

8W 20W 30W **Installation Manual**

SOLTECH Designs and Manufactures Advanced, Solar-Powered LED Technology.









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01 Introduction

Thank you for purchasing CEGONIA Urban Lighting Products.

Introduction

CEGONIA combine stylish design with hight efficiency. You can adjust both the tilt angle and the azimuth to make sure the panel is in the optimal position to capture the sun's energy. It is a perfect fit for courtyards, parks, schools, communities and paths.

Important

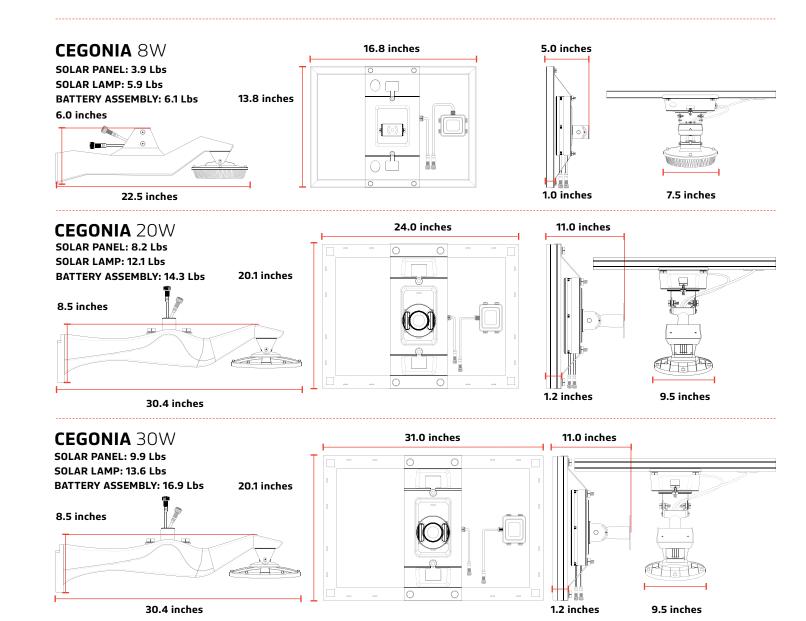
In order to avoid deep discharge of the battery during storage, please fully recharge your battery every 4 months. Please make sure that the light is installed in an area with sufficient sunlight irradiance. A strict minimum of 3.5 hours/day of sunshine on average is recommended. Select the right operating mode according to the local legislation needs and the local sunshine conditions. Keep it away from shadows. Self-cleaning available when the light fixture have minimum angle of 15 degrees.

Please save these instructions. Read all of the instructions carefully before attempting to carry out any installation or wiring. Do not open or attempt to repair the product on your own, as it many cause serious damage and would void the product warranty. Contact your local distributor for any questions concerning the installation.

Range of the light module on the lighting fixture is 20–26 feet (6–8 meters). The ideal installation spacing is >16 feet(5 meters). When installing two or more lighting fixtures on one pole, select desired operating mode before installation. Interference can cause delay or malfunction when using the remote control to change operating modes after installation.

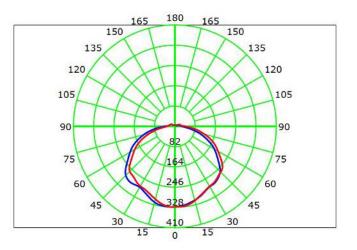
Precautions when working with solar panels

When the solar panel is exposed to sunlight, a voltage appears at the output terminals of the solar panel turning it into a source of electricity. To avoid a shock hazard, make sure the solar panel is covered with an opaque (dark) later such as paper or cloth during the installation. Do not make contact with the terminals when the panel is exposed to sunlight or any other light source.

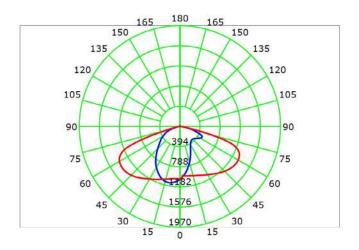


02 Luminous Distribution

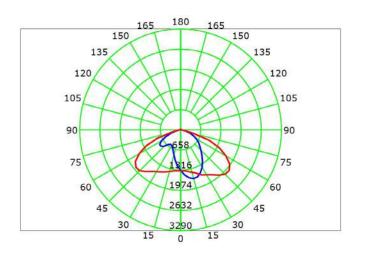
CEGONIA 8W Type Ⅲ



CEGONIA 20W Type Ⅲ



CEGONIA 30W Type Ⅲ



O3 Battery Notes

- The LiFePO₄ -battery-powered CEGONIA lights are visibly brighter than other outdoor solar lights, and their performance overall is more reliable.
- 2. To charge the battery fully may take up 6 to 12 hours.
- 3. Output will be reduced to 40% when the battery is below 40% of its capacity.
- 4. Battery will stop charging when the ambient temperature is below 32°F or above 149°F.

Battery Status is indicated by the red/green indicator on the lighting fixture as follows:

- Red indicator (Charging)
- > Slow red light flashing = Charging
- > Red light continuously on = fully charged
- > Quick red flashing = charge fault
- Green indicator (not charging)
- > Green light continuously on = more than 40% of the battery capacity remaining
- > Slow green light flashing = battery capacity below 10%
- > Quick green light flashing = battery below 0% mode—Protect battery does not over discharging

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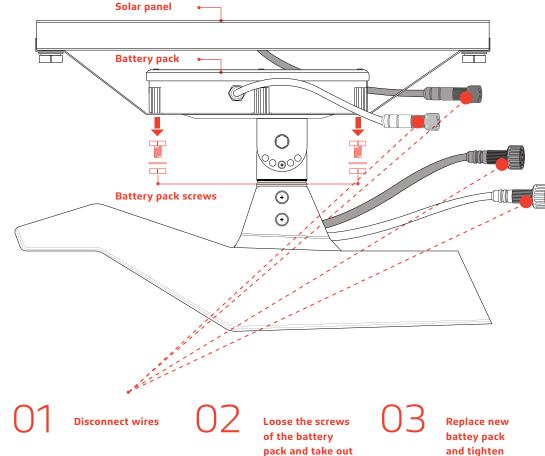
To avoid over discharge of the battery during storage, please recharge the lighting fixture every 3 months. Use the dedicated charger to charge, reset the switch when done.

Battery Replacement

- Disconnect the wire connectors.
- 2. Loose the screws of the battey pack and take out the battey pack.
- 3. Replace a new one.
- 4.Tighten the screws of battery pack.
- Connect the wire connectors (Be sure you match the color when you connect them).

(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the CEGONIA under shady trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Before integrating this feature, selecting a light output percentage on the remote would yield an accurate percentage of max LED brightness. Now with (IAP), the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes light output of the selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase our off-grid performance by up to 40%



the battery pack.

the screws.

04 Installation and Wiring Compliance

- Installation and wiring must comply with the State and National Electrical Codes.
- The CEGONIA 8W, 20W and 30W models are intended for outdoor use only and should not be installed in an unventilated area, and shall be installed in an environment within the operational temperatures defined for the product.
- The average sunshine in the installation area should be above
 hours/day in order to ensure full function of the lighting fixture.
 Avoid areas with shades.
- 4. Before installation, if applicable, please ensure the light pole and its foundation are solid enough to withstand the lighting fixture(s).
- 5. Before installation, please ensure that the battery is fully charged. Install during sunny days if possible.
- 6. Before installation, please press the **(a)** ON/OFF key in the remote control and check whether it shows a red light on the indicator. Please cover the panel and check if the light module turns on normally within 1 minute.

After Installation

The lighting fixture will automatically turn on at night and turn off during daylight.

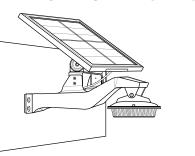
Important

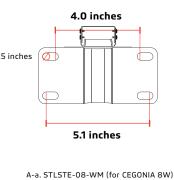
Always orient the solar panel facing the equator (e.g. facing south if in northern hemisphere).

Always have a tilt angle of at least 15° to avoid dust accumulation (0°=horizontal plane).

O5 Mounting Accessories

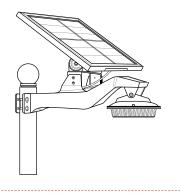
A. TRUNNION—Wall Mount

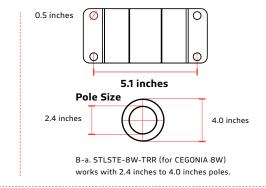


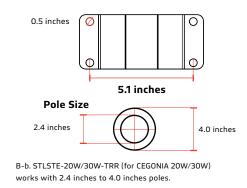




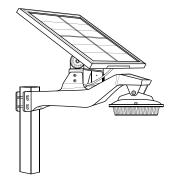
B. TRUNNION—Round

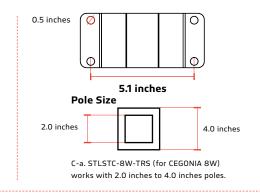


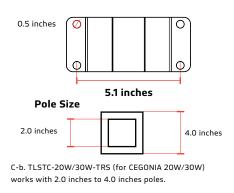




C. TRUNNION—Square



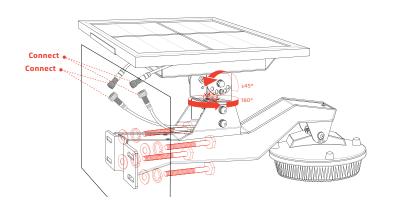


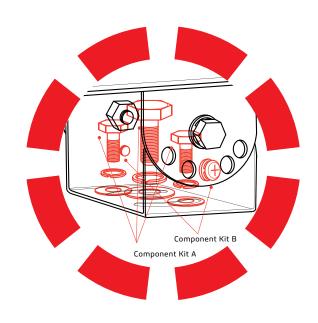


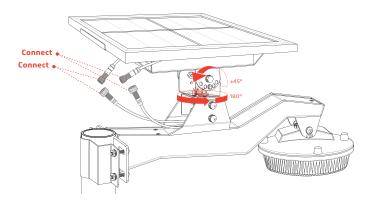
06 Installation

CEGONIA 8W

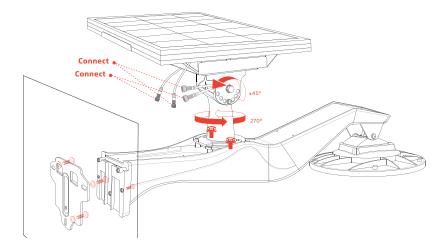
CEGONIA 20W 30W

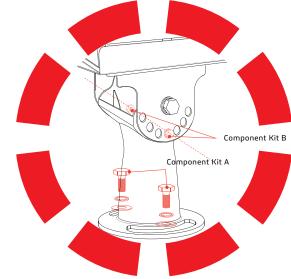


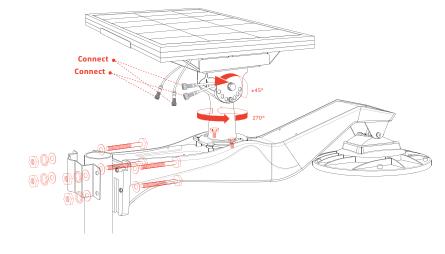








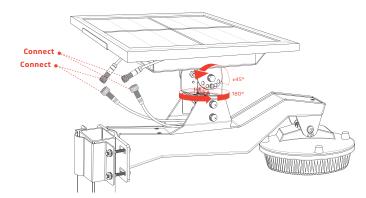


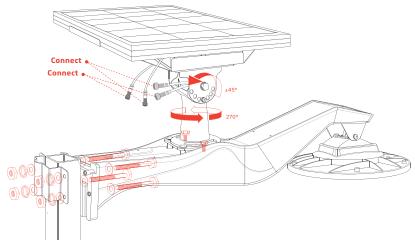


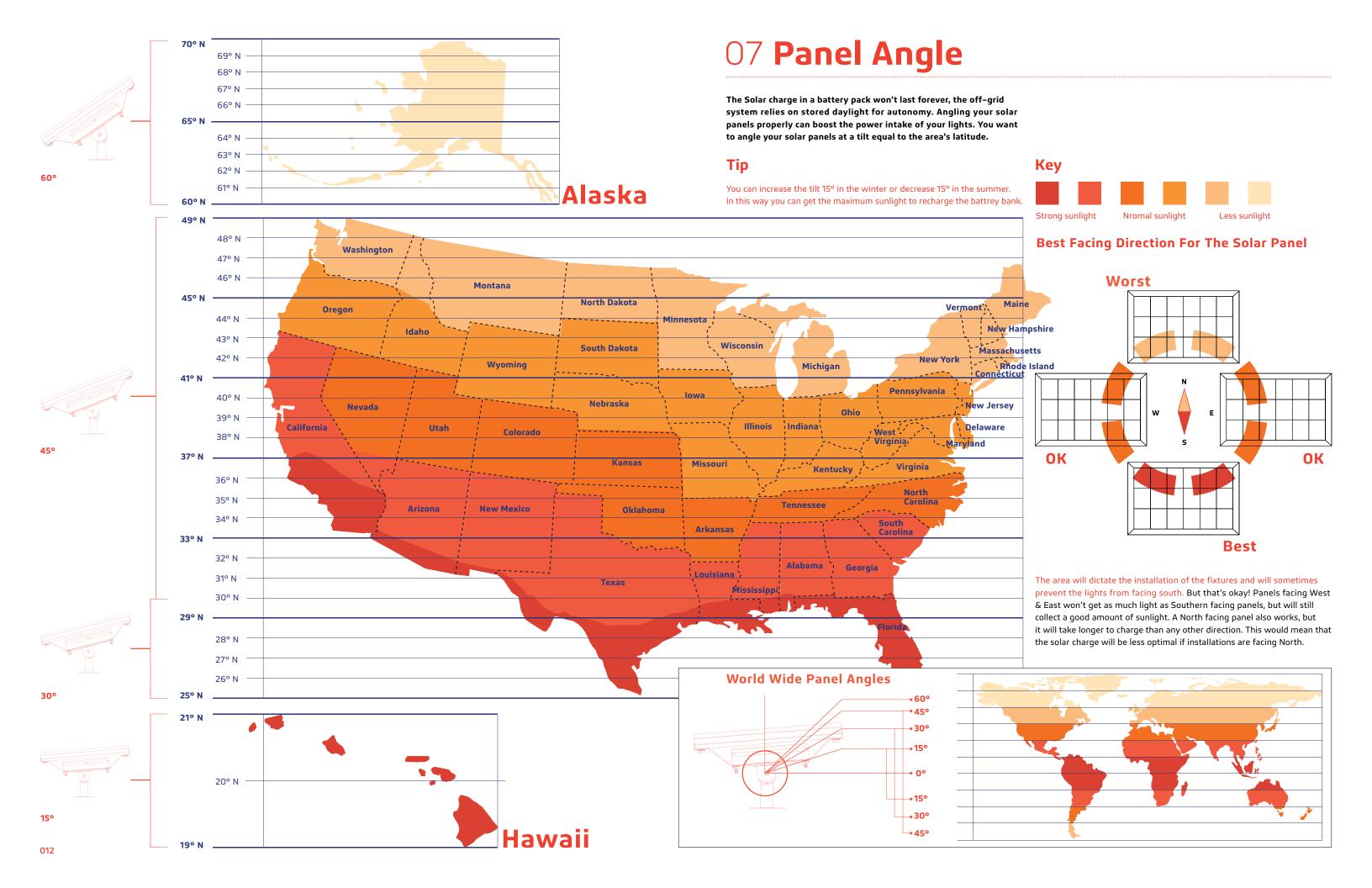


Loose screws of component kit A to rotate solar panel.

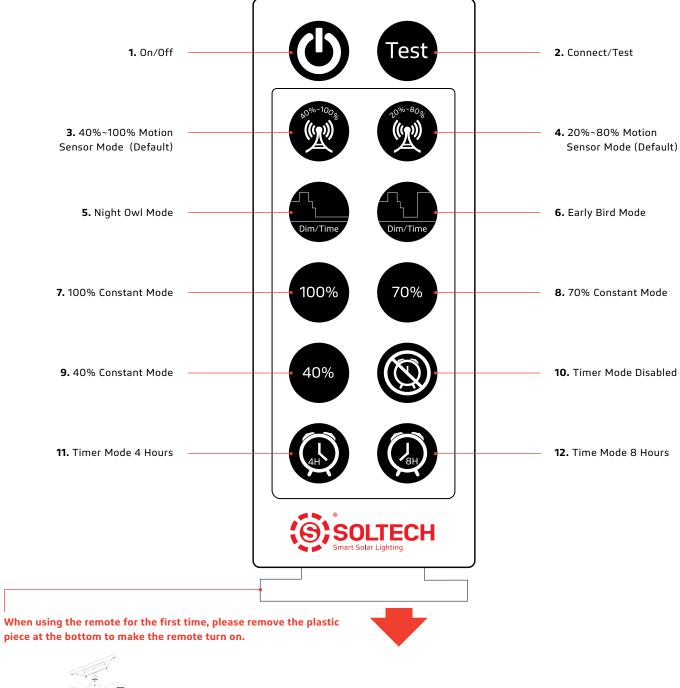
011



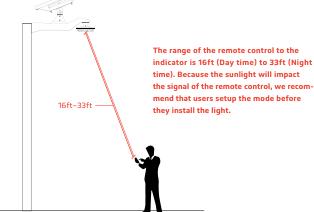




08 Remote Control Guide



piece at the bottom to make the remote turn on.

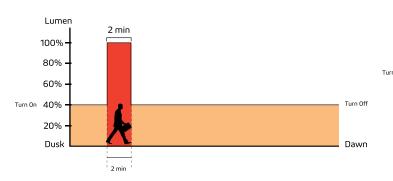


When off is selected, the light will stop working. The solar panel will not charge the battery and the battery will not supply electricity to the light.

Remote control device can be connected with any lighting fixture, one at a time. To connect, press the button once. It also functions as a test button. To test, press the "Test" button once, the red light will indicate the fixture is charging, green light indicates that the fixture is operating. Testing lasts for 10 seconds, and then it goes back to the mode previously in use.

3. 40%~100% Motion Sensor Mode

Constant 40% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.

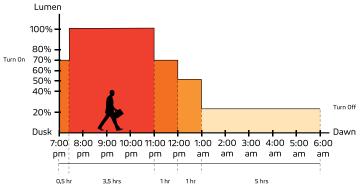


4. 20%~80% Motion Sensor Mode (Default)

Constant 20% brightness (turns on at dusk, turns off at dawn); 80% brightness turns on for 2 minutes when motionis detected.

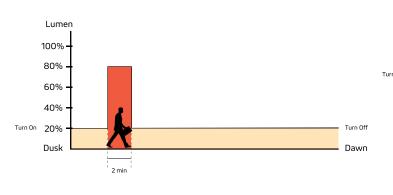
5. Night Owl Mode

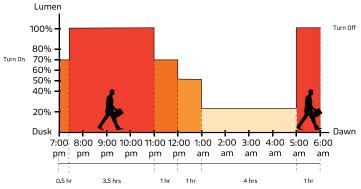
Changes as natural light decreases/increases (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 5 hours (turns off at Dawn).



6. Early Bird Mode

Changes as natural light decreases/increases with increased brightness near dawn for early risers (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 4 hours, 100% brightness for 1 hour (turns off at Dawn).





(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the CEGONIA under shady trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Prior to including this feature, selecting a light output percentage on the remote determined the constant percentage of max LED brightness. Now with (IAP), the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller now applies the selected percentage output on the remote to the battery capacity, rather than the max LED output. This smart-control feature can increase our off-grid performance by up to 40%.

Dusk and dawn time may be diffrent in other locations and seasons. The sensors of our products will follow the light patterns of where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes only.

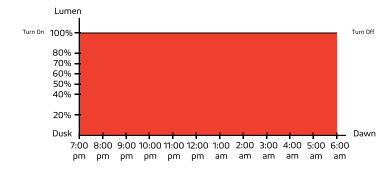
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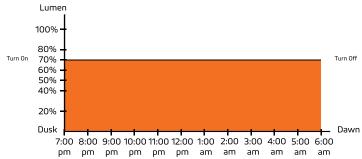
7. 100% Constant Mode

100% brightness from dusk to dawn.

8.70% Constant Mode

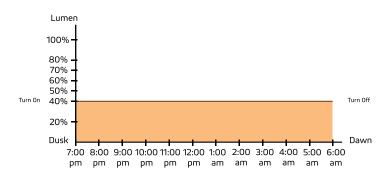
70% brightness from dusk to dawn.





9. 40% Constant Mode

40% brightness from dusk to dawn.

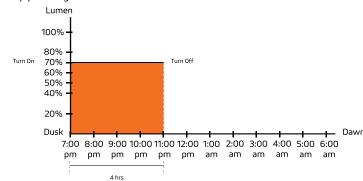


10. Timer Mode Disabled

Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

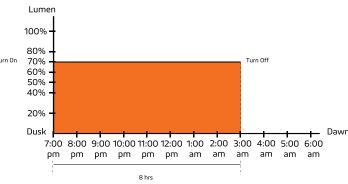
11. Timer Mode 4 Hours

This is an additional mode which can work with any other modes. For example: press this button at any time after you turn on 70% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 11pm. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.



12. Time Mode 8 Hours

This is an additional mode which can work with any other modes. For example: press this button at any time after you turn on 70% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 3am. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.



Important

Dusk and dawn time can vary for different locations and seasons.

The sensors in our products will monitor the light levels where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes.

CEGONIA products are covered by a 5 year limited warranty. SOLTECH urban light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 5 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.



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SOLTECH LLC reserves the right to update all product data sheets at any time. Consult SOLTECH marketing specialists for publication updates at hello@soltechlighting.com

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