photinus Schréder
Experts in lightability™

LALUNA

Transforming outdoor spaces with sustainable elegance

KEY ADVANTAGES

- **Stylish, slim design with integrated solar panels**
- **High-efficiency solar panels positioned on each side of the column to maximise energy capture and prevent snow build-up**
- **Advanced energy management for continuous lighting even in bad weather**
- **In-ground LiFePo4 battery for thermal stability and theft protection**
- **Easy installation with modular, streamlined design for hassle-free setup**
- **Versatile applications: ideal for urban spaces, parks, car parks and heritage sites**

LALUNA is a self-sufficient, solar-powered LED lighting solution that redefines outdoor aesthetics with its sleek, columnar design. Unlike traditional solar luminaires, its photovoltaic panels are seamlessly integrated into an elegant structure, offering an innovative approach to urban lighting without compromising on visual appeal. This makes it ideal for public spaces, parks and car parks where aesthetics are as important as functionality.

Designed to excel in challenging conditions, LALUNA combines cutting-edge technology with timeless design. The high performance photovoltaic modules, strategically placed on each side of the column, capture energy efficiently even in snow or fog, while the vertical arrangement prevents snow accumulation for uninterrupted operation. The advanced energy management system ensures reliable performance over consecutive nights, regardless of weather conditions.

LALUNA is more than a lighting fixture - it is a symbol of innovation, sustainability and modern design. Perfect for spaces where elegance and functionality meet, it provides lighting that blends seamlessly with its surroundings, while offering peace of mind with minimal environmental impact.

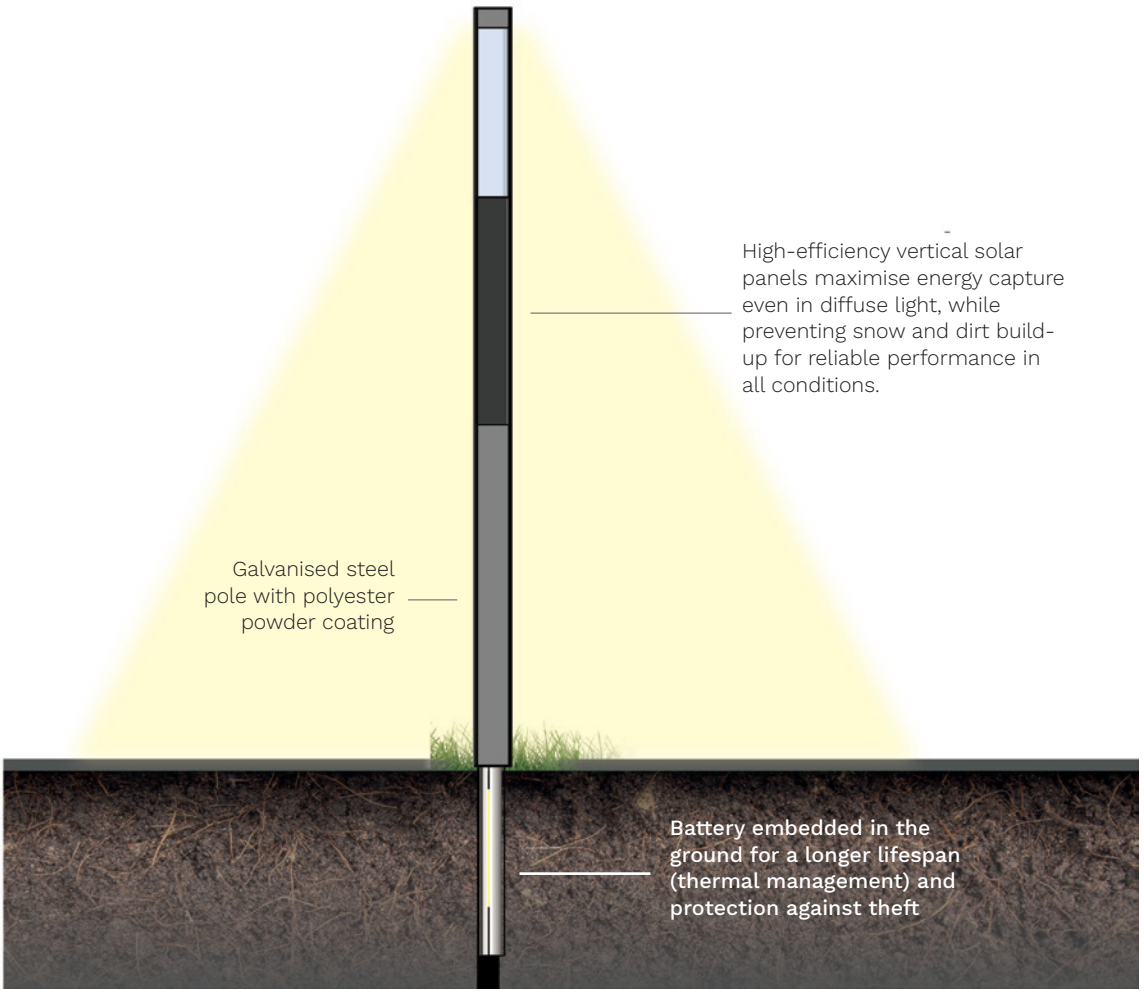
HIGHLIGHTS

Elegant square design, premium finish and a seamless, cable-free aesthetic.

The IPX8 LiFePo4 battery offers superior water resistance and reliable performance.

28 LEDs with versatile distributions and color temperatures for any project.

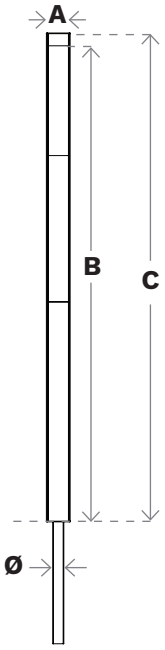
Toolless coded connectors for quick, plug-and-play installation.



RANGE

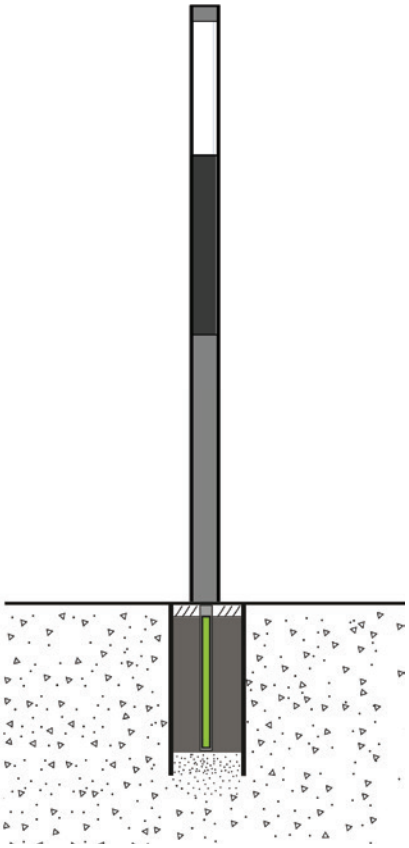
	PRODUCT	POLE HEIGHT	ENERGY HARVESTING	ENERGY STORAGE	LUMINAIRE
	LALUNA 150	4010mm | 13ft	4x 40W photovoltaic modules	LiFePo4 battery 512Wh or 1152Wh	1x 28-LED module
	LALUNA 300		8x 40W photovoltaic modules		

DIMENSIONS AND MOUNTING

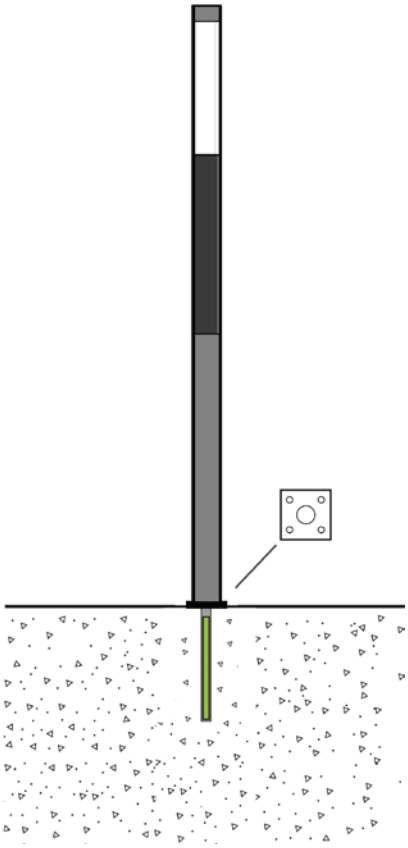


	A (mm | inch)	B (mm | ft)	C (mm | ft)	Ø (mm | inch)
LALUNA	195 | 7.7	3905 | 154	4010 | 158	90 | 3.5

PIPE FOUNDATION



ANCHOR BASE



CHARACTERISTICS

GENERAL	
CE Mark	Yes
Electrical class	Class III EU

MATERIALS	
Pole	Galvanised steel
Metal parts	Aluminium
Finish	Polyester powder coating
Standard colour	RAL 7016M anthracite grey
Impact resistance	IK 06

SOLAR PANELS	
Technology	Monocrystalline silicon cells
Solar cells quantity	32 cells
Frame	Anodised aluminium alloy
Glass	3.2mm (0.13 in) tempered glass
Power	40Wp
Electrical characteristics	VOC: 21.9V
	VMPP: 18.5V
	ISC: 2.26A
	IMPP: 2.16A
Lifetime expectancy	25 years

BATTERY	
Technology	LiFePo4
Voltage	12.8V
Capacity	512Wh (40Ah) or 1152Wh (90Ah)
Operating temperature	-10°C to 60°C | 14°F to 140°F
Autonomy	3 to 5 days
Tightness level	IPX8
Lifetime expectancy	>10 years

LED MODULE	
Optic/protector	PMMA/PC integrated
Tightness level	IP 67
LED colour temperature	3000K (Warm White 730)
Colour rendering index (CRI)	>70
Upward Light Output Ratio (ULOR)	0%
Upward Light Ratio (ULR)	0%
Lifetime of the LEDs @ Tq 25°C	100,000h - L80

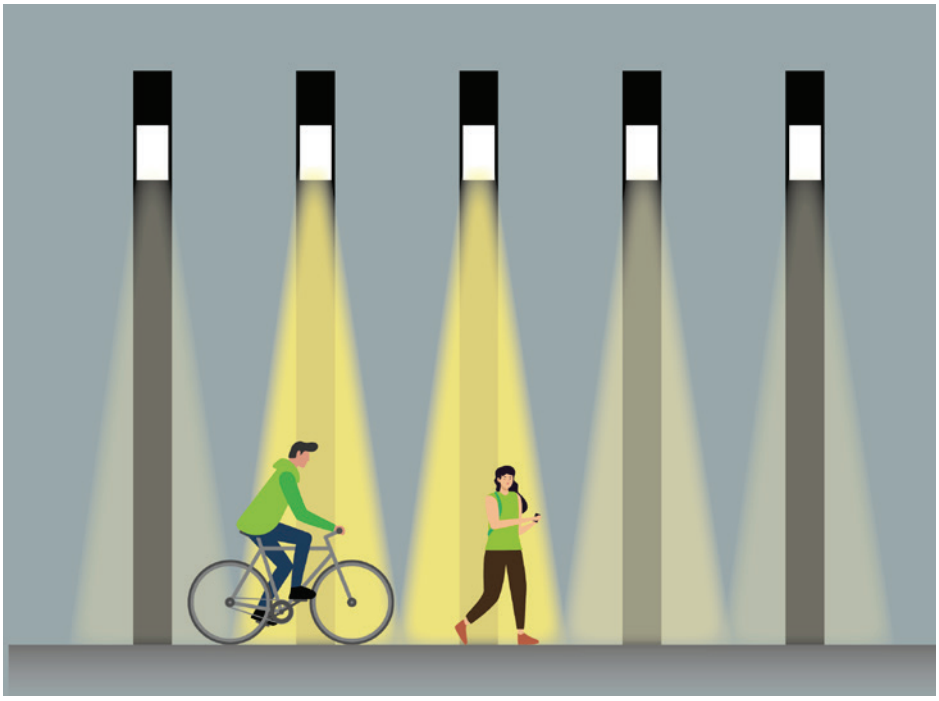
CONTROL	
PIR sensor	Optional
Microwave sensor	Optional
Zhaga socket	Optional

PERFORMANCE

		Luminaire output flux (lm) Warm White 730		Power consumption (W)		Luminaire efficacy (lm/W)
	Number of LEDs	Min	Max	Min	Max	Up to
LALUNA 150 / LALUNA 300	28	200	4200	2	31	166

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

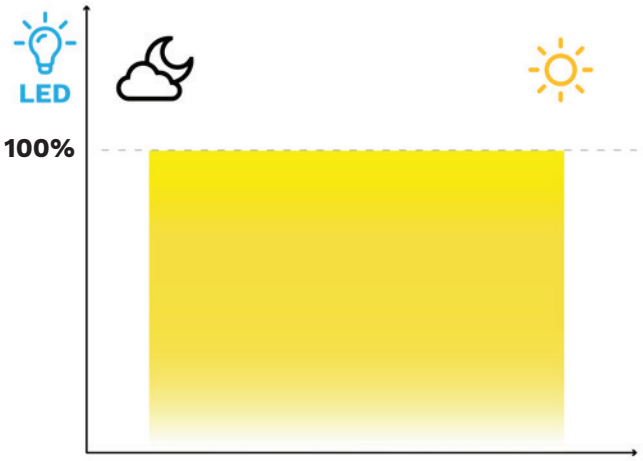
LIGHT ON DEMAND



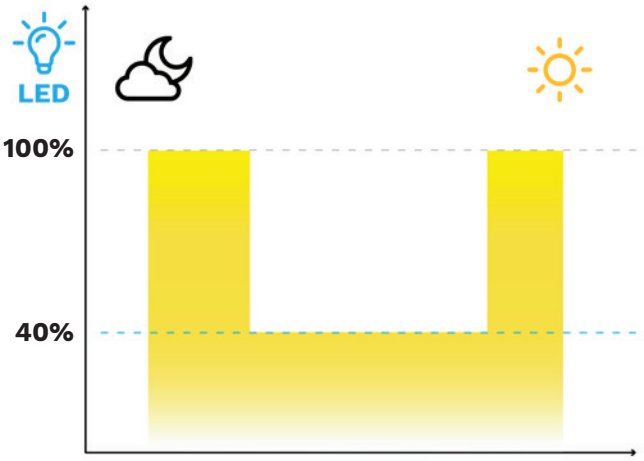
With advanced sensor technology and options for stand-alone operation or bollard-to-bollard local communication, light-on-demand features make a significant contribution to species conservation by actively reducing light pollution. These intelligent bollards provide full light intensity only when needed, ensuring optimum visibility and safety. By dimming the lights during periods of low activity, they prevent over-dimensioning and eliminate the need for additional solar panels and larger batteries, making them an efficient and sustainable solution.

STANDARD DIMMING PROFILES*

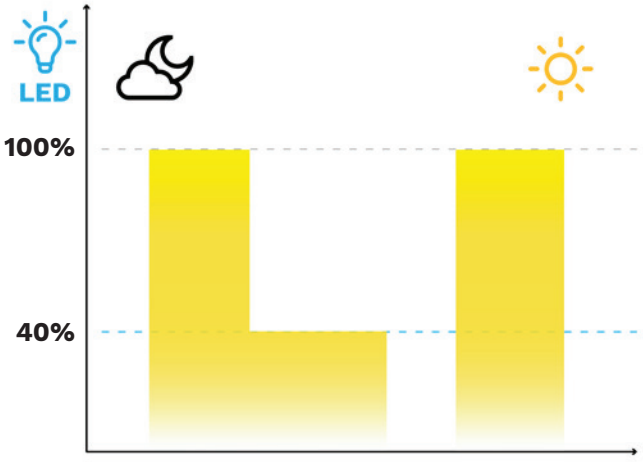
V3: all night 100%



V4: night dimming to 40%



V5: partial switch OFF



Light on demand (sensor)

*Customised dimming profiles are available as an option.

LIGHT DISTRIBUTIONS

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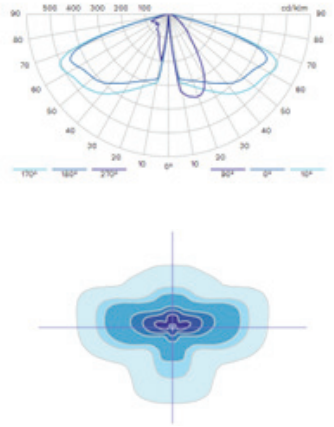

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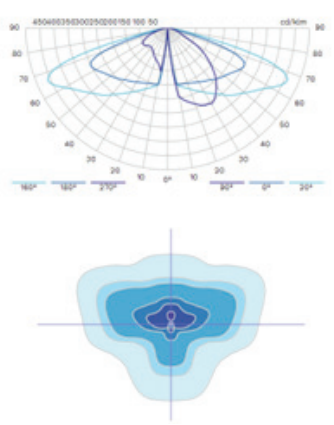

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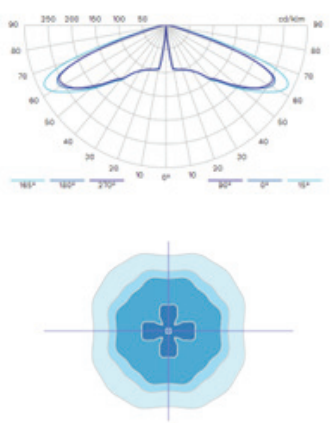

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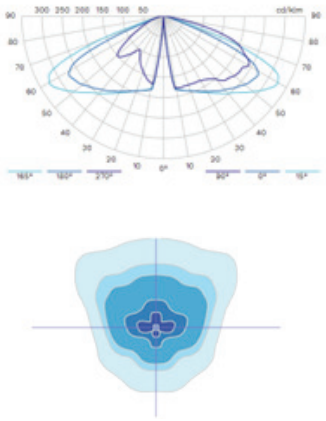

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