SOLTECH
Smart Solar Lighting

CEGONIA BAA 8W 20W 30W

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

APPLICATIONS

CEGONIA features an LED engine ranging from 8W to 30W. It's perfect for areas where the design of the street lights needs to blend with the surrounding area. CEGONIA provides sufficient lighting for numerous applications, such as parking lots, courtyards, landscapes, pathways, bicycle lanes, park playgrounds and corporate campuses. With a two-piece design solution for the panel and lighting engine, these fixtures can easily provide up to 7+ days of operation on a full charge.

DESCRIPTION

Inspired by the image of a stork in flight, CEGONIA's design is artful, with graceful curves. However, it's the ease of installation and quality of light that will impress you most. This luminaire can be used for multiple applications, but it's in parking lots where its superior aesthetics and 90% downward light excel.

CERTIFICATION DATA

5 Years Warranty · HIGH LUMEN · IP65 · LM79 · PHILIPS · WET LOCATION · MSDS · UN38.3 · Level 12 WIND TEST

BUY AMERICAN ACT BAA COMPLIANT

ORDERING INFORMATION

SERIES	WATTAGE	COLOR TEMPERATURE	MOUNTING OPTIONS	FINISH
STLSTEBAA= CEGONIA BAA	**08**=8W 1600 LUMENS **20**=20W 4000 LUMENS **30**=30W 6000 LUMENS	**3**=3000K **4**=4000K **5**=5000K **6**=5700K	**WM**=WALL MOUNT **TRR**=TRUNNION ROUND **TRS**=TRUNNION SQUARE	**GY**=GRAY **WH**=WHITE **BR**=BRONZE

[　　　] - [　　　] - [　　　] - [　　　] - [　　　]

SPECIFICATION FEATURES

7 Days and 50+ Hours Max Autonomy
· UP to 384 WH battery capacity
· Full self-charging time less than 6.5 hrs
· One-key smart programming

Generates More Solar Energy
· Up to 64 W Mono Crystalline Solar Panel
· Angled solar panel provides maximum energy and self-cleaning of the panel surface

High Brightness, Smart Power Consumption
· 360-degree downward light disbursement
· >200 LM/W lighting efficiency

Longer Life
· Grade A LifePO4 Battery Pack, 2000+ full charging cycles
· Lumileds 5050 LED chips
· PC diffuser is UV-resistant

Universality for Different Orientations
· Pole mounting option and wall mounting option
· 270-degree rotation and large panel size work universally in high shade areas
· Rotating solar panel and rotating light engine

Elegant Design
· Perfect balance between a retro/classic design and the contemporary appearance of our latest solar technology

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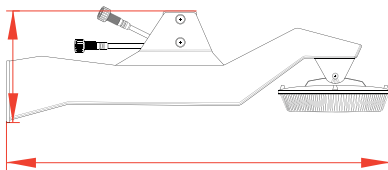| CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

PRODUCT SIZE

CEGONIA 8W
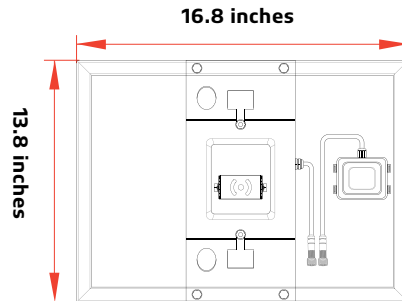SOLAR PANEL: 3.9 Lbs
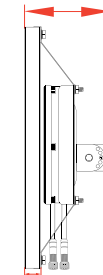SOLAR LAMP: 5.9 Lbs
BATTERY ASSEMBLY: 6.1 Lbs
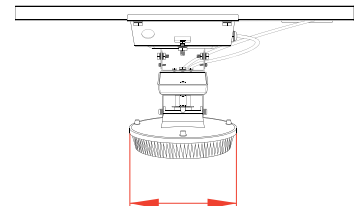
6.0 inches

22.5 inches

16.8 inches
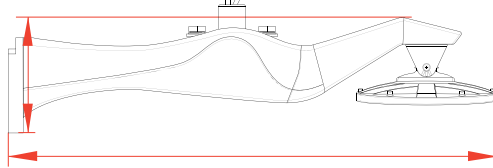
13.8 inches

5.0 inches

1.0 inches

7.5 inches
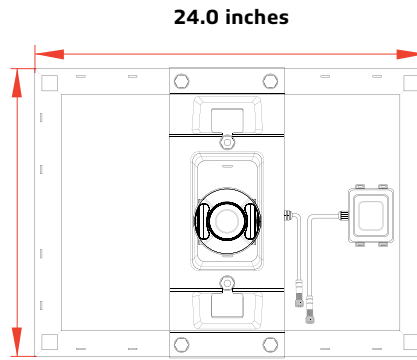
CEGONIA 20W
SOLAR PANEL: 8.2 Lbs
SOLAR LAMP: 12.1 Lbs
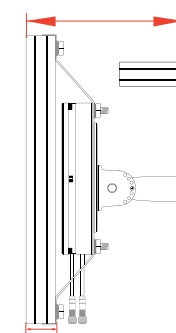BATTERY ASSEMBLY: 14.3 Lbs
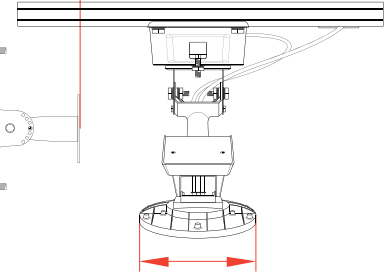
8.5 inches

20.1 inches

30.4 inches

24.0 inches
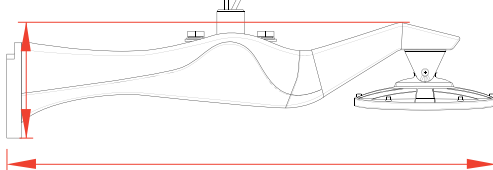
11.0 inches

1.2 inches

9.5 inches
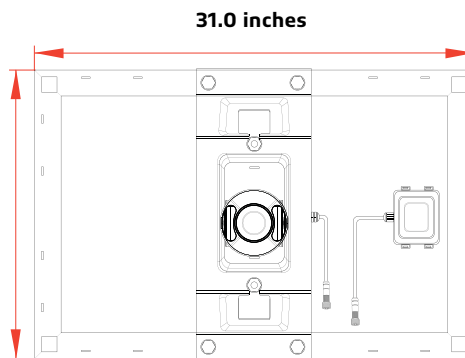
CEGONIA 30W
SOLAR PANEL: 9.9 Lbs
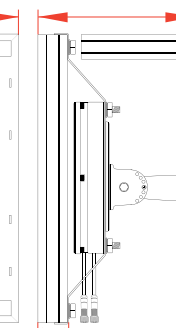SOLAR LAMP: 13.6 Lbs
BATTERY ASSEMBLY: 16.9 Lbs

8.5 inches

20.1 inches

30.4 inches

31.0 inches

11.0 inches

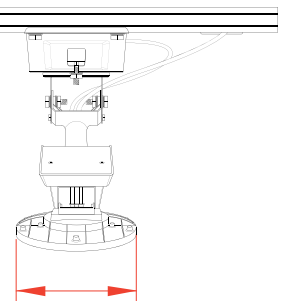1.2 inches

9.5 inches

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PROJECT			
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DATE			

SPECIFICATIONS

Specifications	CEGONIA 8W	CEGONIA 20W	CEGONIA 30W
LED Nominal Power	8W	20W	30W
Solar Panel	20W 18V	48W 18V	64W 18V
LiFePO$_4$ Battery	115WH 12.8V 9AH	256WH 12.8V 20AH	384WH 12.8V 30AH
Weight	15.9Lbs	34.6Lbs	40.4Lbs
Lumen Output@5000K	1600	4000	6000
CRI	> 70 (> 80 Optional)	> 70 (> 80 Optional)	> 70 (> 80 Optional)
LED Chip	Lumileds 5050 (215lm-CR>70)	Lumileds 5050 (215lm-CR>70)	Lumileds 5050 (215lm-CR>70)
EPA@45º	2.12 ft^2	4.11 ft^2	4.94 ft^2
Waterproof Rate	IP65	IP65	IP65
Casting	Aluminum	Aluminum	Aluminum
Efficiency@5000K	200lm/W	200lm/W	200lm/W
*Charging Time	6hrs	6hrs	6hrs
Operation Mode	Remote control and One-key Setting	Remote control and One-key Setting	Remote control and One-key Setting
Installation Height	6–13 ft	9–16 ft	9–20 ft
*Operating Temperature	-4 to 122˚F	-4 to 122˚F	-4 to 122˚F
*Charging Temperature	32 ˚F to 149 ˚F	32 ˚F to 149 ˚F	32 ˚F to 149 ˚F
Maximum Autonomy@Full Power			
Motion Sensor Mode	**40%–100%** 35hrs **20%–80%** 55hrs	**40%–100%** 35hrs **20%–80%** 55hrs	**40%–100%** 35hrs **20%–80%** 55hrs
Time Control Mode	**Night Owl** 28hrs **Early Bird** 25hrs	**Night Owl** 28hrs **Early Bird** 25hrs	**Night Owl** 28hrs **Early Bird** 25hrs
Constant Mode	**100%** 12hrs **70%** 17hrs **40%** 30hrs	**100%** 11hrs **70%** 15.5hrs **40%** 27hrs	**100%** 11hrs **70%** 15.5hrs **40%** 27hrs

* The temperature can impact the battery's charging and normal operation. If your place's tempera-
ture is under 32ºF, we advice you to use the SUNLIKE PRO version to achieve better lighting results.
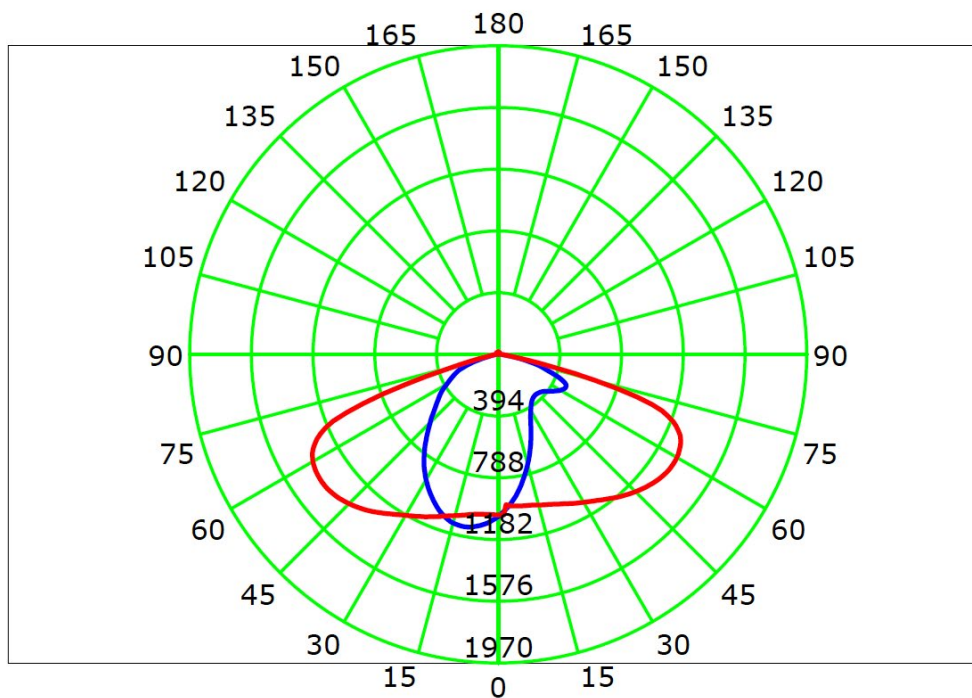
* The solar charge time data is base on 77 degree F ambient temperature with the
panel pointed directly at the solar radiation. The standard radiation value is 1000W/m².

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CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

IES / BEAM
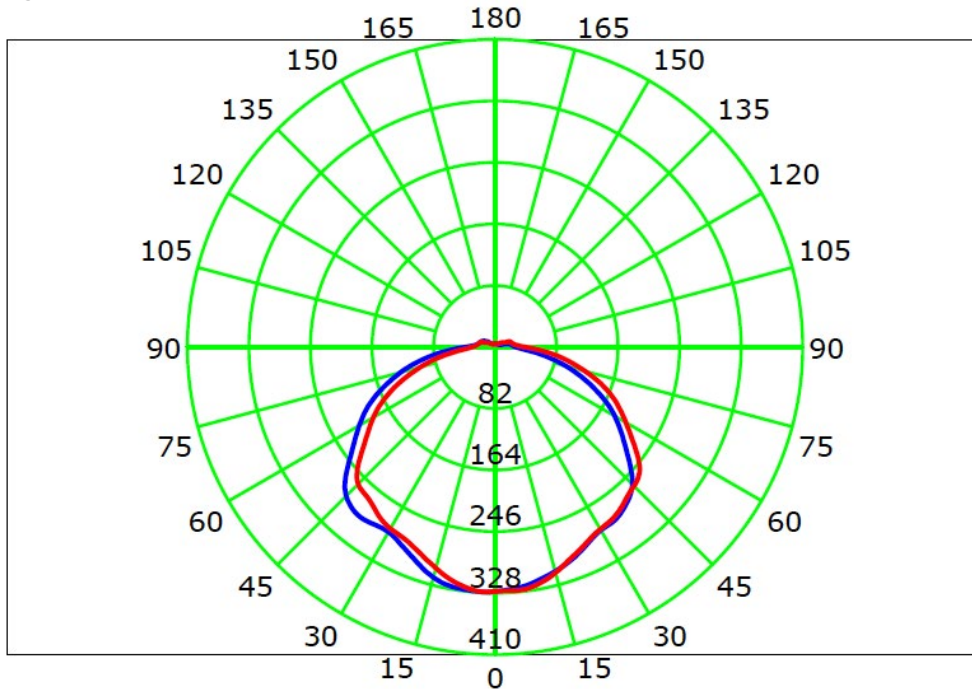
CEGONIA 8W Type III

CEGONIA 20W Type III

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CEGONIA BAA 8W 20W 30W

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

CEGONIA 30W Type III

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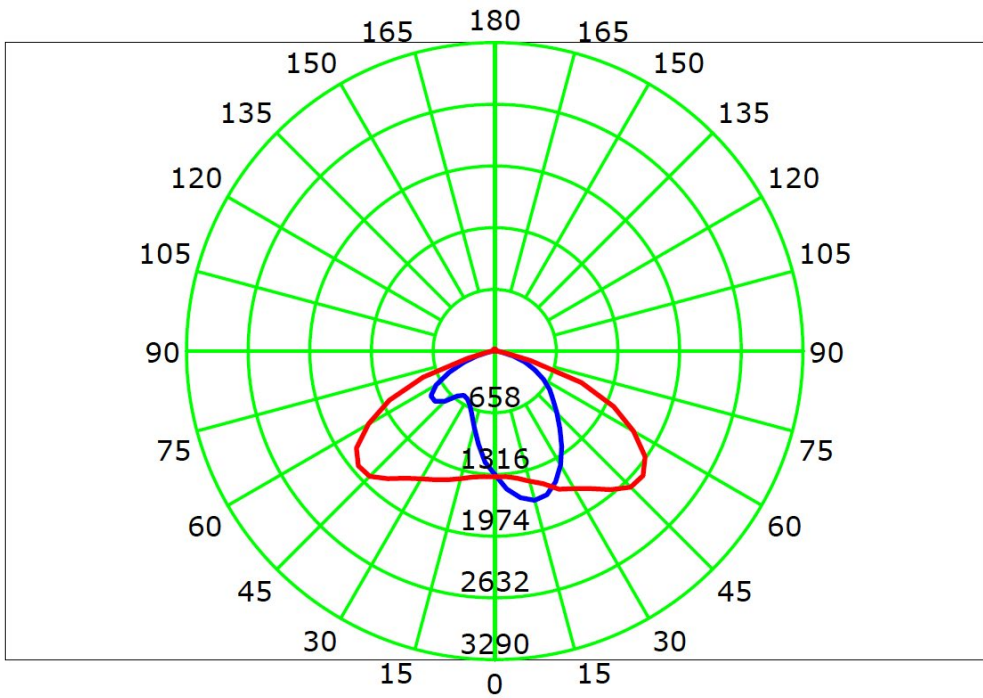
CEGONIA BAA 8W 20W 30W

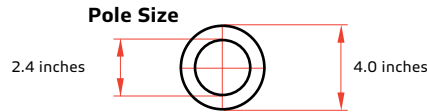| CATALOG		COMMENTS
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DATE		

INSTALLATION ACCESSORIES

A. TRUNNION—Wall Mount

4.0 inches
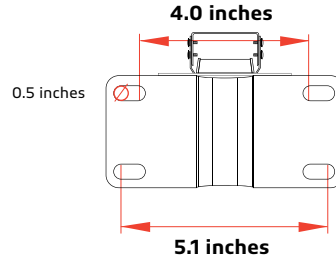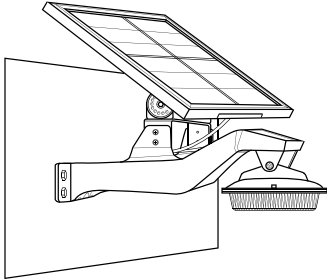
0.5 inches

5.1 inches

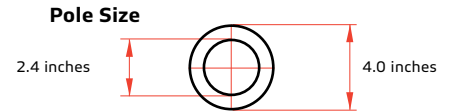A-a. STLSTE-08-WM (for CEGONIA 8W)

6.8 inches

0.5 inches

0.2 in
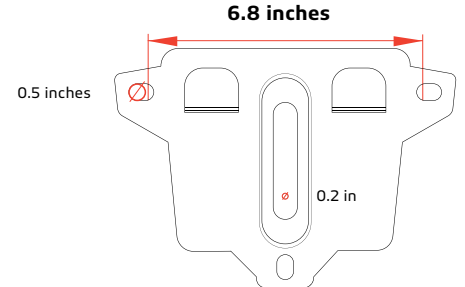
A-b. STLSTE-20/30-WM (for CEGONIA 20W/30W)

B. TRUNNION—Round

0.5 inches

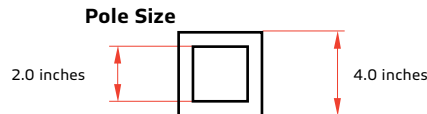**5.1 inches**

Pole Size
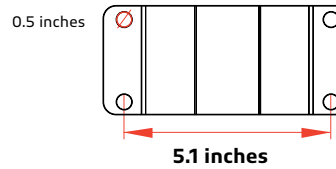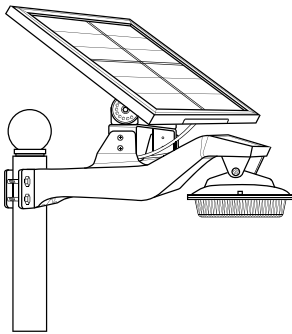
2.4 inches   4.0 inches
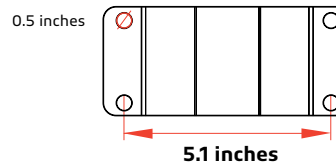
B-a. STLSTE-08-TRR (for CEGONIA 8W)
works with 2.4 inches to 4.0 inches poles.

0.5 inches

5.1 inches

Pole Size
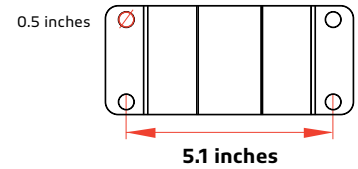
2.4 inches   4.0 inches

B-b. STLSTE-20/30-TRR (for CEGONIA 20W/30W)
works with 2.4 inches to 4.0 inches poles.

C. TRUNNION—Square

0.5 inches

5.1 inches

Pole Size
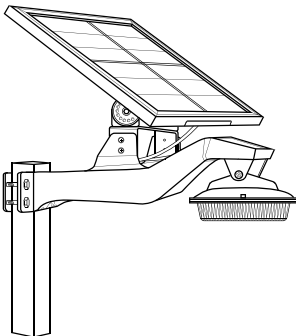
2.0 inches   4.0 inches

C-a. STLSTC-08-TRS (for CEGONIA 8W)
works with 2.0 inches to 4.0 inches poles.

0.5 inches
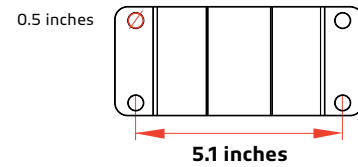
5.1 inches

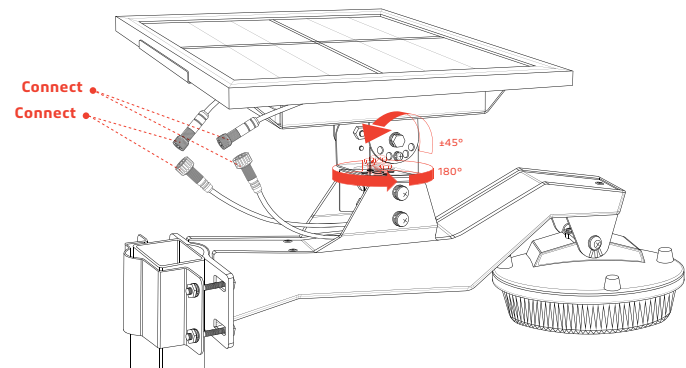**Pole Size**
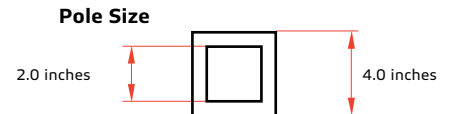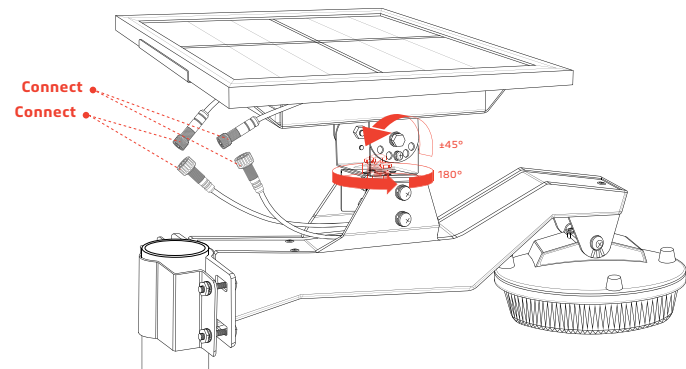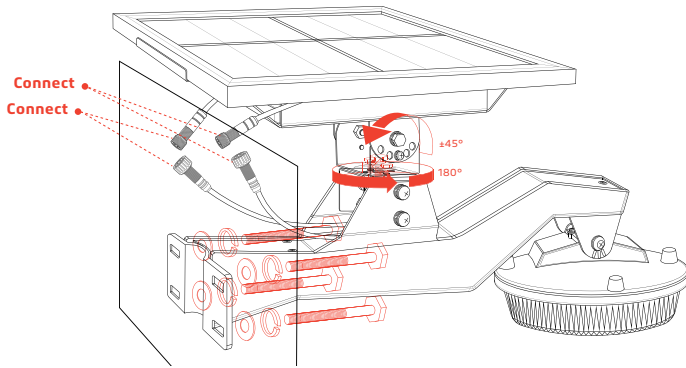
2.0 inches   4.0 inches

C-b. STLSTC-20/30-TRS (for CEGONIA 20W/30W)
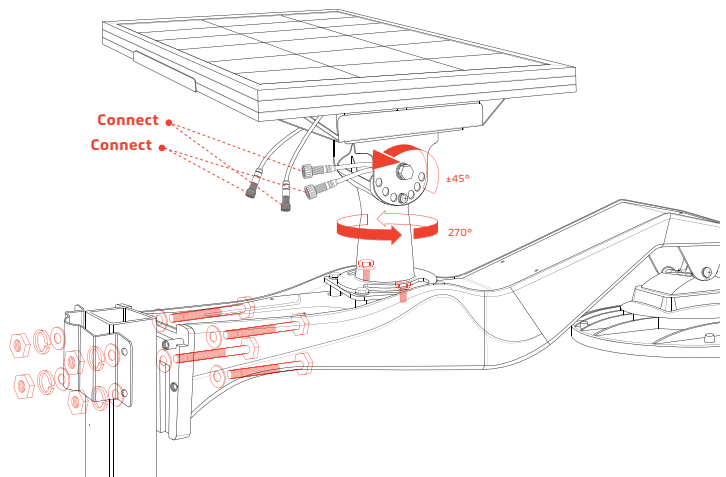works with 2.0 inches to 4.0 inches poles.

CEGONIA BAA 8W 20W 30W

(8W)

(20W, 30W)

Connect
Connect
±45°
180°

Connect
Connect
±45°
270°

Connect
Connect
±45°
180°

Connect
Connect
±45°
270°

Connect
Connect
±45°
180°
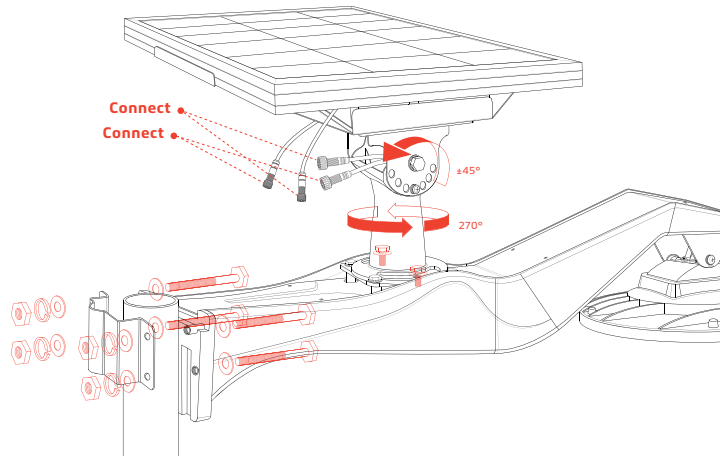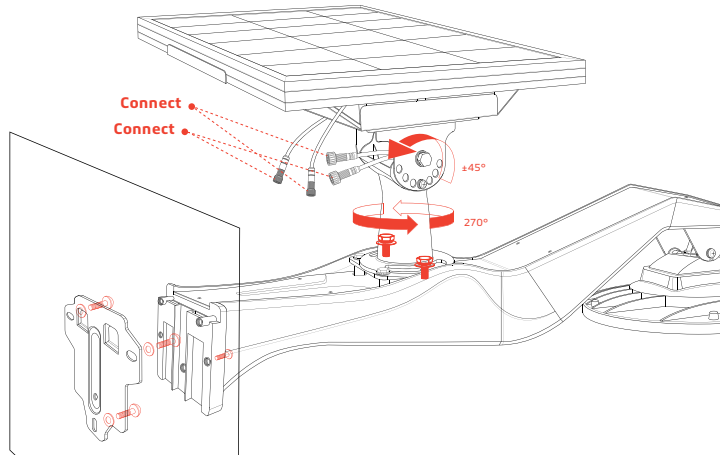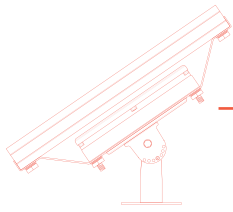
Connect
Connect
±45°
270°

70° N
69° N
68° N
67° N
66° N
65° N
64° N
63° N
62° N
61° N
60° N

Alaska

60°
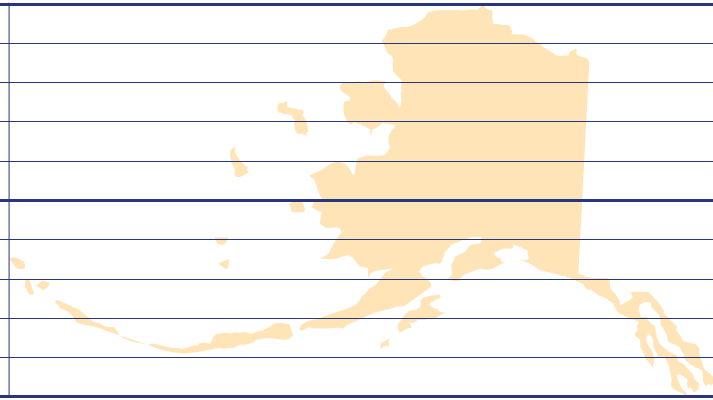
49° N
48° N
47° N
46° N
45° N
44° N
43° N
42° N
41° N
40° N
39° N
38° N
37° N
36° N
35° N
34° N
33° N
32° N
31° N
30° N
29° N
28° N
27° N
26° N
25° N

45°

Washington
Montana
North Dakota
Oregon
Idaho
Minne
South Dakota
Wyoming
Nevada
Nebraska
California
Utah
Colorado
Kansas
Arizona
New Mexico
Oklahoma
Texas

30°

21° N
20° N
19° N

Hawaii

15°

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The solar charge in a battery pack won't last forever. The off-grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.
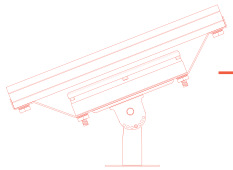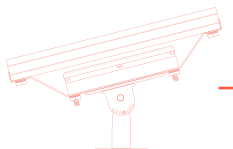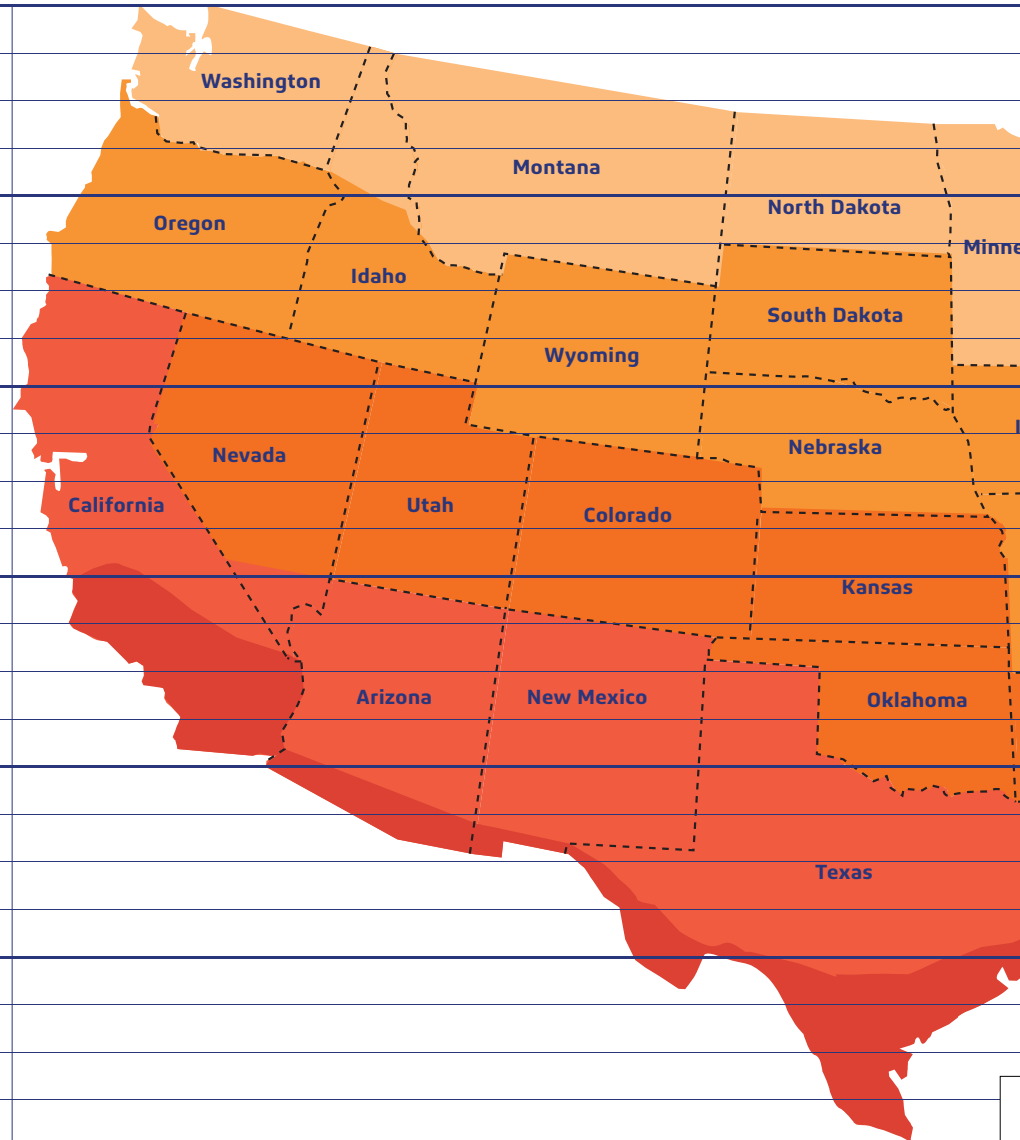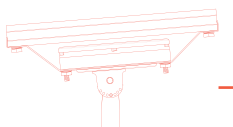
Tip

You can increase the tilt 15° in the winter or decrease 15° in the summer. In this way you can get the maximum sunlight to recharge the battrey.

Key

Strong sunlight   Normal sunlight   Less sunlight

Best Facing Direction For The Solar Panel

Worst

N
W   E
S

OK   **OK**

Best
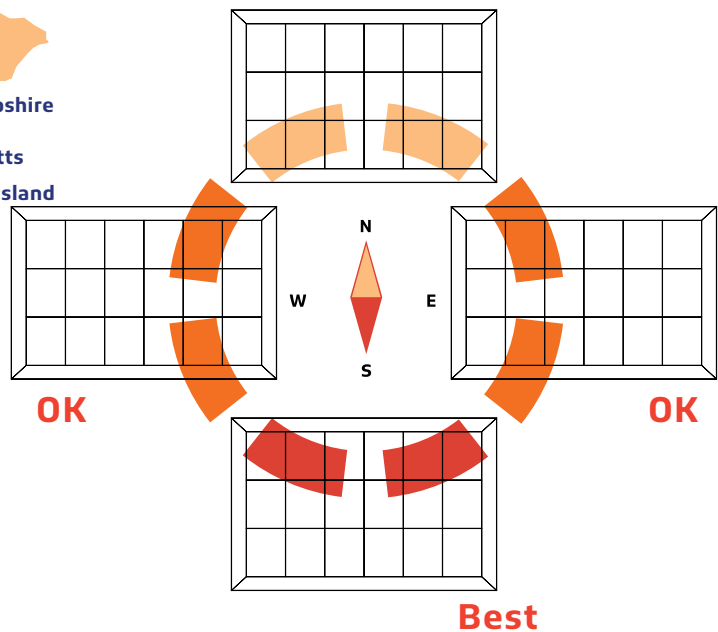
The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. But that's okay! Panels facing West & East won't get as much light as Southern facing panels, but will still collect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.

Vermont
Maine
New Hampshire
Wisconsin
Massachusetts
New York
Rhode Island
Michigan
Connecticut
Pennsylvania
New Jersey
Ohio
Illinois   Indiana   Delaware
West Virginia
Maryland
Missouri
Kentucky   Virginia
North Carolina
Tennessee
South Carolina
Arkansas
Alabama   Georgia
Louisiana
Mississippi
Florida
esota
Iowa

World Wide Panel Angles

60°
45°
30°
15°
0°
15°
30°
45°

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PROJECT		
PREPARED BY		
DATE		

REMOTE CONTROLS

1. On/Off

2. Connect/Test

3. 40%~100% Motion Sensor Mode

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

5. Night Owl Mode — Dim/Time

6. Early Bird Mode — Dim/Time

7. 100% Constant Mode

8. 70% Constant Mode

9. 40% Constant Mode

10. Timer Mode Disabled

11. Timer Mode 4 Hours

12. Time Mode 8 Hours

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When using the remote for the first time, please remove the plastic piece at the bottom to make the remote turn on.
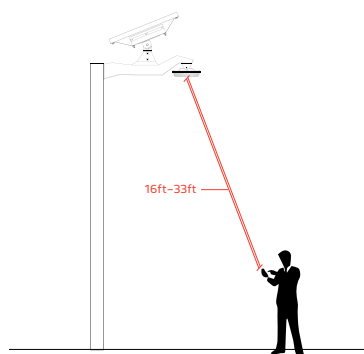
The range of the remote control to the indicator is 16ft (Day time) to 33ft (Night time). Because the sunlight will impact the signal of the remote control, we suggest our users to setup the mode before they install the light.

16ft–33ft

1. On/Off
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.

### 2. Connect/Test
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.

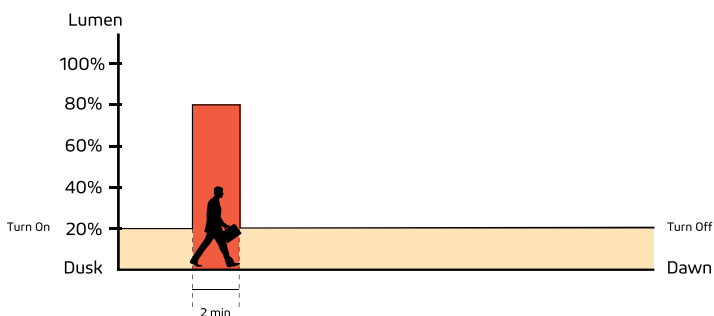| CATALOG		COMMENTS
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REMOTE CONTROLS

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.
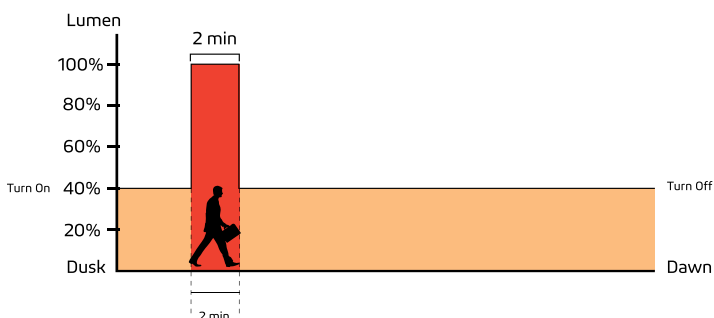
4. 20%~80% Motion Sensor Mode (Default)
Constant 20% brightness (turns on at dusk, turns off at dawn); 80% brightness turns on for 2 minutes when motionis detected.

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).
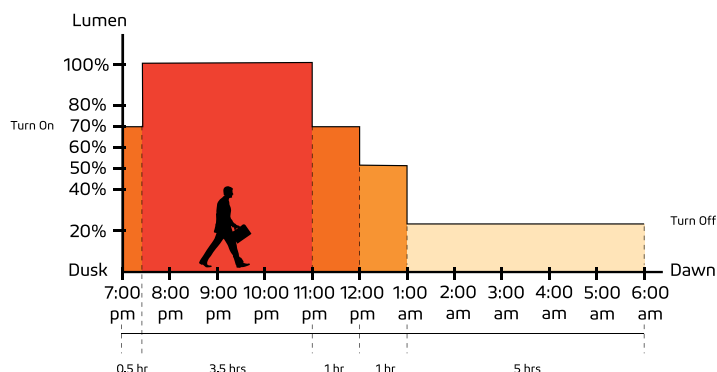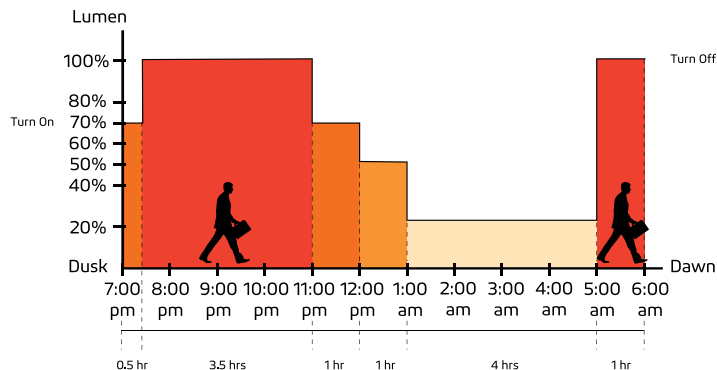

(IAP) Intelligent Adaptive Program Battery Control Technology
In order to extend the off-grid autonomy of the CEGONIA under shady trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. 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%.

Important
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.
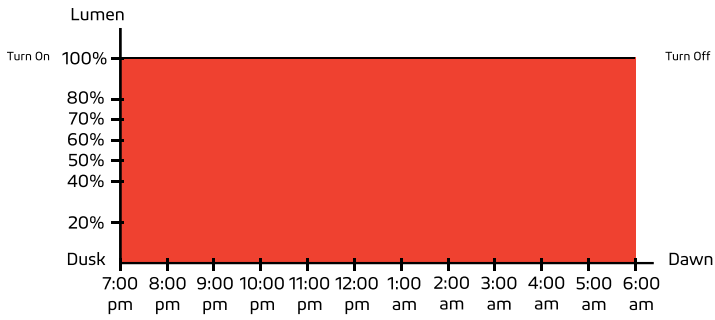
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CEGONIA BAA 8W 20W 30W

CATALOG		COMMENTS
PROJECT		
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DATE		

REMOTE CONTROLS

7. 100% Constant Mode
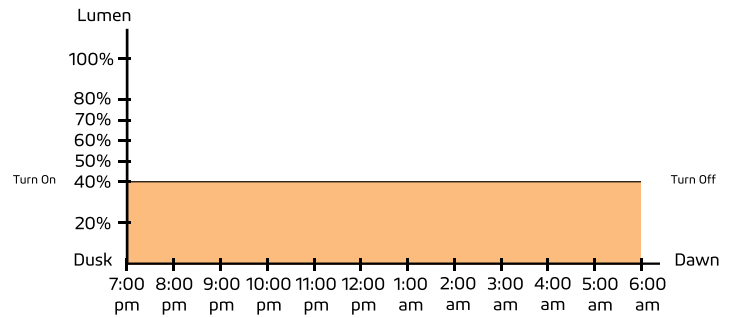100% brightness from dusk to dawn.

8. 70% Constant Mode
70% brightness from dusk to dawn.
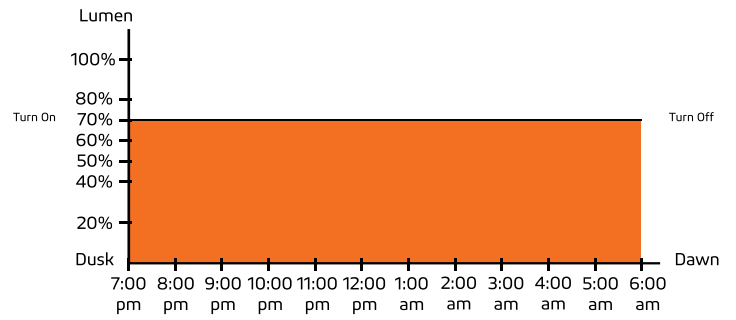
9. 40% Constant Mode
40% brightness from dusk to dawn.

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

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®
Smart Solar Lighting

CEGONIA BAA 8W 20W 30W

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

REMOTE CONTROLS

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.
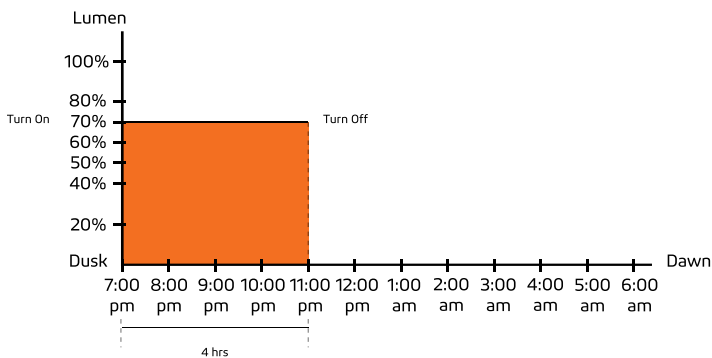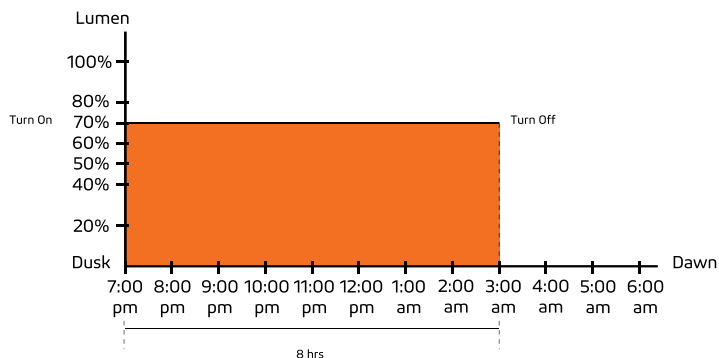

12. Time Mode 8 Hours

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.

SOLTECH
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WARRANTY

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.

SOLTECH
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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