

PILZEO



Schröder





Design: Achilles Design



## CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66 <sup>(*)</sup>
Electronic compartment tightness level:	IP 66 <sup>(*)</sup>
Impact resistance (polycarbonate):	IK 08 <sup>(**)</sup>
Aerodynamic resistance (CxS):	0.07m <sup>2</sup>
Nominal voltage:	230V - 50 Hz
Electrical class:	I or II <sup>(*)</sup>
Weight:	6.7kg

### Materials

Top cover:	Polycarbonate
Base and gear plate:	High-pressure die-cast aluminium
Protector:	Polycarbonate
Colour:	AKZO grey 900 sanded Any other RAL or AKZO colour upon request

(\*) according to IEC - EN 60598

(\*\*) according to IEC - EN 62262

## KEY ADVANTAGES

- Cost effective lighting solution for creation of ambience
- Elegant design for low height installation
- Right lighting through LensoFlex®2 offering high performance photometry, comfort and safety
- IP 66 tightness level for long lasting performance
- Supplied pre-wired to facilitate the installation
- Tool free access for maintenance
- FutureProof: tool free replacement of the photometric engine and electronic assembly
- Surge protection 10kV
- Designed to incorporate Owlet range of control solutions

## ELEGANT AND COST-EFFECTIVE SOLUTION WITH CUTTING-EDGE LED TECHNOLOGY

The post-top luminaire Pilzeo provides a new contemporary design for a well-known shape using state-of-the-art LED technology. Based on the proven LensoFlex®2 engine, the Pilzeo ensures photometric performance to provide safety and well-being in the public space.

The name Pilzeo refers directly to the 'Pilzleuchte' - literally 'mushroom luminaire' - a very popular type of lantern in German-speaking countries. This classical form has been refreshed to provide an aesthetic continuity while generating massive energy savings.

The Pilzeo luminaire is adapted to various urban landscapes such as residential areas, parks, squares, bicycle paths and historical urban centres.

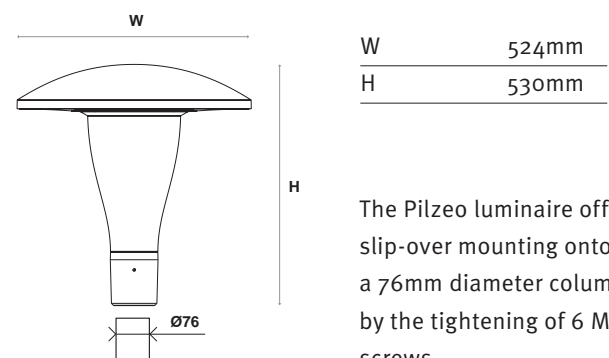
The base section and body of the luminaire are made of high-pressure die-cast aluminium while the protector and the top cover are composed of polycarbonate.

The design of the Pilzeo luminaire guarantees an IP 66 tightness level to maintain performance over time.

## OPTIONS

- Warm white (3000K)
- Back light control
- Owlet control solutions

## DIMENSIONS - MOUNTING



## BEST RETURN ON INVESTMENT FOR AMBIANCE LIGHTING

The Pilzeo offers the best savings to investment ratio in ambiance lighting thanks to its affordable pricing and high performance. This efficiency enables a lower payback time for a new scheme and provides benefits from the savings for many years afterwards.

As energy costs will keep increasing, the best energy is energy that is not used. Investing in the Pilzeo optimises the Total Cost of Ownership of your lighting installation.

## ENERGY SAVINGS OF UP TO 85%

The Pilzeo luminaire integrates the latest cutting edge technologies. The combination of LEDs, a driver with a constant flux system and dimming makes it possible to achieve energy savings that can reach up to 85% compared with luminaires equipped with traditional light sources.

With this very favourable energy balance, the Pilzeo luminaire contributes to the effective management of finances and to the responsible use of energy.

## LENSOFLEX®2

The Pilzeo luminaire is equipped with second generation LensoFlex®2 photometric engines that have been specifically developed for lighting spaces where the well-being and safety of people using the environments are essential.

This system is based upon the addition principle of photometric distribution. Each LED is associated with a specific lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

## BACK LIGHT CONTROL PREVENTING INTRUSIVE LIGHT

As an option, some versions of the Pilzeo can be equipped with a Back Light Control system.

Thanks to an additional control plate inside the luminaire body, light spill from the back of the luminaire is minimised to avoid intrusive light on buildings.

## TOOL FREE ACCESS

The top cover of the Pilzeo luminaire can be opened without any tools to facilitate maintenance operations. The Pilzeo is FutureProof. Both the LED unit and the electronic assembly can be replaced, without any tools, to take advantage of any future technological developments.



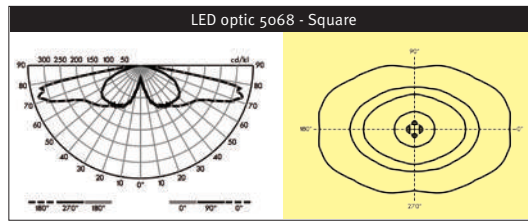
PHOTOMETRY

LENSOFLEX®2					Lifetime residual flux @ t <sub>a</sub> 25°C (**)
Number of LEDs	Neutral white (4000K)	8 LEDs	16 LEDs	24 LEDs	@100.000h
Current: 350mA	Nominal flux (lm)*	-	2400	3600	90%
	Power consumption (W)	-	19	28	
Current: 500mA	Nominal flux (lm)*	-	3100	4700	
	Power consumption (W)	-	26	39	
Current: 700mA	Nominal flux (lm)*	2000	4000	6100	80%
	Power consumption (W)	19	38	55	

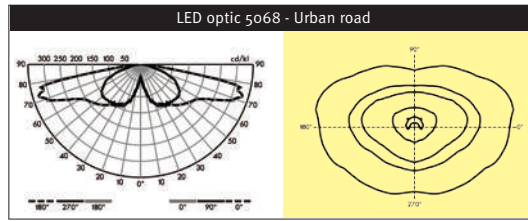
(\*) The nominal flux is an indicative LED flux @ t<sub>a</sub> 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. Nominal flux depends on the type of LED in use and likely to change in accordance with the continuous and rapid developments in LED technology. To follow the progress of the luminous efficiency of the LEDs used, please visit our website.

(\*\*) In accordance with IES LM-80 - TM-21.

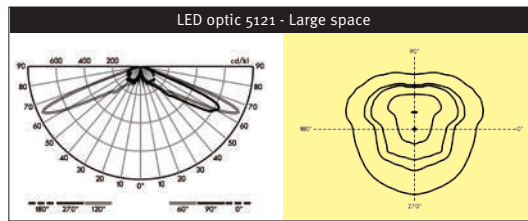
LIGHT DISTRIBUTIONS



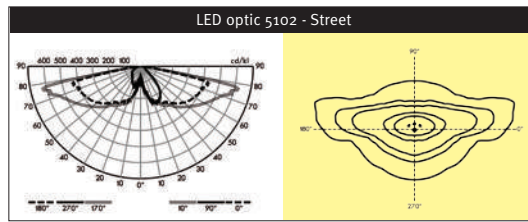
**Optic 5068 - square:**  
Designed to light squares, parks, car parks, etc.



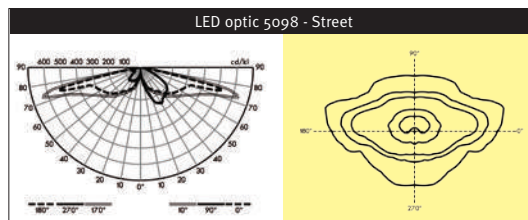
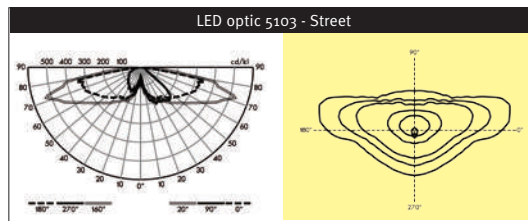
**Optic 5068 - urban road:**  
Perfectly suited to lighting both roads and pavements in residential areas and urban streets.



**Optic 5121 - large space:**  
Extensive light distribution for large areas to free urban spaces.



**Optics 5102-5103-5098 - street:**  
Designed for lighting narrow streets, footpaths, bike paths, residential streets, avenues...



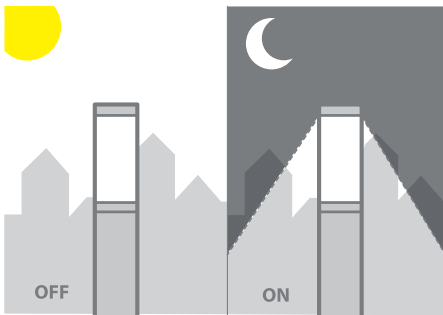
## SMART LIGHTING

The Pilzeo luminaire can integrate the Owlet range of control solutions to operate either in stand-alone mode, in an autonomous network or an interoperable network. Our range of solutions encompasses small areas to complete city networks in order to perfectly suit your requests and your targets in terms of savings.

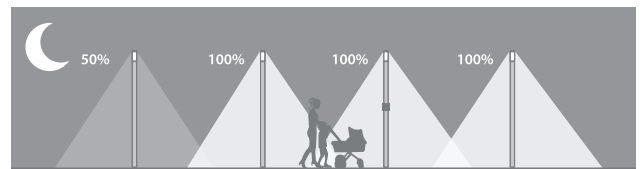
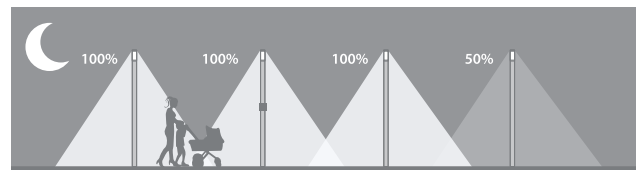
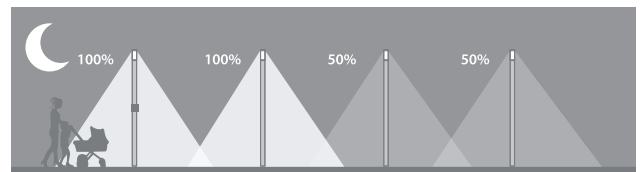
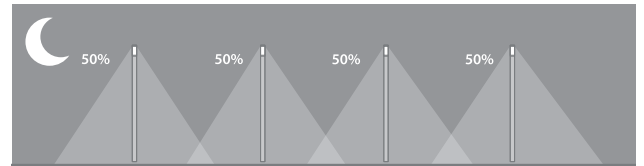


Thanks to dimming features, light-on-demand options and bi-directional communication, the Owlet solutions allow you to save energy, to provide light only when and where it is required and to optimise the operational management of your lighting scheme in terms of costs and services. The integrated Owlet solutions are key to monitor, to control, to meter and to manage a lighting network in the most efficient way.

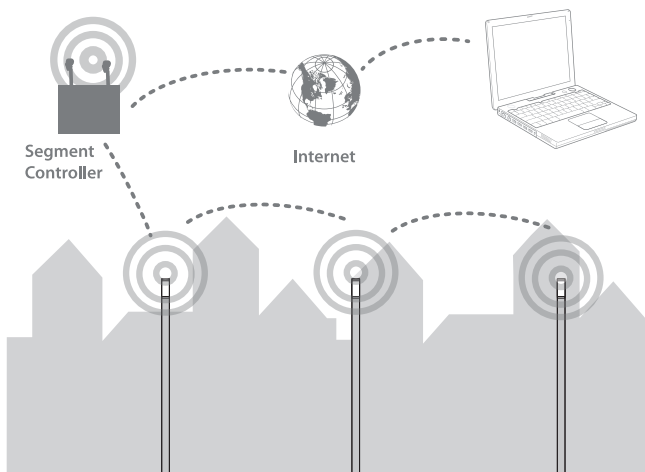
### PHOTOCELL (STAND-ALONE)



### MOTION DETECTION (AUTONOMOUS NETWORK)



### REMOTE MANAGEMENT SYSTEM (INTEROPERABLE NETWORK)





## A COMPLETE SOLUTION

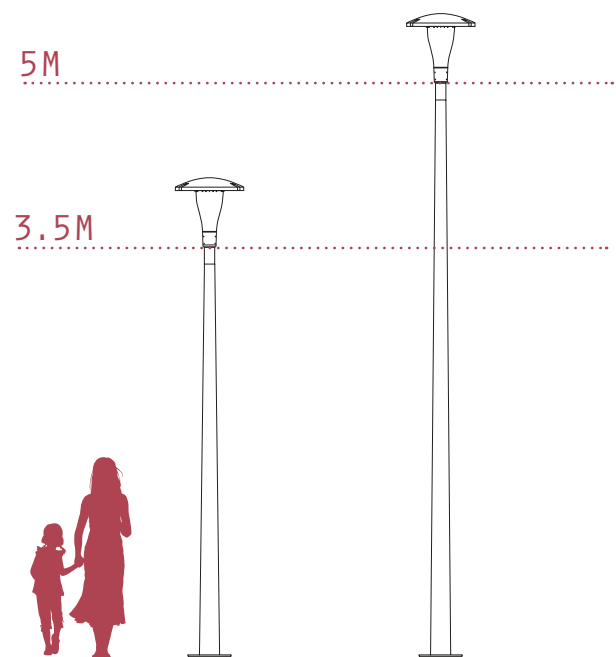
The Pilzeo luminaire can be aesthetically associated with the Andromede street furniture range including benches with or without a back, litter bins, bollards and signposts. The Andromede family offers many interesting features:

- Pure design and robustness to blend into the environment
- Exotic FSC wood and rounded edges for a moment of welcome relaxation
- Backrest version available with armrests (option)
- Quality finish: zinc-plated metal parts with a polyester powder coating
- Solid and recyclable aluminium litterbins with integrated ashtray (option), available in 50 or 70l versions
- Sturdy bollards made of steel, available in embedded and removable versions
- Lacquered steel signposts fitted with separated orientation arrows made of cast aluminium. Easy installation.



## QUALITY COLUMNS

Schröder's offer includes a wide range of columns to provide quality ensembles offering aesthetical consistency. Our columns are available in different designs and different heights to suit your project. More information upon request.



## CASE STUDY



Pilzeo  
LensoFlex®2 16 LEDs @350mA  
4000K neutral white  
19W  
MF = 0.85  
S5 - classified street according to CIE 115  
Installation height: 5m  
Spacing between columns: 30m

By replacing the old luminaires equipped with 125W mercury vapour lamps **the power consumption has been reduced by 85%.**

If the luminaires had been fitted with 70W high-pressure sodium lamps, the Pilzeo would still generate up to 73% energy savings.

For 4,000 hours of use per year, for 1km of residential street, this corresponds to a consumption of less than 6.9kWh/day and emissions lower than 3.2kg eq CO<sub>2</sub> according to the average European equivalent of 0.46kg eq CO<sub>2</sub>/kWh.

For a new installation, the luminous efficacy of the Pilzeo even allows the spacing between two luminaires to be increased from 30 to 42m while remaining within the S5 class standards.

Further energy savings can be achieved by adding dimming and other control features.





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