



BROADWAY PLUS

Billboard Lights
10W 20W

Installation Manual

SOLTECH Provides Advanced LED
Technology Powered With Eco-friendly,
Clean, Solar Energy.



SOLTECH
Smart Solar Lighting

01 Introduction

Thank you for purchasing BROADWAY PLUS 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

- Easy Installation—No electrical wiring is required with its integrated design
- Turns on automatically at night and off during the day
- The lights include an ON / OFF switch and built in battery
- Battery can support 2-3 nights with cloudy days once fully charged
- Intelligent power saving mode increases lighting x1.5 times
- IP65 water and dust resistance

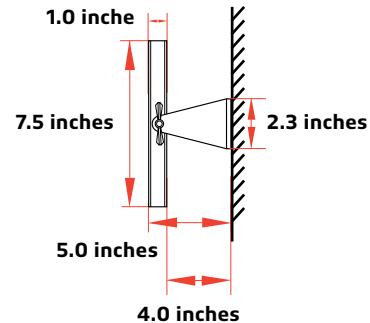
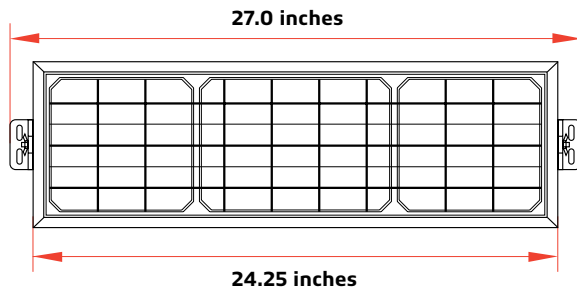
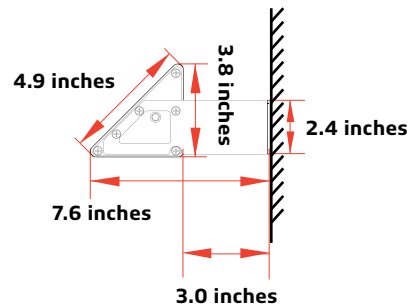
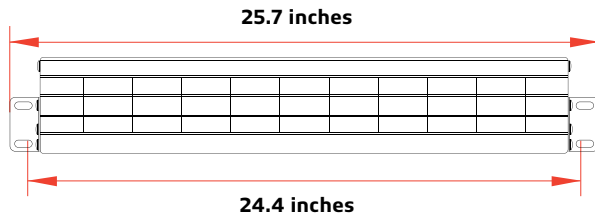
How The Solar Panel Works

During the day, the solar panel converts sunlight into electricity to charge the battery. At night, the lights turn ON automatically using the electricity stored in the battery. The performance of the solar light depends on the location of the solar panel and weather conditions. Install the solar panel in a sunny location to ensure it receives 6–8 hours of sunlight each day. Reduced sunlight will reduce continuous working hours at night.

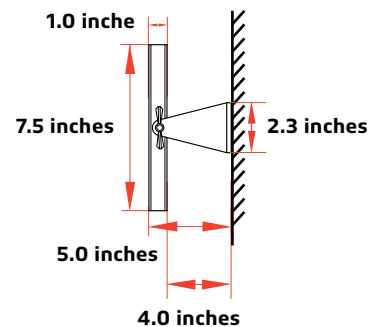
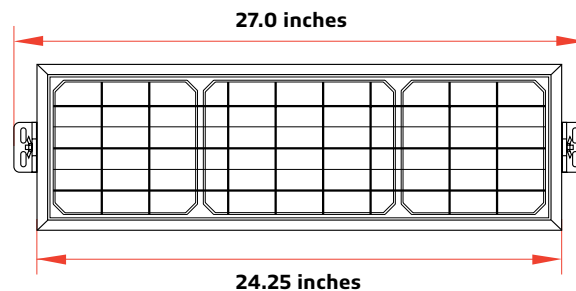
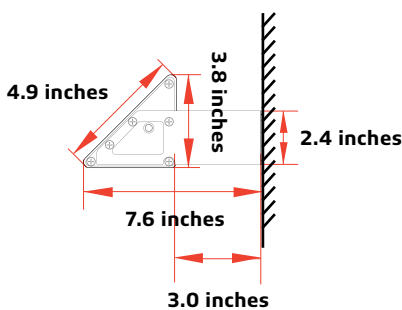
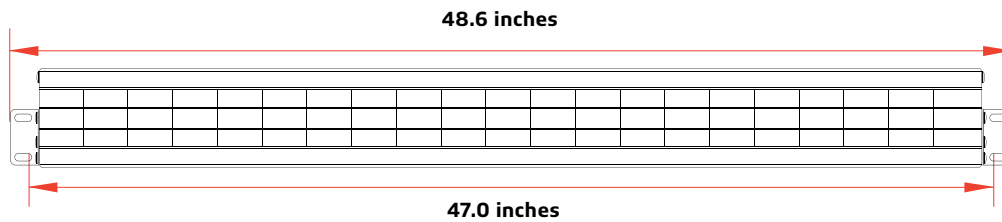
Please Note

During continuous rainy or cloudy days, run time may be reduced as the battery will not be fully charged.

BROADWAY PLUS 10W



BROADWAY PLUS 20W



02 Specification

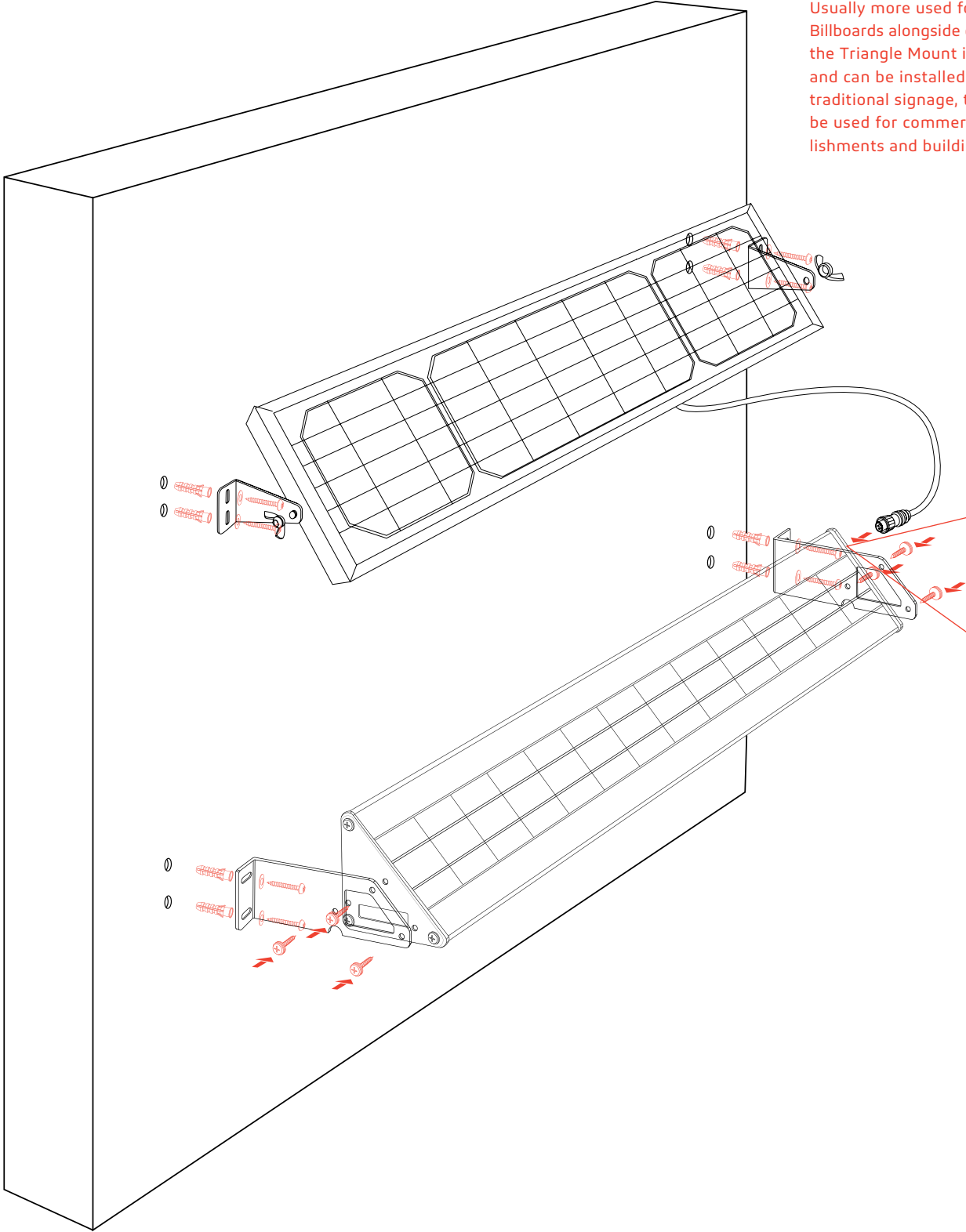
Specifications	BROADWAY PLUS 10W	BROADWAY PLUS 20W
LED Nominal Power	10W	20W
Solar Panel (Fixture)	5.5V 11W crystalline	5.5V 17W crystalline
Solar Panel (External)	6V 25W crystalline	6V 25W crystalline
Cable Length	7.5ft	7.5ft
Lithium Ion Battery	3.7V 17.6AH	3.7V 35.2AH
CCT	4,000K, 5,000K	4,000K, 5,000K
Lumen Output@5000K	1,000	2,000
CRI	> 70	> 70
LED Chip	OSRAM	OSRAM
EPA (External Solar Panel)	1.52	1.52
Beam Angle	120°	120°
Waterproof Rate	IP65	IP65
Casting	PC & Aluminum	PC & Aluminum
Efficiency@5000K	100 lm/W	100 lm/W
* Charging Time	3-5 hrs (1000W/m ²)	3-5 hrs (1000W/m ²)
Run Time (@Full Power)	2-3 Days	2-3 Days
Operation Mode	First 4 hours 100% brightness, 25% brightness till dawn	First 4 hours 100% brightness, 25% brightness till dawn
* Operating Temperature	-20°C/-4°F to 149°F	-20°C/-4°F to 149°F
* Charging Temperature	-9.4°C/15°F to 113°F	-9.4°C/15°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/m².

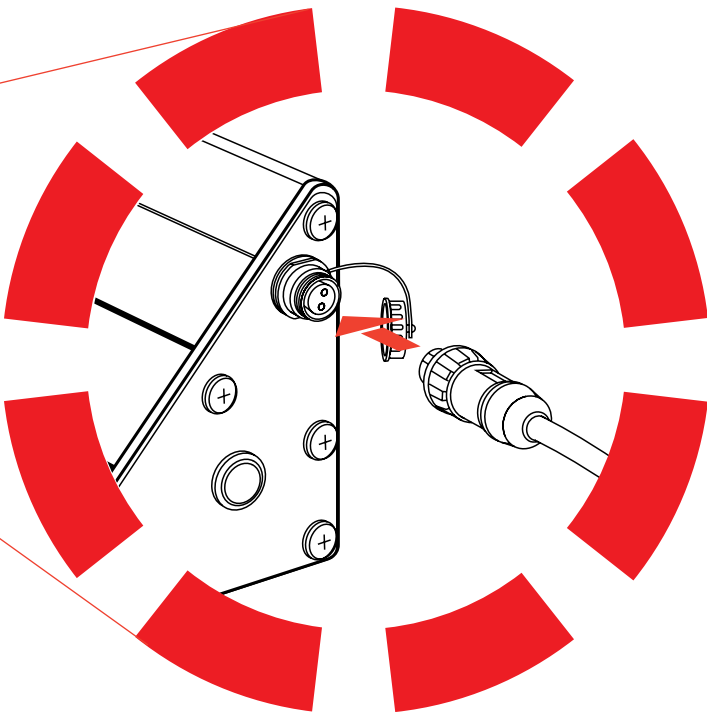
03 Installation

Arm Wall Mount



Usually more used for standard Billboards alongside express ways, the Triangle Mount is versatile and can be installed in more traditional signage, this can also be used for commercial establishments and buildings.

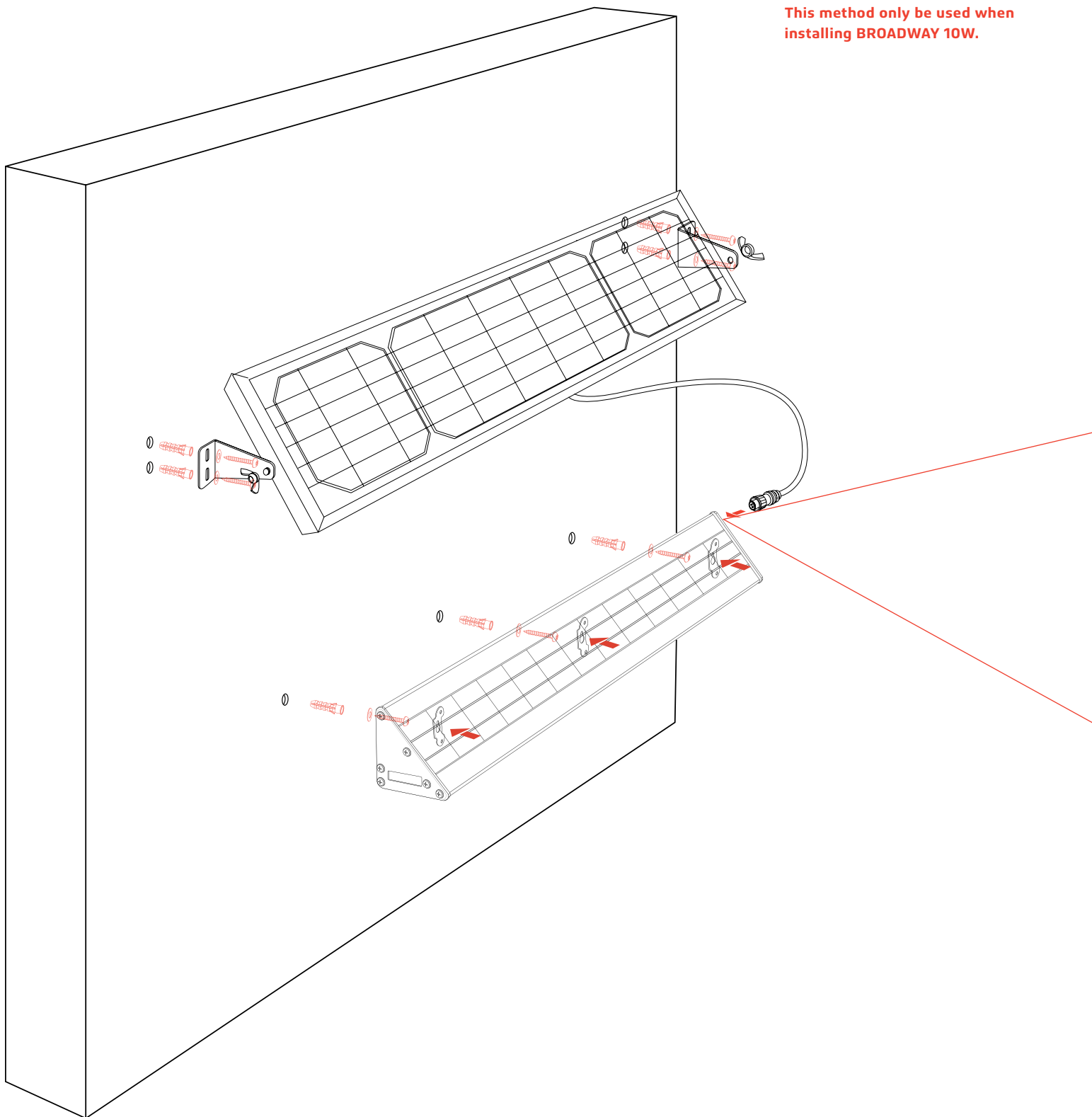
Make sure to connect the external solar panel with the fixture after mount it to the wall.



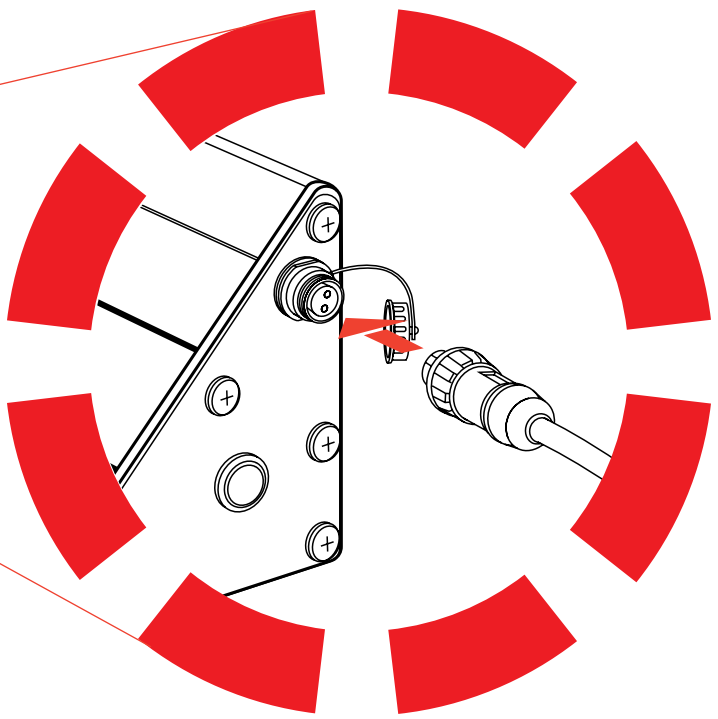
03 Installation

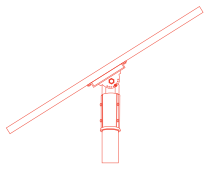
Wall Mount

This method only be used when installing BROADWAY 10W.



Make sure to connect the external solar panel with the fixture after mount it to the wall.

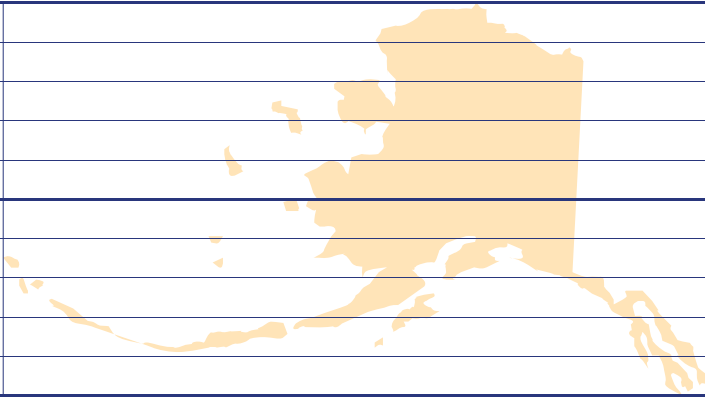




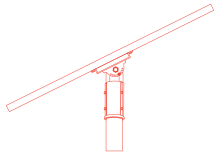
60°

70° N

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



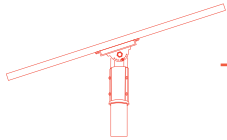
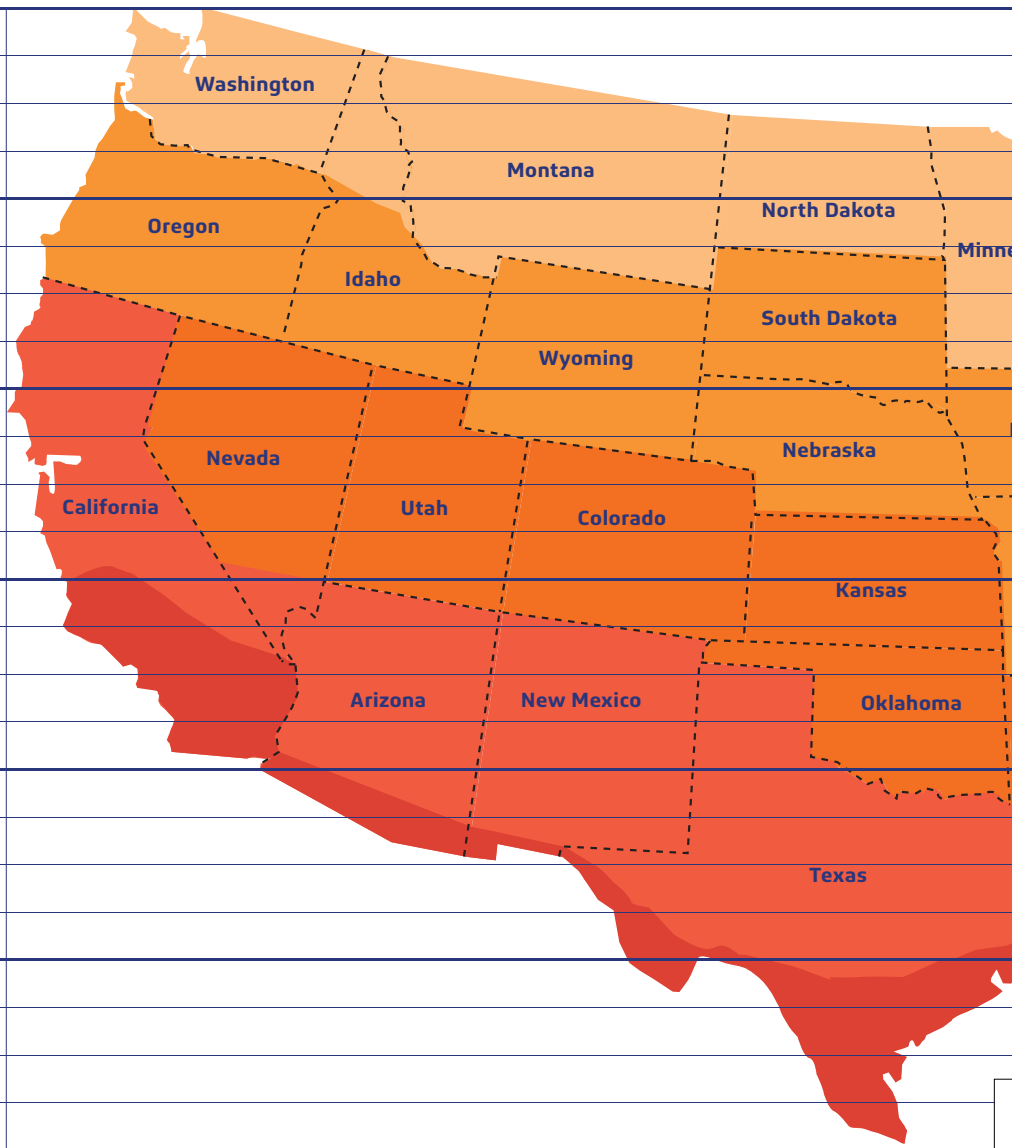
Alaska



45°

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

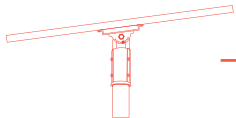


30°

29° N

28° N
27° N
26° N

25° N



15°

21° N

20° N

19° N



Hawaii

08

04 Panel Angle

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.

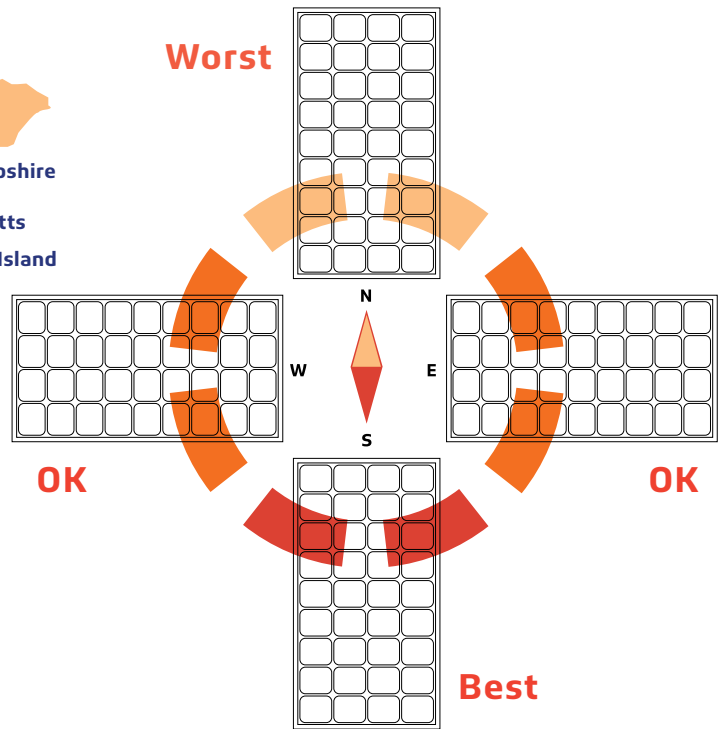
Tip

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.

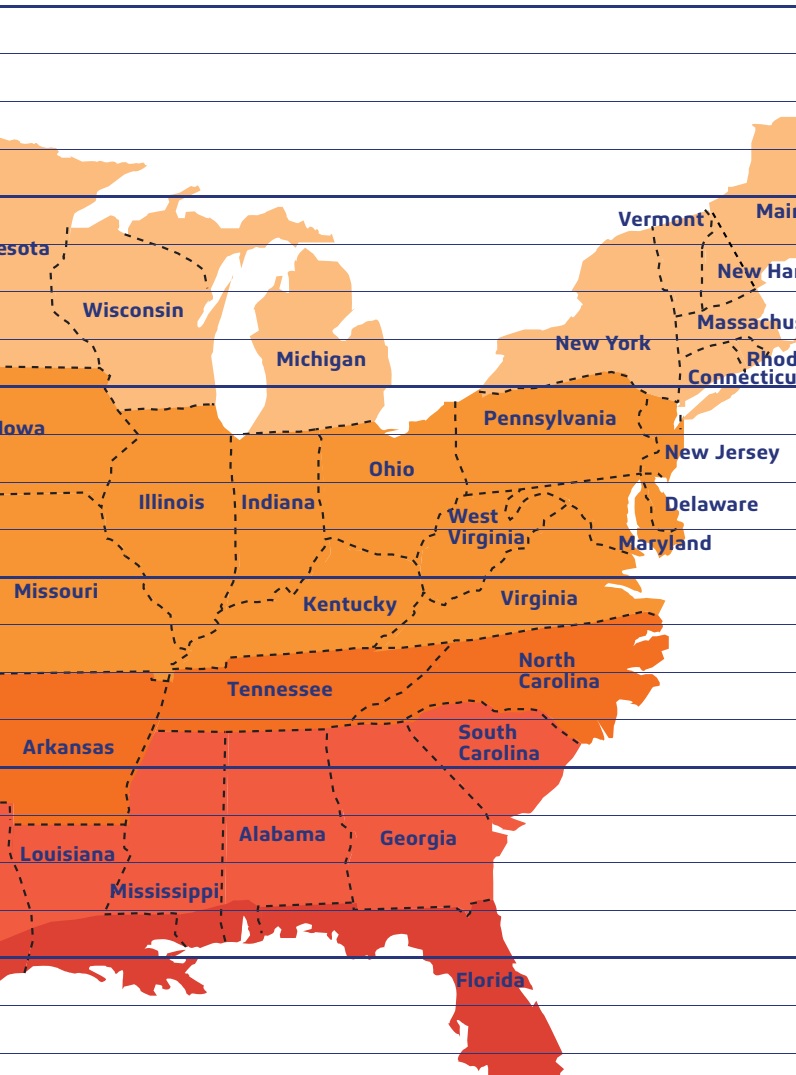
Key



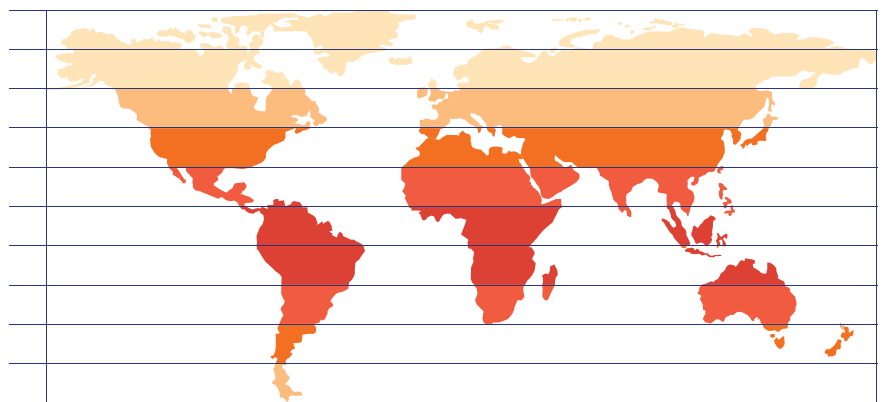
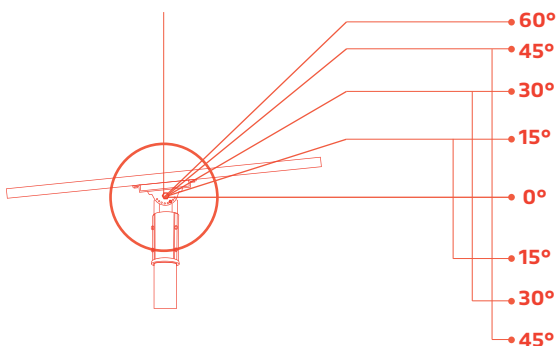
Best Facing Direction of Solar Panel



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.

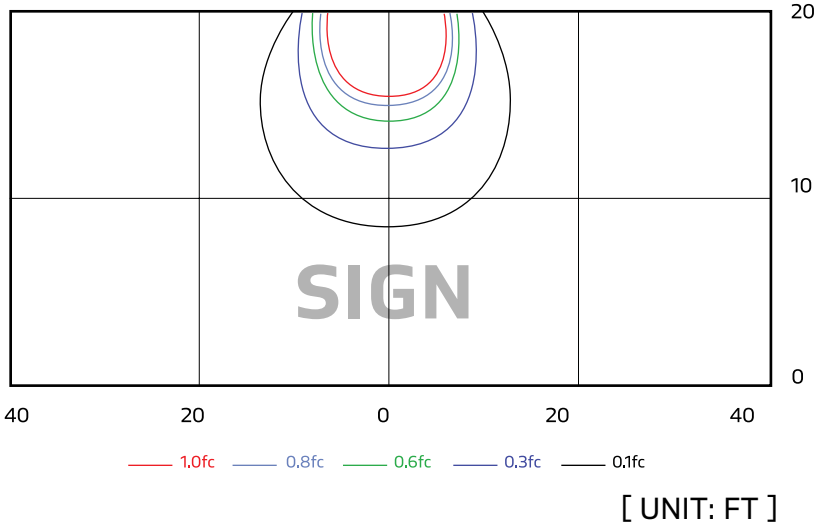


World Wide Panel Angles

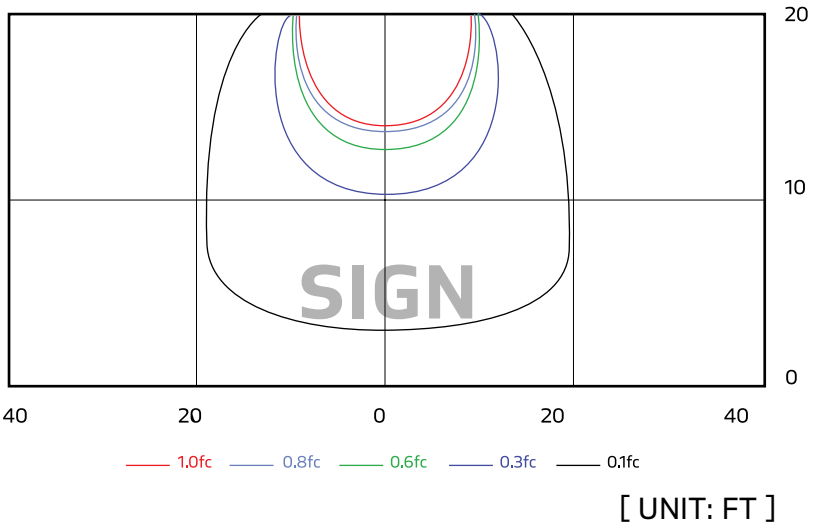


04 Luminous Distribution

BROADWAY PLUS 10W [MOUNTING HEIGH: 20FT]



BROADWAY PLUS 20W [MOUNTING HEIGH: 20FT]



05 Warranty

BROADWAY PLUS 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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1460 Park Avenue.
Emeryville, CA 94608 USA
www.soltechlighting.com

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