

Valentino LED

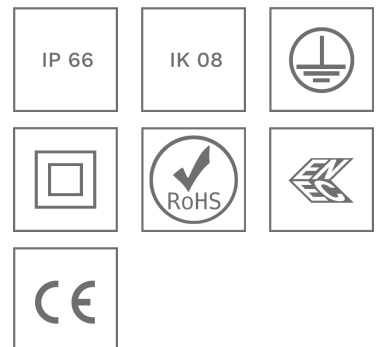


Preserve your heritage with state-of-the-art efficiency

Under its classical and timeless exterior, the Valentino LED luminaire incorporates cutting-edge LED technology.

It combines the energy efficiency of LEDs with the photometric performance of the LensoFlex®2 concept developed by Schröder.

The Valentino LED luminaire is available in numerous configurations to light urban roads, streets, squares, parks and car parks. It is a stylish tool for efficient lighting and a source of well-being and safety in the public space.



Concept

With an aluminium body, Valentino LED benefits from high-quality recyclable materials.

The robust materials used for this traditional lantern, the high IP 66 tightness level of the optical compartment and an LED photometric engine built to last, ensure a long life-cycle and very low maintenance.

Valentino LED is available in four versions: with a flat glass protector or with a polycarbonate protector (clear, structured or opal).

Equipped with the performing LensoFlex®2 LED engine, the Valentino LED luminaire offers high performance with energy savings that can exceed 75% compared to luminaires fitted with traditional light sources. This efficiency lowers its payback time and contributes to a responsible use of natural resources.

Valentino LED is designed for post-top mounting on a Ø60mm or ¾" gas spigot. A suspended version with a ¾" gas fixation is also available.



Easy access to the gear compartment for maintenance.



Valentino LED can be delivered with a pre-fitted electrical supply cable.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- Heritage design for maintaining ambiance and identity
- Low energy consumption
- LensoFlex®2 photometric engine with photometry adapted to various applications
- No light pollution: ULOR 0% in flat glass version
- Energy savings of up to 75% compared with traditional light sources
- Designed to incorporate Owllet control and sensor solutions



ULOR 0% for flat glass version.



Valentino LED is available for post-top or suspended mounting.



LensoFlex®2

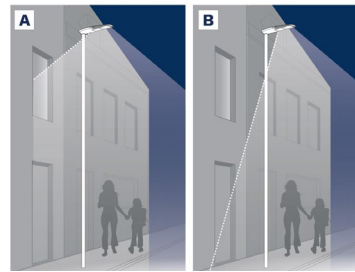
LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. The number of LEDs in combination with the driving current determines the intensity level of the light 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 and LensoFlex®4 modules can be equipped with a Back Light control system (figure B). This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.



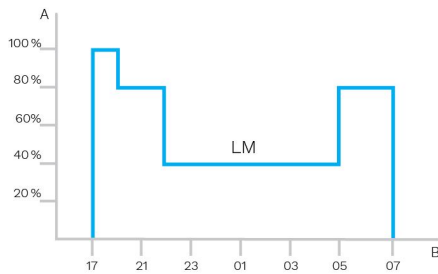
A. Without Back Light control | B. With Back Light control



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.

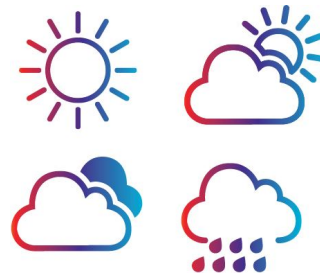


A. Performance | B. Time



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

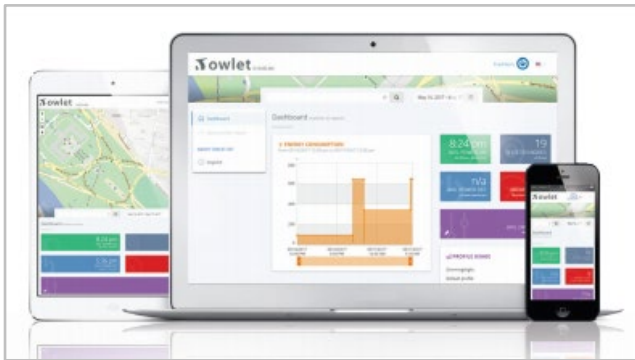
In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

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.



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.

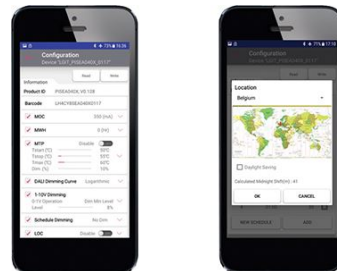
Quick and easy pairing

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.



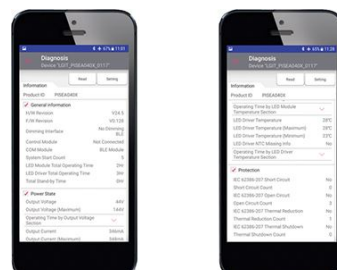
Manual dimming control

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	3m to 5m 10' to 16'
FutureProof	Easy replacement of the photometric engine and electronic assembly
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 Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 08
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	Direct access to the gear compartment by loosening screws on the top cover

· The gear compartment is IP 55.

OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +50 °C / -22 °F up to 122 °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 61000-3-3 / 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)

OPTICAL INFORMATION

LED colour temperature	2200K (Warm White 822) 2700K (Warm White 727) 3000K (Warm White 730) 3000K (Warm White 830) 4000K (Neutral White 740)
Colour rendering index (CRI)	>80 (Warm White 822) >70 (Warm White 727) >70 (Warm White 730) >80 (Warm White 830) >70 (Neutral White 740)
Upward Light Output Ratio (ULOR)	0%

· ULOR 0%: only for flat glass version.

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L90
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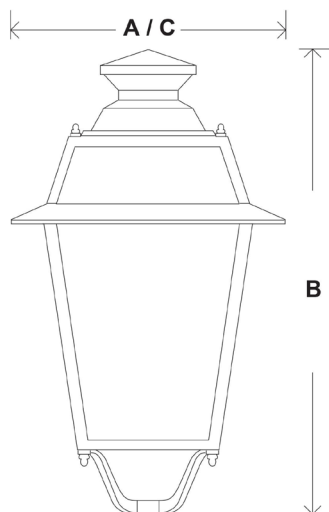
DIMENSIONS AND MOUNTING

AxBxC (mm | inch) 448x760x448 | 17.6x29.9x17.6

Weight (kg | lbs) 7 | 15.4

Aerodynamic resistance (CxS) 0.13

Mounting possibilities
Side-entry slip-over – Ø60mm
Post-top ¾" gas male
Suspended ¾" gas male
Suspended ¾" gas female





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 822		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	Min	Max		
VALENTINO LED	16	200	800	1100	900	1200	600	900	800	1100	900	1300	11.1	11.1	117	
	16	300	1200	1600	1300	1800	900	1300	1200	1600	1400	1800	15.8	15.8	114	
	16	400	1500	2000	1700	2300	1200	1600	1500	2000	1800	2400	20.8	20.8	115	
	16	500	1800	2400	2000	2700	1400	1900	1800	2400	2100	2800	26.1	26.1	107	
	16	600	2100	2800	2400	3100	1700	2200	2100	2800	2400	3200	31.2	31.2	103	
	16	700	2300	3100	2600	3400	1800	2400	2300	3100	2700	3600	36.1	36.1	100	
	16	850	2600	3400	2900	3800	2000	2700	2600	3400	3000	3900	44	44	89	
	24	200	1200	1700	1400	1800	1000	1300	1200	1700	1400	1900	15.4	15.4	123	
	24	300	1800	2400	2000	2700	1400	1900	1800	2400	2100	2800	22.5	22.5	124	
	24	400	2300	3100	2600	3400	1800	2400	2300	3100	2700	3600	29.9	29.9	120	
	24	500	2700	3600	3100	4000	2200	2800	2700	3600	3200	4200	37.6	37.6	112	
	24	590	3200	4200	3500	4600	2500	3300	3200	4200	3600	4800	44.5	44.5	108	
	24	700	3500	4600	3900	5200	2800	3700	3500	4600	4100	5400	53.5	53.5	101	
	32	200	1700	2200	1900	2500	1300	1800	1700	2200	1900	2600	20	20	130	
	32	300	2500	3200	2700	3600	1900	2600	2500	3200	2800	3700	29.6	29.6	125	
	32	450	3500	4600	3900	5100	2700	3600	3500	4600	4000	5200	45.5	45.5	114	
	32	500	3700	4800	4100	5400	2900	3800	3700	4800	4200	5600	50	50	112	
	32	600	4300	5600	4800	6300	3400	4400	4300	5600	4900	6500	60	60	108	
	32	700	4700	6200	5300	6900	3700	4900	4700	6200	5400	7200	70	70	103	
	32	800	5100	6700	5700	7500	4000	5300	5100	6700	5900	7700	80	80	96	
48	200	2500	3400	2800	3700	2000	2700	2500	3400	2900	3900	28.9	28.9	135		
48	300	3700	4900	4100	5400	2900	3900	3700	4900	4300	5600	43	43	130		
48	400	4700	6200	5300	6900	3700	4900	4700	6200	5500	7200	57.5	57.5	125		
48	550	6100	8000	6800	8900	4800	6300	6100	8000	7000	9200	80	80	115		

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

