photinus Schréder
Experts in lightability™

SUNARIA

Compact all-in-one solar lighting, ready for new or existing infrastructure

KEY ADVANTAGES

- **Compact all-in-one design for fast and easy installation**
- **High solar panel efficiency and large battery capacity for extended autonomy**
- **Built-in PIR sensor to provide light only when needed**
- **Replaceable LiFePO4 battery for long life and easy servicing**
- **Universal pole mounting for seamless retrofit**
- **Preconfigured dimming profiles tailored to local conditions**
- **Advanced battery heat management to ensure long-term performance**
- **Recyclable materials for a lower environmental footprint**

SUNARIA is a cost effective solar lighting solution designed to bring reliable and sustainable light to everyday spaces with no need for grid connection or complex infrastructure.

Ideal for parks, playgrounds, cemeteries and low traffic streets, it installs easily on existing poles thanks to its compact and fully integrated design. The high performance monocrystalline solar panel and generous LiFePO4 battery ensure strong autonomy even during cloudy periods.

A built-in PIR sensor activates the light only when it is needed, reducing energy consumption and protecting the natural night environment.

With a replaceable battery, recyclable materials and advanced thermal management, SUNARIA delivers long lasting performance with minimal maintenance. It brings light where it matters, powered by the sun.

HIGHLIGHTS

Cable-free look with integrated design and clean lines.

Warm 2700K LED light for comfort and minimal disruption to nature.

High-efficiency 70Wp solar panel with monocrystalline silicon cells for maximum energy capture

Integrated PIR sensor for motion-activated lighting.

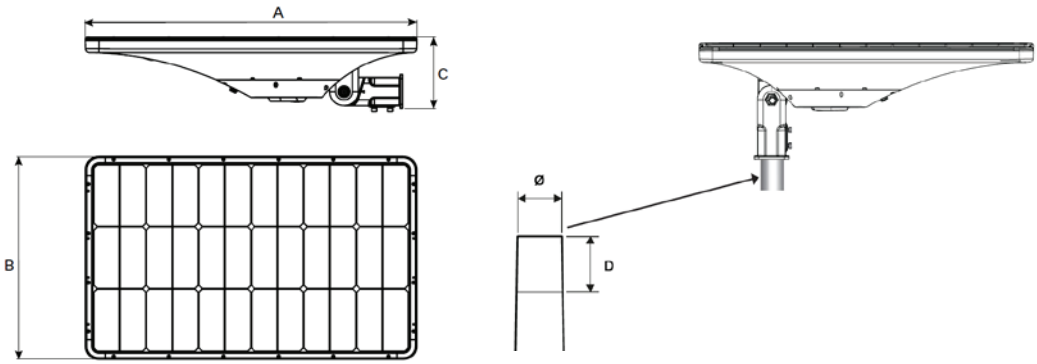
Versatile mounting: compatible with both post-top and side-entry installations.

Adjustable mounting with 5° steps and 95° tilt range for optimal orientation on site.

RANGE

	PRODUCT	ENERGY HARVESTING	ENERGY STORAGE	LUMINAIRE
	**SUNARIA 70**	70Wp photovoltaic panel	LiFePo4 battery 640Wh	60 LEDs

DIMENSIONS AND MOUNTING



	A	B	C	D	Ø	Weight	Aerodynamic resistance
	(mm | inch)	(mm | ft)	(mm | inch)	(mm | inch)	(mm | inch)	(kg | lbs)	(CxS)
SUNARIA 70	846 | 33	517 | 20	182 | 7	95 | 3.7	60 | 2.5	19.9 | 43.9	0.049

CHARACTERISTICS

GENERAL	
CE Mark	Yes
Electrical class	Class III EU

MATERIALS	
Housing	Aluminium
Finish	Polyester powder coating
Colour	RAL 9005 Jet black
Tightness level	IP65
Impact resistance	IK 06

SOLAR PANEL	
Technology	Monocrystalline silicon cells
Solar cells quantity	30 cells
Glass	3.2mm (0.13 in) tempered glass
Power	70Wp
Electrical characteristics	VOC: 21.5V
	VMPP: 18.5V
	ISC: 3.9A
	IMPP: 3.78A
Lifetime expectancy	25 years

BATTERY	
Technology	LiFePo4
Voltage	12.8V
Capacity	640Wh (50Ah)
Operating temperature	0°C to 45°C | 32°F to 113°F
Lifetime expectancy	>10 years

LED MODULE	
Optic/protector	PC integrated
LED colour temperature	2700K (Warm White 827)
Colour rendering index (CRI)	>80
Upward Light Output Ratio (ULOR)	0%
Upward Light Ratio (ULR)	0%
Lifetime of the LEDs @ Tq 25°C	100,000h

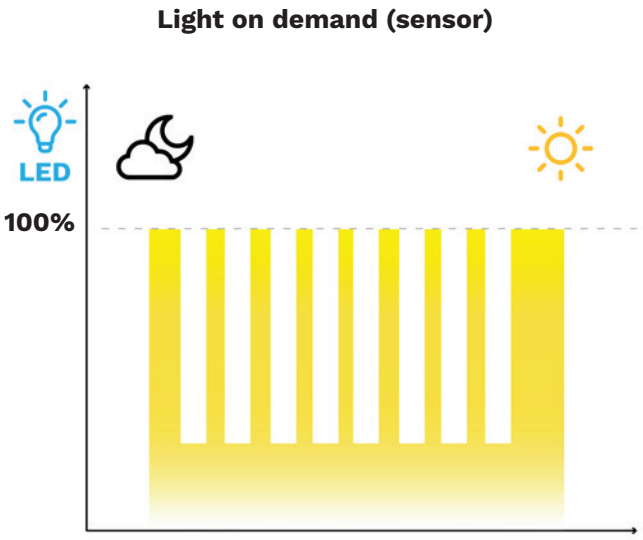
CONTROL	
PIR sensor	Standard

PERFORMANCE

		Luminaire output flux (lm) Warm White 827		Power consumption (W)		Luminaire efficacy (lm/W)
	Number of LEDs	Min	Max	Min	Max	Up to
SUNARIA 70	60	700	4900	3	24	247

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

STANDARD DIMMING PROFILE



LIGHT DISTRIBUTIONS

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