Experts in lightability™

# 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 nonstop 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.

































### FLEXIA POEME | SUMMARY

### Schréder

#### 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, Croma coloured 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.

### 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
- standards

• Based on open and interoperable

- Compatible with the Schréder EXEDRA control platform
- Zhaga-D4i certified



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



FLEXIA POEME is designed for suspended mounting.



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 Coppa accessory



FLEXIA POEME | With Croma filter



FLEXIA POEME | With Coppa + Croma 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.





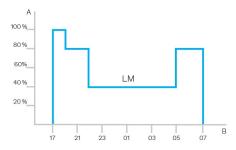
A. Without Back Light control | B. With Back Light control



### 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.









module



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 toolfree 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 bipower 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 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, Schréder has participated in the creation of, and therefore supports, the Zhaga-D4i certification program and the initiative of this group to standardise an interoperable ecosystem. The D4i specifications take the best of the standard DALI2 protocol and adapt it to an intraluminaire environment but it has certain limitations. Only luminaire mounted control devices can be combined with a Zhaga-D4i luminaire. According to the specification, control devices are limited respectively to 2W and 1W average power consumption.

### Certification program

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



### Cost-effective solution

A Zhaga-D4i certified luminaire includes drivers offering features that had previously been in the control node, like energy metering, which has in turn simplified the control device therefore reducing the price of the control system.



Schréder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.



### Tailored experience

Schréder EXEDRA includes all advanced features needed for smart device management, real-time and scheduled control, dynamic and automated lighting scenarios, maintenance and field operation planning, energy consumption management and third-party connected hardware integration. It is fully configurable and includes tools for user management and multi-tenant policy that enables contractors, utilities or big cities to segregate projects.

# A powerful tool for efficiency, rationalisation and decision making

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

### Protected on every side

Schréder EXEDRA provides state-of-the-art data security with encryption, hashing, tokenisation, and key management practices that protect data across the whole system and its associated services

### Standardisation for interoperable ecosystems

Schréder plays a key role in driving standardisation with alliances and partners such as uCIFI, TALQ or Zhaga. Our joint commitment is to provide solutions designed for vertical and horizontal IoT integration. From the body (hardware) to the language (data model) and the intelligence (algorithms), the complete Schréder EXEDRA system relies on shared and open technologies.

Schréder EXEDRA also relies on Microsoft™ Azure for cloud services, provided with the highest levels of trust, transparency, standards conformance and regulatory compliance.

#### Breaking the silos

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

- control devices (luminaires) from other brands
- · manage controllers and to integrate sensors from other brands
- · connect with third-party devices and platforms

### A plug-and-play solution

As a gateway-less system using the cellular network, an intelligent automated commissioning process recognises, verifies and retrieves luminaire data into the user interface. The self-healing mesh between luminaire controllers enables real-time adaptive lighting to be configured directly via the user interface.

# FLEXIA POEME | CHARACTERISTICS

# Schréder

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
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
BE 005 certified	Yes
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 CONDITION	NS
Operating	-30°C up to +55°C / -22°F up to 131°F

· Depending on the lur	ninaire configuration.	For more details, please
contact us		

with wind effect

temperature range

ELECTRICAL INFORMAT	TION
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)	1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Socket	Zhaga (optional) NEMA 7-pin (optional)
Associated control system(s)	Schréder EXEDRA
OPTICAL INFORMATION	I
LED colour temperature	2200K (FW 722) 2200K (WW 722) 2600K (FW 726) 2700K (WW 727) 3000K (FW 730) 3000K (WW 730) 3000K (WW 830) 4000K (NW 740)
Colour rendering index (CRI)	>70 (FW 722) >70 (WW 722) >70 (FW 726) >70 (FW 727) >70 (FW 730) >70 (WW 730) >80 (WW 830) >70 (NW 740)
ULOR	<3%
ULR	<3%

<sup>·</sup> ULOR may be different according to the configuration. Please consult us.

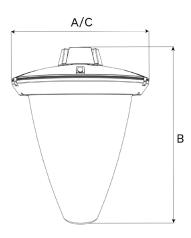
#### LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95
· Lifetime may be differe	ent according to the size/configurations. Please

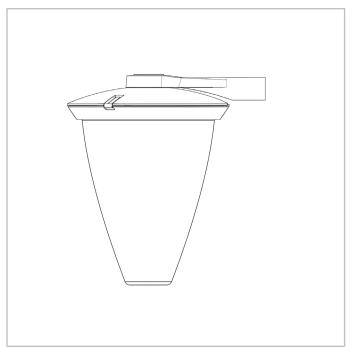
<sup>·</sup> ULR may be different according to the configuration. Please consult us.

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	

<sup>·</sup> For more information about mounting possibilities, please consult the installation sheet.



FLEXIA POEME | Side-entry enclosing Ø60mm mounting (L2)



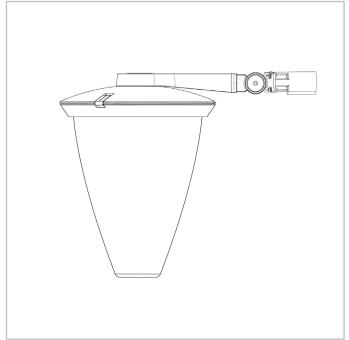
FLEXIA POEME | Side-entry 40X40 square direct mounting (E1)



FLEXIA POEME | Side-entry penetrating spigot Ø48mm (L3)



FLEXIA POEME | Knuckle joint side-entry enclosing Ø60mm mounting (A6)



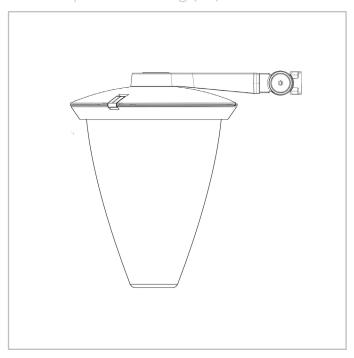
FLEXIA POEME | Knuckle joint side-entry penetrating Ø48mm spigot (A5)



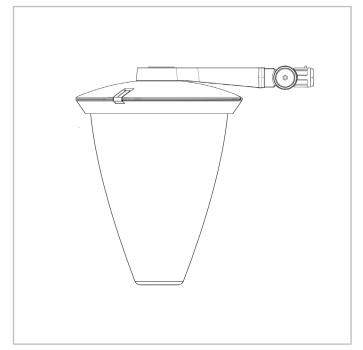
FLEXIA POEME | Knuckle joint 1" gas male side entry mounting (A3)



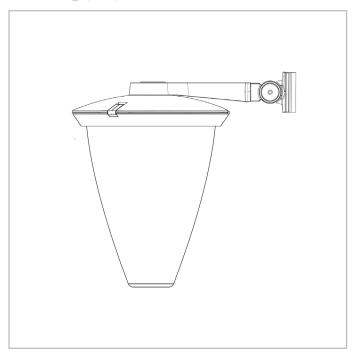
FLEXIA POEME | Knuckle joint side-entry 60X50 square mounting (A2)



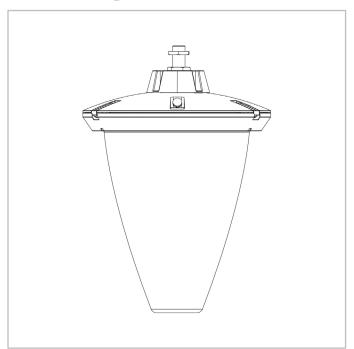
FLEXIA POEME | Knuckle joint 1" gas female side entry mounting (A4)



FLEXIA POEME | Knuckle joint surface mounting (WB)



FLEXIA POEME | Suspended with fixed 1" gas male mounting (S2)



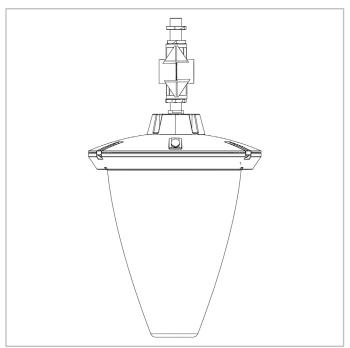
FLEXIA POEME | Knuckle joint rear bracket mounting (WM)

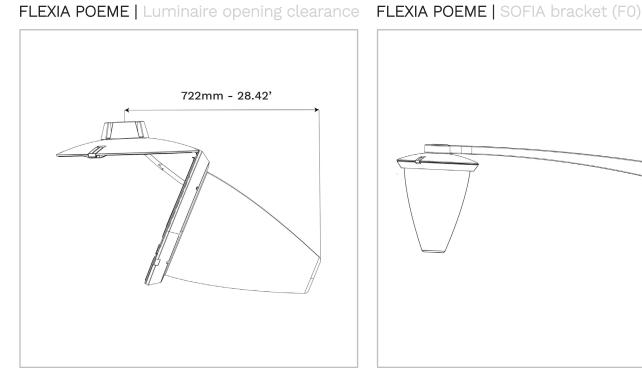


FLEXIA POEME | Suspended with fixed 1" gas female enclosing mounting (S3)

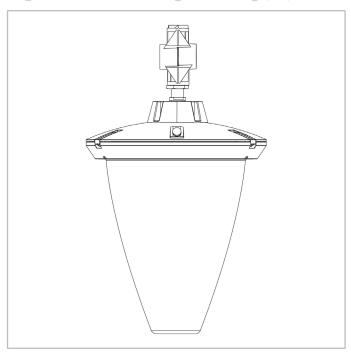


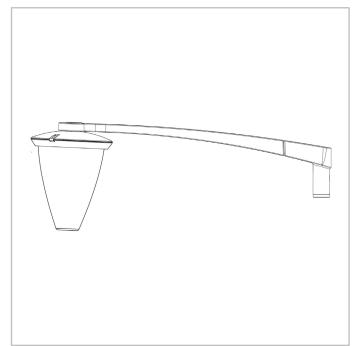
FLEXIA POEME | Suspended with knuckle joint 1" gas male mounting (S4)





FLEXIA POEME | Suspended and knuckle joint 1" gas female enclosing mounting (S5)





			V			V			V			inaire tput (lm) arm nite 22	out flux Wa Wh	ninaire Itput x (lm) 'arm /hite 727	Luminaire output flux (lm) Warm White 730		Luminaire output flux (lm) Warm White 830		out flux Nei Wh	Luminaire output flux (lm) Neutral White 740		Luminaire output flux (lm) FlexiWhite 730		Luminaire output flux (lm) FlexiWhite 722		inaire tput (lm) White 26	Power consumption (W)	Luminaire efficacy (lm/W)	
uminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry																
	10	200	500	700	600	900	700	900	600	900	700	1000	-	-	-	-	-	-	7.8	128	LENSO FLEX"4								
	10	300	800	1000	1000	1300	1100	1400	1000	1300	1100	1400	-	-	-	-	-	-	10.8	130	LENSO FLEX"4								
	10	300	-	-	-	-	-	-	-	-	-	-	1100	1300	900	1000	1000	1200	10.5	124	LENSO FLEX"4								
	10	310	800	1000	1000	1300	1100	1400	1000	1300	1100	1500	-	-	-	-	-	-	11.1	135	LENSO FLEX"4								
	10	350	900	1200	1100	1500	1200	1600	1100	1500	1200	1700	-	-	-	-	-	-	12.3	138	LENSO FLEX"4								
	10	400	1000	1300	1300	1700	1400	1800	1300	1700	1400	1900	-	-	-	-	-	-	13.8	138	LENSO FLEX"4								
EME MIDI	10	400	-	-	-	-	-	-	-	-	-	-	1400	1700	1200	1400	1300	1500	13.6	125	LENSO FLEX"4								
	10	500	1200	1600	1500	2000	1700	2200	1500	2000	1700	2300	-	-	-	-	-	-	17	135	LENSO FLEX"4								
	10	500	-	-	-	-	-	-	-	-	-	-	1800	2000	1500	1700	1600	1900	17.1	117	LENSO FLEX"4								
	10	600	1400	1900	1800	2400	1900	2600	1800	2400	2000	2700	-	-	-	-	-	-	20.5	132	LENSO FLEX*4								
FLEXIA POEME MIDI	10	600	-	-	-	-	-	-	-	-	-	-	2000	2300	1700	1900	1900	2200	20.4	113	LENSO FLEX"4								
	10	650	1500	2000	1900	2500	2100	2700	1900	2500	2100	2800	-	-	-	-	-	-	22.2	126	LENSO FLEX"4								
	10	700	-	-	-	-	-	-	-	-	-	-	2400	2700	2000	2300	2200	2500	23.7	114	LENSO FLEX"4								
	10	730	-	-	-	-	-	-	-	-	-	-	2400	2700	1900	2200	2200	2500	24.7	109	LENSO FLEX**4								
	20	200	1100	1400	1300	1800	1500	1900	1300	1800	1500	2000	-	-	-	-	-	-	13.8	145	LENSO FLEX**4								
	20	200	-	-	-	-	-	-	-	-	-	-	1500	1700	1300	1400	1400	1600	13.3	128	LENSO FLEX**4								
	20	300	1600	2100	2000	2600	2200	2900	2000	2600	2200	2900	-	-	-	-	-	-	19.8	146	LENSO FLEX**4								
	20	300	-	-	-	-	-	-	-	-	-	-	2200	2600	1900	2100	2100	2400	19.3	135	LENSO FLEX"4								
	20	400	2000	2700	2600	3400	2800	3700	2600	3400	2900	3800	-	-	-	-	-	-	25.9	147	LENSO FLEX" 4								
	20	400	-	-	-	-	-	-	-	-	-	-	2900	3400	2400	2800	2700	3100	25.5	133	LENSO FLEX"4								

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

			out flux Wa	inaire put (lm) arm e 722	out flux Wa	inaire tput (lm) arm te 727	out flux Wa	inaire put (lm) arm e 730	out flux Wa	inaire tput (lm) arm e 830	out flux Net	inaire tput (lm) utral e 740	out flux Flexi	inaire tput (lm) White 30	out flux Flexi	inaire cput (lm) White 22	out flux Flexi	naire put (lm) White 26	Power consumption (W)	Luminaire efficacy (lm/W)	
Luminaire	Number of LEDs	Current (mA)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		Up to	Photometry
	20	500	2500	3300	3100	4100	3400	4500	3100	4100	3500	4600	-	-	-	-	-	-	32.3	142	LENSO FLEX"4
	20	500	-	-	-	-	-	-	-	-	-	-	3600	4100	3000	3400	3300	3800	31.9	129	LENSO FLEX"4
	20	600	2900	3800	3600	4800	3900	5200	3600	4800	4100	5400	-	-	-	-	-	-	38.9	139	LENSO FLEX"4
	20	600	-	-	-	-	-	-	-	-	-	-	4200	4800	3500	4000	3900	4500	38.2	126	LENSO FLEX" 4
	20	700	3200	4300	4100	5400	4400	5900	4100	5400	4600	6000	-	-	-	-	-	-	45.5	132	LENSO FLEX"4
	20	700	-	-	-	-	-	-	-	-	-	-	4800	5500	4000	4600	4400	5100	44	125	LENSO FLEX"4
EME MIDI	20	800	3600	4700	4500	5900	4900	6500	4500	5900	5000	6600	-	-	-	-	-	-	52.5	126	LENSO FLEX"4
	20	800	-	-	-	-	-	-	-	-	-	-	5300	6100	4400	5100	5000	5700	50.5	121	LENSO FLEX" 4
	20	900	3900	5100	4800	6400	5300	7000	4800	6400	5500	7200	-	-	-	-	-	-	59.5	121	LENSO FLEX"4
FLEXIA POEME MIDI	20	900	-	-	-	-	-	-	-	-	-	-	5800	6700	4900	5600	5400	6200	57	118	LENSO FLEX"4
ш	20	1000	4100	5400	5200	6800	5700	7500	5200	6800	5800	7700	-	-	-	-	-	-	66.5	116	LENSO FLEX"4
	20	1000	-	-	-	-	-	-	-	-	-	-	6300	7300	5300	6000	5900	6800	64	114	LENSO FLEX" 4
	40	200	2200	2900	2700	3600	3000	3900	2700	3600	3100	4100	-	-	-	-	-	-	25.9	158	LENSO FLEX" 4
	40	300	3200	4200	4000	5300	4400	5800	4000	5300	4500	5900	-	-	-	-	-	-	37.8	156	LENSO FLEX" 4
	40	350	3600	4800	4600	6000	5000	6600	4600	6000	5100	6800	-	-	-	-	-	-	44	155	LENSO FLEX"4
	40	500	5000	6500	6200	8200	6800	9000	6200	8200	7000	9200	-	-	-	-	-	-	62	148	LENSO FLEX"4
	40	600	5800	7600	7200	9600	7900	10500	7200	9600	8200	10800	-	-	-	-	-	-	76	142	LENSO FLEX"4
	40	700	6500	8600	8200	10800	8900	11800	8200	10800	9200	12100	-	-	-	-	-	-	88	138	LENSO FLEX"4

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

