



CEGONIA PRO 30W

APPLICATIONS

CEGONIA PRO 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. CEGONIA PRO is the spec-grade LED solar lighting solution for most cold-weather commercial applications. The fixture employs a super cold-tolerant battery technology which provides excellent low-temperature charge and discharge performance.

DESCRIPTION

Even in winter months, if sunlight is hitting a solar panel, it will generate electricity. Cold climates are actually optimal for solar panel efficiency. Contrary to common belief, heat diminishes the solar panel's electricity production. SOLTECH adopted unique, innovative battery technology to overcome the shortcomings of solar lighting system's cold weather performance. The super cold-tolerant battery technology in the CEGONIA PRO 30W provides excellent low-temperature charge and discharge performance.

ORDERING INFORMATION

SERIES	WATTAGE	OPTIC TYPE	COLOR TEMPERATURE	MOUNTING OPTIONS	FINISH
STLSTEPRO=CEGONIA PRO	30=30W 6,000 Lumens	T2=TYPE II T3=TYPE III T4=TYPE IV	3=3,000K 4=4,000K 5=5,000K 6=5,700K	WM=Wall Mount TRR=Trunnion Round TRS=Trunnion Square	GY=Gray BR=Bronze

- - - - -

SPECIFICATION FEATURES

MPPT Controller

- Maximum Power Point Tracking (MPPT) is a technique for tracking and regulating the output energy from the solar panel to the battery.
- Measures the solar panel output voltage and current in real-time and continuously tracks the maximum power.
- Regulates the output voltage so that the system can always charge the battery with the maximum power.
- Significantly improves the solar system energy utilization rate, with a conversion efficiency up to 97%.
- Increases the solar system's charging efficiency by at least 20% compared to Pulse Width Modulation (PWM).

CATALOG	PROJECT	COMMENTS

CERTIFICATION DATA



(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the CEGONIA PRO 30W under shade 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. Activating the IAP, the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes the light output of a selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase the fixture's off-grid performance by up to 40%.



CEGONIA PRO 30W

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

SPECIFICATION FEATURES



50+ Hours Max Autonomy

- 300 WH battery capacity
- Full self-charging time 11 hrs
- Remote control included with one-button mode settings



Generates More Solar Energy

- 64W 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 Superior 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

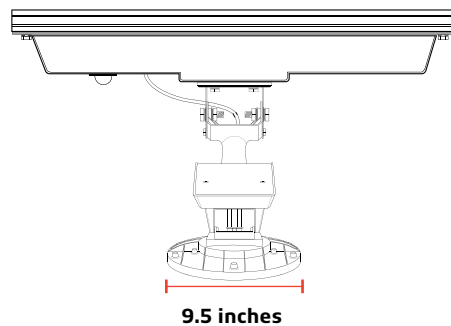
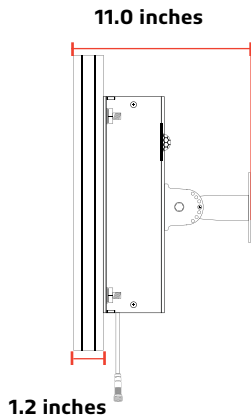
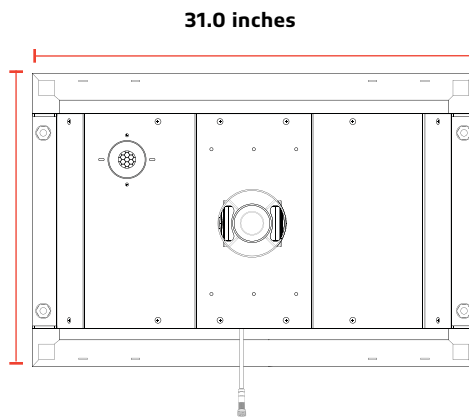
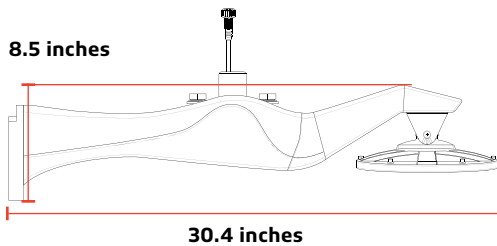
- Perfect balance between a retro/classic design and the contemporary appearance of our latest solar technology

PRODUCT SIZE

SOLAR PANEL: 9.9 Lbs

SOLAR LAMP: 13.6 Lbs

BATTERY ASSEMBLY: 25.9 Lbs



CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

SPECIFICATIONS

LED Nominal Power	30W
Solar Panel	18V 64W
Superior Battery	300WH 12.0V 25AH Superior Battery
Weight	49.4 Lbs
Lumen Output@5000K	6,000
CRI	> 70
LED Chip	Lumileds 5050 (215lm-CR>70)
* EPA@45°	5.0
Waterproof Rate	IP65
Casting	Aluminum
Efficiency@5000K	200 lm/W
* Charging Time	9 hrs
Run Time (@Full Power)	10 hrs
Operation Mode	Remote control and One-key Setting
Installation Height	9 to 20 ft
* Operating Temperature	-40°C/-40°F to 140°F
* Charging Temperature	-40°C/-40°F to 140°F
Maximum Autonomy	
Motion Sensor Mode	40%-100% 25 hrs 20%-80% 50 hrs
Time Control Mode	Night Owl 23 hrs Early Bird 20 hrs
Constant Mode	100% 11 hrs 70% 15 hrs 40% 26 hrs

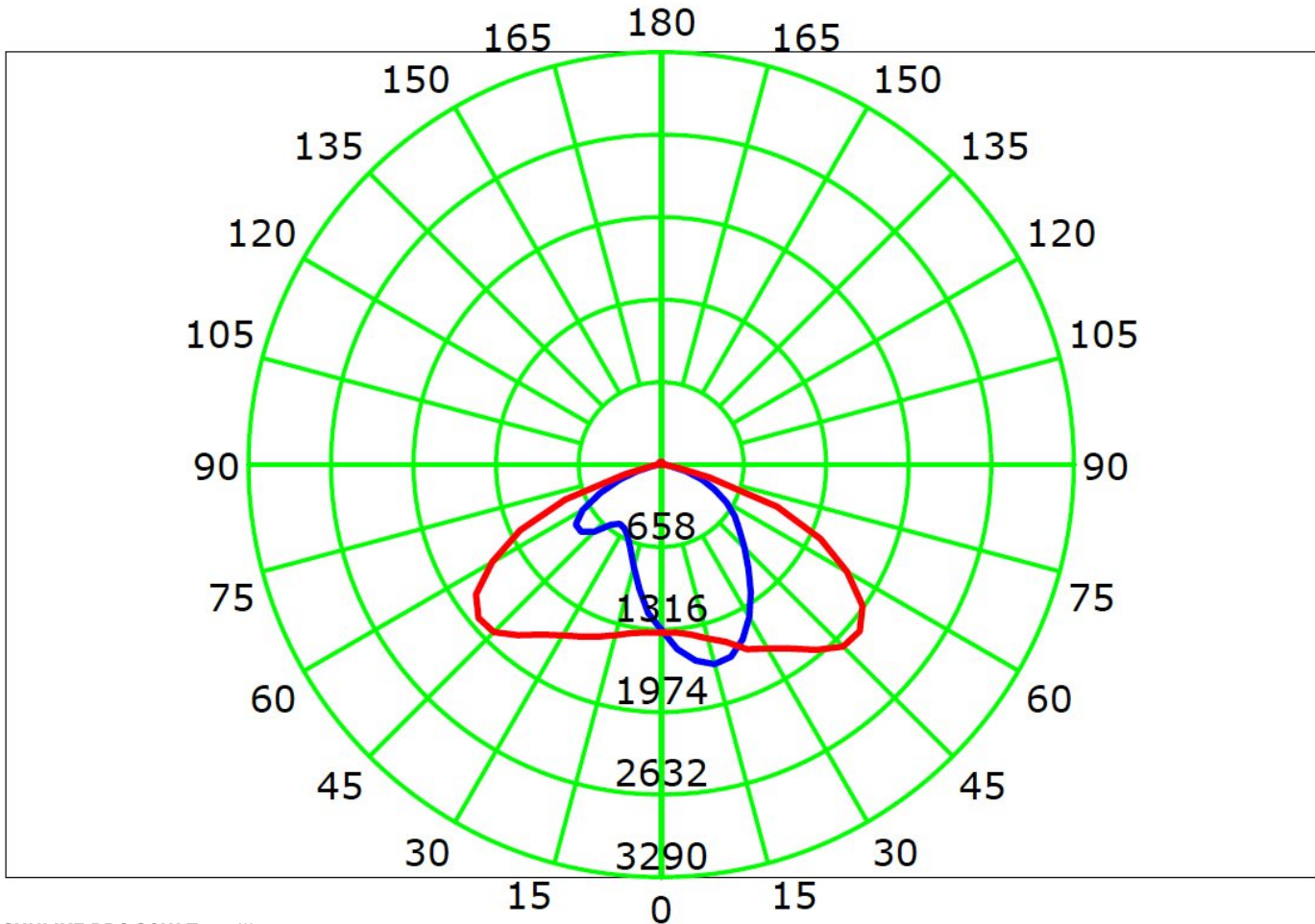
* For more information of EPA data, Please contact SOLTECH team. 45° solar panel tilt angle is not a suggested angle for all installations of SOLTECH solar products.

* The temperature can impact the battery's charging and normal operation.

* 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.

CATALOG	PROJECT	COMMENTS

IES / BEAM

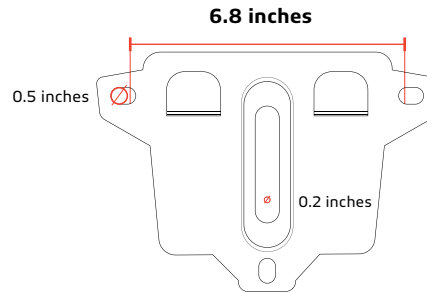
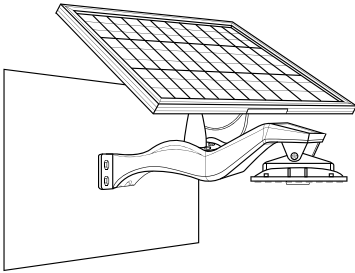


SUNLIKE PRO 30W Type III

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

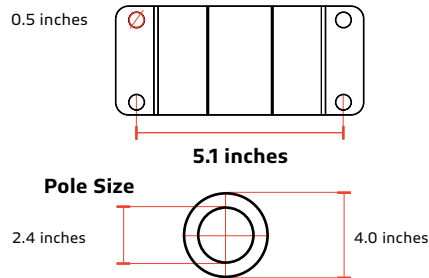
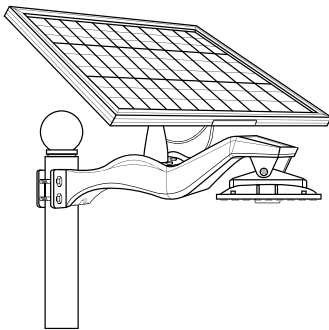
INSTALLATION ACCESSORIES

A. TRUNNION—Wall Mount



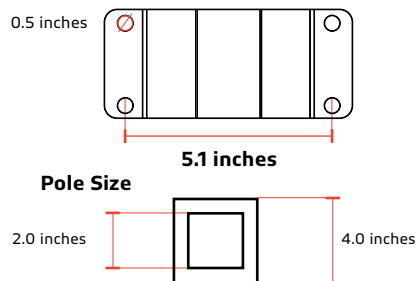
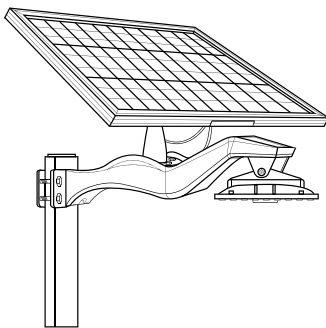
A-b. STLSTEPRO-30-WM (for CEGONIA PRO 30W)

B. TRUNNION—Round



B-b. STLSTEPRO-30-TRR (for CEGONIA PRO 30W)
works with 2.4 inches to 4.0 inches poles.

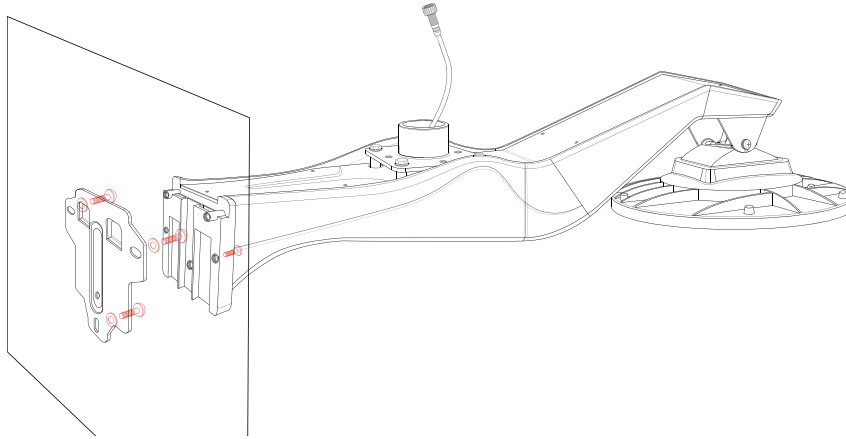
C. TRUNNION—Square



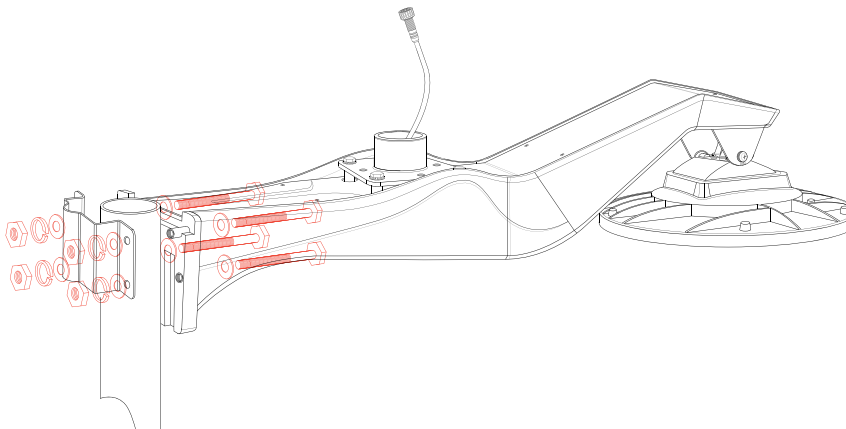
C-b. STLSTEPRO-30-TRS (for CEGONIA PRO 30W)
works with 2.0 inches to 4.0 inches poles.

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

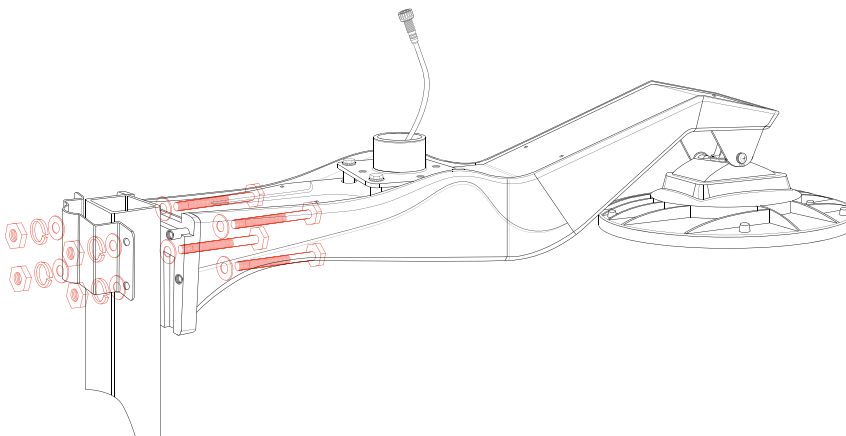
TRUNNION
—Wall Mount



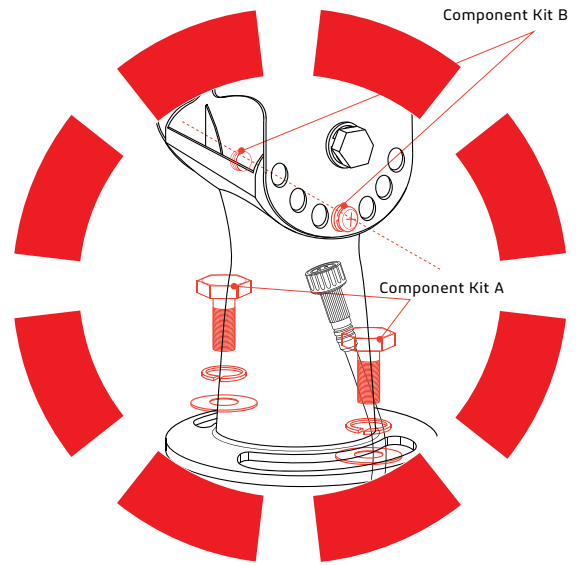
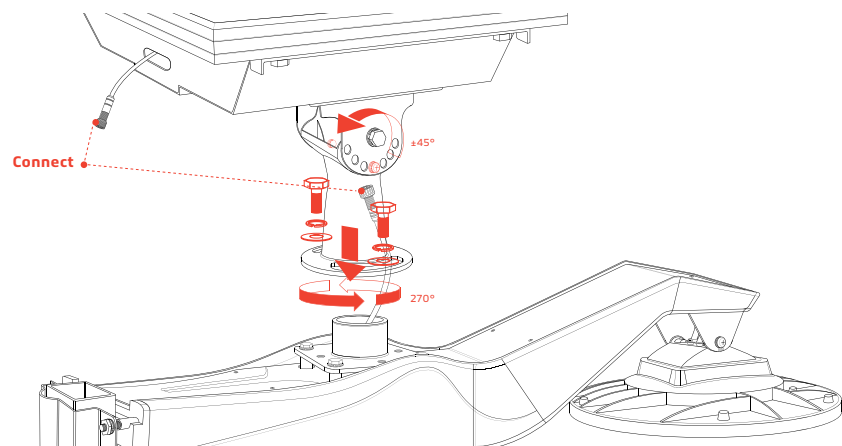
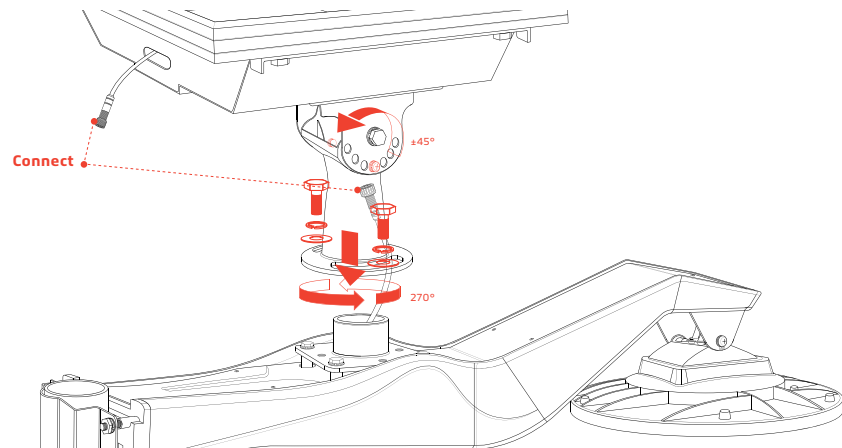
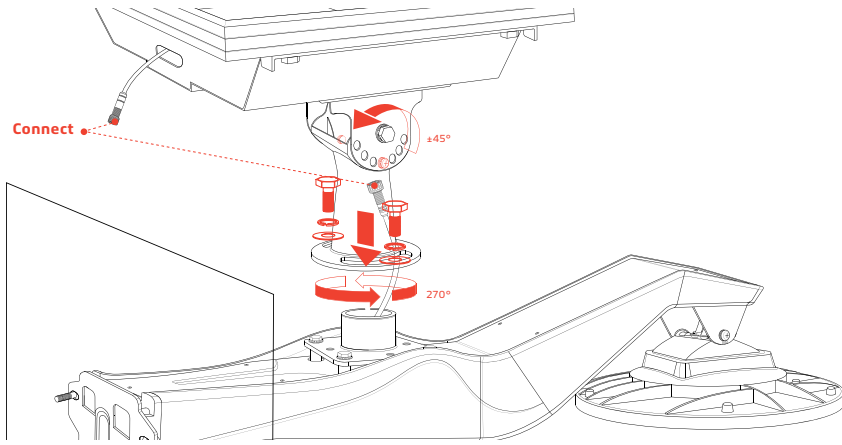
TRUNNION
—Round



TRUNNION
—Square

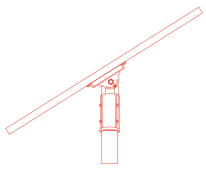


CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		



Loose screws of component kit B to adjust the angle of solar panel.

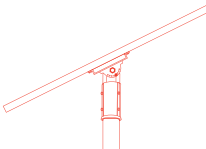
Loose screws of component kit A to rotate solar panel.



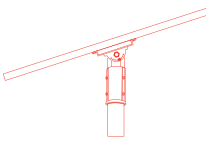
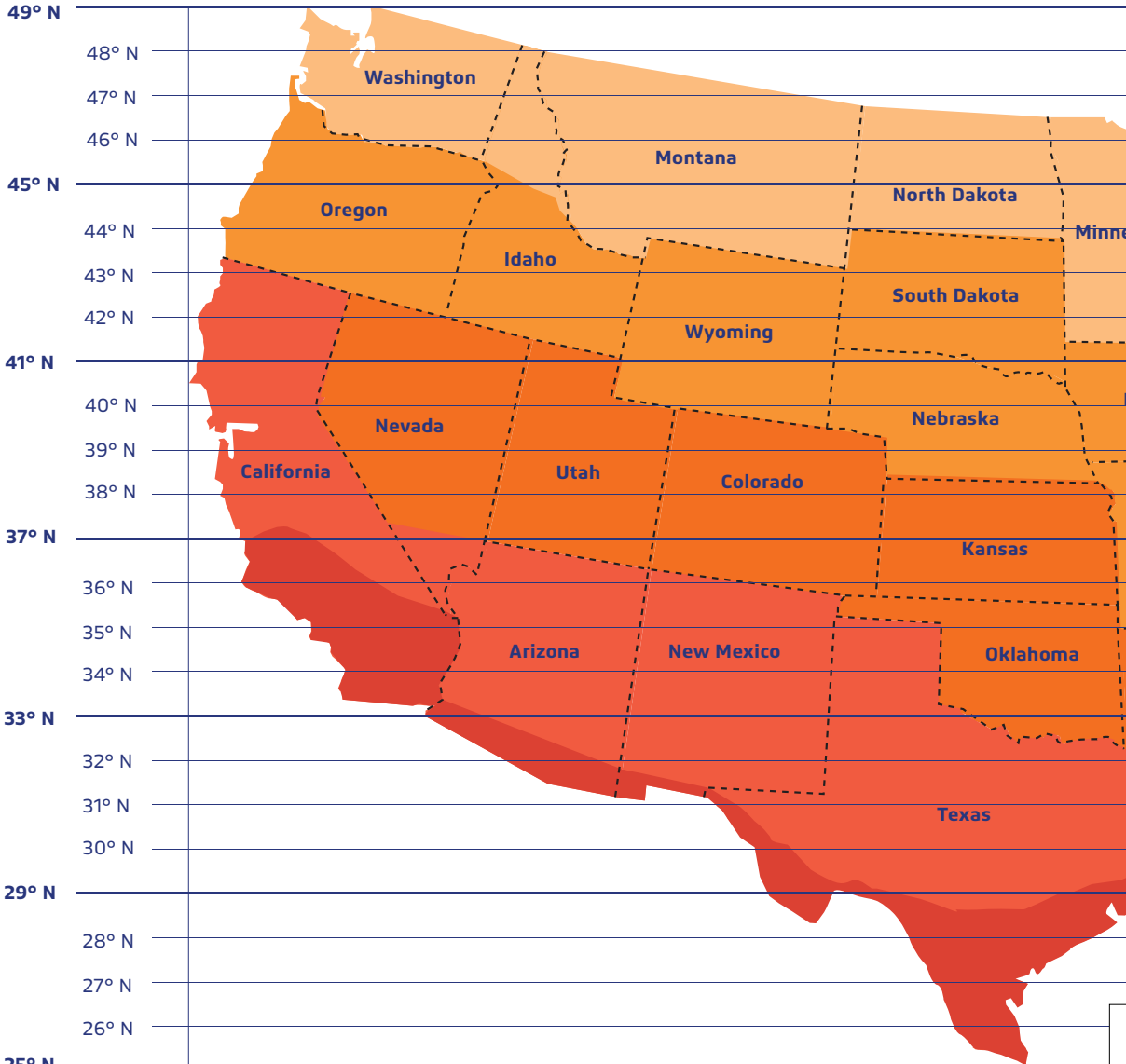
60°



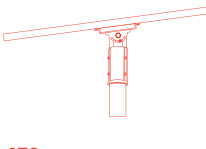
Alaska



45°

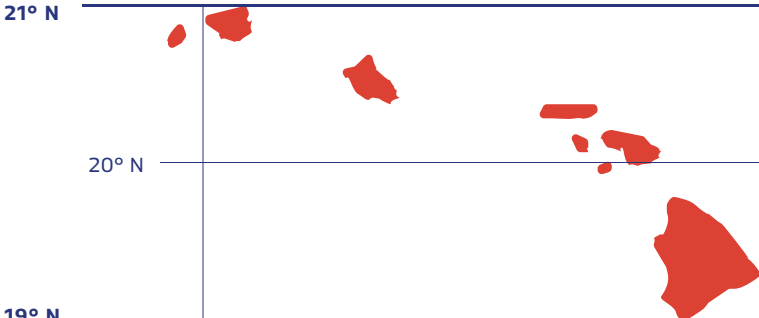


30°



15°

08



Hawaii

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

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.

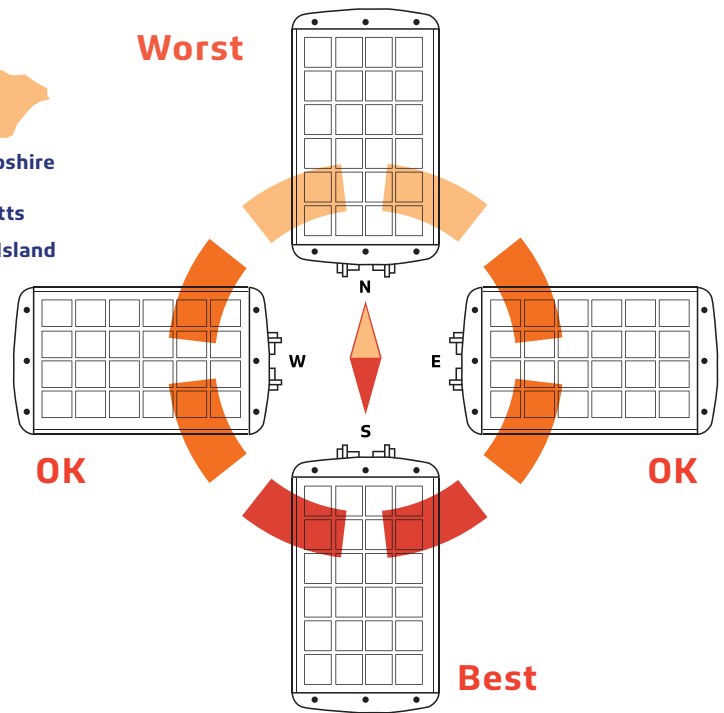
Tip

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 battery

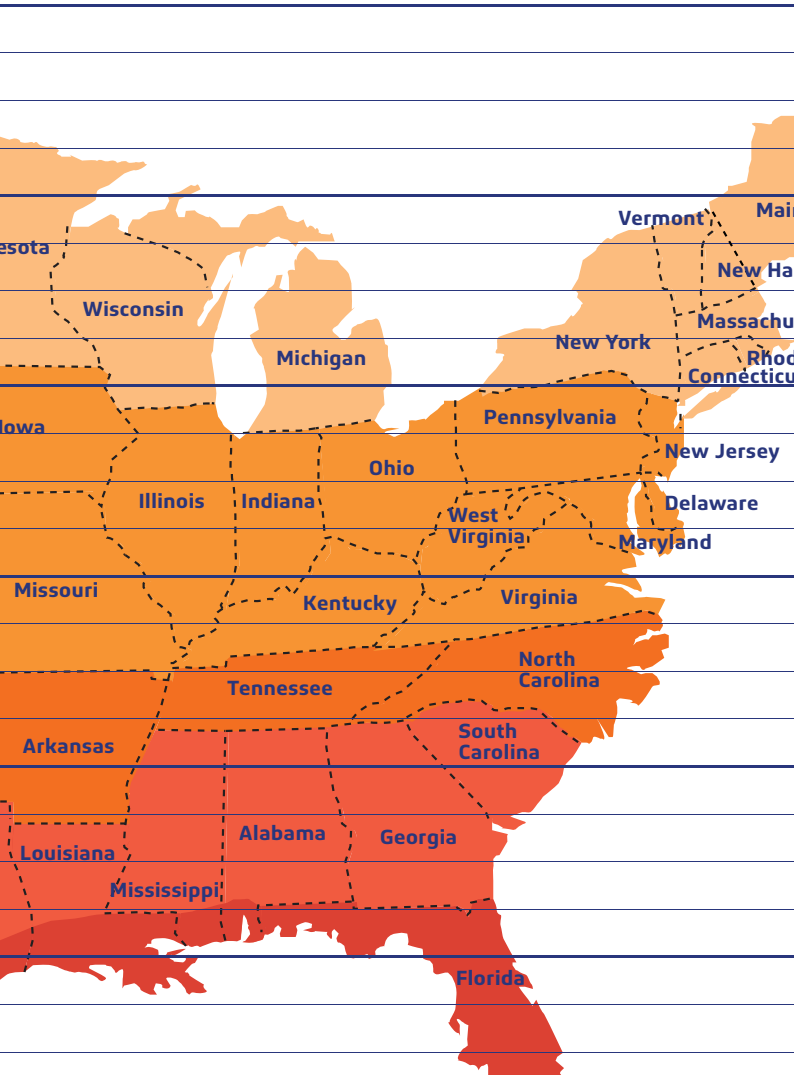
Key



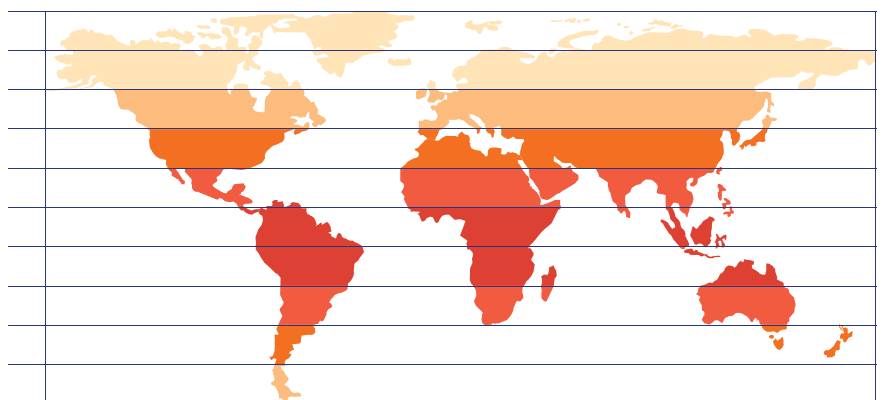
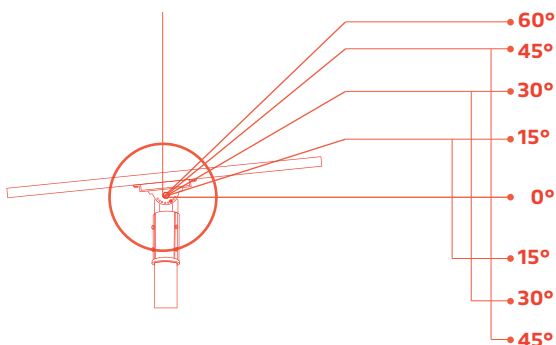
Best Facing Direction of Solar Panel



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.

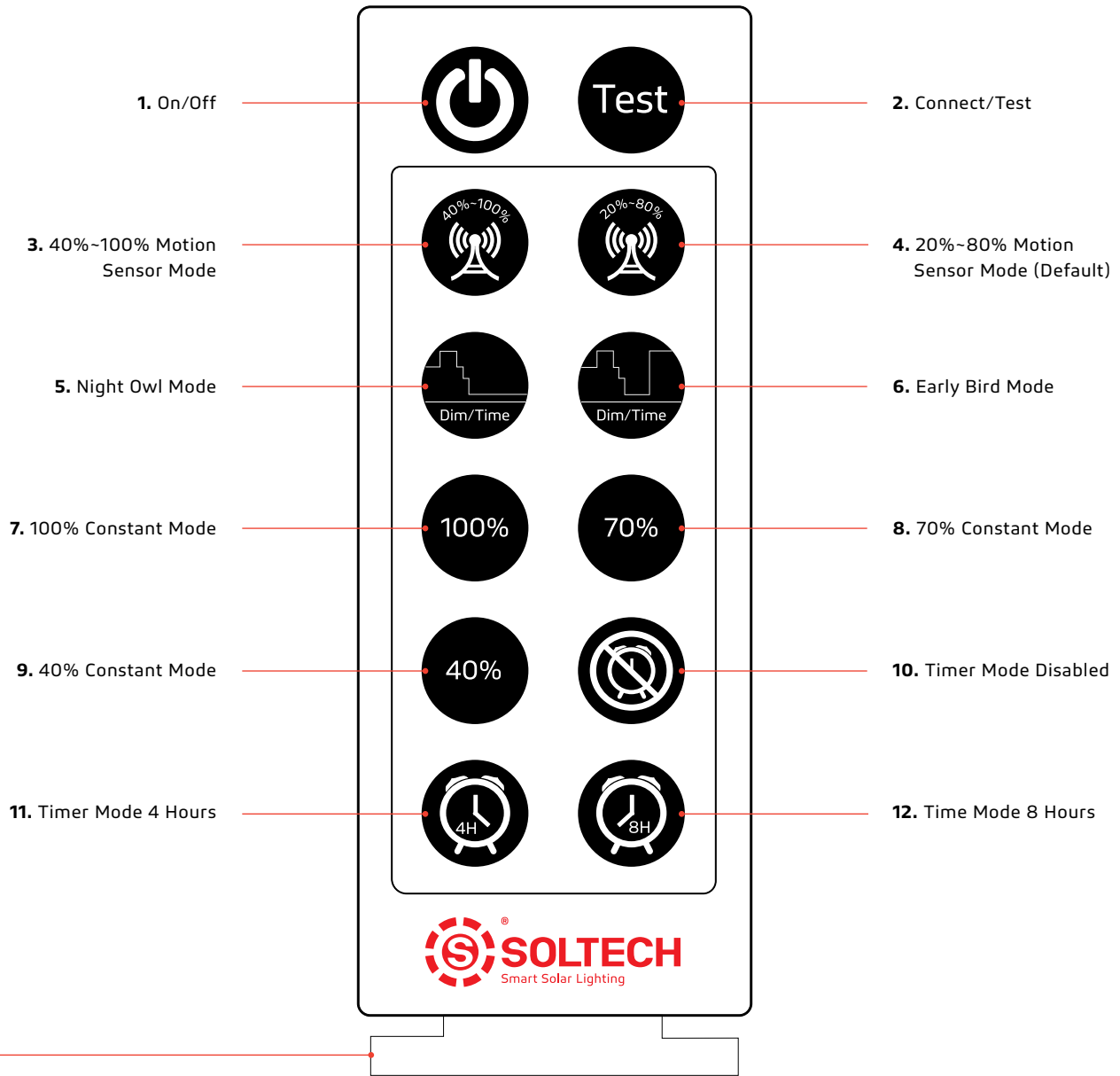


World Wide Panel Angles

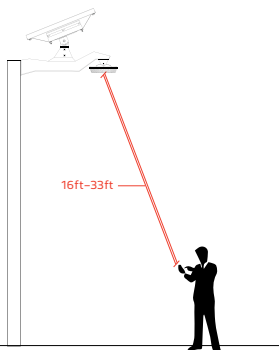


CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

REMOTE CONTROLS



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.

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

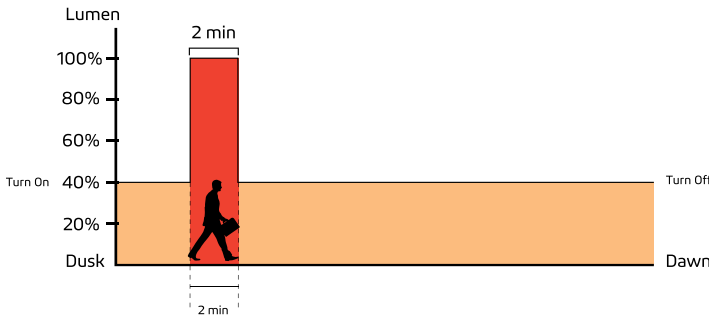
Remote control device can be connected with any lighting fixture. When all cables are connected and solar panel detects sunlight, the fixture will automatically turn on. To test, press the "Test" button once, the LED light will turn on to indicate the fixture has been turned on. During the day time, the indicator will slowly flashing red. That means the battery is charging.

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

REMOTE CONTROLS

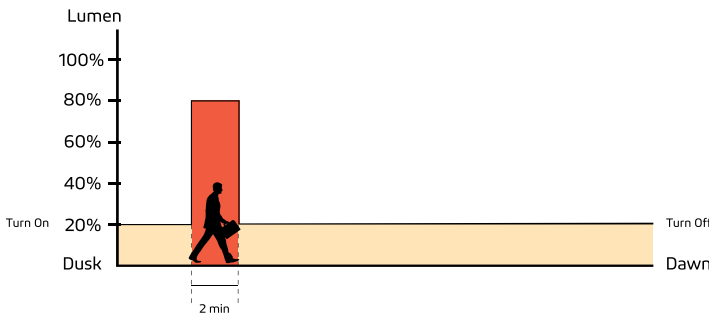
3. 40%-100% Motion Sensor Mode

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



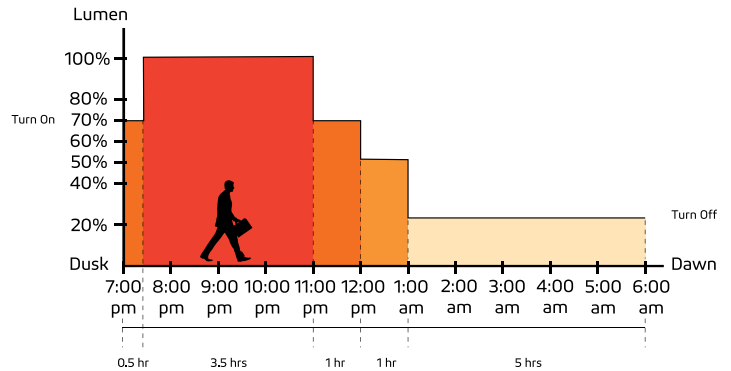
4. 20%-80% Motion Sensor Mode (Default)

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



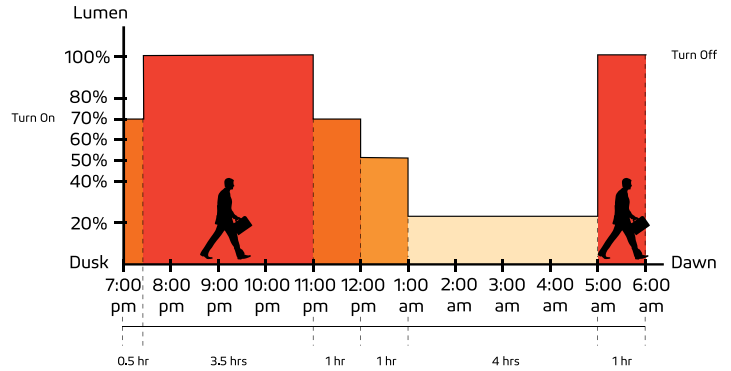
5. Night Owl Mode

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).



Important

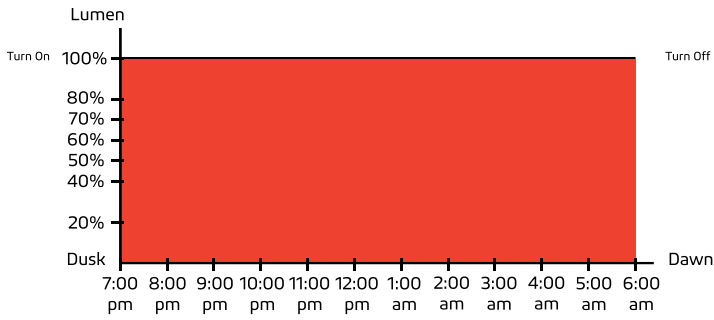
Dusk and dawn time may be different in other locations and seasons. The sensors of our products will follow the light patterns of where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes only.

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

REMOTE CONTROLS

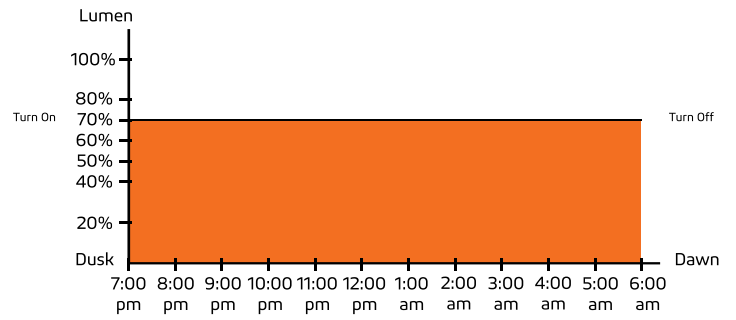
7. 100% Constant Mode

100% brightness from dusk to dawn.



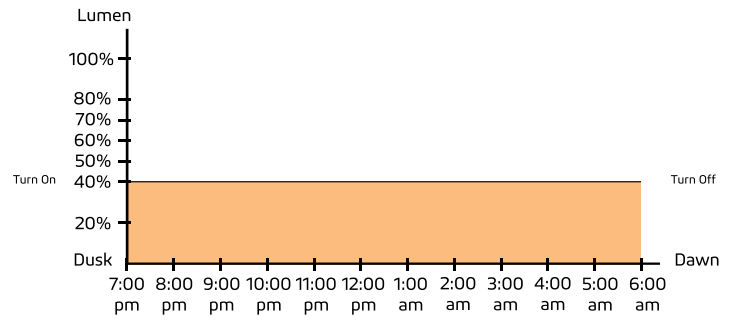
8. 70% Constant Mode

70% brightness from dusk to dawn.



9. 40% Constant Mode

40% brightness from dusk to dawn.



10. Timer Mode Disabled

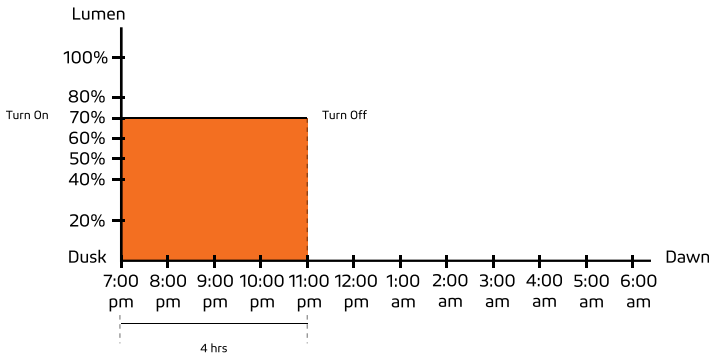
Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

CATALOG	PROJECT	COMMENTS
PREPARED BY		
DATE		

REMOTE CONTROLS

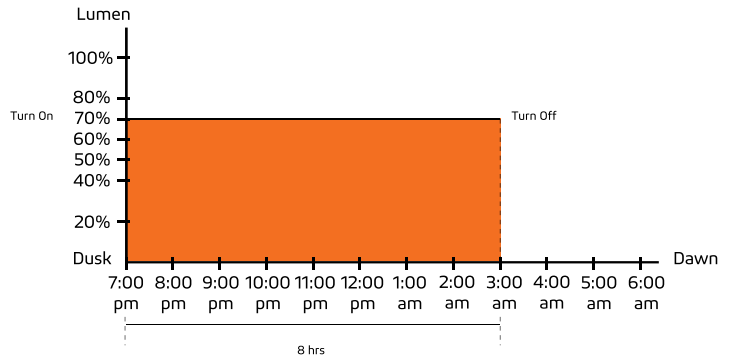
11. Timer Mode 4 Hours

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.



CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

WARRANTY

CEGONIA PRO 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.



1460 Park Avenue.
Emeryville, CA 94608 USA

www.soltechlighting.com

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

Copyright©2022-2023 SOLTECH LLC,
All Rights Reserved.