

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

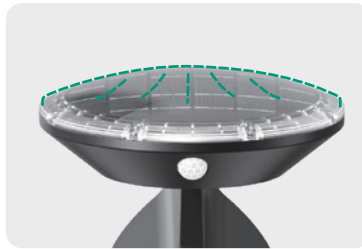


Architecturally Refined Design

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

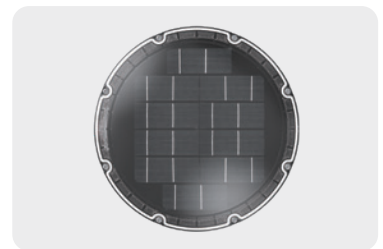
Polycarbonate Cover

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

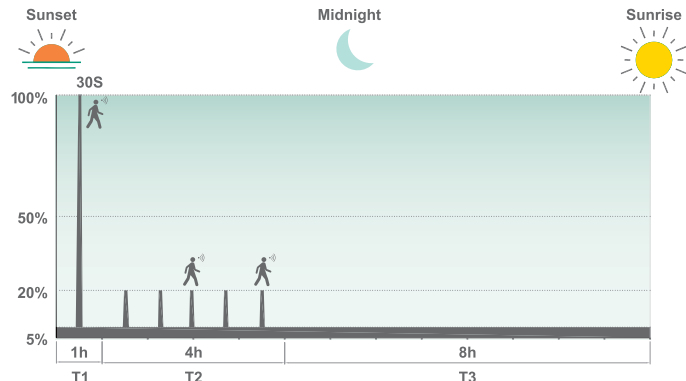


Press and hold for 3s to turn off the light

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 |

| L80 |
|------------|
| 169,000hrs |

| L70 |
|------------|
| 271,000hrs |

Electronic Configuration:

 Battery Capacity: 19.2Wh

 Solar Panel Wattage: 4W

 Charging Time: >5hrs

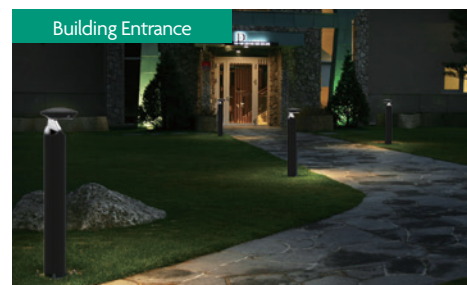
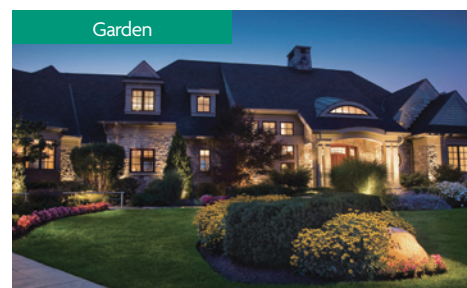
Fully Charged Operation Time :

 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.





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

Electrical Information

| | |
|--------------------------|--|
| Model No. | SLB10-004 |
| Power Consumption (±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 ±5%.

Optic Information

| | |
|------------------------------|-------------------------------|
| LED Type | LED 2835 |
| Luminous Flux (±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 ±10%.

Dimensions and Mount

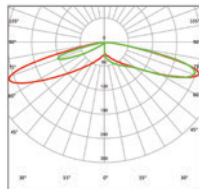
| | |
|---|--|
| Product Dimension | 0.5m: Φ230×545mm (Φ9.06"×21.45") |
| | 1.0m: Φ230×1045mm (Φ9.06"×41.1") |
| Luminaire Net Weight (±0.3kg/±0.66Lbs) | 0.5m: 3.5 kg (7.71Lbs) |
| | 1.0m: 5.2 kg (11.46Lbs) |
| Export Carton Size (All-in-one-package) | Full-assemble: 0.5m 565x260x260 |
| | Full-assembled: 1.0m 1065x260x260 |
| Gross Weight (All-in-one-package) (±0.3kg/±0.66Lbs) | 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"×10.23"×9.84") |
| | Bollard 0.5m: 395x160x165mm (15.55"×6.29"×6.5") Bollard 1.0m: 895x160x165mm (35.23"×6.29"×6.5") |
| Gross Weight (Separated package) (±0.3kg/±0.66Lb) | 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 |
| Material | Aluminum alloy |
| | 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 ±6%.

Lifespan and Warranty

| | | |
|---------------------------|-------------------|------------------------------|
| Operating Temperature | | 0°C to + 50°C(32°F to 122°F) |
| Lifetime of LED @Ta=25 °C | | 80,000hrs-L90 |
| | | 169,000hrs-L80 |
| | | 271,000hrs-L70 |
| Warranty | Battery | 3 Years |
| | Other accessories | 5 Years |

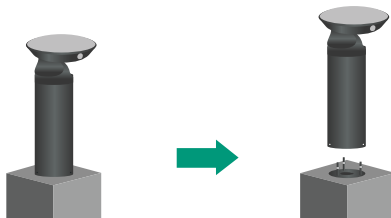
Photometry



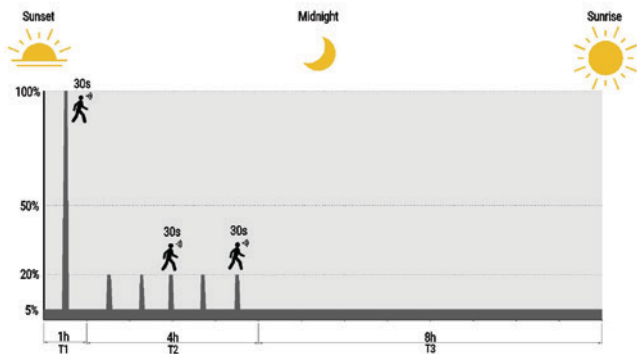
U02870

Mounting Options

Mounting kit with anchor bolts

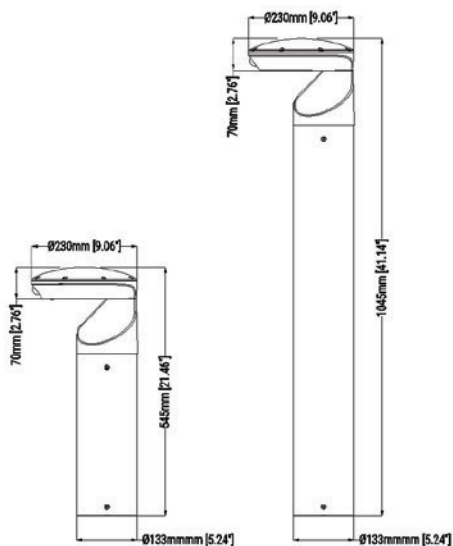


Intelligent Control Mode



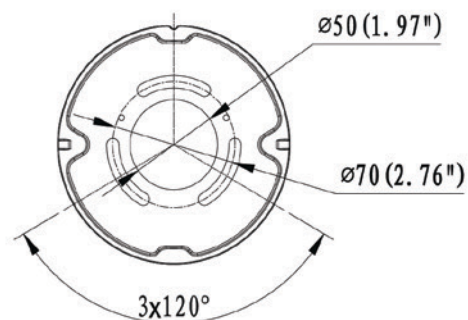
| | Time 1 | Time 2 | Time 3 |
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| Working hours | 1h | 4h | 8h |
| Not detected | 5% | 5% | 5% |
| Detected | 100% | 20% | 5% |
| Light up for 30 seconds when detected | | | |

Dimensions



Base plate templates

Unit:mm/inch



Accessories



Remote Control
Remote control for solar LED bollard light