisation.

This luminaire cleverly combines advanced technologies with a refined aesthetic design. Its aluminum body is sealed to a sophisticated deep polycarbonate protector, subtly connecting a contemporary universe with a classic style.

Create dramatic lighting effects with FLEXIA POEMEs' accessories and give your city its very own identity.

FLEXIA POEME 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 uses 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 POEME is delivered pre-cabled. It also uses the patented IzyHub compact connection and connectivity module which is designed for quick, error-proof wiring. FLEXIA POEME 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 the tool-free access of the optical compartment, Cromacoloured filters can be added at any time to create a special atmosphere for events.

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



FLEXIA POEME can be personalised with a wide range of accessories to enhance your city's identity.



FLEXIA POEME is designed for suspended mounting.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- State-of-the-art LED modular platform that can be endlessly customised
- Design consistency for all urban applications
- Various suspended mounting options
- 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
- Connected-ready for your future Smart city requirements
- Based on open and interoperable standards
- Compatible with the Schröder EXEDRA control platform
- Zhaga-D4i certified



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



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

FLEXIA POEME | Standard



FLEXIA POEME | With Cromia filter



FLEXIA POEME | With Coppa accessory



FLEXIA POEME | With Coppa + Cromia filter

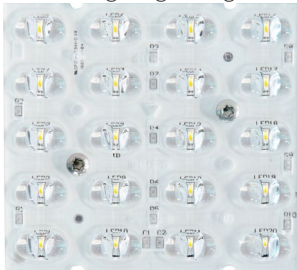




LensoFlex®4

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.

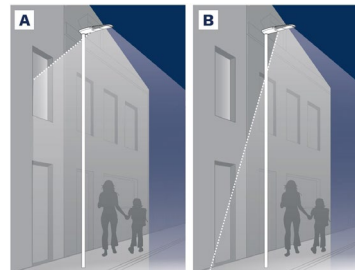
LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



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.



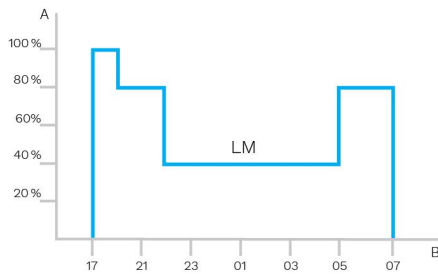
A. Without Back Light control | B. With Back Light control



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.

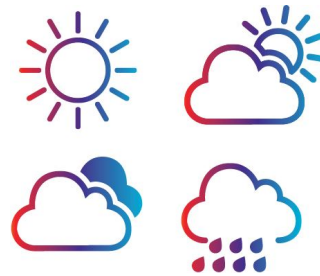


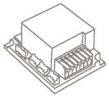
A. Dimming level | B. Time



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.

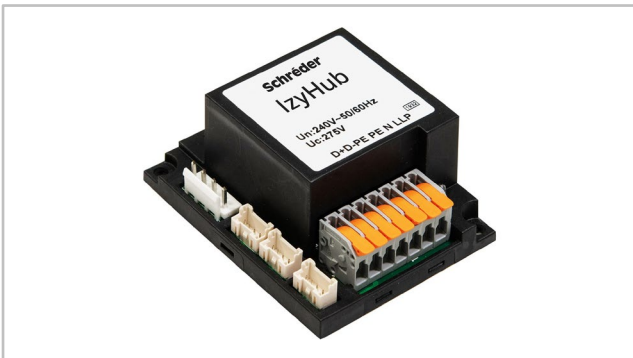




IzyHub

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

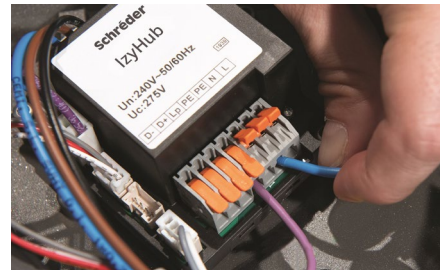
IzyHub features a built-in surge protection device. This prevents electrical surges resulting from lightning strikes and other transient voltages that originate from the mains network from damaging the luminaire, even in the most demanding conditions. The protective device also includes an end-of-life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

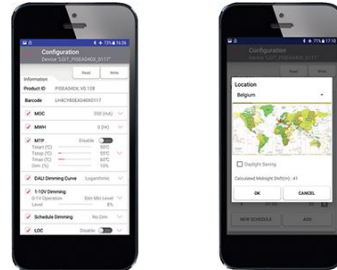
Quick and easy pairing

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.



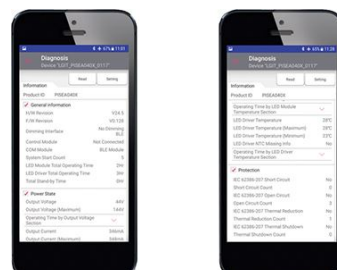
Manual dimming control

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

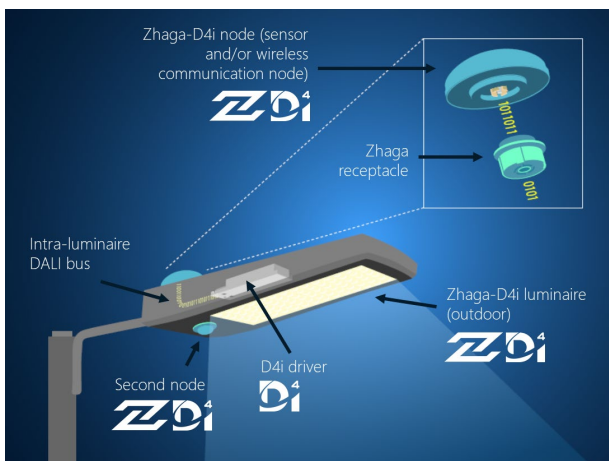
The Zhaga-D4i certification covers all the critical features including mechanical fit, digital communication, data reporting and power requirements within a single luminaire, ensuring plug-and-play interoperability of luminaires (drivers) and peripherals such as connectivity nodes.

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 10m 13' to 33'
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
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, e
Testing standard	LM 79-08 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 09
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
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· Depending on the luminaire configuration. For more details, please contact us.

ELECTRICAL INFORMATION

Electrical class	Class 1US, Class I EU, Class II EU
Nominal voltage	120-277V – 50-60Hz 220-240V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	10 20
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547
Control protocol(s)	Bluetooth, 1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Socket	Zhaga (optional) NEMA 7-pin (optional)
Associated control system(s)	Sirius BLE Schröder EXEDRA

OPTICAL INFORMATION

LED colour temperature	2200K (FlexiWhite 722 722) 2600K (FlexiWhite 726 726) 2700K (Warm White 727) 3000K (Warm White 730) 3000K (Warm White 830) 3000K (FlexiWhite 730 730) 4000K (Neutral White 740)
Colour rendering index (CRI)	>70 (FlexiWhite 722 722) >70 (FlexiWhite 726 726) >70 (Warm White 727) >70 (Warm White 730) >80 (Warm White 830) >70 (FlexiWhite 730 730) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	<3%

LIFETIME OF THE LEDS @ TQ 25°C

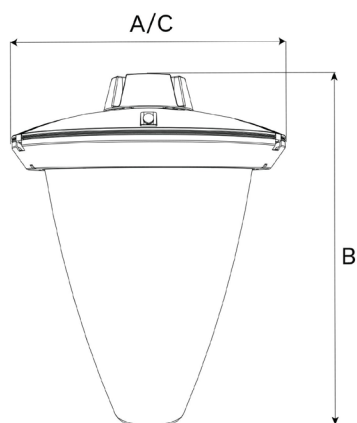
All configurations	100,000h - L95
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· Lifetime may be different according to the size/configurations. Please consult us.

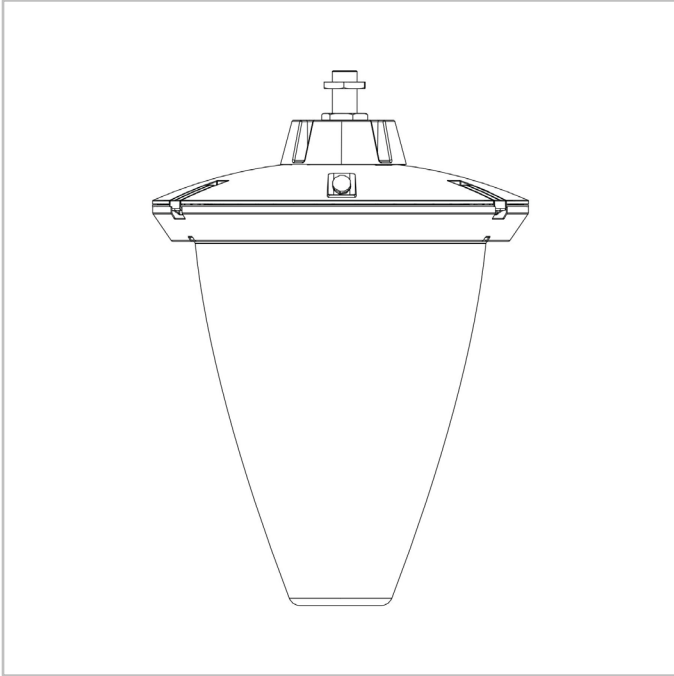
DIMENSIONS AND MOUNTING

AxBxC (mm inch)	504x650x504 19.8x25.6x19.8
Weight (kg lbs)	11.65 25.6
Aerodynamic resistance (CxS)	0.04
Mounting possibilities	Side-entry slip-over – Ø60mm Side-entry penetrating – Ø48mm Suspended mounting Surface mounting

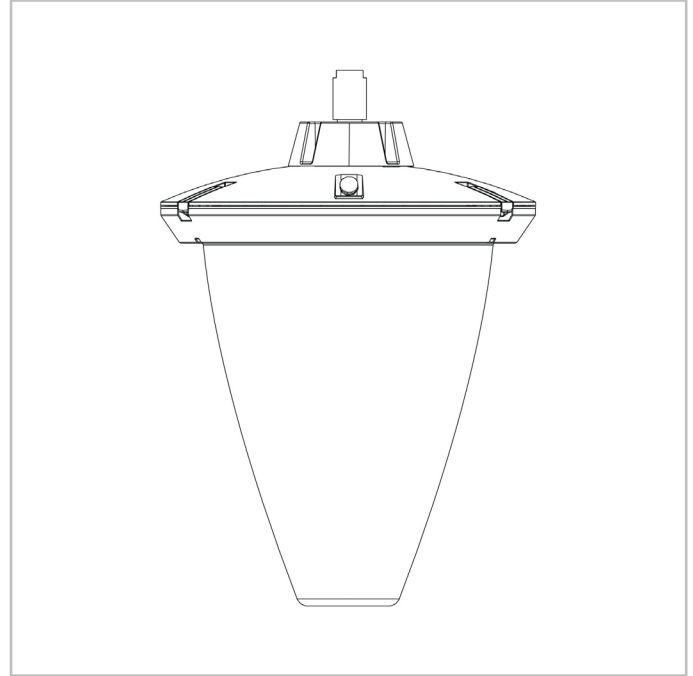
· For more information about mounting possibilities, please consult the installation sheet.



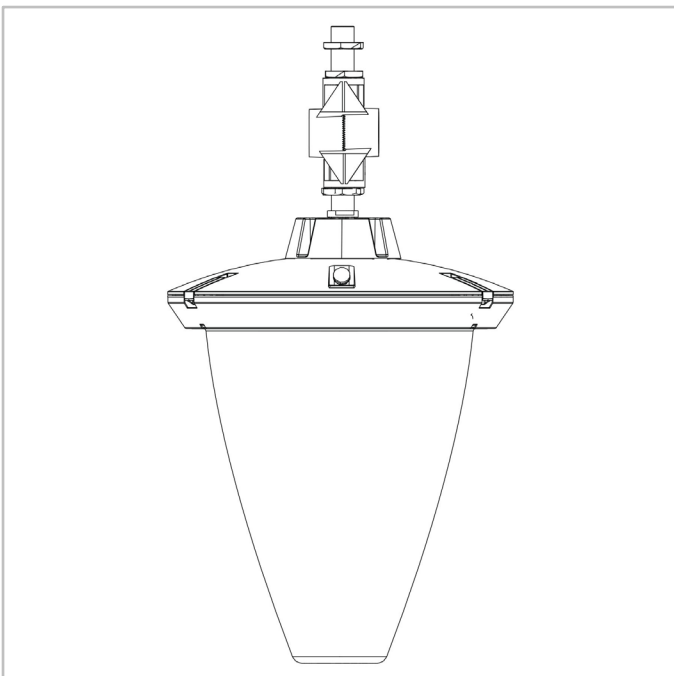
FLEXIA POEME | Suspended with fixed 1" gas mounting



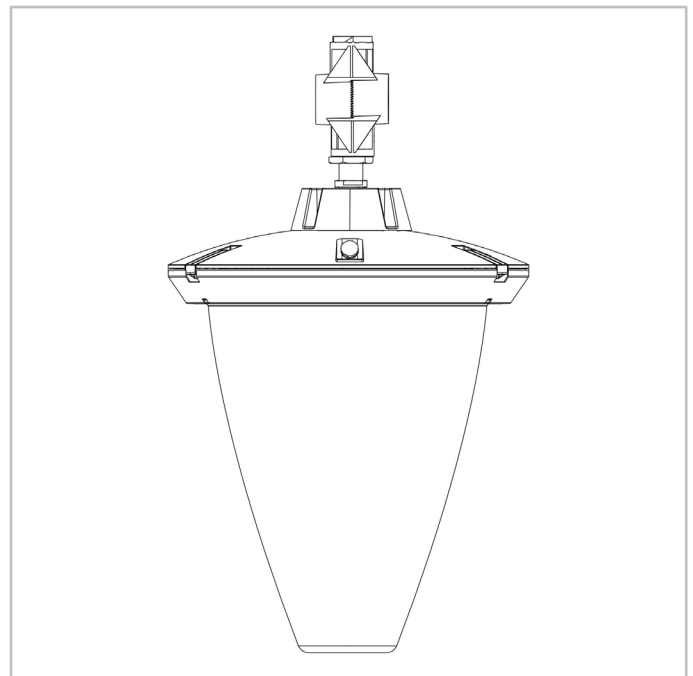
FLEXIA POEME | Suspended with 1" gas enclosing mounting



FLEXIA POEME | Suspended with knuckle joint 1" gas mounting

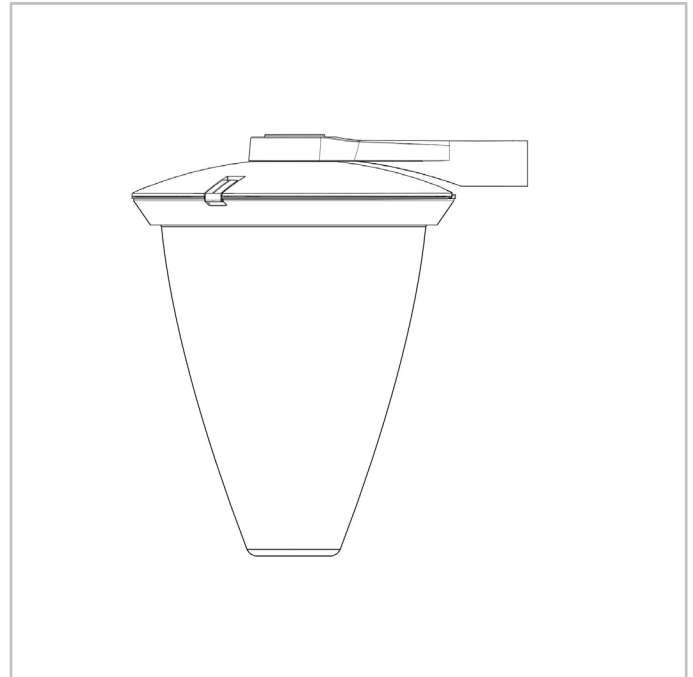
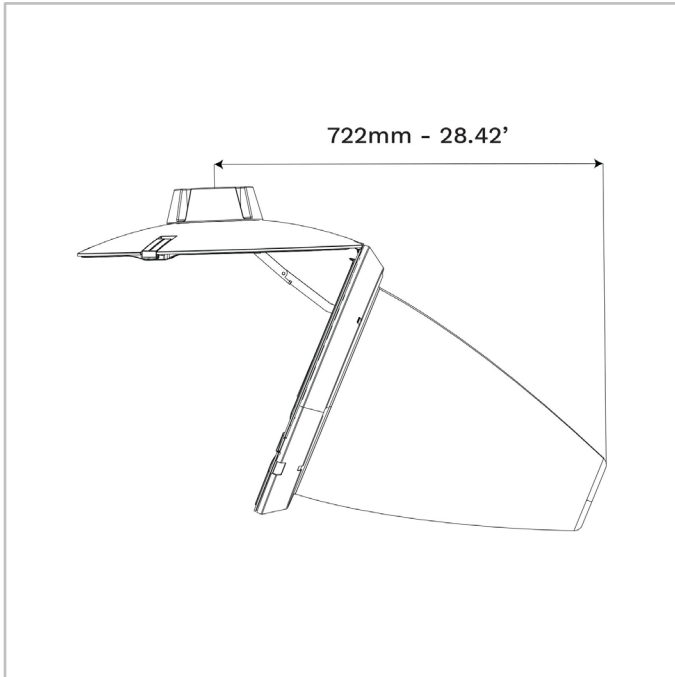


FLEXIA POEME | Suspended with knuckle joint 1" gas enclosing mounting



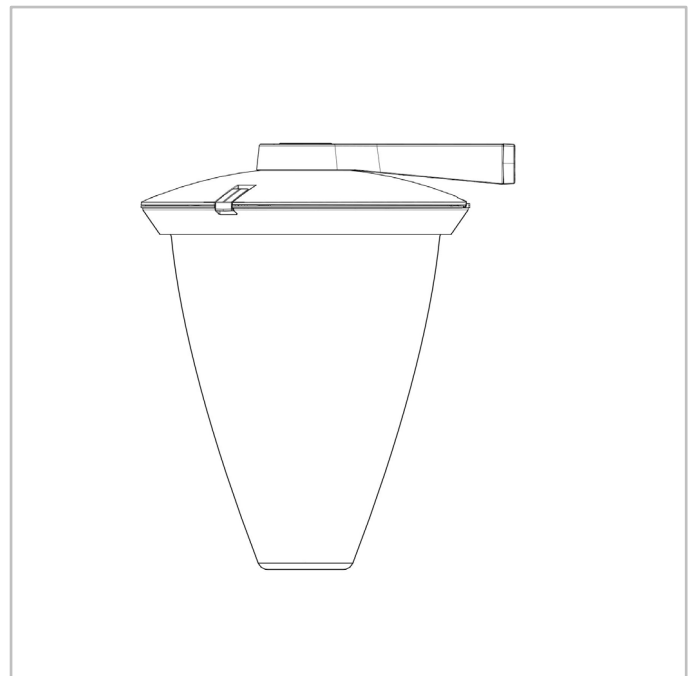
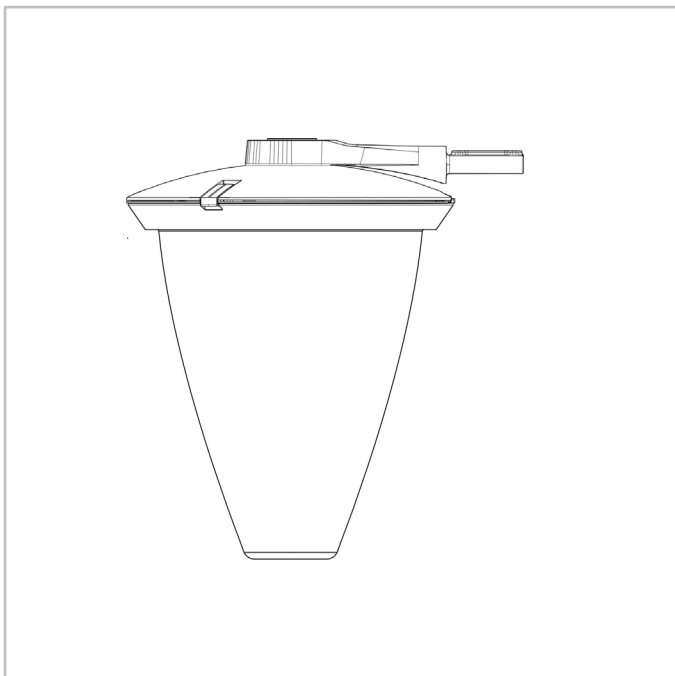
FLEXIA POEME | Luminaire opening clearance

FLEXIA POEME | Side-entry enclosing Ø60 mm mounting

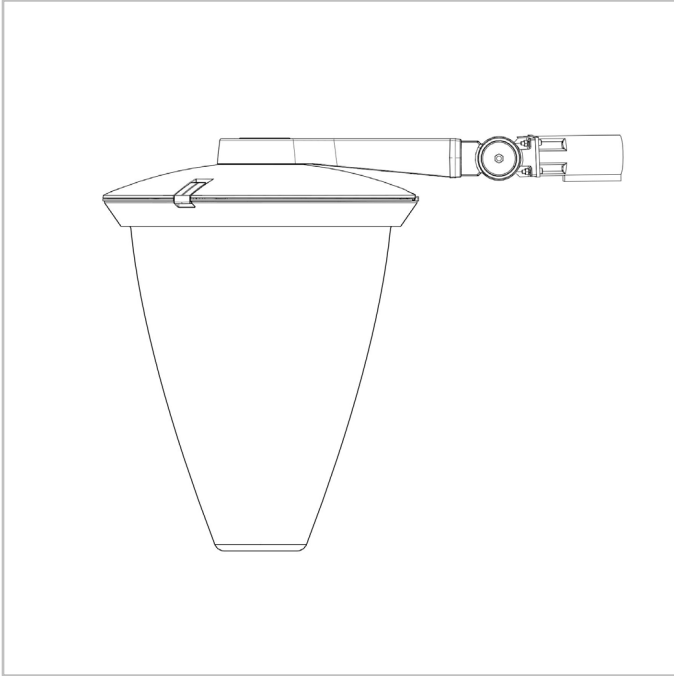


FLEXIA POEME | Side-entry penetrating spigot Ø48 mm

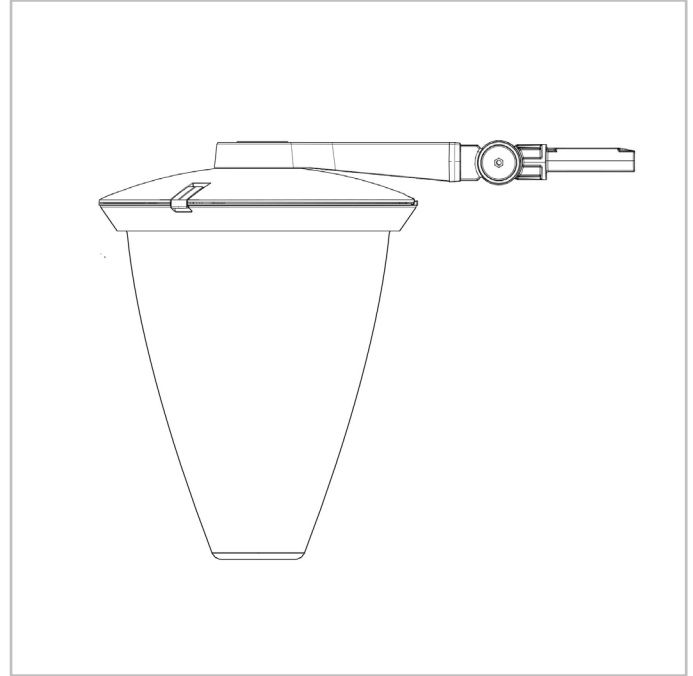
FLEXIA POEME | Side-entry 40X40 square direct mounting



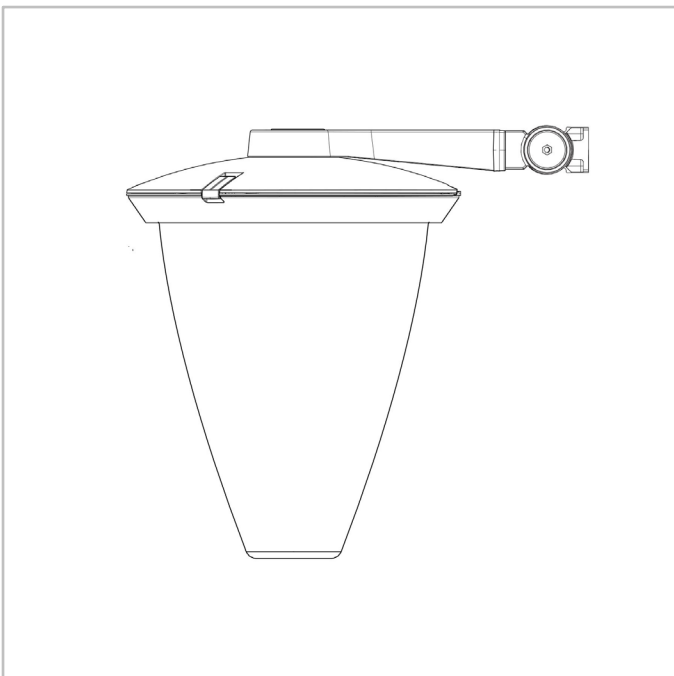
FLEXIA POEME | Knuckle joint side-entry
enclosing $\varnothing 60$ mm



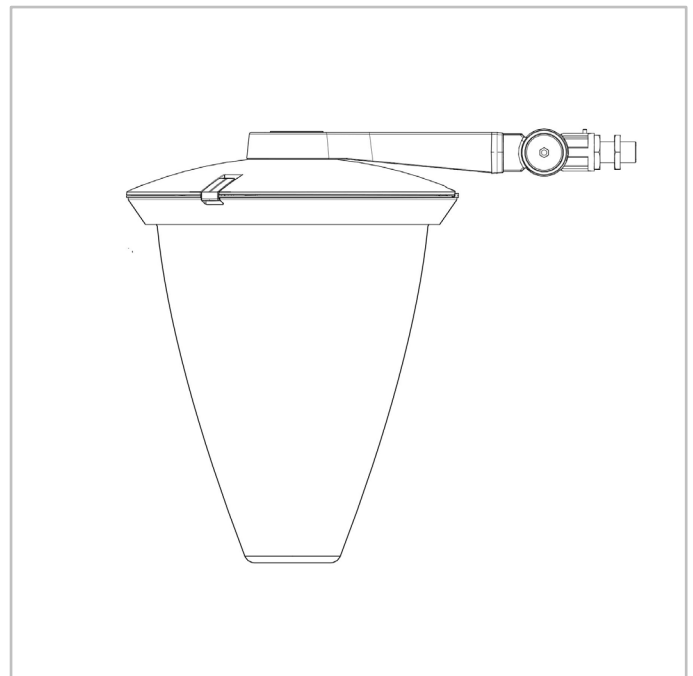
FLEXIA POEME | Knuckle joint side-entry
penetrating $\varnothing 48$ mm



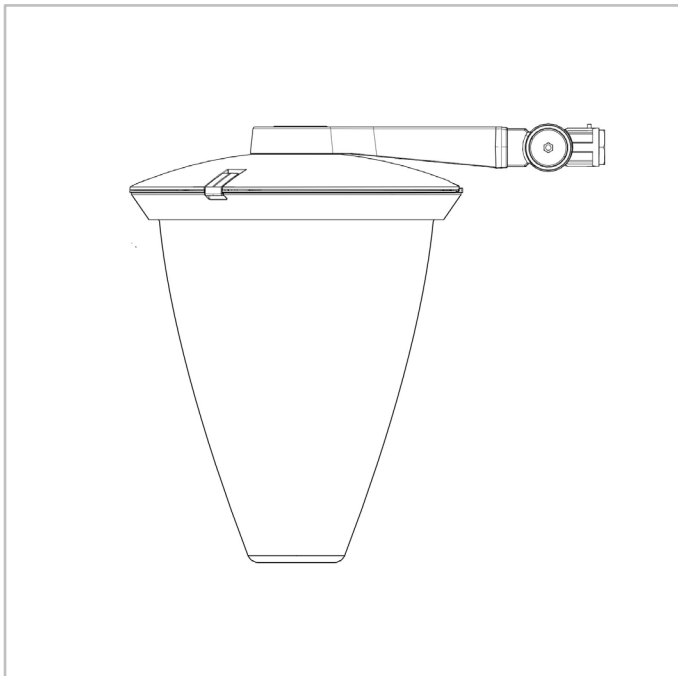
FLEXIA POEME | Knuckle joint side-entry
60X50 square mounting



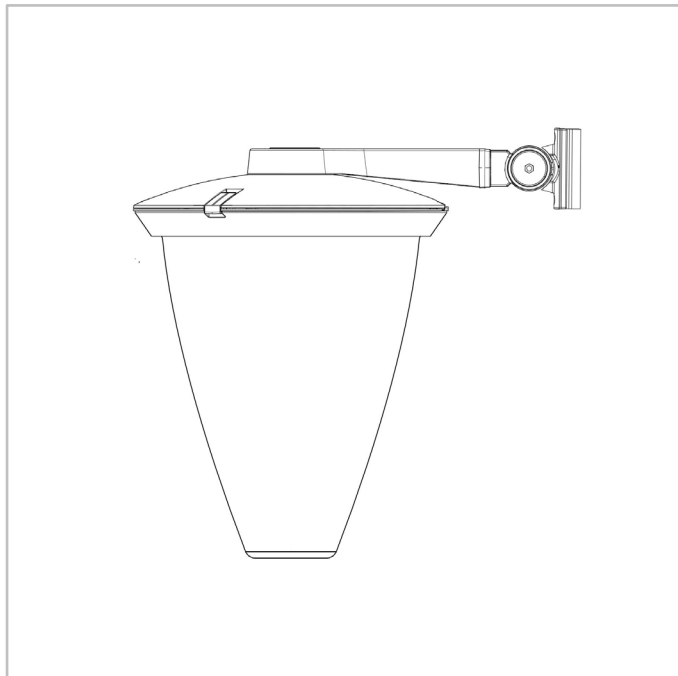
FLEXIA POEME | Knuckle joint side-entry 1"
gas mounting



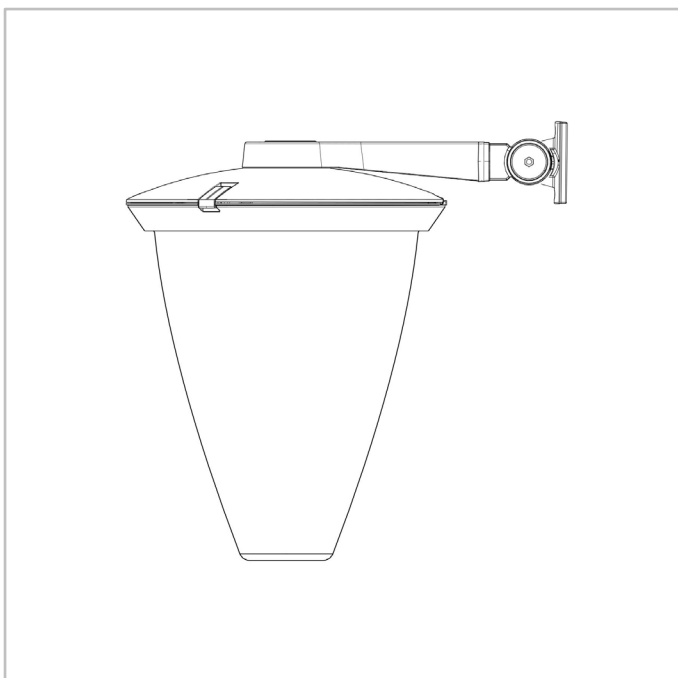
FLEXIA POEME | Knuckle joint 1" gas side-entry enclosing mounting



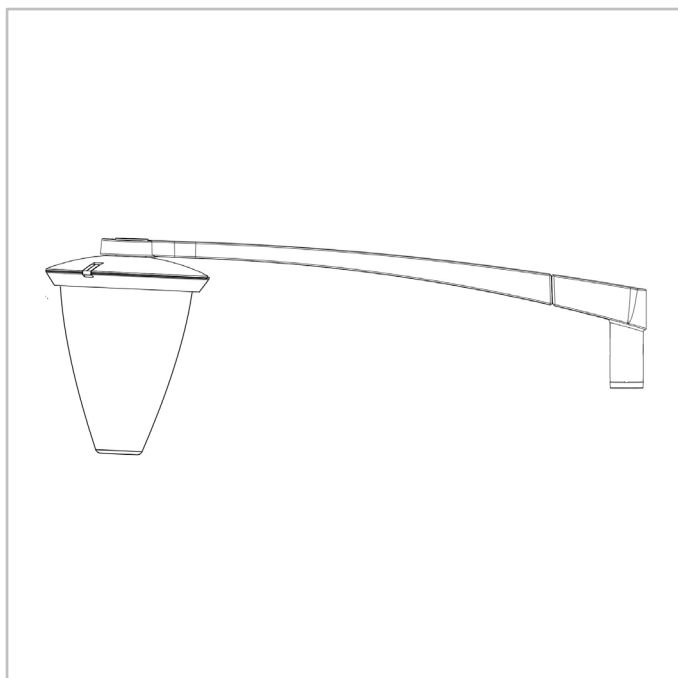
FLEXIA POEME | Knuckle joint surface mounting



FLEXIA POEME | Knuckle rear bracket mounting



FLEXIA POEME | SOFIA bracket





		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		Luminaire output flux (lm) FlexiWhite 722		Luminaire output flux (lm) FlexiWhite 726		Luminaire output flux (lm) FlexiWhite 730		W	lm/W	
Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to	Photometry	
		FLEXIA POEME MIDI																
10	200	600	900	700	900	600	900	700	1000	-	-	-	-	-	-	7.8	128	
10	300	1000	1300	1000	1400	1000	1300	1100	1400	-	-	-	-	-	-	10.8	130	
10	300	-	-	-	-	-	-	-	-	800	1000	900	1100	1000	1200	10.5	114	
10	310	1000	1300	1100	1400	1000	1300	1100	1500	-	-	-	-	-	-	11.1	135	
10	350	1100	1500	1200	1600	1100	1500	1200	1700	-	-	-	-	-	-	12.3	138	
10	400	1300	1700	1300	1800	1300	1700	1400	1900	-	-	-	-	-	-	13.8	138	
10	400	-	-	-	-	-	-	-	-	1100	1300	1200	1500	1300	1600	13.6	118	
10	500	1500	2000	1600	2200	1500	2000	1700	2300	-	-	-	-	-	-	17	135	
10	500	-	-	-	-	-	-	-	-	1300	1600	1500	1800	1600	1900	17.1	111	
10	600	1800	2400	1900	2500	1800	2400	2000	2700	-	-	-	-	-	-	20.5	132	
10	600	-	-	-	-	-	-	-	-	1500	1800	1700	2100	1900	2200	20.4	108	
10	650	1900	2500	2000	2700	1900	2500	2100	2800	-	-	-	-	-	-	22.2	126	
10	700	-	-	-	-	-	-	-	-	1800	2200	2000	2400	2200	2600	23.7	110	
10	730	-	-	-	-	-	-	-	-	1800	2200	2000	2400	2200	2600	24.7	105	
20	200	1300	1800	1400	1900	1300	1800	1500	2000	-	-	-	-	-	-	13.8	145	
20	200	-	-	-	-	-	-	-	-	1200	1400	1300	1600	1400	1700	13.3	128	
20	300	2000	2600	2100	2800	2000	2600	2200	2900	-	-	-	-	-	-	19.8	146	
20	300	-	-	-	-	-	-	-	-	1700	2000	1900	2300	2100	2500	19.3	130	
20	400	2600	3400	2700	3600	2600	3400	2900	3800	-	-	-	-	-	-	25.9	147	
20	400	-	-	-	-	-	-	-	-	2200	2700	2500	3000	2700	3200	25.5	125	

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



	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		Luminaire output flux (lm) FlexiWhite 722		Luminaire output flux (lm) FlexiWhite 726		Luminaire output flux (lm) FlexiWhite 730		W	lm/W	Photometry
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
FLEXIA POEME MIDI	20	500	3100	4100	3300	4400	3100	4100	3500	4600	-	-	-	-	-	-	32.3	142	
	20	500	-	-	-	-	-	-	-	-	2700	3300	3100	3700	3300	3900	31.9	122	
	20	600	3600	4800	3800	5100	3600	4800	4100	5400	-	-	-	-	-	-	38.9	139	
	20	600	-	-	-	-	-	-	-	-	3200	3800	3600	4300	3900	4600	38.2	120	
	20	700	4100	5400	4300	5700	4100	5400	4600	6000	-	-	-	-	-	-	45.5	132	
	20	700	-	-	-	-	-	-	-	-	3700	4400	4100	4900	4400	5300	44	120	
	20	800	4500	5900	4800	6300	4500	5900	5000	6600	-	-	-	-	-	-	52.5	126	
	20	800	-	-	-	-	-	-	-	-	4100	4900	4600	5500	4900	5900	50.5	117	
	20	900	4800	6400	5200	6800	4800	6400	5500	7200	-	-	-	-	-	-	59.5	121	
	20	900	-	-	-	-	-	-	-	-	4500	5400	5000	6000	5400	6500	57	114	
	20	1000	5200	6800	5500	7300	5200	6800	5800	7700	-	-	-	-	-	-	66.5	116	
	20	1000	-	-	-	-	-	-	-	-	4900	5800	5500	6500	5900	7000	64	109	
	40	200	2700	3600	2900	3800	2700	3600	3100	4100	-	-	-	-	-	-	25.9	158	
	40	300	4000	5300	4200	5600	4000	5300	4500	5900	-	-	-	-	-	-	37.8	156	
	40	350	4600	6000	4900	6400	4600	6000	5100	6800	-	-	-	-	-	-	44	155	
	40	500	6200	8200	6600	8700	6200	8200	7000	9200	-	-	-	-	-	-	62	148	
40	600	7200	9600	7700	10200	7200	9600	8200	10800	-	-	-	-	-	-	76	142		
40	700	8200	10800	8700	11500	8200	10800	9200	12100	-	-	-	-	-	-	88	138		

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

