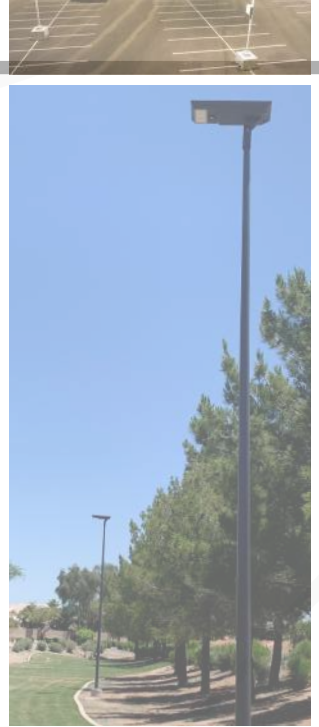
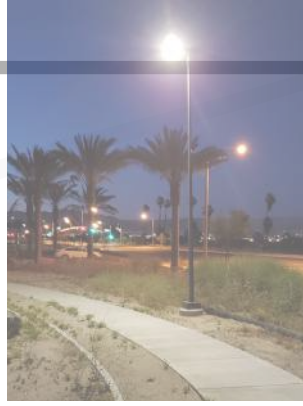




 **Greenshine**

OUTDOOR SOLAR LIGHTING SOLUTIONS



ALLTA

ALLTA | GENERAL SPECIFICATIONS



Greenshine

Light Fixture (GS-LED-ALLTA)

Luminaire Input Voltage	DC 12V
Lumen	3000 lumens
Color Temperature	3000-4000-5000 K
IES Lighting Type	Type II III
Material	Die-cast aluminum alloy made all in one housing, integrated with solar panel, battery, LED light source and system charge controller.

Solar Panel (1 Unit)

43W

Rating Power	43 W
Maximum Power Voltage	DC 18V
Maximum Power Current	2.39 A
Open Circuit Voltage	DC 21V
Short Circuit Current	2.66 A
Size	2.5" X 1.1"
Weight	29 lb



Battery (1 Unit)

Battery Type	Lithium Battery
Operating Voltage	DC 12V
Capacity	24Ah with 65°C temperature control
Dimensions	2(L)×0.5(W) (in)
Expected Life	5 ~ 7 years

Solar Charger

Operating Voltage	DC 12V
Max. Charge / Load Current	10A
Night / Day Detection	YES
IP Class	IP65
Motion Activated Function	YES

Pole

Height	20 ft
Diameter	5" at the bottom, 3 3/4" at the top, 2 3/8" pole top tenon
Thickness	5/32"
Material	Galvanized Steel
Finishing	Powder Coating





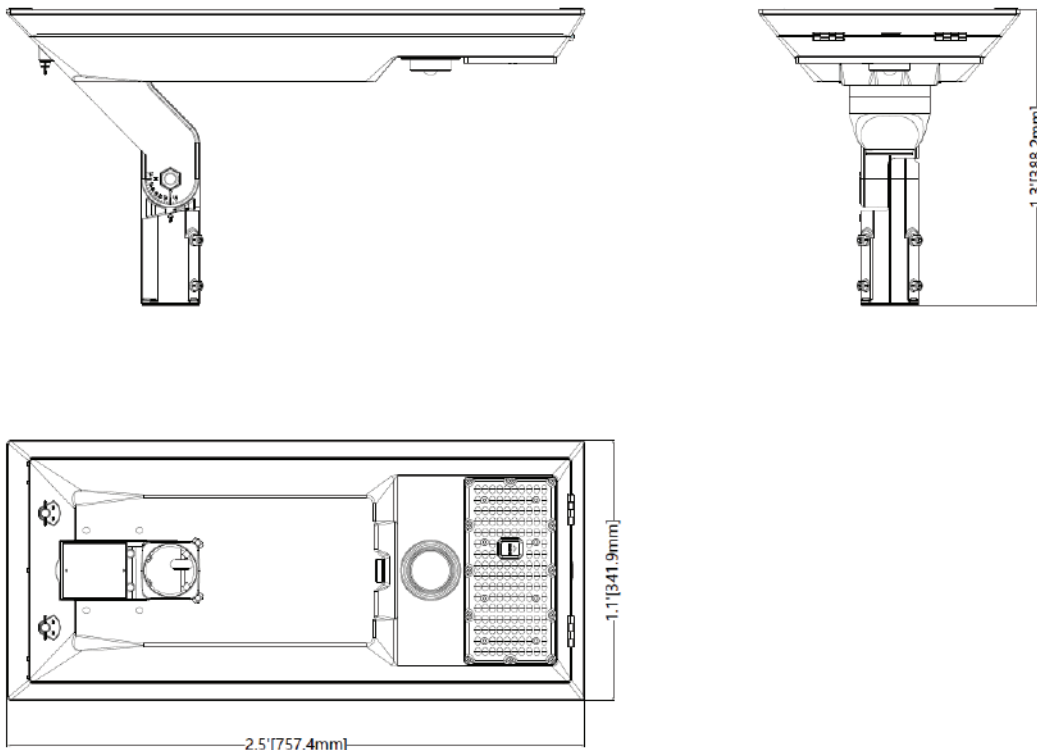
SPECIFICATIONS

Luminaire Input Voltage	DC 12V
Lumen Output	3000 lumens
LED Type	CREE XPG
Color Temperature	3000-4000-5000 K
IES Lighting Type	Type II III
Material	High pressure die-cast aluminum
Lens	5mm toughened glass, optical grade PMMA
IP Class	IP 65
Insulation	Class I
Operating Temperature	-30°C ~+50°C/ -22°F ~+122°F
CRI	≥70

6 hours full bright (3000 lumens) and then it dims to 1000 lumens and when motion is activated it turns up to 3000 again for 1 minute. This is the standard setting for areas with more than 5+ peak sun hours per day in December.

Weight: 13.15 kg | 29 lb

DIMENSIONS



ALLTA SERIES

Solar Powered LED Lighting System



Greenshine

OVERVIEW

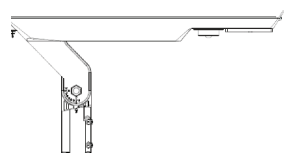
The Allta Series features customizable outdoor solar light solutions depending on your specific application and an adjustable mounting bracket. Each system is completely customized according to your location, project and lighting requirements; also systems can be configured to run throughout the night or have them dim to save energy when full light is not required and with the option for a motion detection.

PART NUMBER

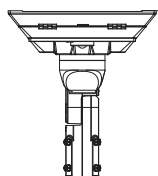
SYSTEM	OPTICS	LOAD	COLOR TEMP.	BATTERY	PV QTY.	PV WATT	COLOR	OPERATING PROFILE
AIO All-In-One	T2 Type 2 T3 Type 3	10W 20W 30W	3K 3000 Kelvin 4K 4000 Kelvin 5K 5000 Kelvin	18 18Ah-lfp	1 Single	43W	BK Black GR Grey	5/40 DIM 6/40 DIM 7/40 DIM 8/40 DIM D2D
POLE HEIGHT Optional Pole Heights								

FIXTURES

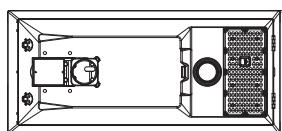
SPECIFICATIONS



SIDE VIEW
15W-23W TYPE 2 & 3

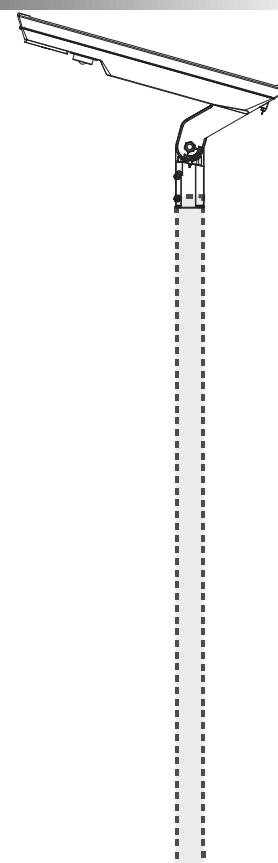


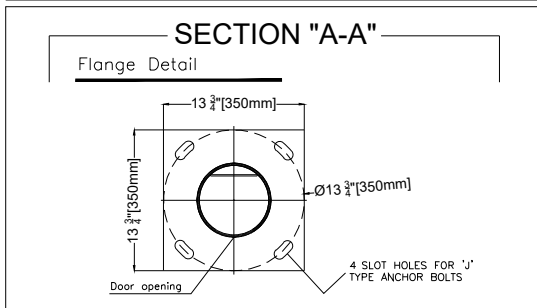
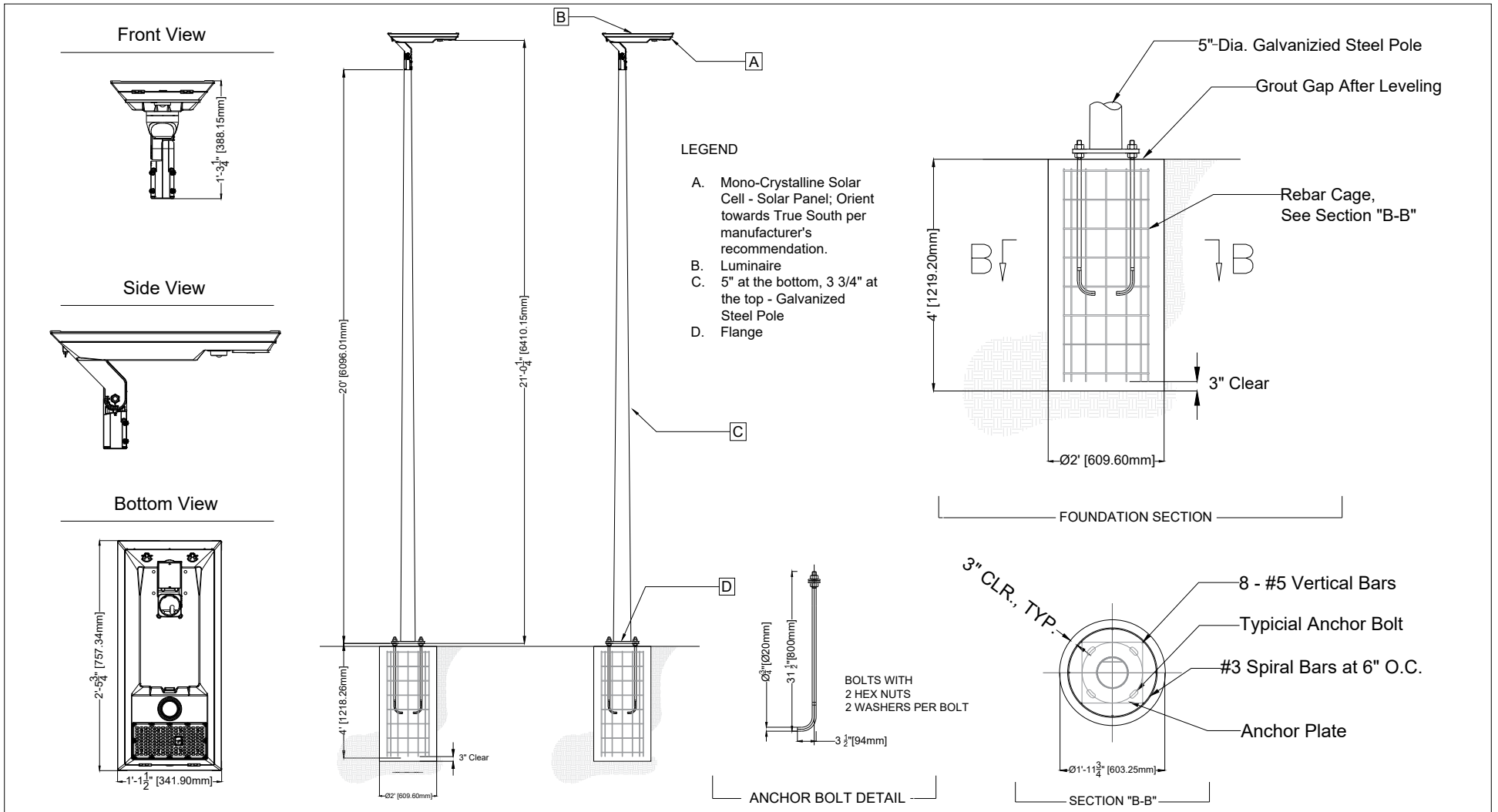
FRONT VIEW



BOTTOM VIEW

- ▶ **Luminaire**
 - 60,000 hours.
 - 3000K - 5000K available with standard 4000K.
 - Turtle Friendly compliant fixtures available.
- ▶ **Panel Mount**
 - Rated to 145mph. 185mph available.
- ▶ **Solar Panel**
 - Mono-crystalline Photovoltaic solar panels.
- ▶ **Battery Enclosure**
 - Vented, corrosion resistant stainless steel battery box.
 - Holds battery and controller.
 - Includes lock.
- ▶ **GEL-Type Battery**
 - Greenshine Battery - Maintenance-free 99% recyclable.
 - 24Ah seal GEL Cell batteries.
- ▶ **Smart Controller**
 - Controller - Solar Charge controller that monitors and regulates charging and discharging of batteries. Also, programable to specific operating profile for project.
- ▶ **5 Year Limited Warranty**
 - Includes 10 year warranty on solar panel. 5 and 10 Year Full Warranty available.





- Foundation dimensions shall be confirmed by a local engineering company, Greenshine New energy will not be held liable for any defect of the concrete foundation due to improper sizing.

- Drawings are based using hot-dipped galvanized steel, powder coating with a thickness of $\frac{5}{32}$ "

- *EPA of the system exclude the EPA of the pole, includes the solar panels, brackets, arm and LED fixture and battery box.

- **Wind resistance of the poles are indicative and further customization can be provided.

Tilt angle of the solar panels	15	30	45	60
EPA (ft²)*	6.68	9.31	11.57	13.3
Wind resistance** (mph)	150	150	150	150

System	Allta - 20' - 1P
By	Luis Jimenez
Date	6/8/2021
Website	www.streetlights-solar.com



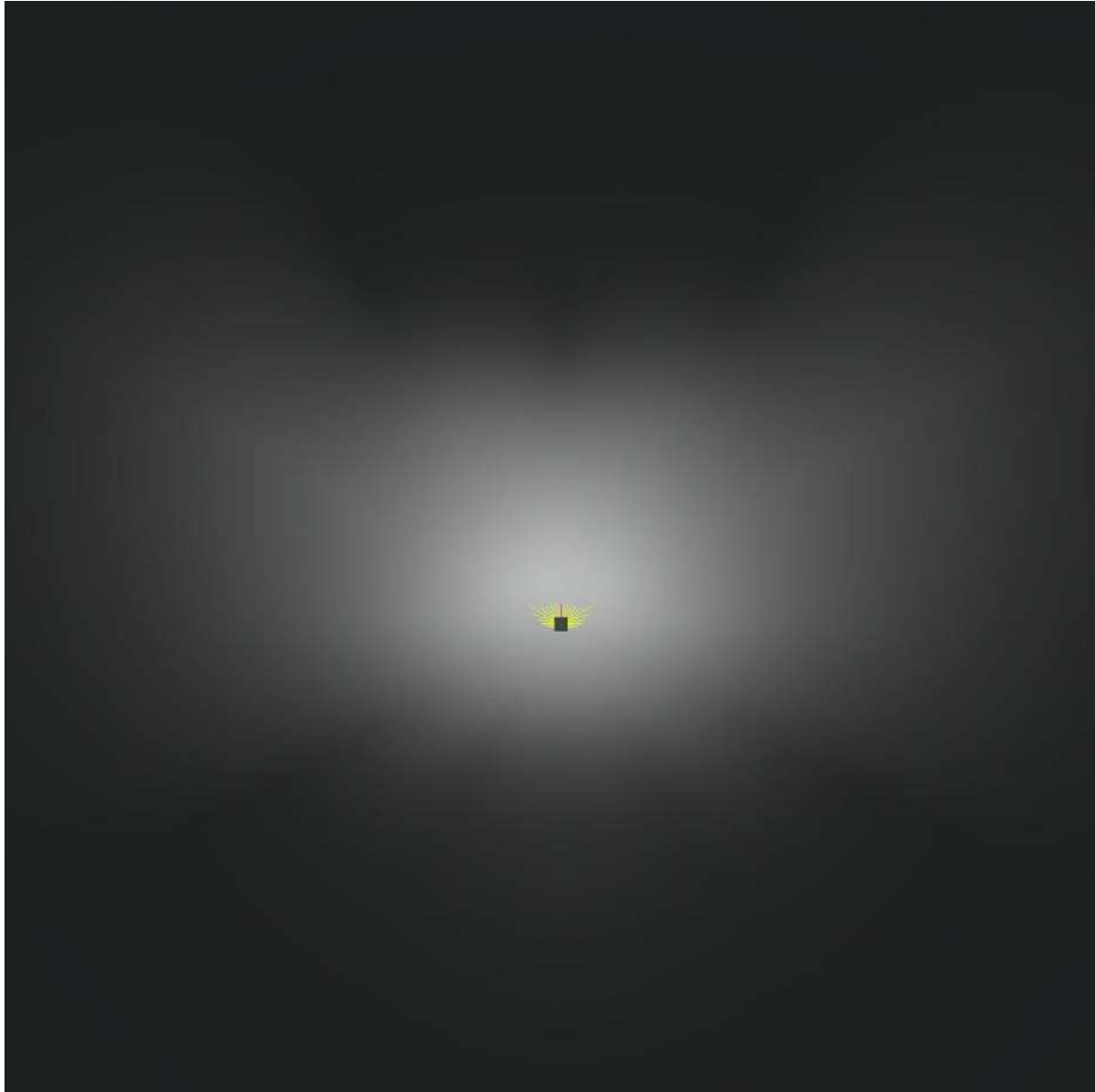


Greenshine New Energy

23661 Birtcher Dr
Lake Forest, CA 92630

Operator Luis Jimenez
Telephone 949-609-9636 X 104
Fax
e-Mail luis.jimenez@streetlights-solar.com

AIO 23W - 20' POLE / 3D Rendering



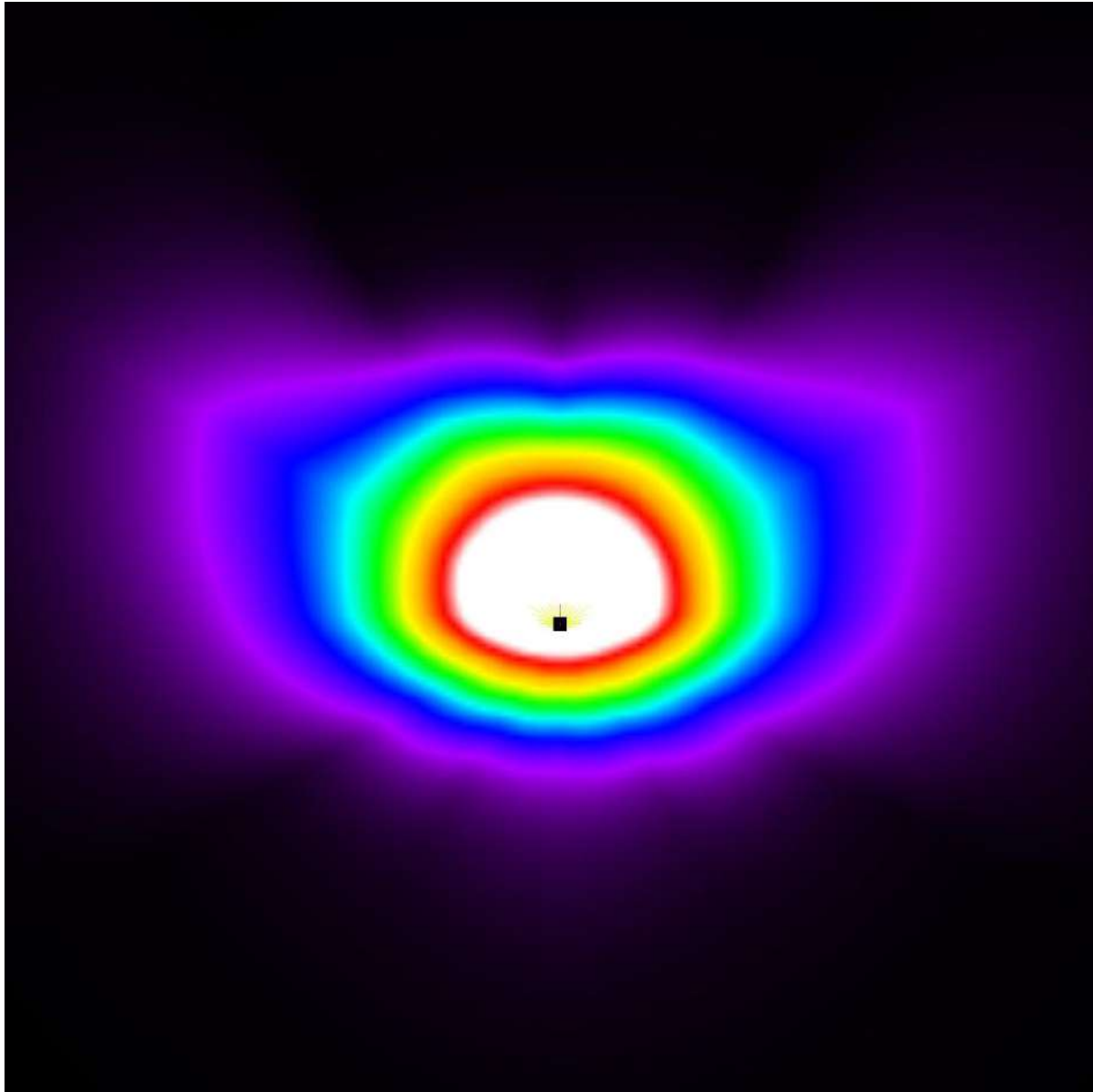


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AIO 23W - 20' POLE / False Color Rendering

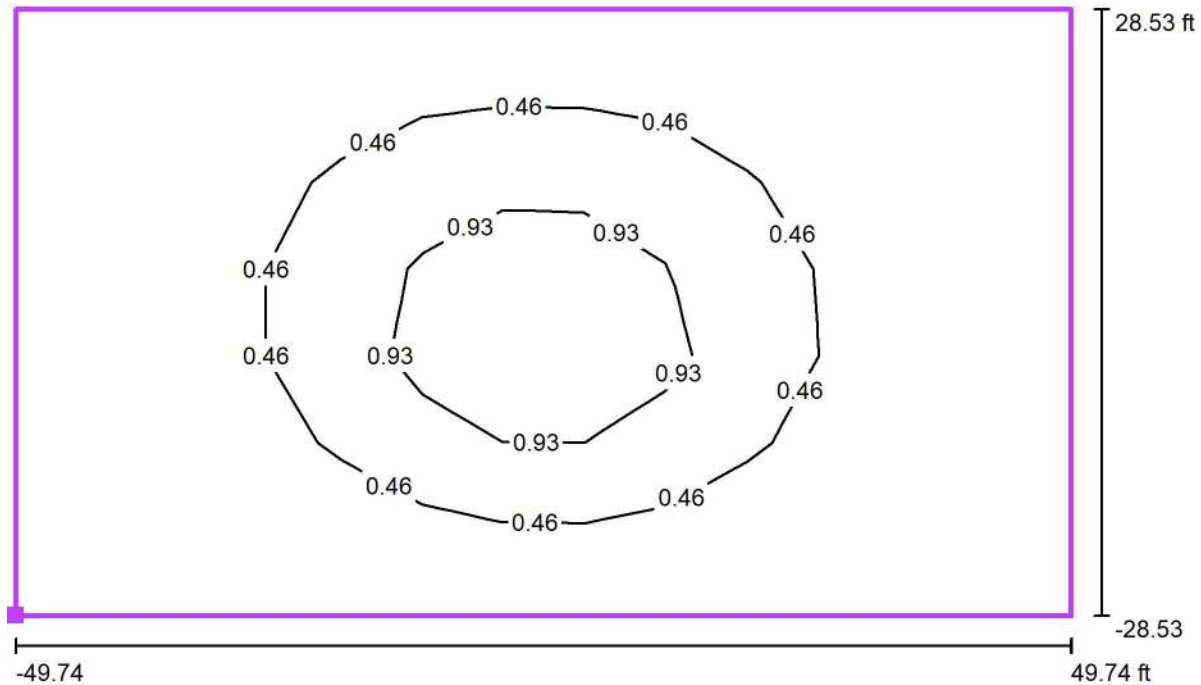


0 0.13 0.25 0.38 0.50 0.63 0.75 0.88 1.00 fc

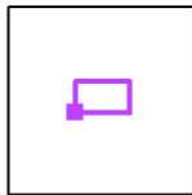
Greenshine New Energy
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e-Mail luis.jimenez@streetlights-solar.com

AIO 23W - 20' POLE / Calculation Grid 1 / Isolines (E, Perpendicular)



Position of surface in external scene:
Marked point: (122.197 ft, 150.218 ft,
0.000 ft)



Grid: 13 x 7 Points

E_{av} [fc]
0.39

E_{min} [fc]
0.04

E_{max} [fc]
1.48

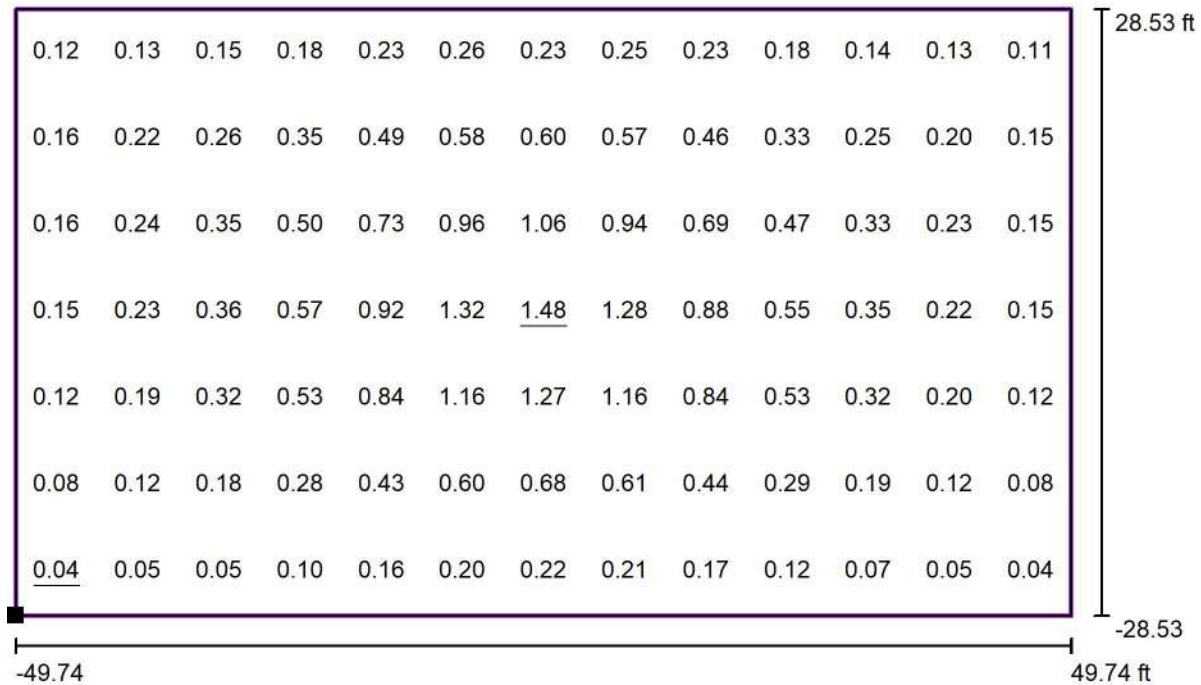
u_0
0.10

E_{min} / E_{max}
0.03

Greenshine New Energy
23661 Birtcher Dr
Lake Forest, CA 92630

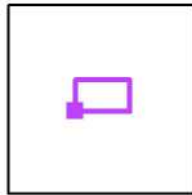
Operator Luis Jimenez
Telephone 949-609-9636 X 104
Fax
e-Mail luis.jimenez@streetlights-solar.com

AIO 23W - 20' POLE / Calculation Grid 1 / Value Chart (E, Perpendicular)



Values in Footcandles, Scale 1 : 217

Position of surface in external scene:
Marked point: (122.197 ft, 150.218 ft,
0.000 ft)



Grid: 13 x 7 Points

E_{av} [fc]
0.39

E_{min} [fc]
0.04

E_{max} [fc]
1.48

u_0
0.10

E_{min} / E_{max}
0.03

GREENSHINE NEW ENERGY



Greenshine

5 YEAR LIMITED WARRANTY

Greenshine New Energy provides a 5 year limited warranty on its solar lighting system. Greenshine will, at its option, repair or replace any Greenshine system that is defective. Additionally, certain components within Greenshine's system have extended warranty protection against failure as defined below:

COMPONENT	WARRANTY
*Solar Panel	20 Years
Pole and Mounting Brackets	5 Years
LED Light Fixture	5 Years
Electronics (Controller, driver)	5 Years
**Battery	5 Years

* Greenshine New Energy warrants that the power output of the PV Modules will be at least 80% of the minimum Peak Power rating for 20 years, and warrants that for 20 years beginning on the Warranty Start Date, its photovoltaic modules, shall be free from defects in materials and workmanship under normal application, installation, use and service conditions.

Specific restrictions may apply due to site-specific conditions, please check quote's details for more information.

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 good including labor, shipping, and rental of equipment.

**Greenshine New Energy provides a limited warranty for battery replacement with the following prorated coverage:

- 0 to 2 years: 100% credit (user pays 0% of the replacement battery price)
- 2 to 3 years: 60% credit (user pays 40% of the replacement battery price)
- 3 to 4 years: 40% credit (user pays 60% of the replacement battery price)
- 4 to 5 years: 20% credit (user pays 80% of the replacement battery price)