

VOLDUE



The most affordable yet efficient connected lighting solution for the creation of ambiance

The Voldue provides an affordable range of lighting solutions for creating ambiance. It combines a clean design and quality lighting while significantly reducing energy and maintenance costs.

Designed to light pedestrian and low-speed areas with superior efficacy, Voldue optimises the return on investment.

This modern and compact LED luminaire is available with various control solutions including motion detection and remote management.

Voldue is the perfect tool for towns and cities looking for quality lighting with a minimum investment to ensure a fast payback.

IP 66	IK 10	
	4/10kV 	CE
		



CONCEPT

The Voldue range combines the energy efficiency of LED technology with the photometric performance of the ProFlex™ concept developed by Schröder. The luminaire is composed of a two-piece housing made of painted die-cast aluminium. The protector in polycarbonate includes the lenses. Voldue is designed for post-top mounting on a 48-60mm diameter spigot.

Asymmetrical and symmetrical light distributions

The photometric versatility of the Voldue which provides both asymmetrical and symmetrical light distributions makes it the perfect tool for various lighting applications: pedestrian areas (parks, squares...), bike paths, residential streets and urban roads.

Various control options

Voldue proposes a broad range of control options: programmable drivers, photocell, remote management and motion detection features with a PIR sensor. The luminaires can be equipped with a Nema 7-pin socket and the LUCO-P7 or LUCO-P7 CM compatible with the Owlet IoT City Management System.



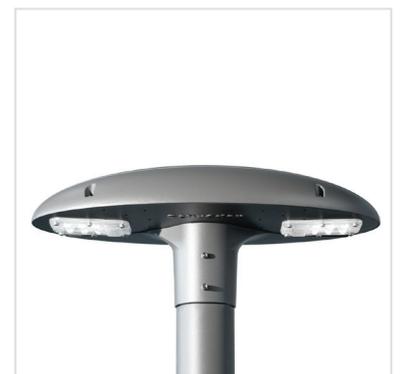
The direct integration of the lenses in the polycarbonate protector optimises the flux.



The ProFlex™ optical units are turned 90° for asymmetrical light distributions.



The 7-pin NEMA socket can be equipped with a shorting cap at delivery.



The luminaire is mounted on a Ø48-60mm spigot by tightening two M8 screws.

TYPES OF APPLICATION

- Square and pedestrian area
- Park
- Car park
- Residential street
- Bike path
- Urban road and street

KEY ADVANTAGES

- Cost-effective and efficient lighting solution for a fast return on investment
- ThermiX®: withstands high temperatures (Ta up to 45°C)
- Post-top mounting adapted to Ø48-60mm poles
- ProFlex™ photometric engines providing asymmetrical and symmetrical lighting distributions
- Supplied pre-wired to facilitate installation
- Designed to incorporate the Owlet range of control systems



ProFlex™

The ProFlex™ photometric engine integrates the lenses into a polycarbonate protector. This integration increases the output and reduces the reflection inside the optical unit.

The polycarbonate used for the ProFlex™ photometric engine offers essential characteristics such as high optical clarity for a superior light transmission, better impact resistance compared to glass and a long life span with UV-stabilisation treatment.

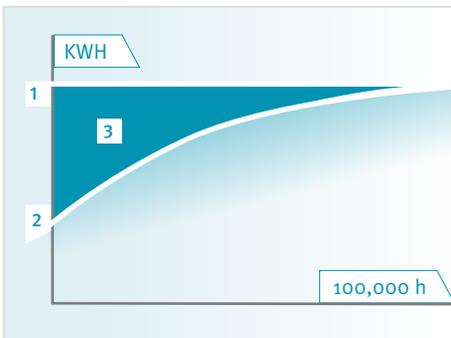
The ProFlex™ concept enables a compact design with a thin optical compartment. It provides extensive light distributions so that the spacing between the luminaires can be increased.





Constant Light Output (CLO)

This system compensates for the depreciation of luminous flux to avoid excess lighting at the beginning of the installation's service life. The luminous depreciation that takes place over time must be taken into account to ensure a predefined lighting level during the luminaire's useful life. Without a CLO feature, this simply means increasing the initial power upon installation in order to make up for luminous depreciation. By precisely controlling the luminous flux, one can control the energy needed to reach the required level - no more, and no less - throughout the luminaire's life.

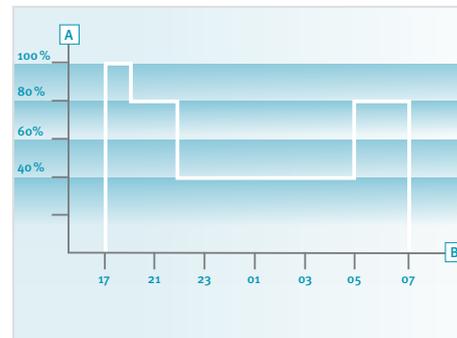


- 1. Standard lighting level
- 2. LED lighting consumption with CLO
- 3. Energy savings



Custom dimming profile

Intelligent luminaire drivers can be programmed in the factory with complex dimming profiles. Up to 5 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.

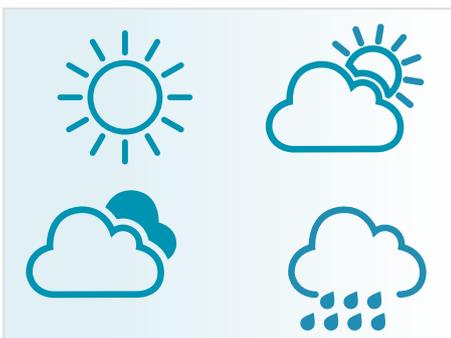


- A. Performance
- B. Time



Daylight sensor / photocell

The photocell or daylight sensor switches on the luminaire as soon the natural light falls to a certain level. It can be programmed to switch on during a storm or on a cloudy day (in critical areas) or only at night fall so as to provide safety and comfort in the public space.



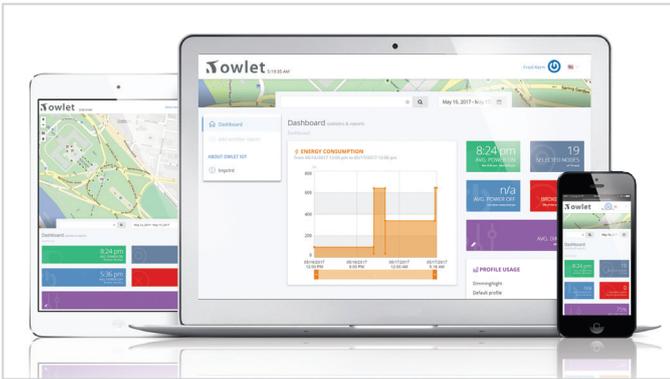
PIR sensor: motion detection

In places with little nocturnal activity, the 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%.



Plugging the LUCO P7 CM controller onto the 7-pin NEMA socket

ALL-IN-ONE

The LUCO P7 CM controller includes the most advanced features for an 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 an automatic detection of the luminaire features, the 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. Each user 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 between the luminaires for instant reactions on-site combined with a remote control system utilising the cloud to ensure smooth data transfer 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, the lighting scenarios can be easily adapted to cope with live events, thus 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 that maintenance is optimised.

When LED luminaires are switched on, the massive 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.



GENERAL INFORMATION

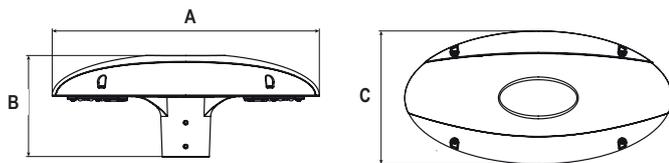
Recommended installation height	3.5m to 5m 11' to 16'
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-80 (all measurements in ISO17025 accredited laboratory)

HOUSING AND FINISH

Housing	High-pressure die-cast aluminium
Optic	Polycarbonate (ProFlex™)
Protector	Polycarbonate
Housing finish	Polyester powder coating
Colour	AKZO grey 900 sanded Any other RAL or AKZO colour upon request
Tightness level	IP 66
Impact resistance	IK 10
Vibration test	Compliant with modified IEC 68-2-6
Access for maintenance	By unscrewing 4 screws from the top cover

DIMENSIONS AND MOUNTING

AxBxC (mm inch)	501x192x251 19.7x7.5x9.9
Weight (kg lbs)	4 8.8
Aerodynamic resistance	0.084
Standard mounting	Post-top on a Ø48-60mm (1.8-2") with 80mm (3") long spigot



ELECTRICAL INFORMATION

Electrical class	EU class I or II
Nominal voltage	220-240V – 50-60Hz
Power factor	> 90% at full load
Surge protection	4kV (10kV optional)
Electromagnetic compatibility (EMC)	EN 61547 / EN 61000-4-2, -3, -4, -5, -6, -8, -11
Control options	No dimming, custom dimming, CLO, DALI or 0-10V
NEMA socket	7-pin (optional)
Sensor	PIR (optional)

OPTICAL INFORMATION

LEDs colour temperature	4000K (Neutral white) 3000K (Warm white)
Colour rendering index (CRI)	> 70 (NW) > 80 (WW)
Upward Light Output Ratio (ULOR)	0%

OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +45 °C (*) -22 °F up to 113 °F (*)
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(*) Depending on the luminaire configuration. For more details, please contact us.

LIFETIME OF THE LEDS @ TQ 25°C

For all configurations	100,000h – L80
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Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Neutral White (4000K) - CRI 70		Luminaire output flux (lm) Warm White (3000K) - CRI 80		Power consumption (W)		Luminaire efficacy (lm/W)	Photometry
			Min	Max	Min	Max	Min	Max	Up to	
VOLDUE	12	500	2100	2200	1900	2000	22	22	102	
	12	700	2800	2900	2500	2600	29	29	101	
	12	1000	3700	3800	3400	3500	42	42	92	

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

