



☆ Greenshine

OUTDOOR SOLAR LIGHTING SOLUTIONS

SOLAR BOLLARD LIGHT



BOLLARD (GS-SL-3W3K-12660BK)

Solar Bollard Light (GS-SL-3W3K-12660BK) is ideal for pathway lighting, private road lighting, area lighting, gate lighting, yard lighting, campus lighting etc.

Solar Panel

Light Source

Battery

Work Time

Material

Height

Working Temperature

Weight

Finish

6.0W, mono crystalline

3.0W, white LED@150lumen per watt,

3000K

12V 6Ah, lithium battery

Up to 10 hours

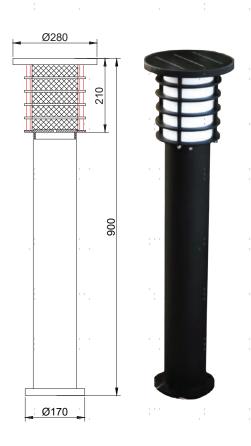
Aluminium

3ft

0 - 122 Degrees Fahrenheit

25 lbs.

Black powder coating



STANDARD FEATURES

- Solar Panel Designed for 25+ years of operation
- LED lifespan 50,000+ hours
- Solar charge intelligent controller
- Over charging/discharging protection
- Corrosion resistant
- Cast aluminum pole

APPLICATIONS

- Pathway Lighting
- Area Lighting
- Yard Lighting
- Private Road Lighting
- Fence Lighting
- Farm & Ranch Lighting
- Campus Lighting

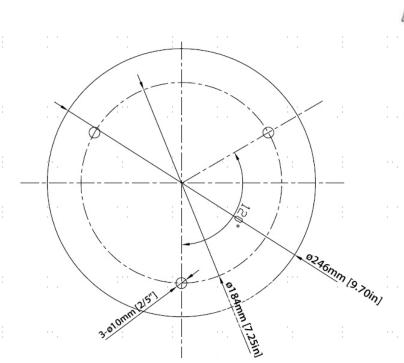


Solar Powered LED Lighting System

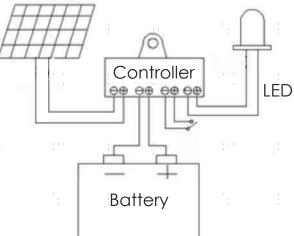


INSTALLATION

Please fix the lamp body, make an opening at the concrete road or concrete foundations according to the lamp's fixed hole before the installation, then fix the lamp on the foundation (refer to below installation diagram).



Solar Panel



System Connection

Bottom Flange

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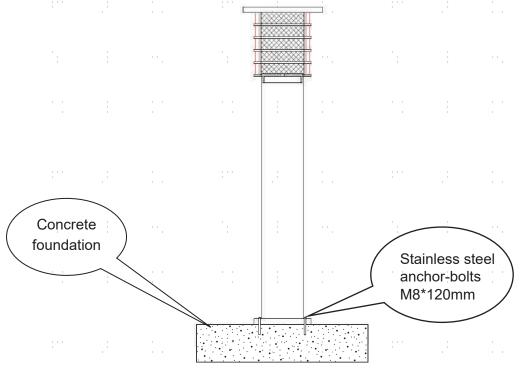
Tel: +1-949-609-9636, Fax: +1-949-812-6690, E-mail: sales@streetlights-solar.com



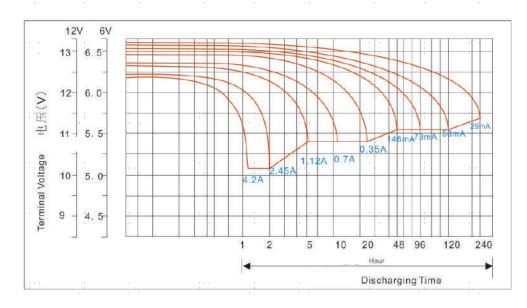


Solar Powered LED Lighting System





Installation Diagram



Discharging Characteristics curve graph (25°C/77°F)

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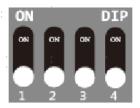
Website: streetlights-solar.com



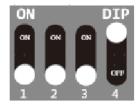
Solar Powered LED Lighting System



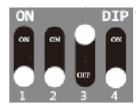
Work Mode Setting



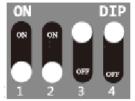
Always on



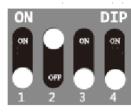
1 hour



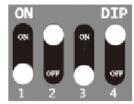
2 hours



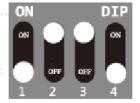
3 hours



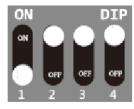
4 hours



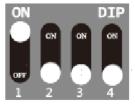
5 hours (default)



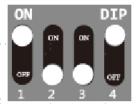
6 hours



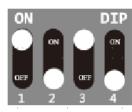
7 hours



8 hours



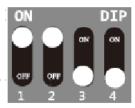
9 hours



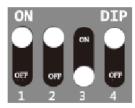
10 hours



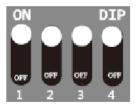
11 hours



12 hours



13 hours



D2D

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Solar Powered LED Lighting System



TROUBLESHOOTING

POSSIBLE ISSUES	CAUSES	SOLUTIONS
Testing	The switch is off	Please turn on the switch.
The light doesn't work when the solar panel is covered.	Poor connection	Please make sure the wires are correctly connected to the controller.
	The controller is damaged	Repair the controller or replace it with the same model controller.
	Ambient light is much weaker	The light source will start automatically when the ambient light is strong enough.
The light fails to turn off	Poor connection	Check the connection between solar panel and controller to make sure wire interface is under normal situation.
	The controller is damaged.	Repair the controller or replace it with the same model controller.
	The solar panel is covered by other	Clean the solar panel.
Lights shut off too soon	Poor connection	Check the connection between the battery and the controller to make sure wire interference is in good condition.
	The voltage of the battery is low	If the low voltage is caused by too many rainy days, it will recover automatically when weather improves.

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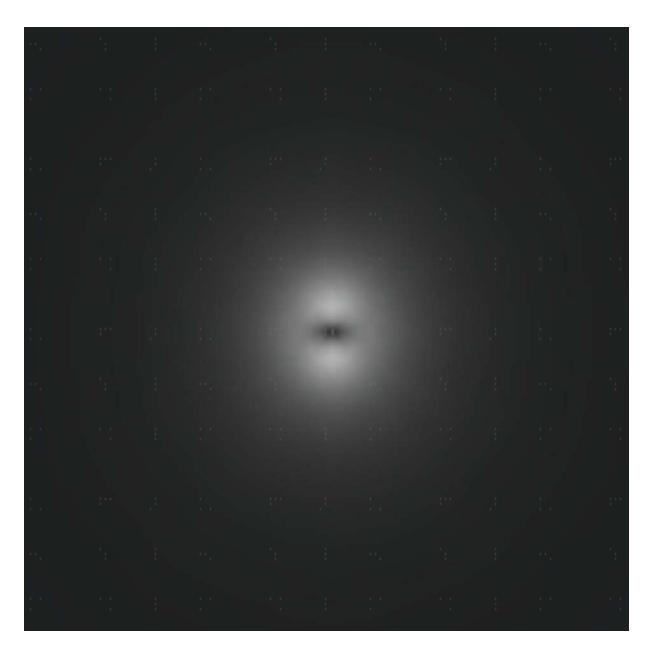
23661 Birtcher Dr Lake Forest, CA 92630 Operator Luis Jimenez

Telephone 949-609-9636 X 104

Fax

e-Mail luis.jimenez@streetlights-solar.com

BOLLARD 3W - 3' POLE / 3D Rendering



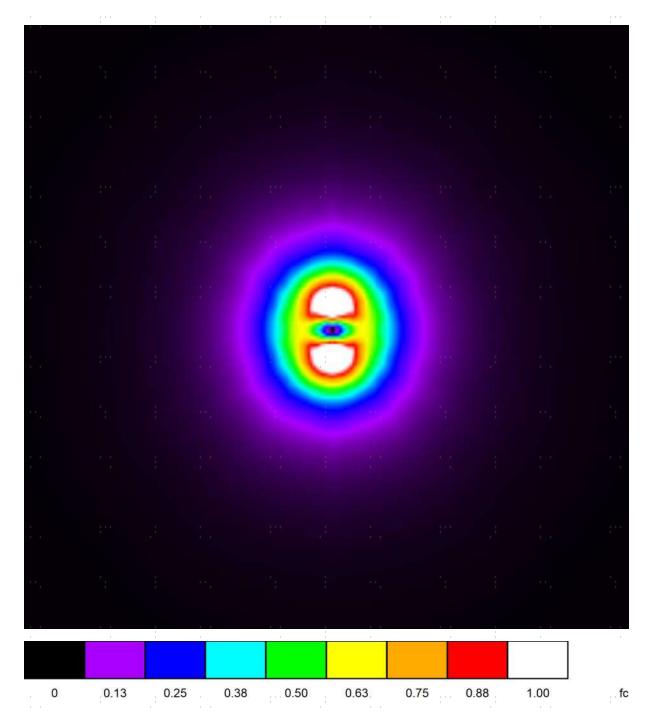
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BOLLARD 3W - 3' POLE / False Color Rendering



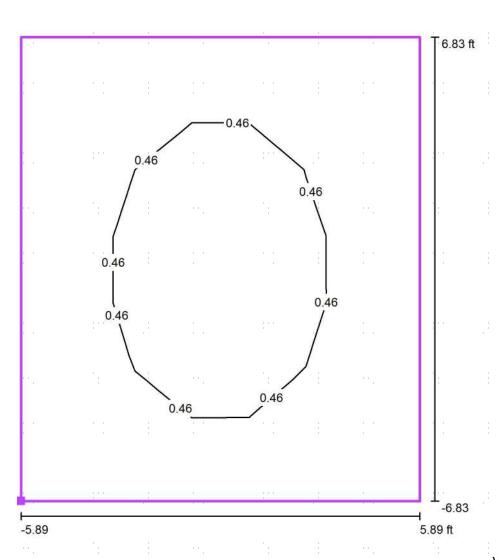
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BOLLARD 3W - 3' POLE / Calculation Grid 1 / Isolines (E, Perpendicular)



Values in Footcandles, Scale 1:34

Position of surface in external scene: Marked point: (165.881 ft, 164.942 ft, 0.000 ft)



Grid: 7 x 7 Points

E_{av} [fc] 0.35

E_{min} [fc] 0.07 E_{max} [fc] 1.49

u0 0.20

0.05

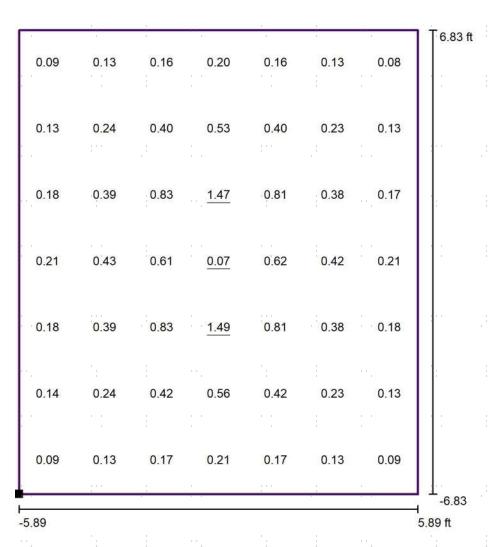
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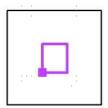
ail luis.jimenez@streetlights-solar.com

BOLLARD 3W - 3' POLE / Calculation Grid 1 / Value Chart (E, Perpendicular):



Values in Footcandles, Scale 1:34

Position of surface in external scene: Marked point: (165.881 ft, 164.942 ft, 0.000 ft)



Grid: 7 x 7 Points

E_{av} [fc] 0.35 E_{min} [fc] 0.07 E_{max} [fc]

u0 0.20 E_{\min} / E_{\max}



GREENSHINE NEW ENERGY OUTDOOR SOLAR LIGHTING SOLUTIONS

1 Year Warranty (Bollard System)

Greenshine New Energy provides a 1 year warranty on its Bollard products. Greenshine will, at its option, repair or replace any Greenshine Bollard system that is defective.

This warranty does not cover damage or malfunction, as determined by Greenshine service technicians or engineers, due to abuse, misuse, incorrect installation, or accident such as, but not limited to:

- Failure to follow storage, installation, operation, and maintenance instructions provided by Greenshine
- Vandalism, theft, lightning, flood, "Acts of God", and other problems beyond the control of Greenshine
- Unauthorized or improper repairs or adjustments including use of any replacement parts not provided by Greenshine.
- Deployed in an abnormal or inconsistent manner from Greenshine New Energy written and verbal instructions
- Greenshine New Energy liability and Purchaser's remedy under Greenshine New Energy warranty is limited to the replacement of any defective item, but under no circumstance shall exceed the purchase price of the goods. Other warranties may be available for an additional cost with additional coverage and/or labor allowance included.
- Any repair cost not approved by Greenshine New Energy will not be reimbursed.
- Purchaser is responsible for any and all costs involved to service and/or replace defective goods including labor, shipping, and rental of equipment.