



bluesmart

Smart Solar Street Light

FLAT SERIES (Model with remote)

The classic style all in one /integrated solar street light. Humanize intelligent remote control technology makes it easier to control the light, more flexible, more convenient.

PRODUCT CATALOGUE

2017- II



BLUESMART

Flat series all in one solar street light

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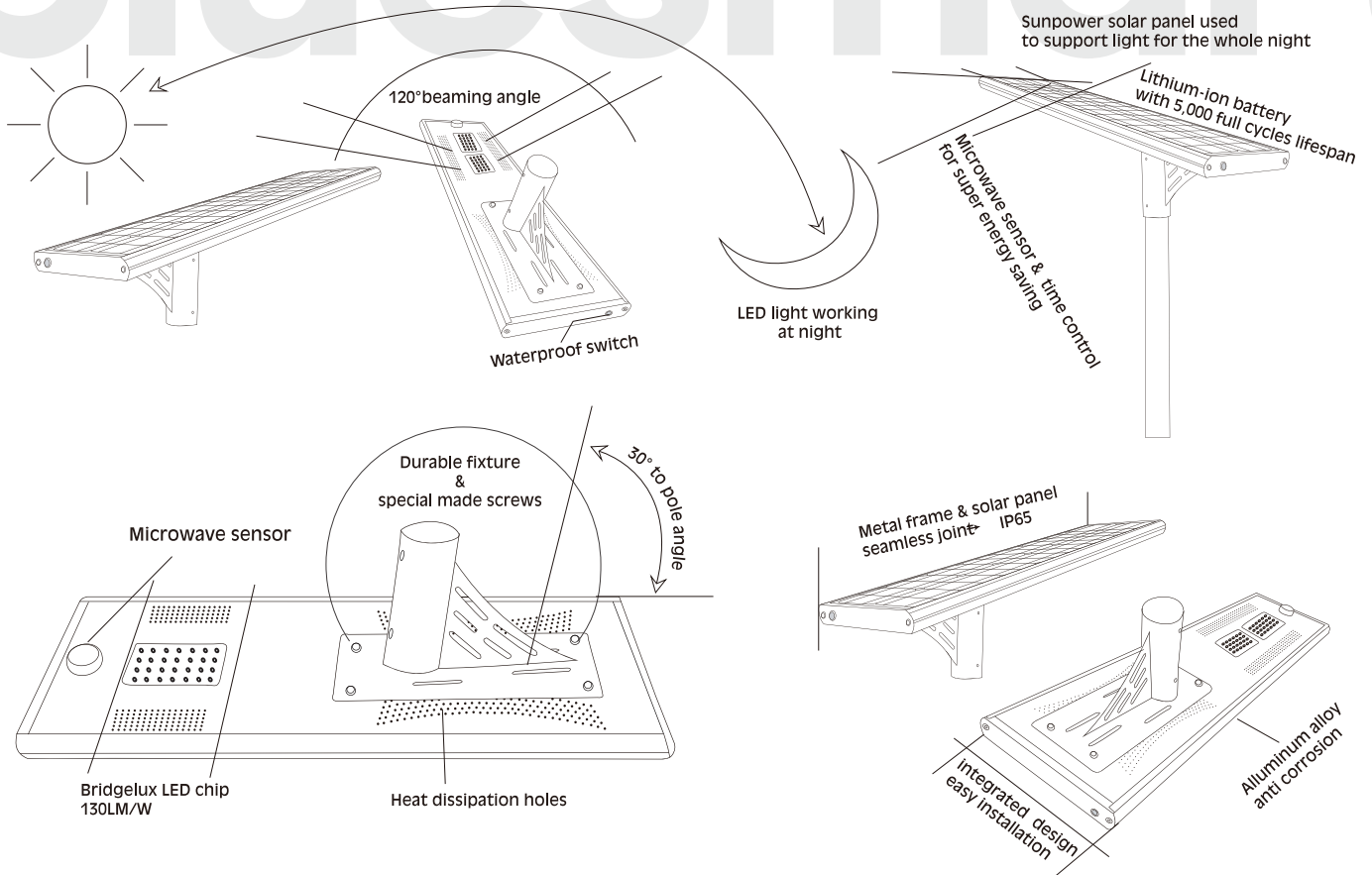
Web: www.obluesmart.com

Innovative all in one solar street light

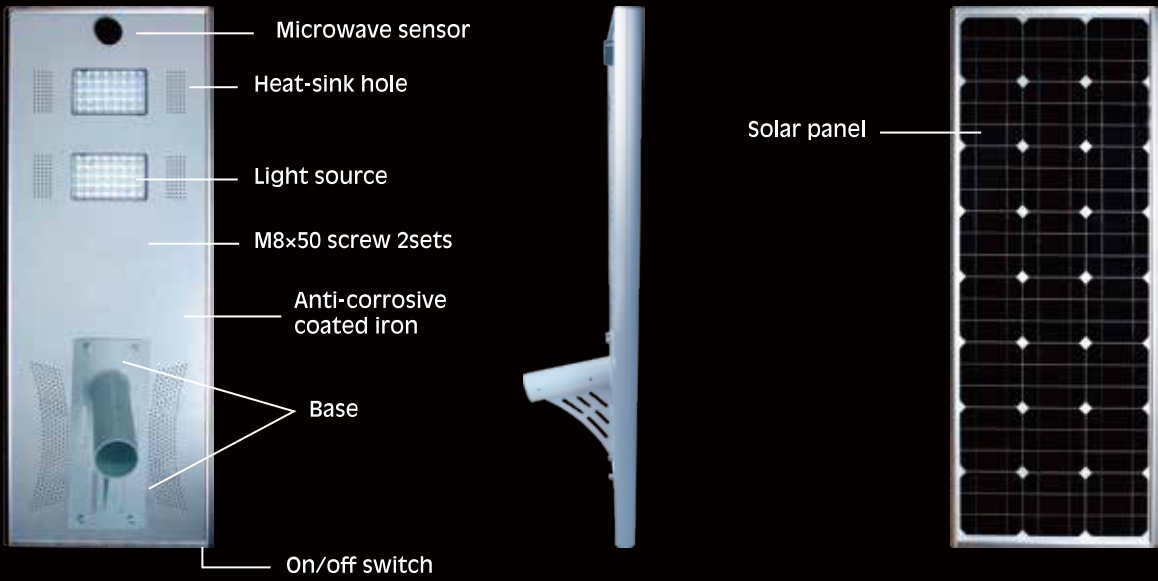


Available from 12W to 120W

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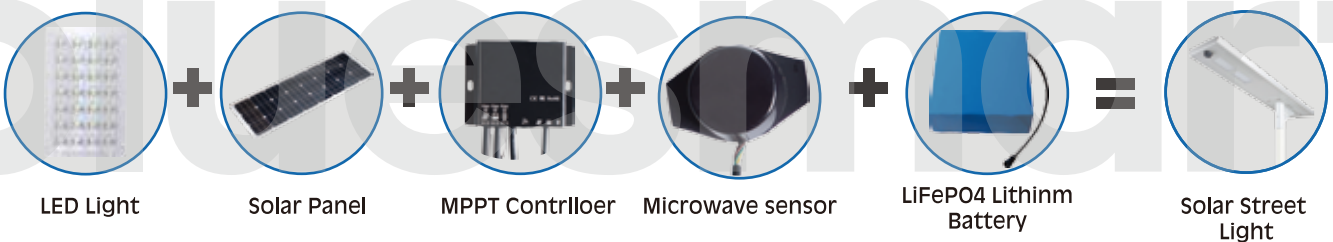


Overview



All in one design

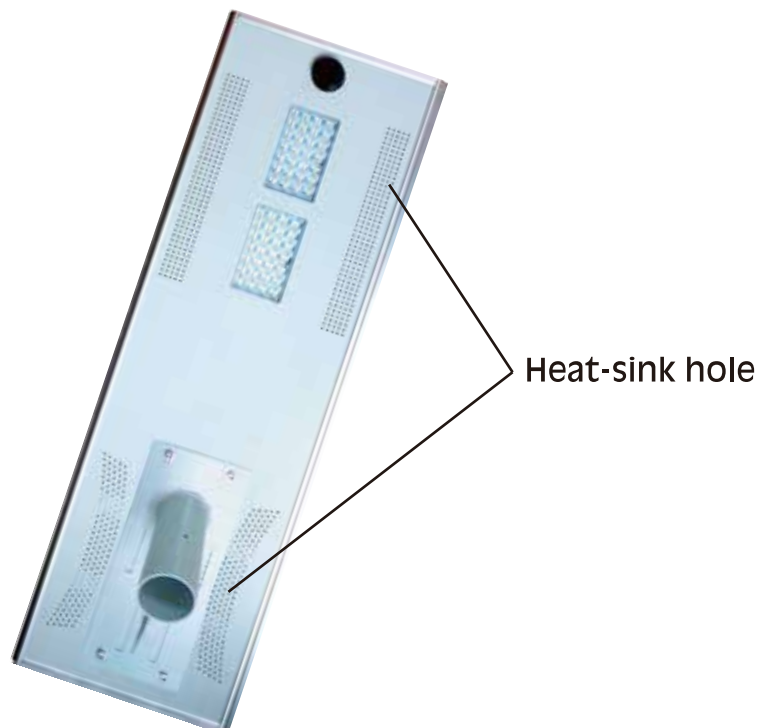
It combines high efficiency led light, solar panel, MPPT controller, motion sensor (microwave sensor) and high-capacity lithium battery, all of them are put into a compact housing, which creates the extreme simple solar road applications.



Great heat dissipation:

Aluminum extrusion radiator improves LED thermal heat dissipation by up to 80% , ensuring the light working temperature not be too high.

Main structure is made of aluminum alloy materials for anti-corrosion.

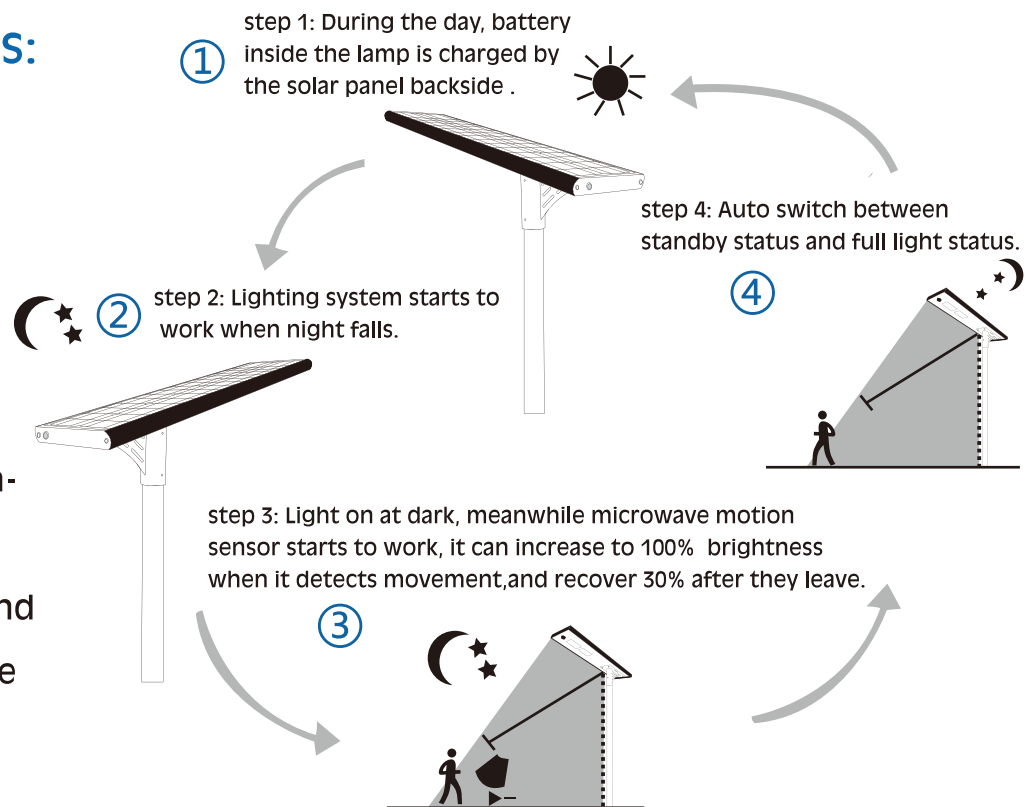


How does our light work?

Working steps:

LED chips
+
Solar panels
+
Li-ion battery
+
Control system
+
Other parts

The whole lamp consists of the parts mentioned above and works as a eco-recycle lighting system consuming 0 electricity.



- Fully automatic in operation: ON at dark and OFF at dawn, battery recharges in the daytime in the sun. It can last up to 5-6 nights on a full charge.
- Intelligent remote control: It has 4 working modes that can be chosen from, realizing remote control. (working modes can be customized according to the customers' request.)
- Per light can be equipped with a hand-held remote, which is used for switching modes from 4 working modes, more easy, more convenient for resell.

4 working modes can be chosen from

DEMO: test button for M.

OFF: shut down the state, do not light all the day or all the night.

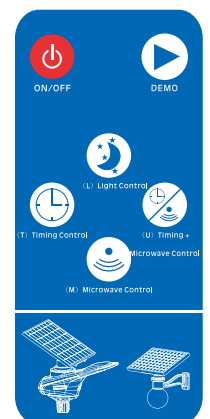
L: 100%-1hr, 70%-3hrs, 20% till dawn.

T: 100%-3hrs, 50%-3hrs.

M: 100% if people come close, 30% far away.

U: 100%-2hrs, 70%-2hrs, 50%-2hrs, sensor working 50% if people come close, 20% far away.

Remark: Default mode is M, you can choose the best mode according to the light condition in your place.

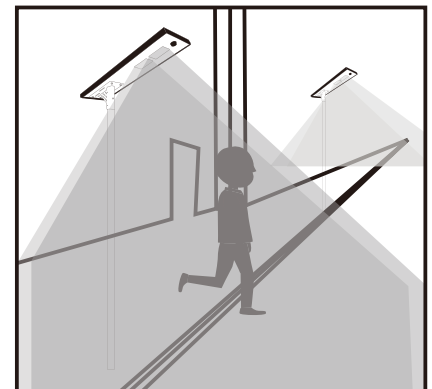
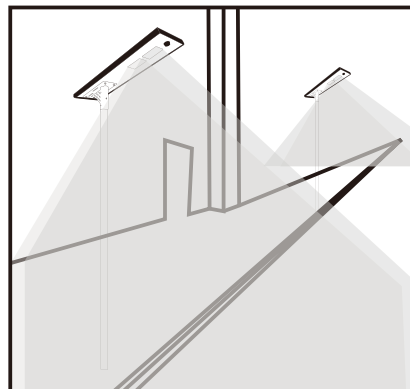
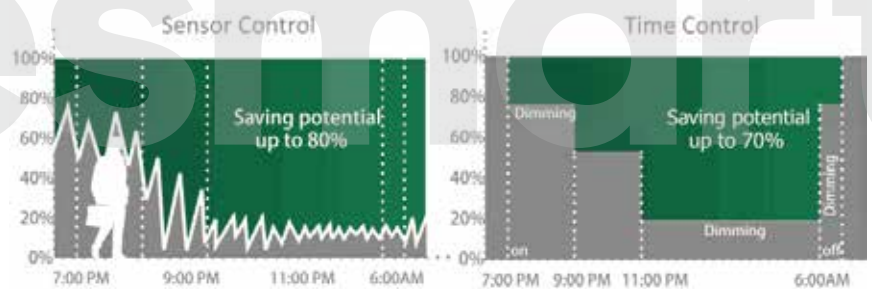
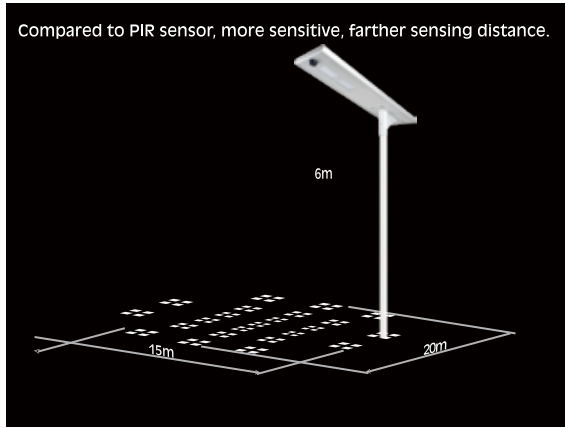
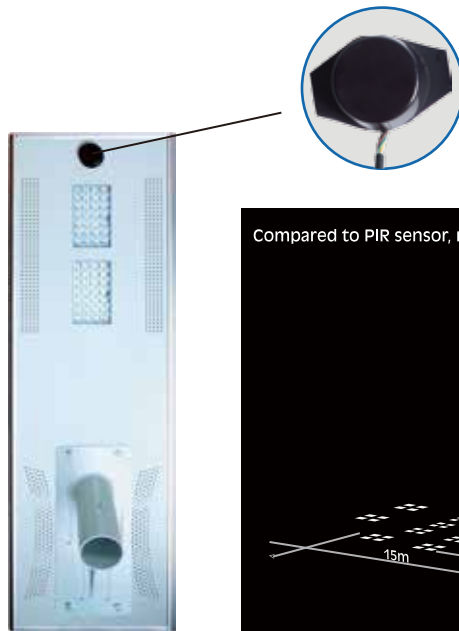


Microwave motion sensor

The fourth generation of sensing technology is Microwave Sensor Intelligent Adjustable Brightness, more energy-saving, more humanize.

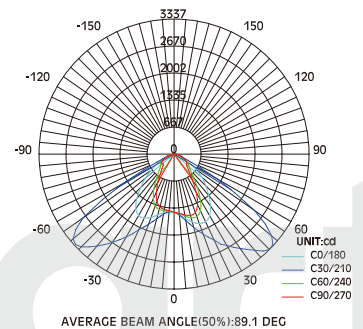
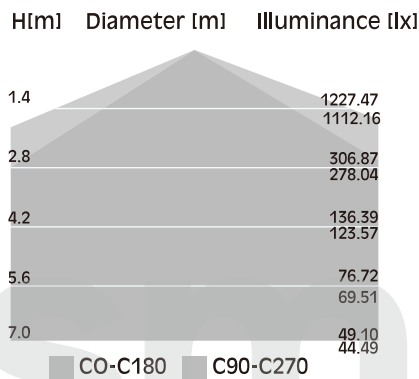
Microwave sensors are more accurate than infrared(PIR) sensors in detecting human movement and moving object, detection distance is up to 15 meters.

With the addition of the smart Microwave motion sensor, illumination levels will automatically be regulated from a 'dim-mode' to full-brightness', depending on whether the distance is within the range of motion sensor detecting of the integrated solar street light.



Lighting effect:

By applying Bridgelux high power LED chips, the all in one solar lights emits uniformly bright light. Total lamp output lumen efficiency reaches 10lm/w. With mature LED lighting technology and intelligent control , the lifespan of the lighting source reaches 50000 hours, reducing energy consumption by almost 90%. , It can be used to replaced 200 traditional street light.



Solar Charge Controller MPPT Control System

MPPT(maximum power tracking) controller can automatically adjust the output power according to weather, charging efficiency. It will lower the load power automatically when the battery power is low, thus better to extend the time of light.



Mono-Crystalline solar panel collects the sun's radiation & converts to D.C voltage



MPPT(Maximum Power Point Tracking)Controller



 Lower power consumption during conversion phase



 Increase battery charging efficiency

Battery management system

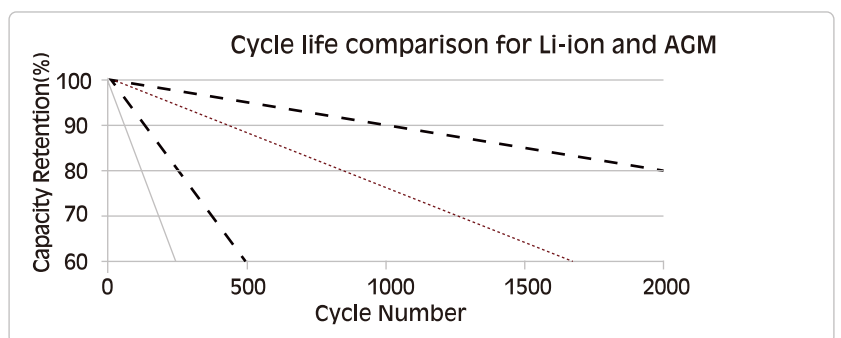
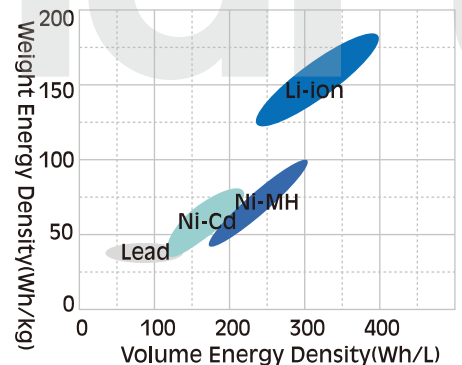
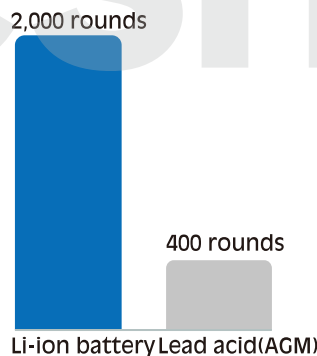
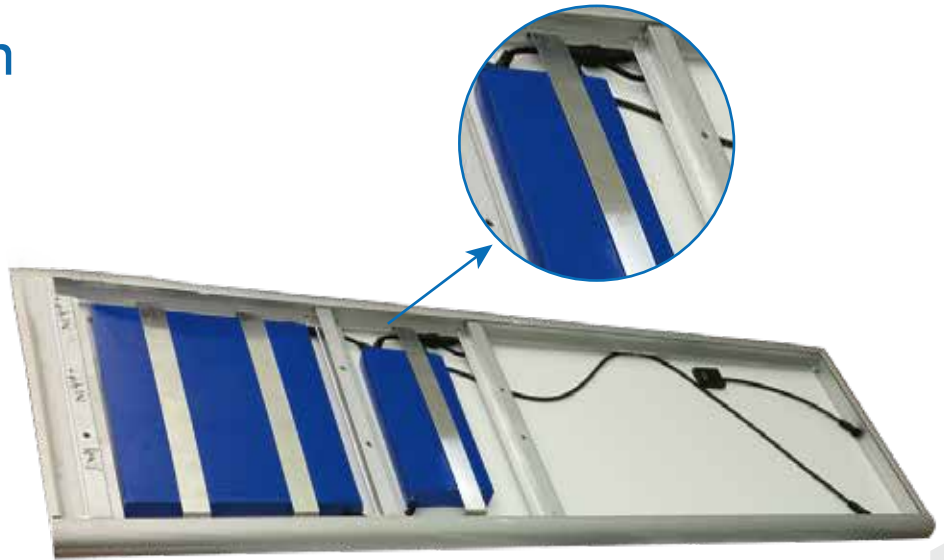
Using lithium iron phosphate batteries, compared to the lead-acid batteries, the discharge depth of 4 times higher cycle life of 5 times higher, and will not pollute the environment.

Long life battery + modular design

Lithium-ion battery has much high energy density than traditional lead acid(AGM) battery. With the same space, Li-ion can reach 42AH max while AGM only around 10AH.

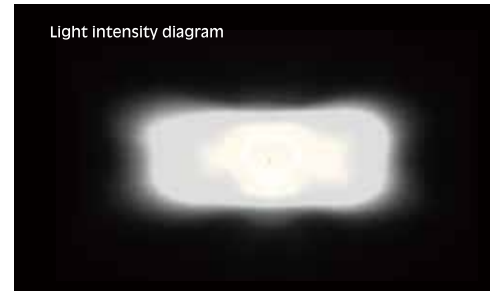
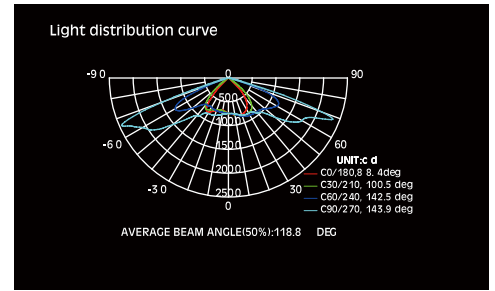
And Li-ion has a longer lifespan, under the same circumstances 1c, LI-ION RUNS 2000~3000 rounds. And Li-ion still has more than 80% of total capacity remaining.

What's more, Li-ion is environmentally friendly. The lighting system uses replaceable module design. Battery can be replaced easily.



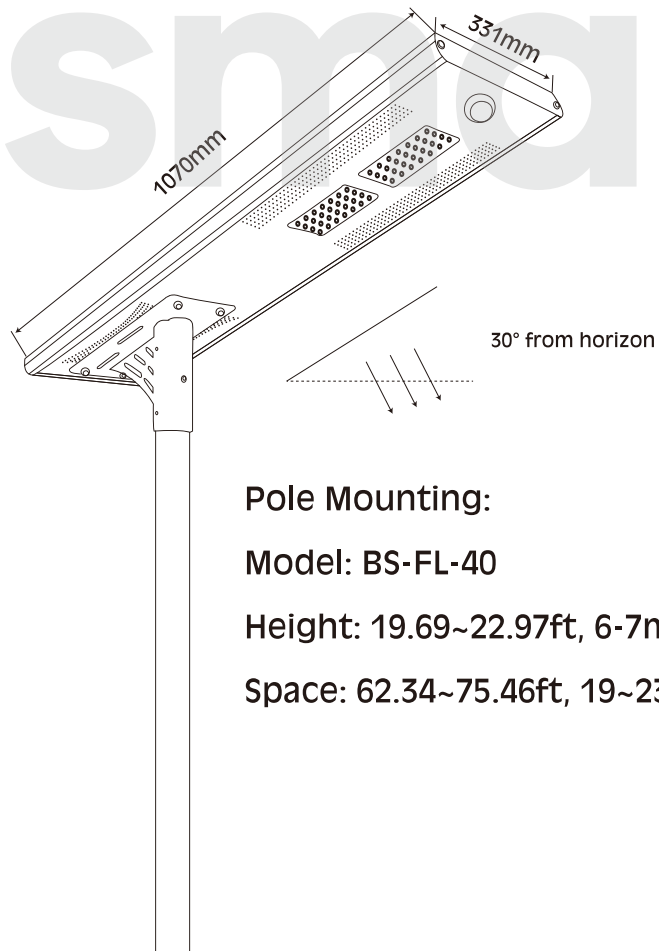
Wide Beam angel lens:

New design patent light distribution lens significantly improves light effect. Compared to the previous generation products, lighting area is expanded by 40%, lighting uniformity increases by 200%.



Mounting

Easy installation in 5 minutes. No wiring, no digging, no embed pipeline, do not need to hire an electrician, just need some screws and bolts which are equipped from the factory. It is totally different from the traditional separated solar street light before, and saving 50% transport fee and 90% labor cost.



Pole Mounting:

Model: BS-FL-40

Height: 19.69~22.97ft, 6-7m

Space: 62.34~75.46ft, 19~23m