

Hybrilux

A New Standard in Solar Bollard Design

Integrated PIR sensor; PV panel protected by a transparent, UV-stabilized polycarbonate (PC) cover, IK10 impact-rated.



Up to
170 lm/W



4W



IP66



IK10



3 CCT
selectable



0°C to + 50°C



Built-in
PIR Sensor



Mono-crystalline
Solar Panel



Ternary Lithium
Battery



SLB10-SOLAR PATHSTAR



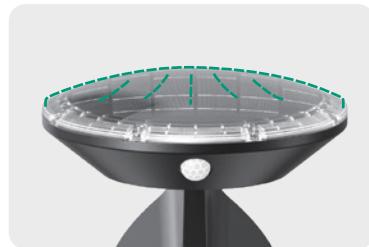


Architecturally Refined Design

Engineered for independence, the system operates entirely off-grid with zero carbon emissions, reducing both installation and long-term operational costs.

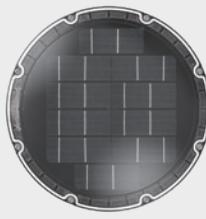
Polycarbonate Cover

UV-resistant and IK10-rated for maximum solar panel protection.



Mono-crystalline Solar Panel

22% high conversion rate



Built-in PIR Sensor

Designed with an integrated PIR system that optimizes energy use, enabling intelligent operation and longer runtime.



Optic Lens

Features professional lighting distribution engineered for wide, consistent coverage and superior visual comfort.



Slim Bollard

Offered in two height options: 21-in. and 42-in. — to suit a variety of lighting applications.



Mounting kit

With anchor bolts for quick installation



IK10-Rated for Maximum Vandal Resistance

The SLB10 PathStar features a high-strength polycarbonate cover engineered to withstand impact energy up to 10 joules. Its durable top housing resists heavy blows, impacts, and damage, ensuring long-term reliability even in high-traffic public environments.

Ideal for parks, plazas, pathways, and streets, the **SLB10** PathStar combines rugged durability with refined design – a perfect balance of strength and style.



3 CCT Selectable – Flexible Color Temperature Options for Any Environment

With a simple long press of the switch, the fixture offers three selectable color temperatures, allowing seamless adaptation to diverse applications.



Press and hold for 3s to turn on the light to 3000K



Press and hold for 3s to switch to 5000K



Press and hold for 3s to switch to 4000K



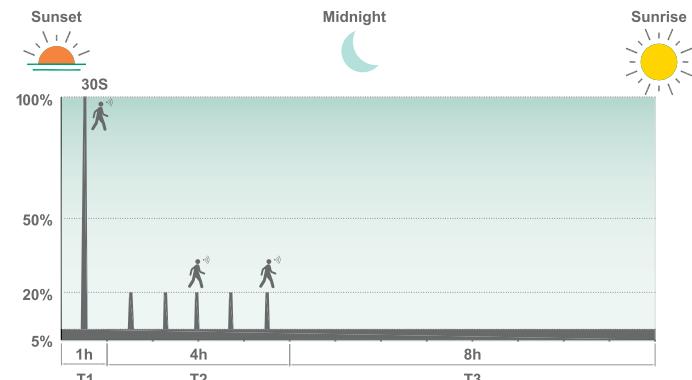
Press and hold for 3s to turn off the light

Intelligent Control System – Operating Modes

It is recommended to use the factory default settings, which automatically adjust power output based on PIR sensor activity and time intervals to ensure long-term, stable lighting performance.

For customized applications, intelligent control settings can be pre-programmed during manufacturing to meet specific project requirements.

Default Working mode (intelligent Mode)		Time 1	Time 2	Time 3
	Working hours	1h	4h	8h
	Not detected	5%	5%	5%
	Detected	100%	20%	5%
	Light up for 30 seconds when detected			



Life Time of LED @Ta=25°C

L90	80,000hrs
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L80	169,000hrs
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L70	271,000hrs
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Electronic Configuration:



Battery Capacity: 19.2Wh



Solar Panel Wattage: 4W



Charging Time: >5hrs

Fully Charged Operation Time:



Full Power Operation: 4.5hrs



Intelligent Mode Operation: 3 days

Applications

Featuring a sleek architectural design, the SLB10 Solar Pathstar delivers elegant illumination for small outdoor environments such as courtyards, gardens, and pathways.





Electrical Information	
Model No.	SLB10-004
Power Consumption ($\pm 20\%$)	4W
Battery	Ternary lithium battery
Battery Capacity	19.2Wh
Solar Panels	Mono-Crystalline solar panel
Solar Panels Wattage	4.5W
Charging Time	>5 Hr
Operating Time	5 hours of full power operation on a full charge, Intelligent mode: 3 days
Solar Charge Controller	PWM
Control	PIR induction

*The tolerance for power is $\pm 5\%$.

Optic Information	
LED Type	LED 2835
Luminous Flux ($\pm 10\%$)	680
Efficacy (4000K Ra80)	170
Correlated Color Temperature	4000K (3000K, 5000K optional)
Color Rendering Index	Ra70 (Ra80 optional)
Beam Angle	U02870 (Type V)
UGR level	NA

*The tolerance for luminous flux is $\pm 10\%$.

Dimensions and Mount	
Product Dimension	0.5m: $\Phi 230 \times 545\text{mm}$ ($\Phi 9.06" \times 21.45"$) 1.0m: $\Phi 230 \times 1045\text{mm}$ ($\Phi 9.06" \times 41.1"$)
Luminaire Net Weight ($\pm 0.3\text{kg}/\pm 0.66\text{Lbs}$)	0.5m: 3.5 kg (7.71Lbs) 1.0m: 5.2 kg (11.46Lbs)
Export Carton Size (All-in-one-package)	Full-assemble: 0.5m 565x260x260 Full-assembled: 1.0m 1065x260x260
Gross Weight (All-in-one-package) ($\pm 0.3\text{kg}/\pm 0.66\text{Lbs}$)	Full-assemble: 0.5m 5.6 kg (12.34Lbs) Full-assembled: 1.0m 7.4 kg (16.31Lbs)
Export Carton Size (Separated package)	Heading: 260x260x250mm (10.23" x 10.23" x 9.84") Bollard 0.5m: 395x160x165mm (15.55" x 6.29" x 6.5") Bollard 1.0m: 895x160x165mm (35.23" x 6.29" x 6.5")
Gross Weight (Separated package) ($\pm 0.3\text{kg}/\pm 0.66\text{Lbs}$)	Heading: 2.6 kg (5.73Lbs) Bollard 0.5m: 2.4 kg (5.29Lbs) Bollard 1.0m: 4.4 kg (9.7Lbs)
Mounting Option	Mounting kit with anchor bolts
	Aluminum alloy
Material	Polycarbonate optical lens Ternary lithium battery Mono-Crystalline solar panel
Finish	Powder coating
Fixture Color	Black (RAL9017)
EPA	N/A
IK Rating	IK10 (PIR sensor not included)
IP Rating	IP66
Category of Corrosion	C4(ISO 9223:2012)

*The tolerance for weight is $\pm 6\%$.

Lifespan and Warranty		
Operating Temperature	0°C to + 50°C(32°F to 122°F)	
	80,000hrs-L90	
Lifetime of LED @ $T_a=25^\circ\text{C}$	169,000hrs-L80	
	271,000hrs-L70	
Warranty	Battery	3 Years
	Other accessories	5 Years

Description

The SLB10 Solar PathStar is an innovative LED solar bollard designed with enhanced aesthetics and creative functionality. Featuring an IP66-rated enclosure, monocrystalline solar panel, UV-resistant polycarbonate housing, and built-in PIR motion sensor, it combines durability with architectural appeal. Its modern design makes it a popular choice for pathways, gardens, sidewalks, building entrances, and other pedestrian areas.

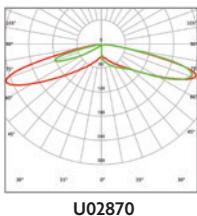
Key Features

- IP66 and IK07 Rated – Built for durability in harsh outdoor environments.
- Professional Type V Light Distribution – Ensures uniform, wide-area illumination.
- High-Efficiency Monocrystalline Solar Panel – Maximizes solar energy conversion.
- Transparent Polycarbonate Panel Cover – Shields the solar panel from dust, insects, and impact while maintaining efficiency.
- Long-Life LiFePO₄ Battery – Fully charges in 8 hours and powers the light for 2-3 days.

Applications

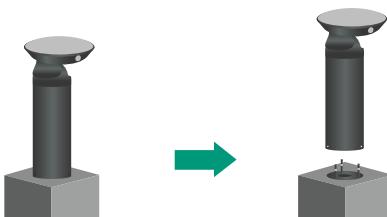
- Gardens
- Pathways
- Sidewalk
- Building entrance

Photometry

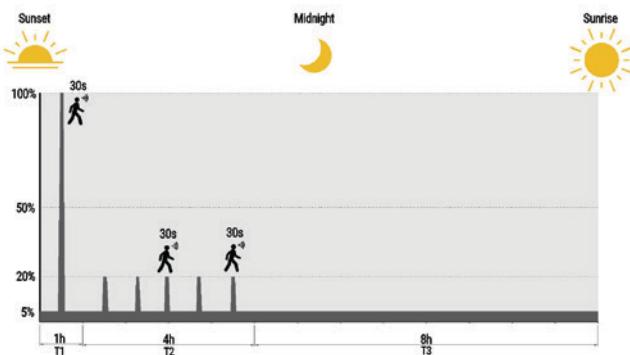


Mounting Options

Mounting kit with anchor bolts

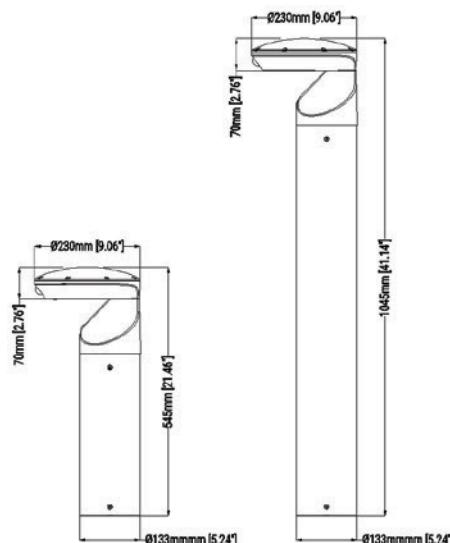


Intelligent Control Mode



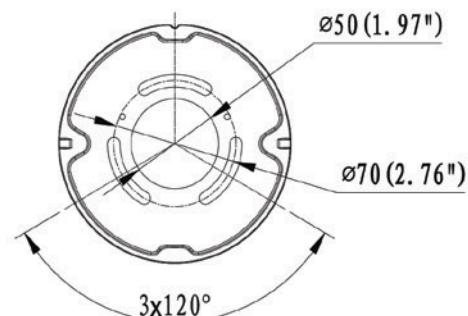
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Dimensions



Base plate templates

Unit:mm/inch



Accessories



Remote Control
Remote control for solar LED bollard light