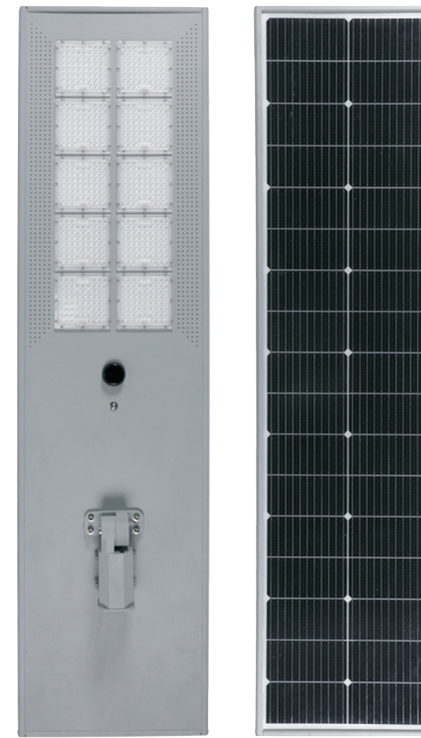




ALL-IN-ONE Solar Street Light

150W

Our all-in-one solar street light is energy-saving, environmentally friendly, easy to install, and adopts 2835LED high-brightness lamp beads, which can easily illuminate a 400 square foot area. Aluminum alloy lamp body shell, dustproof, rustproof and waterproof. High conversion rate solar panels. It has a built-in large-capacity battery, which makes the life of the street lamp longer. Fully charged in 6-8 hours during the day, providing you with 30-36 hours of night lighting, high brightness lighting, to ensure your road safety at night.



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ADVANTAGES

Energy-saving and environmentally-friendly

The solar street light converts the sunlight into electricity without electricity consumption. It produces no pollution and no radiation, which conforms to the present environmental protection concept.

Safe and durable

The traditional street light may have hidden safety hazards due to construction quality, material aging and power supply disorder; while the solar street light does not utilize the alternating current so that it will not have hidden safety hazards. Nowadays, most solar modules in the market have stable performance for at least ten years due to the mature manufacturing technology. They can generate electricity for twenty-five years or even longer.

High technology and low maintenance costs

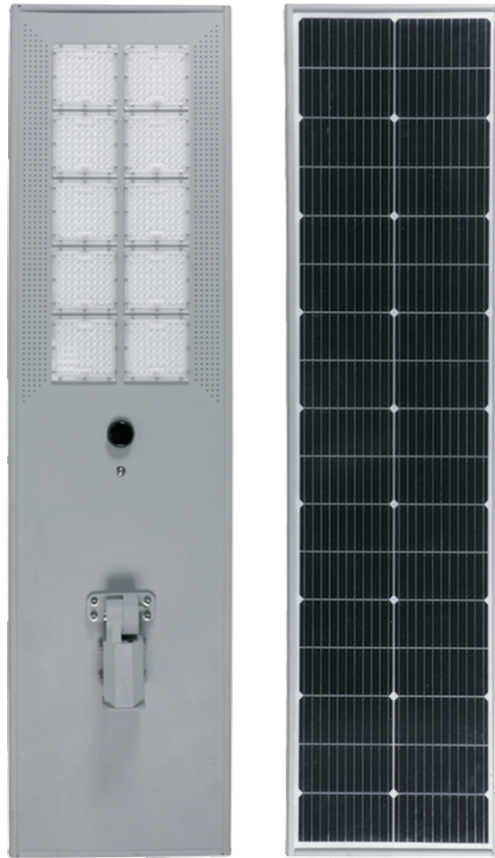
Regulated by solar charge controller, the solar street light can adjust the light intensity according to the natural brightness and people's demand. In the remote regions, the maintenance cost for traditional street light is high. However, the solar street light only needs cyclical inspection, thus the maintenance cost is relatively low.

Wide range of installation and application

The installation of solar street lights is almost not subject to geographic restrictions. Whether it is mountainous areas, grasslands, or fields, solar street lights can be installed wherever there is sunlight. Embellishment, industrial development zone, industrial and mining enterprise street lights, outdoor lighting of various colleges and universities.



PRODUCT DETAILS



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Anti-UV Optical lens

The Lens makes the light spot is uniform, there is no astigmatism, no shadow, and the transmittance is very high, which maximizes the utilization of LED light.

Motion Sensor

The light will work automatically at night. When people come, the light will working at 100% power, after people gone, the light will working at 30% power.

Aluminum Alloy Lamp Housing

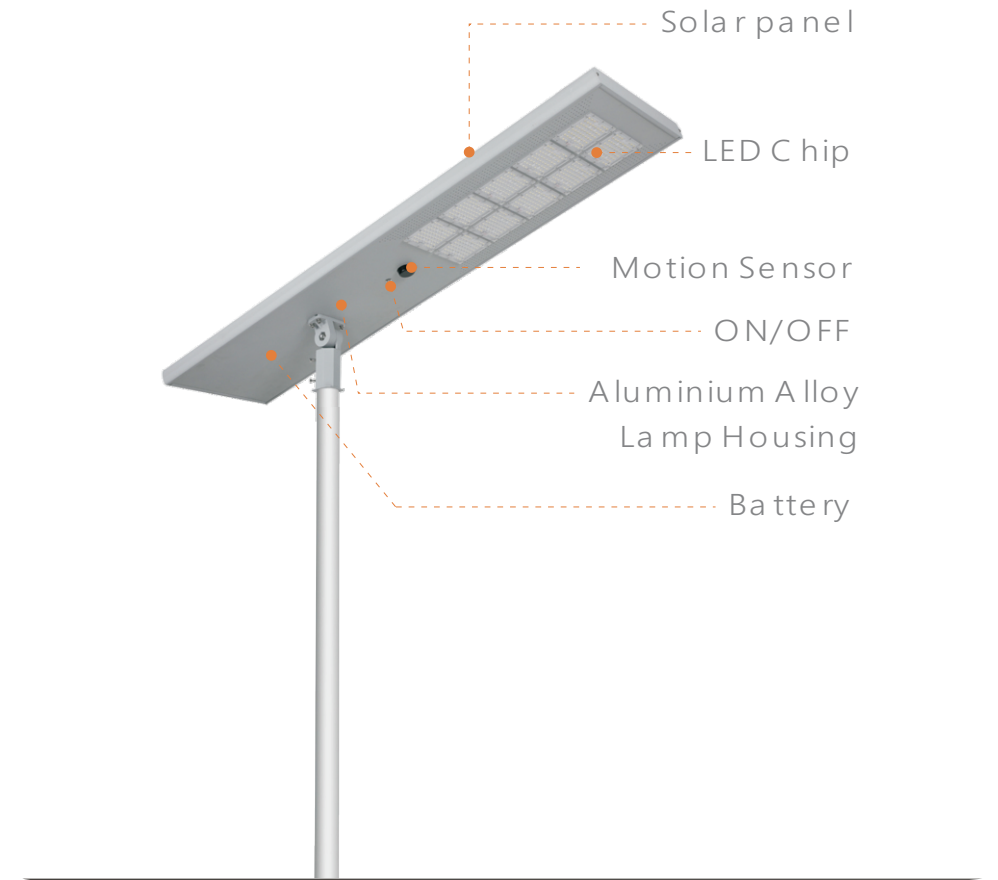
The lamp housing is made of a luminum alloy, a nodizing treatment on surface, and no fade. which is strong and stable, waterproof and rust-proof.

Solar Panel

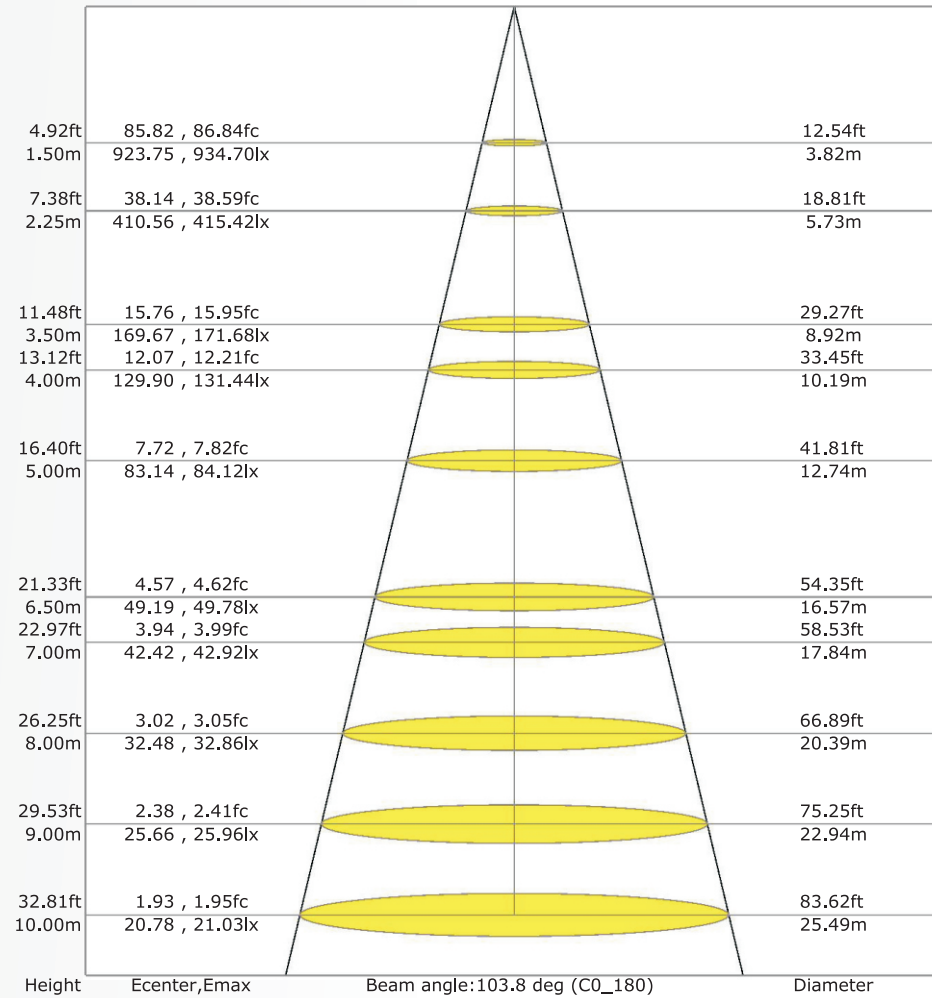
High quality monocrystalline silicon material, high charging efficiency, long lifespan

LED Chip

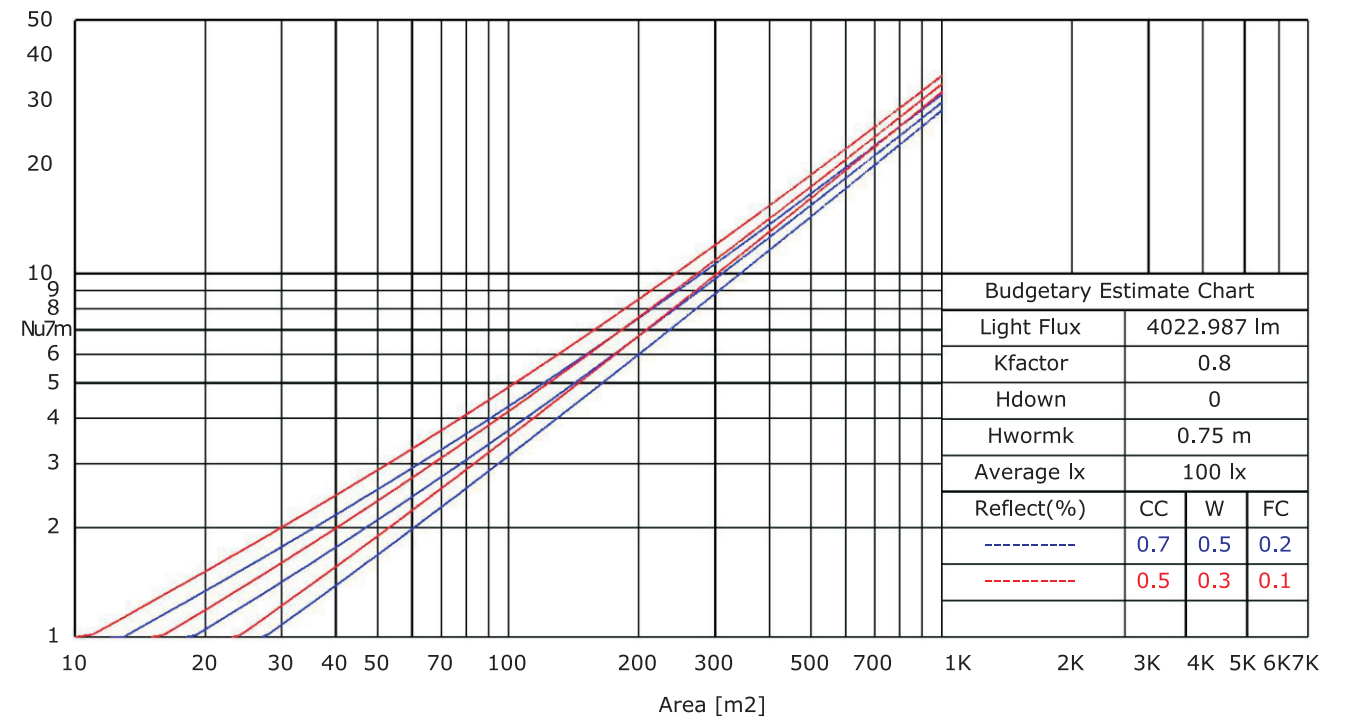
Built-in LED chip, enable solar street lights to emit high brightness with low heat even after long time usage.



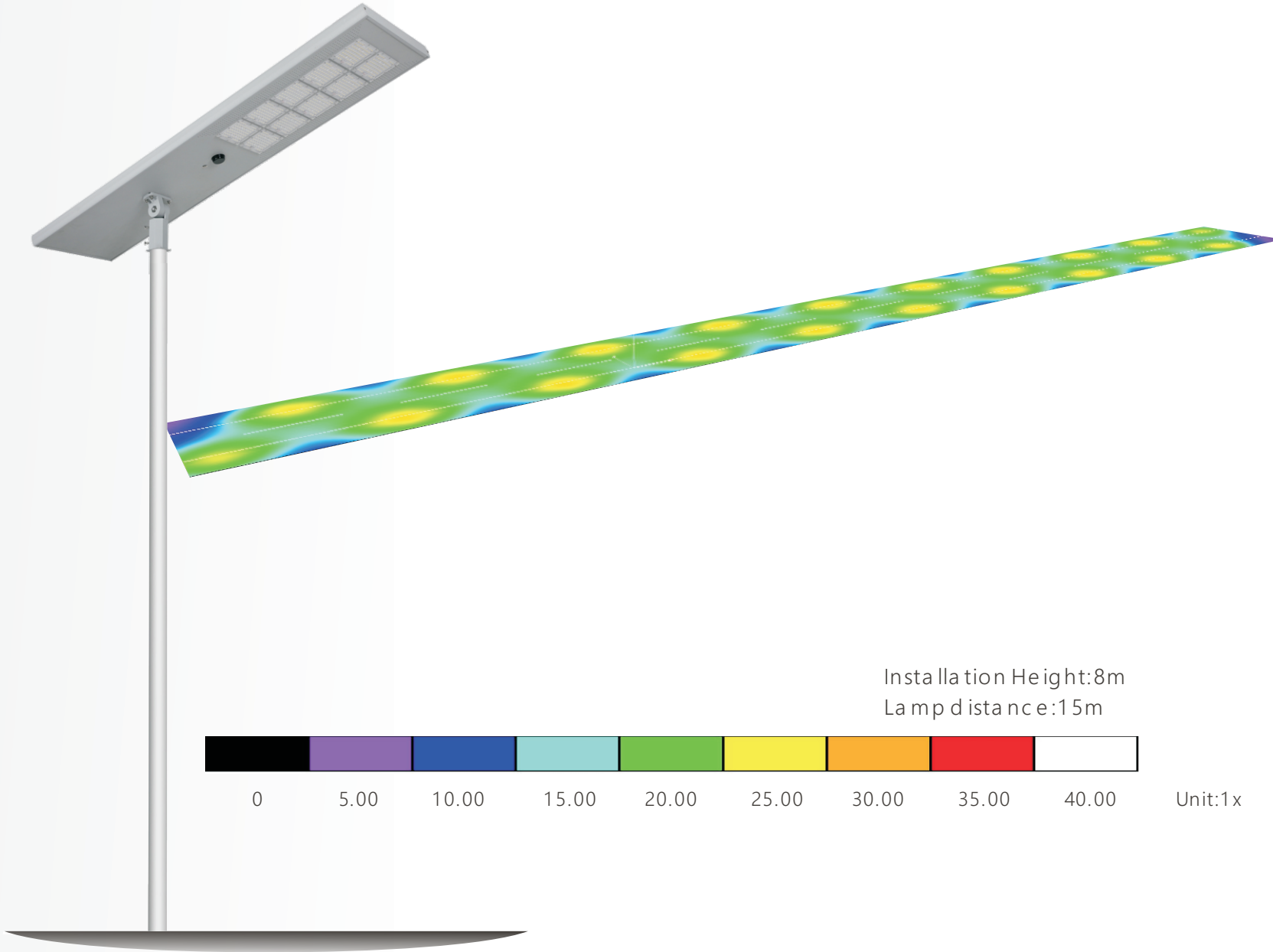
LX-DISTANCE DIAGRAM



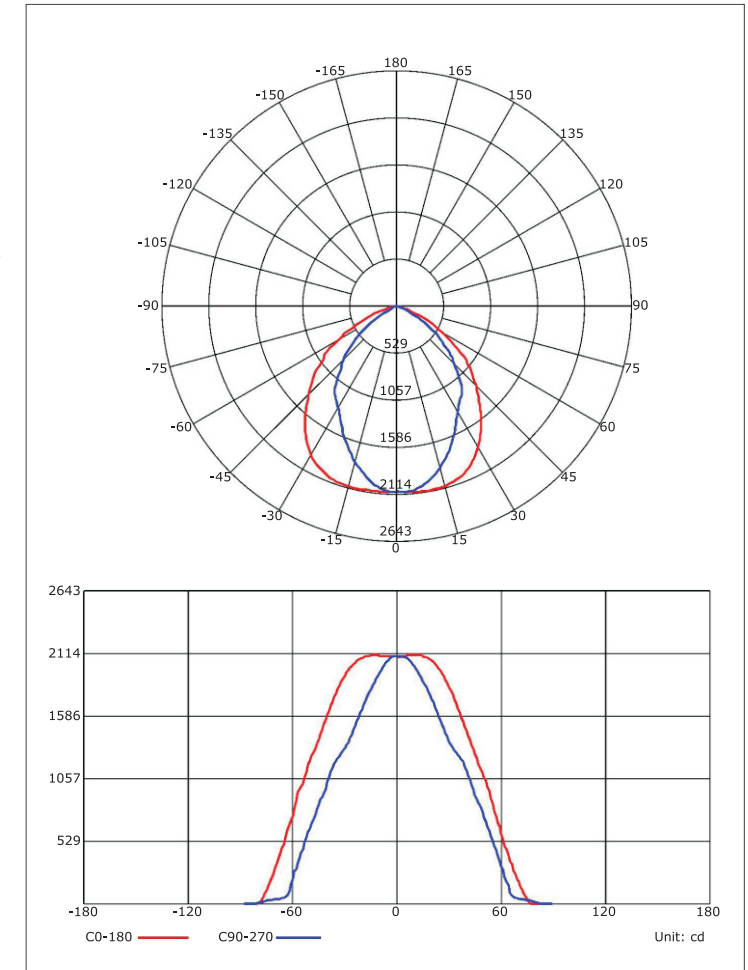
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



150W DIALUX SIMULATION EFFECT



LUMINOUS INTENSITY DISTRIBUTION CURVE



BATTERY SPECIFICATION

DesignLife	6-8 years
Nominal Voltage	12.8V
Nominal Capacity	60AH
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25 °C)	50A(5s)
Short Circuit Current	100A



BATTERY GUARANTEE OF QUALITY

Battery Cells

High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.

Battery Protector

High precision IC keep performance more stable protect overload, overcharge, over discharge, short circuit, over voltage, over current keep battery pack always safe and long life span.

Precision Welding Machine

Fully automatic precision welding machine can ensure that every battery can be welded firmly to prevent the danger of short circuit or power failure.

Aging Test Machine

every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified.

SMD 2835 INTRODUCTION



Bridgelux Thrive™ combines unique chip, phosphor and packaging technology to closely match the spectra of natural light over the visible wavelength range. Thrive can be used in constant color point luminaires to bring full spectrum natural light indoors or in tunable white luminaires to incorporate circadian elements that may impact human well-being. The high fidelity spectral output of Thrive creates stunning environments with excellent color rendering and outstanding TM30 metrics. Thrive is available in both SMD components and LED arrays to enable a broad range of lighting applications including retail, hospitality, office, education, architectural, museums, healthcare and residential lighting.

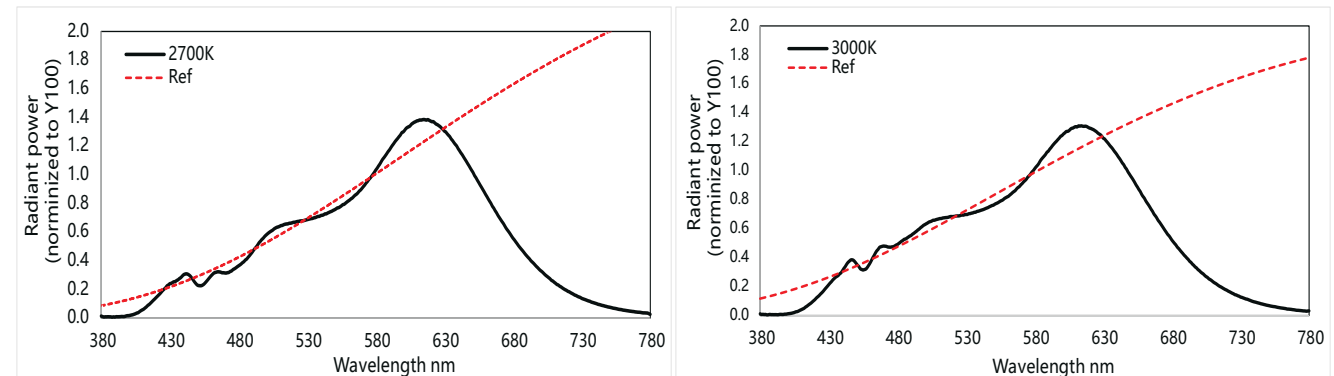
Features

- Engineered spectra to closely match natural light
- CRI > 70, R9 >50, high Rf and Rg values
- High efficiency full spectrum solution
- No violet chip augmentation
- Hot color targeted
- Industry standard 2835 footprint
- Broad product platform availability (SMDs and COBs)

Benefits

- Full consistent spectrum with fewer spectral spikes
- Natural and vivid color rendering
- Greater energy savings, lower utility costs
- Economical, high efficiency solution
- Uniform and consistent white light under application conditions
- Ease of design and rapid go-to-market
- Enables greater design flexibility and platform color consistency

Typical Color Spectrum



Note :

1. Color spectra measured at typical current for Tsp = 85°C
2. Spectra are provided as reference only and are not a guarantee of performance
3. Spectra under different current will be different from the Spectra under typical current.

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SOLAR PANEL SPECIFICATION



Specifications

Peak Power(Pmax)	150
Maximum Power Voltage(Vmp)	17
Maximum Power Current(Imp)	8.82
Open Circuit Voltage(Voc)	21.18
Short Circuit Current(Isc)	8.93
Cells Efficiency(°C)	18.09
Module Efficiency(°C)	13.93
Power Tolerance	0~ +3%
Pmax Temperature Coefficients(W/°C)	-0.400%
Voc Temperature Coefficients(V/°C)	-0.300%
Isc Temperature Coefficients(A/°C)	+0.060%
NOCT Nominal Operating Cell Temperature(°C)	45±2
Operating and Storage Temperature(°C)	-40~ +85
Standard Test Condition(STC)	1.000W/m²;AM 1.5;25+/-2 °C

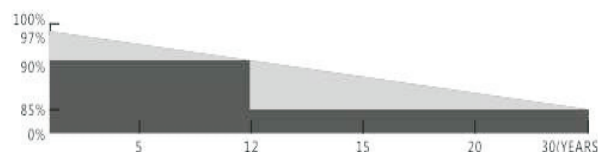
Mechanical characteristics

Dimension	1618*392*4.5mm
Front Glass	3.2mm high transmission,low iron,tempered glass
Junction box	IP65 Rated

Product Standard

Product Performance	IEC61215
Product Safety	IEC61730

Linear Performance Warranty



12
YEARS

Guarantee on product material and workmanship

30
YEARS

Linear Power output warranty

Key Features



5 Busbar Cell:

5 Busbar Solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance making it perfect for rooftop installation and application



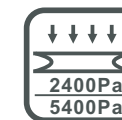
High Efficiency

High Module conversion efficiency, through innovative manufacturing technology



Low-Light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



Serve Weather Resilience

Certified to withstand wind load (2400Pa) and snow load (5400Pa)



Durability against extreme environmental conditions

High salt mist and ammonia resistance certified by TUV



0-+5W Positive Tolerance

Detailed information in Electrical Specifications

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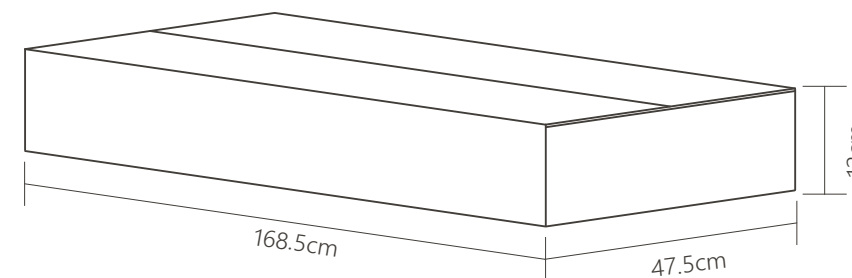
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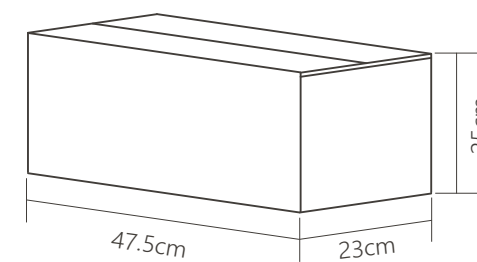
PRODUCT SPECIFICATION

Model	0441B150-02	Product Size
LED Chip	2835LED 10*60PCS 3000K-6000K	
Solar Panel	17V 150W, Mono-crystalline	
Battery Type	LiFePO4 12.8V 60AH	
Charging Time	6-8 hours	
Discharging Time	3 Rainy days	
Control Way	Light Control+Microwave Sensor+ Time Control	
Lumen Efficiency	160lm/w	
Material	Aluminum alloy	
Product Size	1626*422*142mm	
Install Height	8-10m	
Install Distance	28-35m	
Warranty	3 Years	

PACKAGING SPECIFICATION



Lamp body

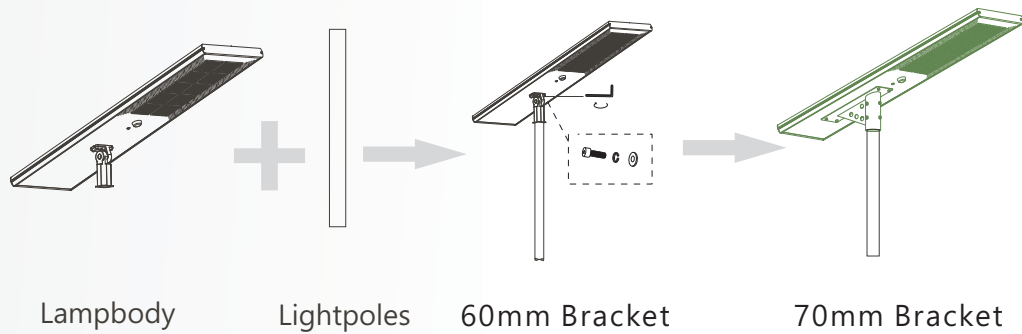


Base

P/N	Power	Packing Size (CM)			PCS/CTN	CBM/CTN	
		L	W	H			
0441B150-02	150W	168.50	47.50	12.00	1	0.0960	Lamp body
		47.50	23.00	25.00	15	0.0273	Base

INSTALLATION GUIDE

Install the lamp head on the configured light pole and tighten the screws as shown in the figure below



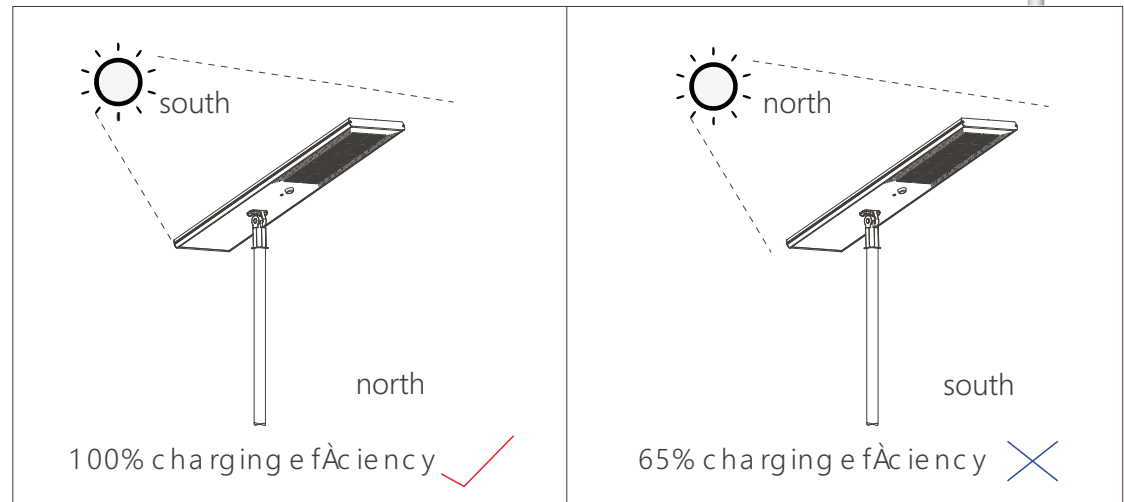
WARNING

- Please avoid looking directly at the light.
- Dismantling process must be carried out in a safe place.
- Do not short-circuit, disassemble; do not put in the water and near the fire.
- Without the guidance of experts, users are forbidden to repair or dismantle the lights; The supplier shall not be responsible for any consequences owing to incorrect operation or wrong maintained by users.

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1. Insert the lamp arm into the lamp body and tighten the screw.
2. Please select the appropriate product according to the installation site's sunlight intensity and required operating time. If you are in the northern hemisphere, face the solar panels towards the south as far as possible when installing the solar light; if you are in the southern hemisphere, face the solar panels towards the north.



(A diagram for how the orientation impacts on power generation efficiency)

APPLICATIONS



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