

INOA LED



Designer : Michel Tortel



Elegance, comfort, and creation of atmosphere

The INOA LED luminaire is an elegant lighting LED solution enabling significant energy savings compared to equivalent luminaires fitted with traditional light sources.

It is available with a wide range of design options. Choose a flat glass version to get the most out of its photometric performance, or a striated deep protector to create a comfortable elegant atmosphere. All the INOA LED versions may be combined with a small or large canopy.

The discreet elegance of the INOA LED luminaire makes it an ideal choice for enhancing any landscape.



IP 66

IK 08



CE



URBAN & RESIDENTIAL STREETS



BRIDGES



BIKE & PEDESTRIAN PATHS



RAILWAY STATIONS & METROS



CAR PARKS



SQUARES & PEDESTRIAN AREAS

Concept

The INOA LED luminaire is composed of high-quality materials. The base section, bracket arms, top cover and cover plug are made of die-cast aluminum. To offer high impact resistance, polycarbonate and acrylic were chosen for the protectors and diffusers.

The INOA LED luminaire is available in a wide range of versions. The diffuser bowl can be equipped with an additional clear or striated protector. Both by day and at night, this second protector surrounds the luminaire with subtle charm.

At night, this creates a touch of magic as when people approach the luminaire, the drop of light in the protector seems to move under the reflections.

The INOA LED luminaire offers several light distributions to meet the requirements for lighting parks and squares as well as urban and residential areas. It is equipped with Schröder LensoFlex2 photometric engines, delivering high visual performance while making significant energy savings.

INOA LED is available with slip-over mounting onto a Ø60mm spigot. It can be combined with three different types of lighting column and a painted aluminium wall bracket.

The discreet elegance of the INOA LED luminaire makes it an ideal choice for enhancing any landscape.



INOA LED is available with various options.



Thanks to its state-of-the-art technology, the INOA LED luminaire enables significant energy savings.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- High visual comfort
- Low power consumption
- Multiple configurations
- Magic of light due to protector
- FutureProof : smart upgradability
- Surge protection 10kV



Post-top mounting on a Ø60mm spigot.



For easy installation, INOA LED is delivered with a pre-fitted cable.



LensoFlex®2

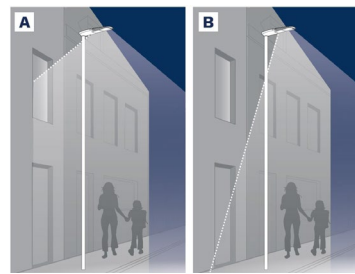
LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light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



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.



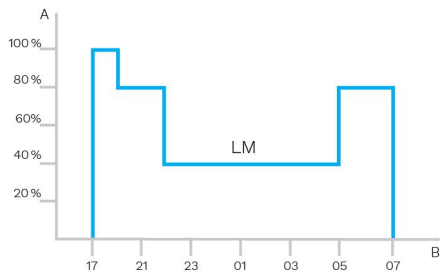
A. Without Back Light control | B. With Back Light control



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



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.



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.

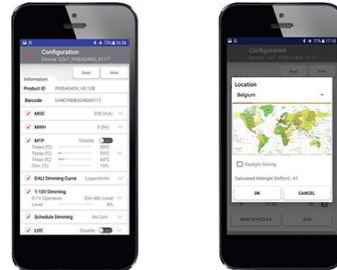
Quick and easy pairing

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.



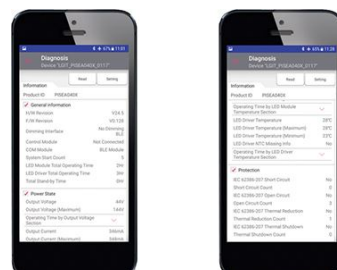
Manual dimming control

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 6m 13' to 20'
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, d, e, f
Testing standard	LM 80 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass Polycarbonate PMMA
Housing finish	Polyester powder coating
Tightness level	IP 66
Impact resistance	IK 08
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	By loosening screws on the top cover

ELECTRICAL INFORMATION

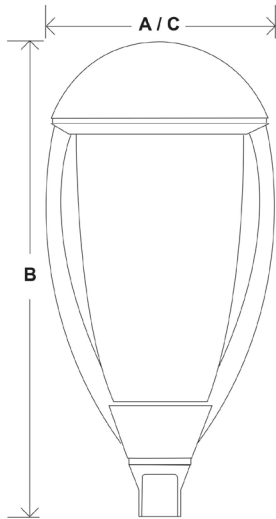
Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V – 50-60Hz
Surge protection options (kV)	10
Control protocol(s)	Bluetooth, 1-10V, DALI
Control options	AmpDim, Bi-power, Custom dimming profile, Remote management
Associated control system(s)	Sirius BLE
Sensor	PIR (optional)

OPTICAL INFORMATION

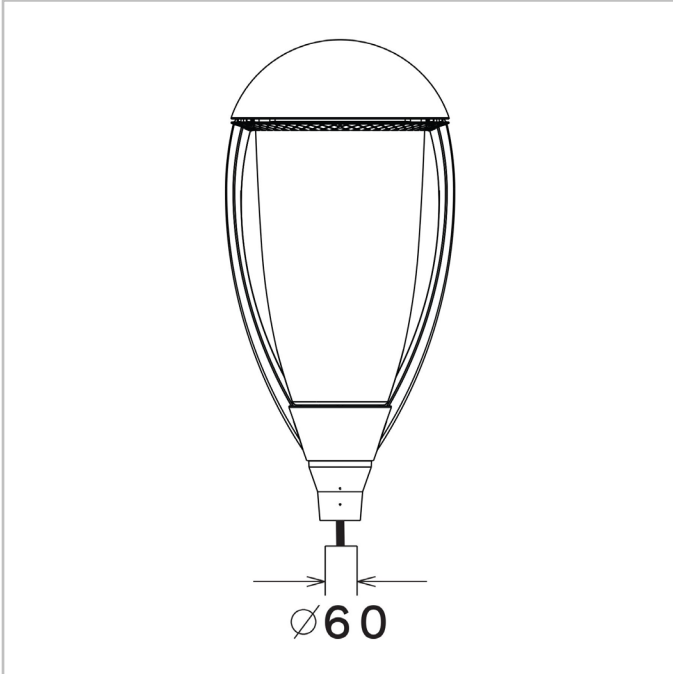
LED colour temperature	2700K (Warm White 727)
	3000K (Warm White 730)
	3000K (Warm White 830)
	4000K (Neutral White 740)
Colour rendering index (CRI)	>70 (Warm White 727)
	>70 (Warm White 730)
	>80 (Warm White 830)
	>70 (Neutral White 740)

DIMENSIONS AND MOUNTING

AxBxC (mm inch)	431x903x431 17.0x35.6x17.0
Weight (kg lbs)	15 33.0
Aerodynamic resistance (CxS)	0.23
Mounting possibilities	Side-entry slip-over – Ø60mm



INOA LED | Post-top mounting on a Ø60mm spigot – 6xM6 screws





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			
INOA LED	16	200	700	1200	800	1300	700	1200	800	1400	10.9	128	
	16	300	1100	1700	1200	1900	1100	1700	1300	2000	15.6	128	
	16	400	1400	2200	1600	2500	1400	2200	1600	2600	20.6	126	
	16	500	1700	2700	1900	3000	1700	2700	1900	3100	25.8	120	
	16	600	1900	3000	2100	3400	1900	3000	2200	3500	31	113	
	16	700	2100	3300	2400	3700	2100	3300	2400	3900	35.9	109	
	24	200	1100	1800	1200	2000	1100	1800	1300	2000	15.8	127	
	24	300	1600	2600	1800	2900	1600	2600	1900	3000	23	130	
	24	400	2100	3400	2400	3700	2100	3400	2500	3900	30.4	128	
	24	500	2500	3900	2800	4400	2500	3900	2900	4500	38.1	118	
	24	590	2900	4500	3200	5000	2900	4500	3300	5200	44.5	117	
	24	600	2900	4600	3200	5100	2900	4600	3300	5300	45	118	
	24	700	3200	5000	3600	5600	3200	5000	3700	5800	53	109	
	32	200	1500	2400	1700	2600	1500	2400	1700	2700	20.5	132	
	32	300	2200	3500	2500	3900	2200	3500	2600	4000	29.8	134	
	32	400	2900	4500	3200	5000	2900	4500	3300	5200	39.5	132	
	32	450	3100	4900	3500	5500	3100	4900	3600	5700	44.5	128	
	32	500	3400	5400	3800	6000	3400	5400	3900	6200	49	127	
	32	600	3900	6100	4300	6800	3900	6100	4500	7000	59.5	118	
	32	700	4300	6700	4800	7500	4300	6700	4900	7800	69.5	112	
48	200	2300	3600	2500	4000	2300	3600	2600	4100	30.1	136		
48	300	3300	5300	3700	5900	3300	5300	3900	6100	44	139		
48	400	4300	6800	4800	7500	4300	6800	5000	7800	58.5	133		
48	500	5100	8100	5700	9000	5100	8100	5900	9300	74	126		

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

