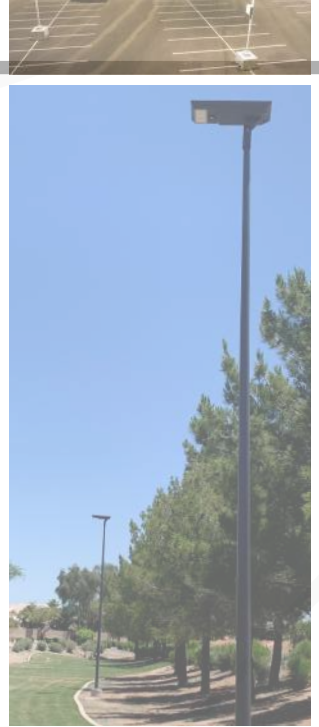
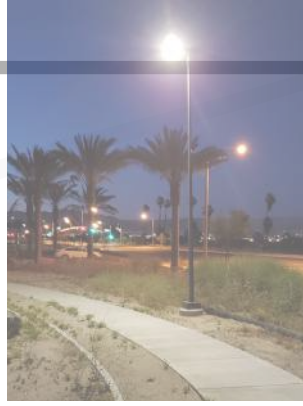




 Greenshine

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   |





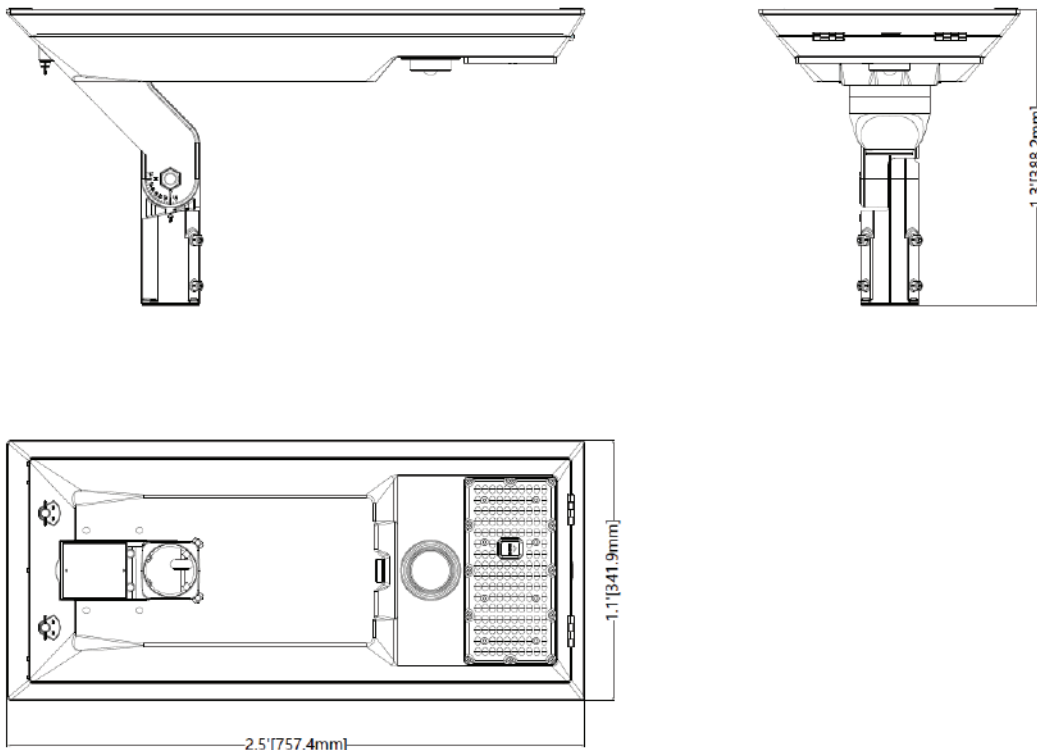
## SPECIFICATIONS

|                         |   |
|-------------------------|---|
| 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

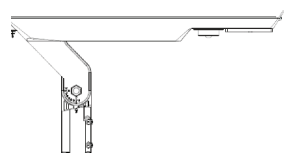
The Allta Series features customizable outdoor solar light solutions depending on your specific application and an adjustable mounting bracket. Each system is completely customized according to your location, project and lighting requirements; also systems can be configured to run throughout the night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

### PART NUMBER

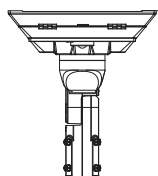
| SYSTEM  | OPTICS                               | LOAD                                   | COLOR TEMP.   | BATTERY            | PV QTY.         | PV WATT    | COLOR                             | OPERATING PROFILE  |
|---|--------------------------------------|--|---|--------------------|-----------------|------------|-----------------------------------|--|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

### FIXTURES

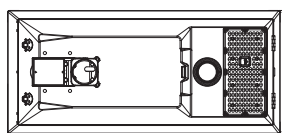
### SPECIFICATIONS



**SIDE VIEW**  
15W-23W TYPE 2 & 3

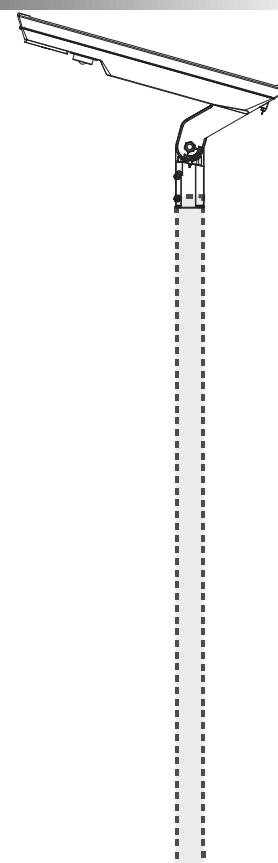


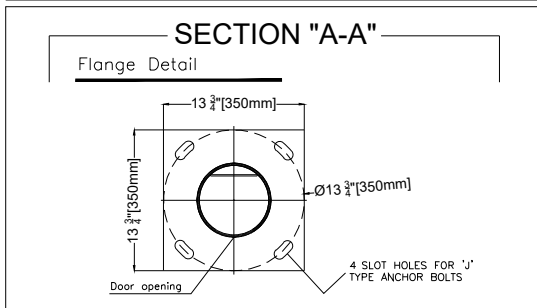
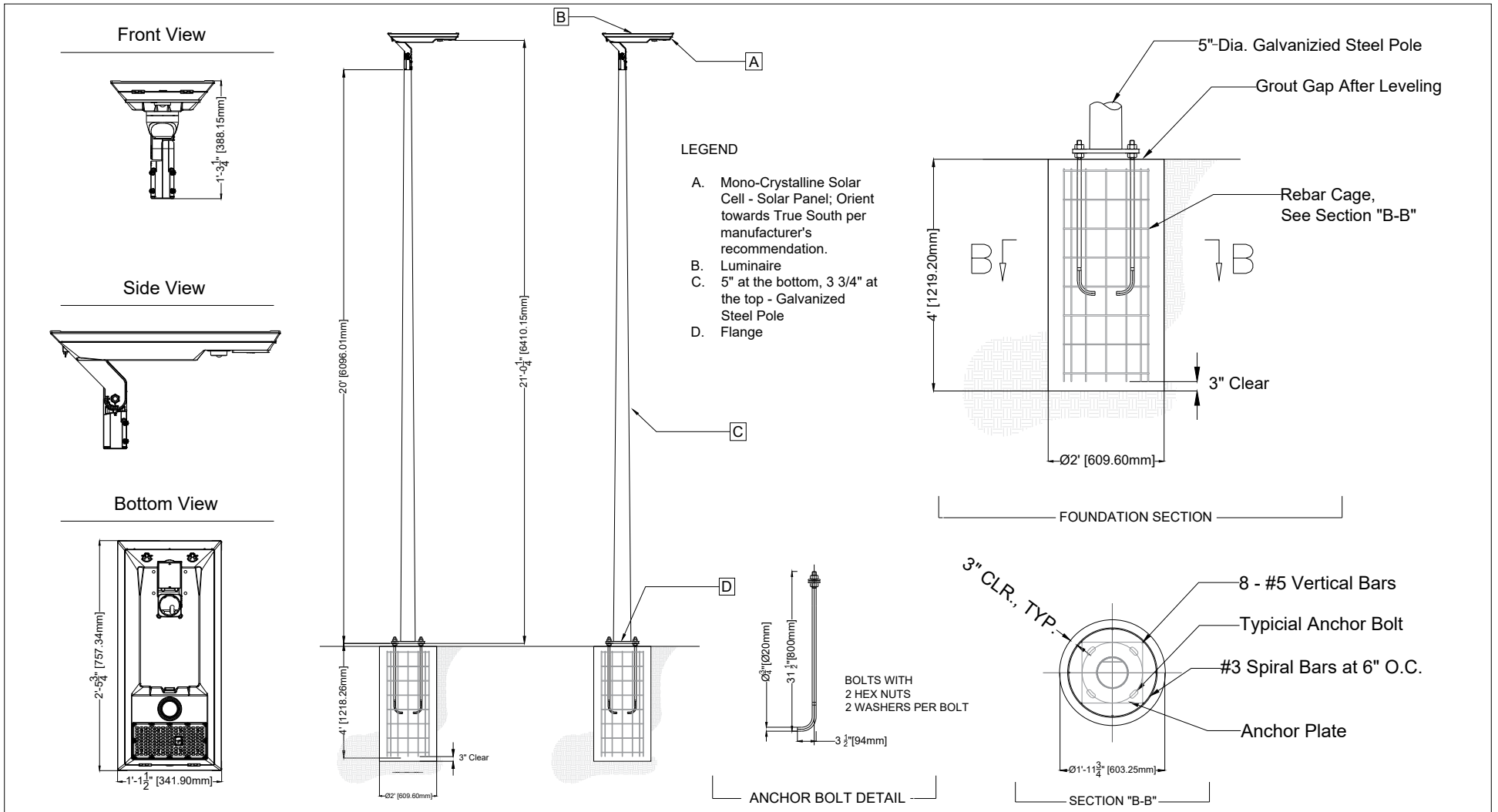
**FRONT VIEW**



**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.
- ▶ **2 Year Limited Warranty**





- 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 |



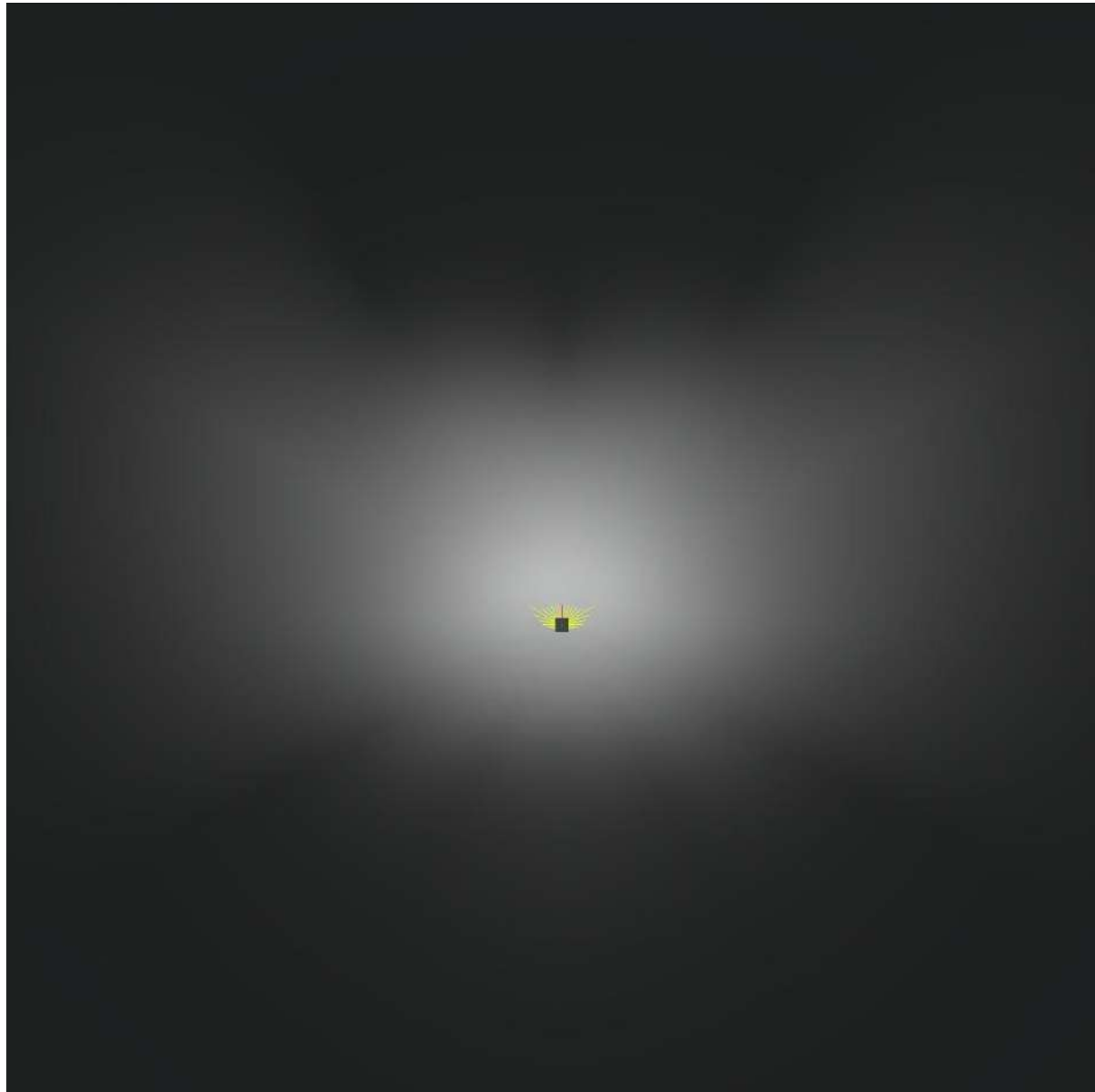


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23661 Birtcher Dr  
Lake Forest, CA 92630

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

## AIO 23W - 20' POLE / 3D Rendering

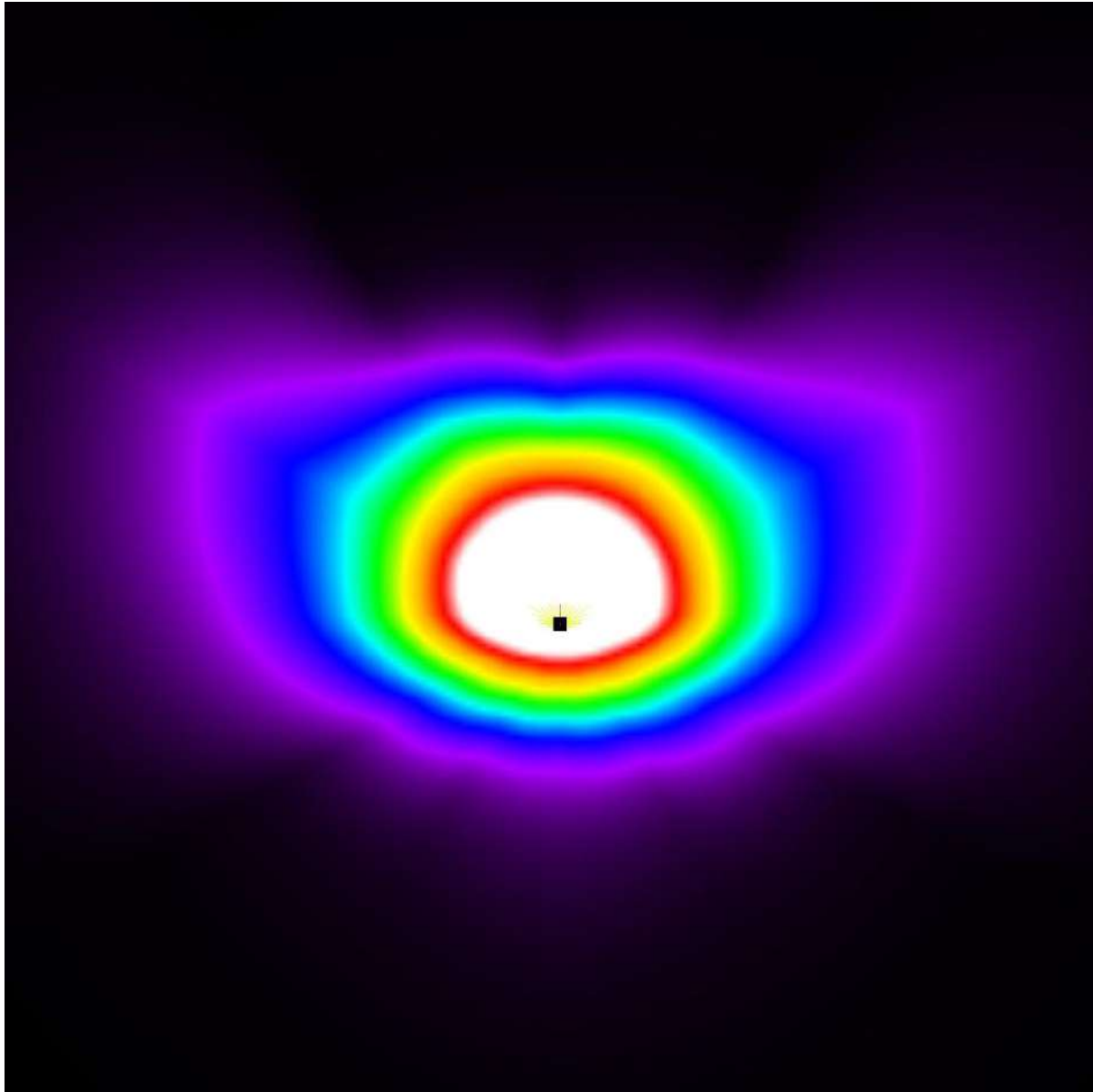




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e-Mail [luis.jimenez@streetlights-solar.com](mailto:luis.jimenez@streetlights-solar.com)

## AIO 23W - 20' POLE / False Color Rendering



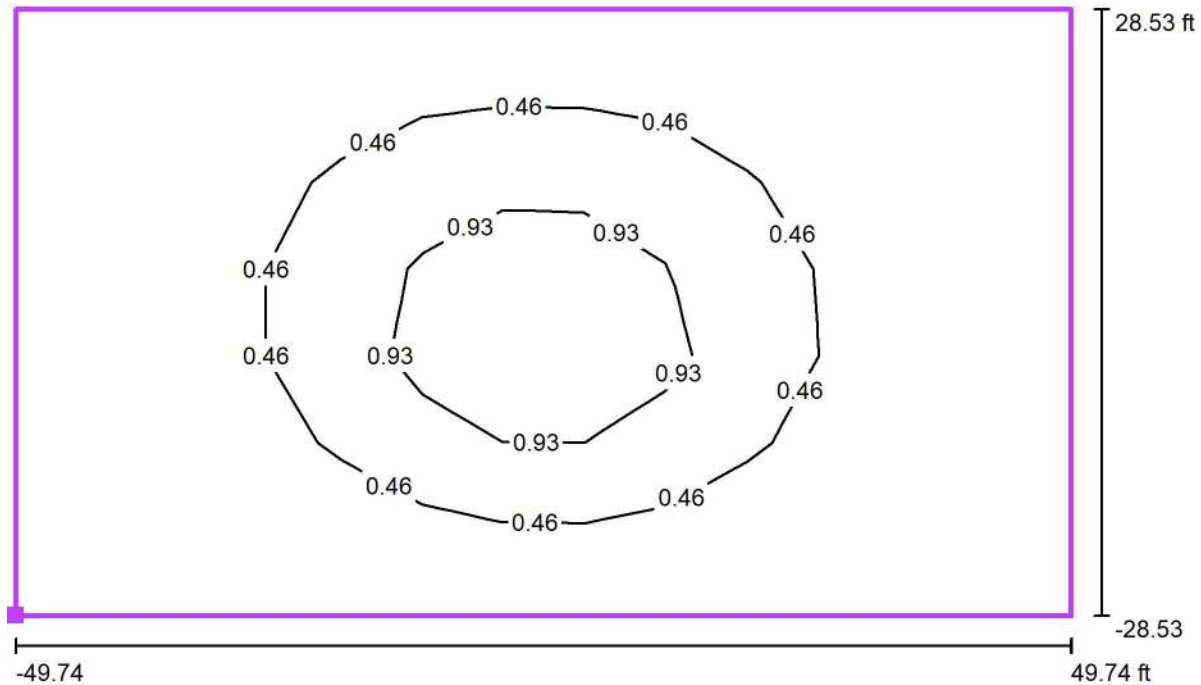
0 0.13 0.25 0.38 0.50 0.63 0.75 0.88 1.00

fc

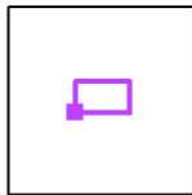
Greenshine New Energy  
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Operator Luis Jimenez  
Telephone 949-609-9636 X 104  
Fax  
e-Mail luis.jimenez@streetlights-solar.com

## 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

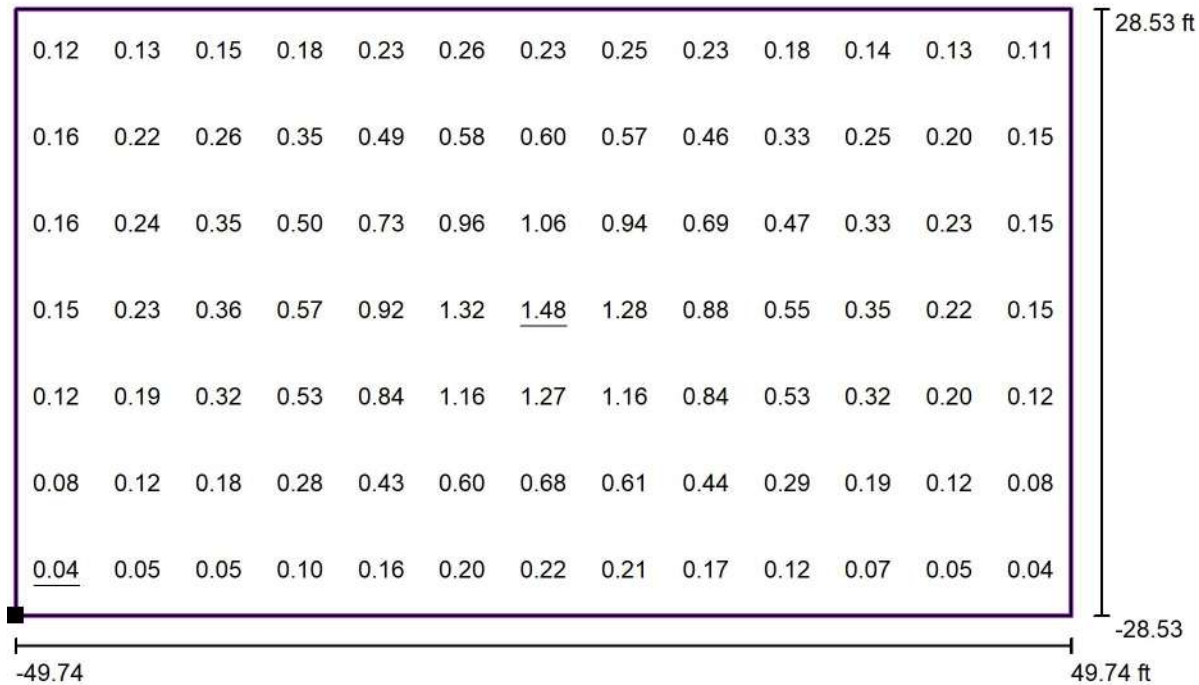
$E_{min} / E_{max}$   
0.03



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Lake Forest, CA 92630

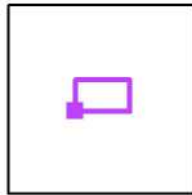
Operator Luis Jimenez  
Telephone 949-609-9636 X 104  
Fax  
e-Mail luis.jimenez@streetlights-solar.com

## 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

## 2 YEAR LIMITED WARRANTY

Greenshine New Energy provides a 2 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                     | 2 Years  |
| Pole and Mounting Brackets       | 5 Years  |
| LED Light Fixture                | 2 Years  |
| Electronics (Controller, driver) | 5 Years  |
| **Battery                        | 5 Years  |

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)