COSMO

Flood Lights
20W 50W
Installation Manual

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

SOLTECH
Smart Solar Lighting

01 **Introduction**

Thank you for purchasing COSMO Urban Lighting Products.

Important
Please read these instructions before installation to ensure optimum results and longevity of your lights. The solar panel should be charged in full sunlight for 8 to 9 hours before initial first use to provide optimum results.

Features
· Adjusting the solar panel angle maximizes solar collection & allows snow to slide off.
· The solar flood light has a separate solar panel to collect energy from the sun.
· (IAP) Intelligent Adaptive Program Battery Control Technology that stays lit all night, even through cloudy or rainy days.
· The light can be used separately from the solar panel for both indoor and outdoor uses
· Use outdoor as a flag pole light, sign light, billboard light, or wall pack
· Use indoor as bus stop & shelter lighting
· 6 operating modes for indoor and outdoor use
· Remote control can adjust brightness and set the timer
· LED Indicators show 3 levels power storage
· The easiest way to bring lighting to both indoor and outdoor applications
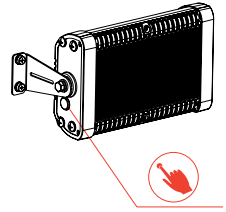
Activation
Press and Hold the button located in the image to the right to activate the light.
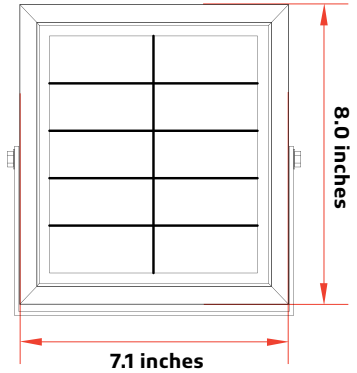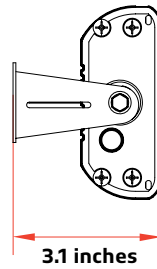The battery indicator light will display as follows:
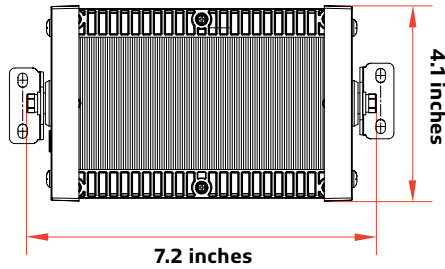GREEN : >70% Battery Life
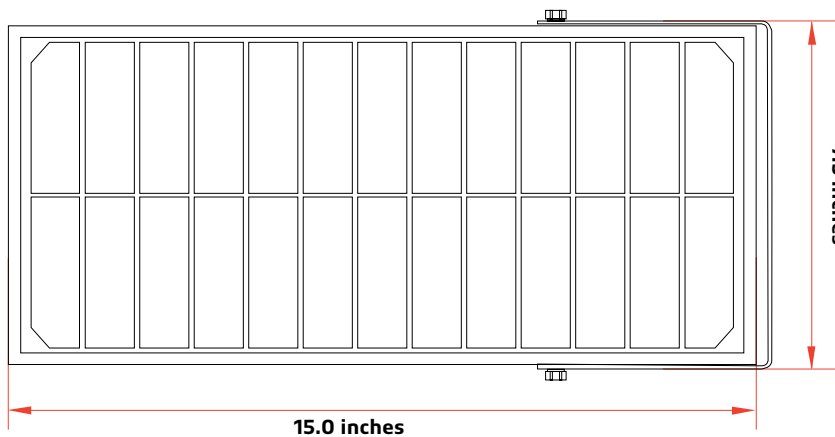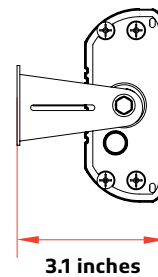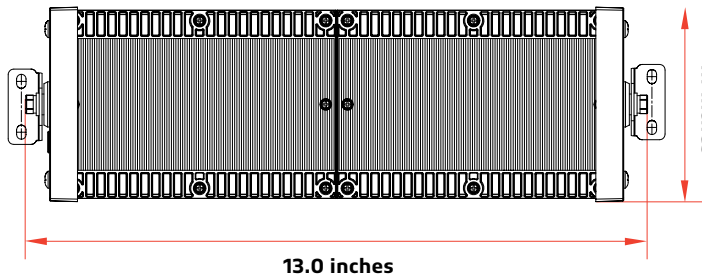ORANGE: 30%–70% Battery Life
RED: 10%–30% Battery Life

*Please note that you must connect the light to the solar panel before usage, otherwise the light will not turn on. After charging the light in bright sunlight for at least 48 hours before first time usage, press the Activation button. This will now allow the light to turn on when it senses darkness and turns off when it senses sufficient lighting. The sensor is located within the solar charging panel.
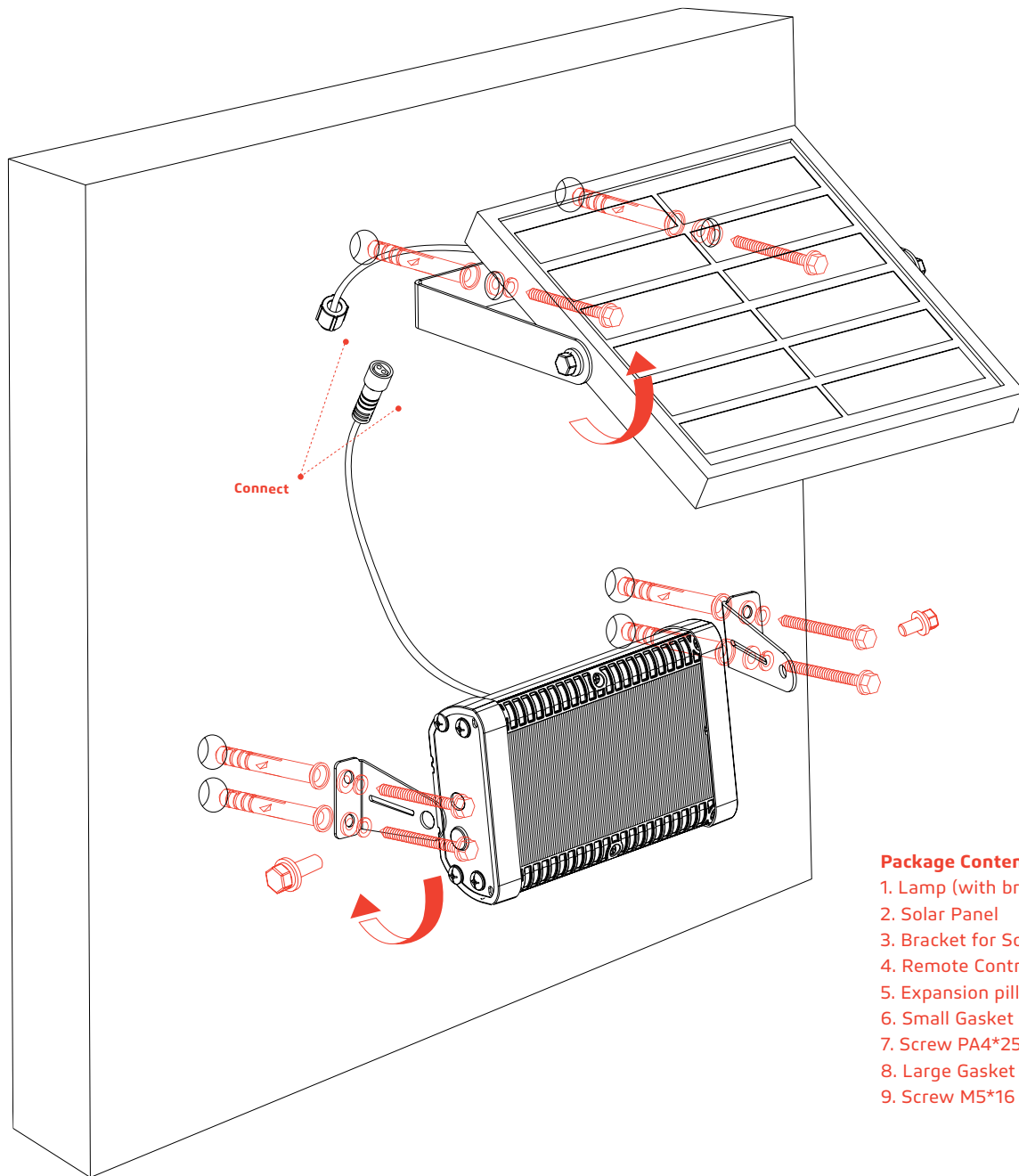
COSMO 20W

4.1 inches

7.2 inches

3.1 inches

8.0 inches

7.1 inches

COSMO 50W

4.1 inches

13.0 inches

3.1 inches

7.3 inches

15.0 inches

02 **Specification**

Specifications	COSMO 20W	COSMO 50W
LED Nominal Power	20W	50W
Solar Panel	Mono-Crystalline Silicon 14V 5W	Mono-Crystalline Silicon 14V 10W
Lithium Ion Battery	28.86WH 3.7V 2.6AH	57.72WH 3.7V 2.6AH
CCT	4,000K	4,000K
Lumen Output@4,000K	3,000	6,000
CRI	> 70	> 70
Product Size	Solar Panel 8.0 X 7.1 Inches Light 7.2 X 4.1 X 3.1 Inches	Solar Panel 15.0 X 7.3 Inches Light 13.0 X 4.1 X3.1 Inches
LED	OSRAM 3030	OSRAM 3030
EPA	0.67 ft	1.28 ft
Cable Length	13.1 ft	13.1 ft
Waterproof Rate	IP65	IP65
Casting	PC & Aluminum	PC & Aluminum
Efficiency@4,000K	150 lm/W	120 lm/W
*Charging Time	7.5 hrs (1000W/m^2)	7.5 hrs (1000W/m^2)
Run Time (@Full Power)	12–14 Hours	12–14 Hours
Operation Mode	6 Operating Modes	6 Operating Modes
*Operating Temperature	-20°C/-4°F to 140°F	-20°C/-4°F to 140°F
*Charging Temperature	-10°C/14°F to 113°F	-10°C/14°F to 113°F

* 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/m^2.
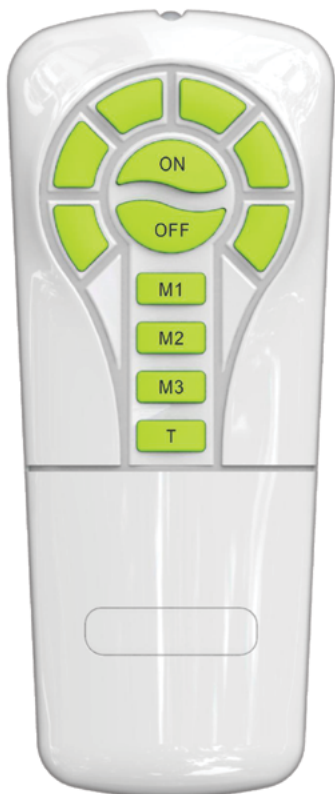
03 **Installation**

WALL MOUNT

Connect

Package Contents
1. Lamp (with bracket)
2. Solar Panel
3. Bracket for Solar Panel
4. Remote Control
5. Expansion pillar-hinge (4pcs)
6. Small Gasket (4 pcs)
7. Screw PA4*25 (4 pcs)
8. Large Gasket (2 pcs)
9. Screw M5*16 (2 pcs)

1. Attach the bracket on the wall, then screw the solar panel onto the bracket.

2. Screw the bracket onto the fixture housing and mount it onto the wall.

3. Connect the light and solar panel cables.

OPERATING MODES

20W

M1 — 50% 5Hrs + 10% Till Dawn

M2 — 30% 5Hrs + 10% Till Dawn

M3 — 20% Till Dawn

M1 + **T** — 100% 2Hrs + 50% 5Hrs + 10% Till Dawn

M2 + **T** — 100% 2Hrs + 30% 5Hrs + 10% Till Dawn

M3 + **T** — 100% 2Hrs + 20% Till Dawn

50W

M1 — 50% 5Hrs + 10% Till Dawn

M2 — 30% 5Hrs + 10% Till Dawn

M3 — 20% Till Dawn

M1 + **T** — 100% 2Hrs + 50% 5Hrs + 10% Till Dawn

M2 + **T** — 100% 2Hrs + 30% 5Hrs + 10% Till Dawn

M3 + **T** — 100% 2Hrs + 20% Till Dawn

LIGHTING MODE INDICATOR
Red: M1
Green: M2
Orange: M3
T: Green Light Flashes

BATTERY CAPACITY INDICATOR
Green: >70%
Orange: 30%–70%
Red: 10%–30%
Note: The fixture is in low voltage protection status when the red light flashes.
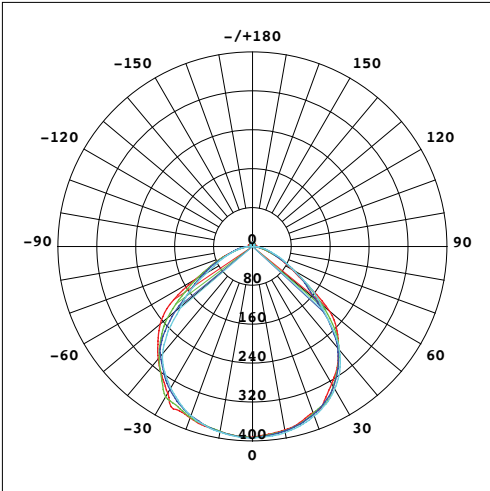
Warning
1. Keep device away from fire and oil to avoid explosion.
2. Severe shock to Solar powered light is to be avoided.
3. Do not disassemble the light without assistance from an expert.
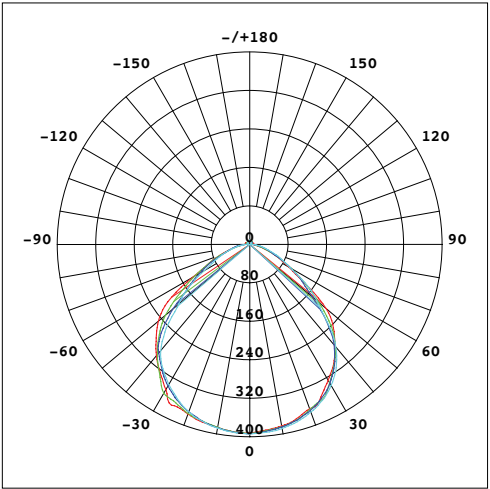
Additonal Notes
1. Prior to activation, allow for at least 48 hours of charging time in bright sunlight for the battery to be sufficiently charged.
2. Install the solar panel where it will receive optimal sunlight without any obstructions. If you are using this solar light in extreme conditionsabove 131° Fahrenheit or below 32° Fahrenheit, the battery an solar charging panel will functionless optimally as it gets colder.
3. When using the solar light in less than optimal conditions (cloudy, or not much direct sunlight), it may take longer to fully charge the battery.

04 **Luminous Distribution**

COSMO 20W

COSMO 50W

05 **Warranty**

COSMO is covered by a 3 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 3 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.

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Smart Solar Lighting

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