

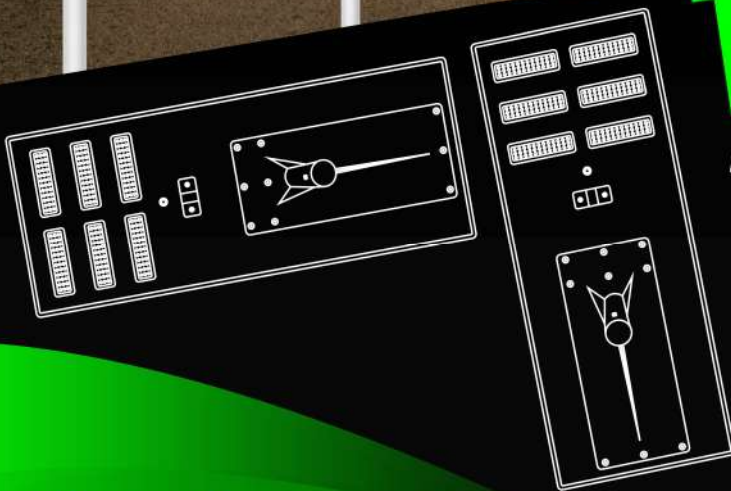


**TRIACS TECHNOLOGY  
SDN BHD**



*Expanding Technology and Innovation Reach*

**TriSLED**  
ALL IN ONE INTEGRATED  
SOLAR STREET LIGHT



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# PRODUCT OVERVIEW



## Deal with bad weather, IP66 waterproof

This solar street light has excellent waterproof, rainproof and lightning protection performance, temperature resistance range of  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ , IP66 waterproof, can work in various bad weather.

## High brightness solar light

Our solar street light provides super bright lighting to meet your needs. It uses high-quality SMD 5050 LED chips to provide you with the best lighting experience without consuming too much energy.

## MPPT Intelligent Controller

Charge and discharge protection, overvoltage protection, and reverse polarity protection, with charging efficiency up to 98% and an IP68 waterproof connector, ensure continuous operation.

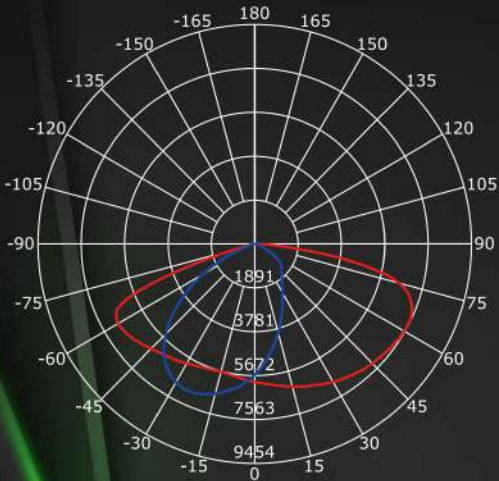
## Secondary optical design

The secondary optical design allows the light emitted by the LED light source to be focused twice and irradiated to the lighting area, thereby effectively utilizing the light.

# SPECIFICATION

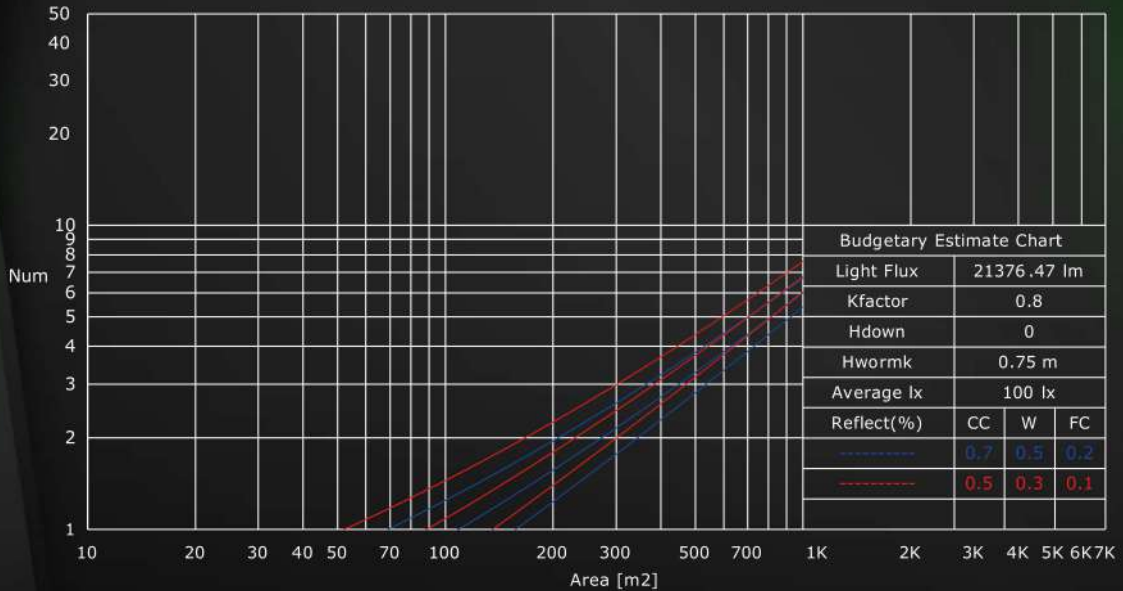
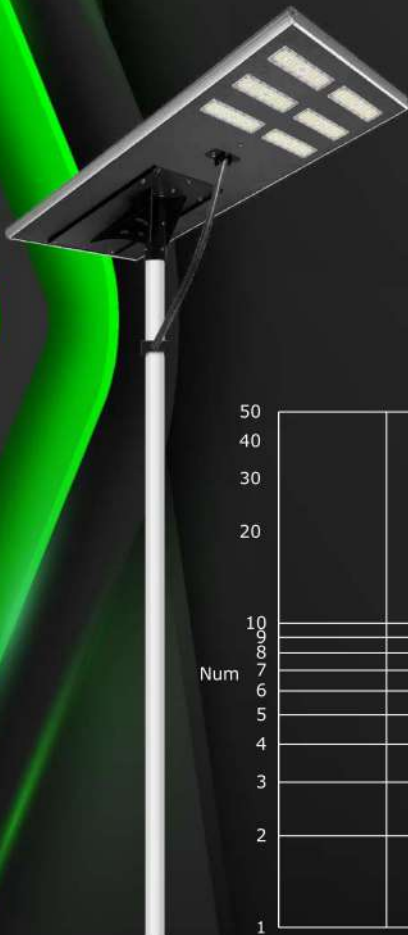
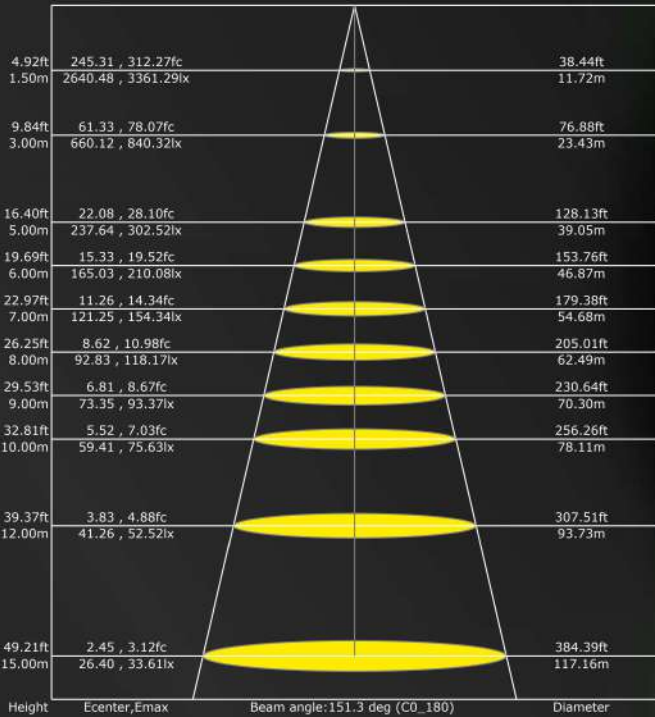
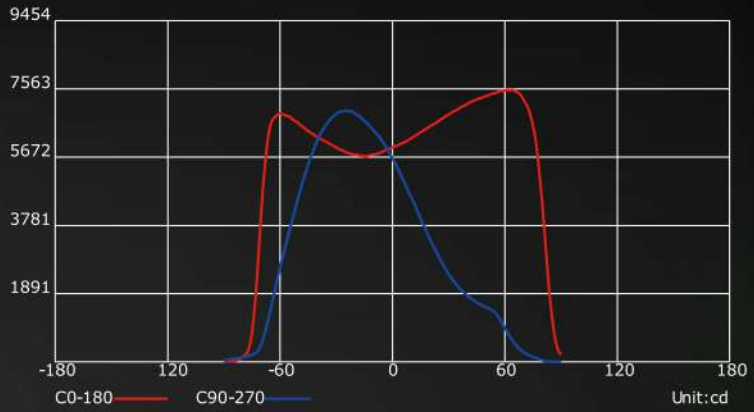
| Led Source                   | Tri-40W                                 | Tri-50W        | Tri-60W        | Tri-80W        | Tri-100W       | Tri-120W       | Tri-150W       |
|------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Mono Solar Panel</b>      | 18V / 120W                              | 18V / 150W     | 18V / 150W     | 36V / 200W     | 36V / 220W     | 36V / 220W     | 36V / 300W     |
| <b>LifePO4 Battery</b>       | 12V / 66AH                              | 12V / 90AH     | 12V / 90AH     | 24V / 66AH     | 24V / 90AH     | 24V / 90AH     | 24V / 114AH    |
| <b>LED (Bridgelux)</b>       | 5050<br>100PCS                          | 5050<br>150PCS | 5050<br>150PCS | 5050<br>200PCS | 5050<br>300PCS | 5050<br>300PCS | 5050<br>400PCS |
| <b>Color Temperature</b>     | 2700K-6500K, RA>70                      |                |                |                |                |                |                |
| <b>Brightness</b>            | 180LM/W                                 |                |                |                |                |                |                |
| <b>Working Time</b>          | 12-15hours, 10-12 cloudy/ rainy days    |                |                |                |                |                |                |
| <b>Charging Time</b>         | 6-8hours                                |                |                |                |                |                |                |
| <b>Mounting Caliber</b>      | 70-76mm (suggestion)                    |                |                |                |                |                |                |
| <b>Working Temperature</b>   | -25°C – +65°C                           |                |                |                |                |                |                |
| <b>Body Sensor</b>           | 160°, >9m, Activated by customer's need |                |                |                |                |                |                |
| <b>IP Rating</b>             | IP66                                    |                |                |                |                |                |                |
| <b>Mounting Height</b>       | 6-7m                                    | 6-8m           | 6-8m           | 8-9m           | 9-11m          | 10-12m         | 10-12m         |
| <b>Space between 2 lamps</b> | 20-25m                                  | 20-25m         | 20-25m         | 25-30m         | 30-35m         | 35-40m         | 35-40m         |
| <b>Warranty</b>              | 6 years                                 |                |                |                |                |                |                |

# LIGHT RATIO

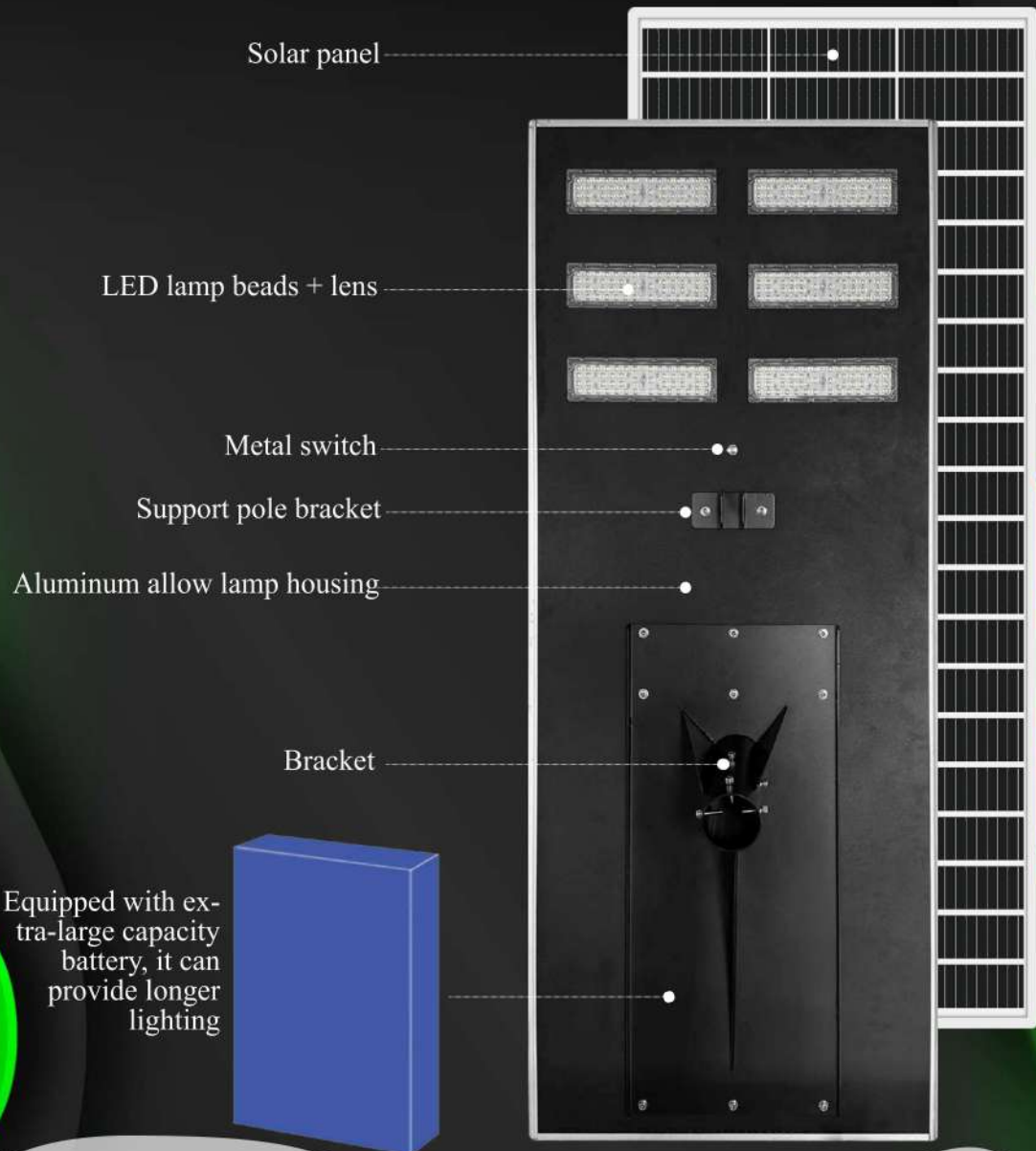


Beam Angle(50%) C0-180,C90-270: 151.3 deg,80.8 deg

C0-180 — C90-270



# PRODUCT DETAILS



**Solar panel**  
Made of high-quality monocrystalline silicon material, it has high charging efficiency and long service life.

**Anti-ultraviolet optical lens**  
The lens makes the light spot uniform, without scattered light, without shadow, with high light transmittance, maximizing the utilization rate of LED light source.

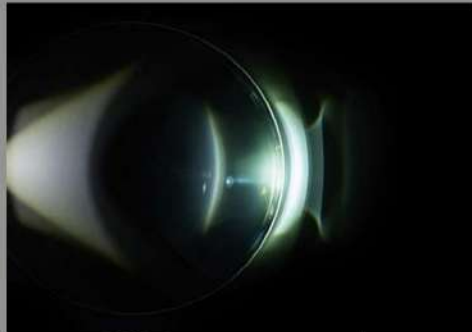
**Human body induction**  
Automatically turns on at night, 100% power when people come, and 30% power after people leave.

**Aluminum alloy lamp shell**  
The lamp shell is made of aluminum alloy, with anodized surface, no fading, durable, waterproof and rust-proof.

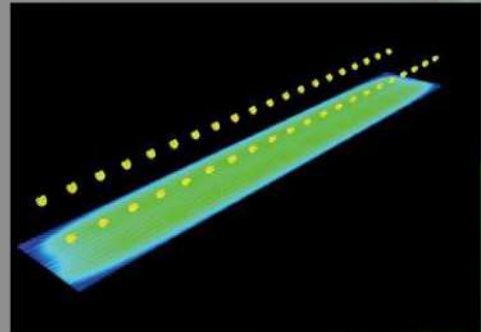
# OPTICS

This lamp, paired with a wide-angle lens, increases light brightness and expands the illumination range, making it suitable for wide road lighting.

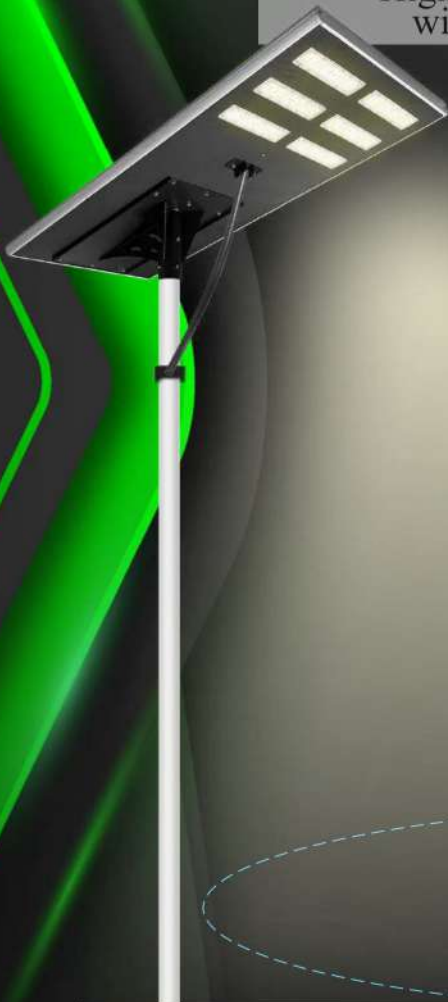
**Technical Support:** Please provide the length, width, height, and intended use of the road. We have a professional team of engineers and can provide DIALUX simulation software to calculate the number of lights and their effects. IES files are also available upon request.



High-concentration  
wide-angle lens



Road lighting diagram



# SMD 5050

## Features

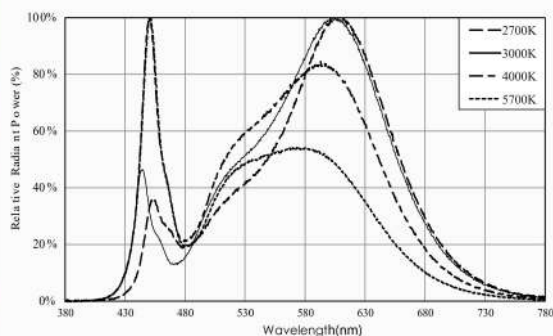
- ✕ Industry standard 5050 footprint
- ✕ 9 bin color control enable tight color control
- ✕ Hot color targeting ensure that coloris within the ANSI at the typical application condition of 85° c
- ✕ Enables 3 and 5 step MacAdam ellipse custom binning kits
- ✕ RoHS compliant and lead free
- ✕ Multiple CCT configurations for a widerange of lighting application



## Benefits

- Lower operating and manufacturing cost
- Ease of design and rapit go to market
- Unifirm consistent white light
- Reliable and constant white point
- Enviromentally friendly, complies with standards
- Design flexibility

## Typical Color Spectrum



Note: Color spectra measured at nominal current for T<sub>sp</sub> = 25° C

SMD 5050 adopts compact LED package, with excellent performance, high brightness, multi-color gamut, strong compatibility. SMD 5050 has a wide lumen coverage and rich color temperature (CCT) and color temperature (CRI) options, providing unparalleled design flexibility for indoor and outdoor lighting applications. Its high luminous flux characteristics can reduce the number of LEDs and achieve industry-leading system-level unit cost lumens.

# BATTERY

## ⚡ Aging Test Machine

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

## ⚡ Battery Cells

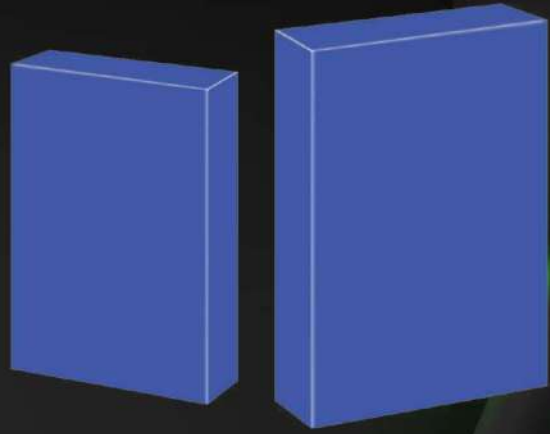
High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.

## ⚡ Battery Protector

High precision keeps the performance more stable, protecting against overload, over-charge, over discharge, short circuit, over voltage, over current, making the battery pack always safe and extending its service life.

## ⚡ 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.



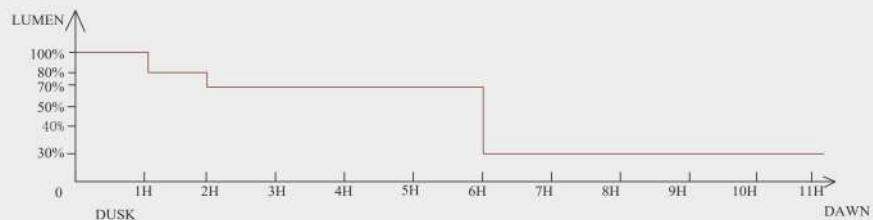
### Self-Discharge

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 |

### TIME CONTROL MODE



# ACCESSORIES



Lamp  
bracket



Lamp pole  
bracket



Support  
pole  
bracket



Screws



Screws

## 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.

# KEY FEATURES



## 5-busbar solar cells

5-busbar solar cells use new technology to improve component efficiency and have a more beautiful appearance, making them very suitable for rooftop installation and application.



## High efficiency

High module conversion efficiency achieved through innovative manufacturing technology.



## Weather-resistant

Certified to withstand wind loads (2400Pa) and snow loads (5400Pa).



## Low-light performance

Advanced surface texturing of glass and solar cells enables excellent performance in low-light environments.



## Withstands extreme environmental conditions

TUV-certified for high resistance to salt spray and ammonia.



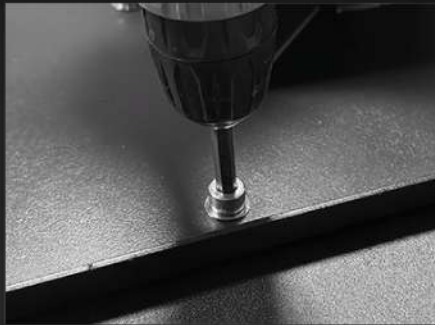
## 0 - +5W positive tolerance

See electrical specifications for details

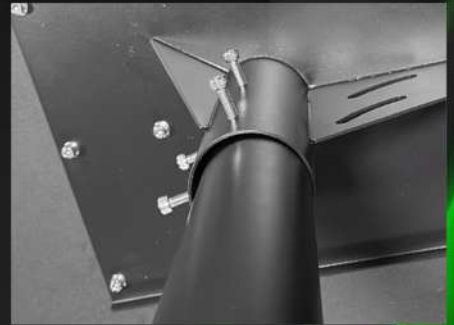
# INSTALLATION STEP



Step 1: Place the lamp bracket on the lamp body



Step 2: Secure the bracket with screws.



Step 3: Install the lamp on the pole.



Step 4: Secure the support pole bracket to the lamp body.



Step 5: Secure the support pole bracket to the pole with the wrapping.



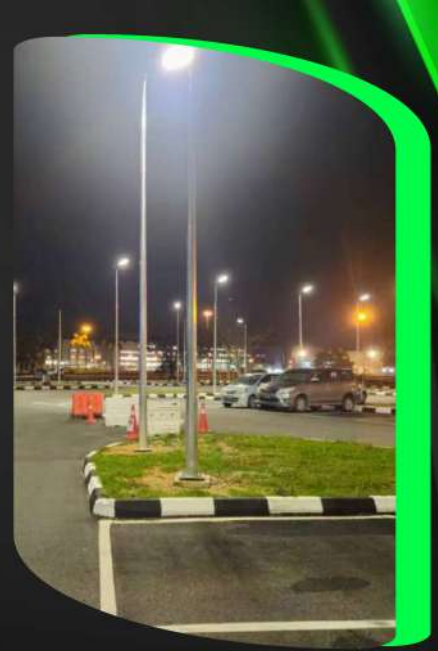
Step 6: Display the completed installation.

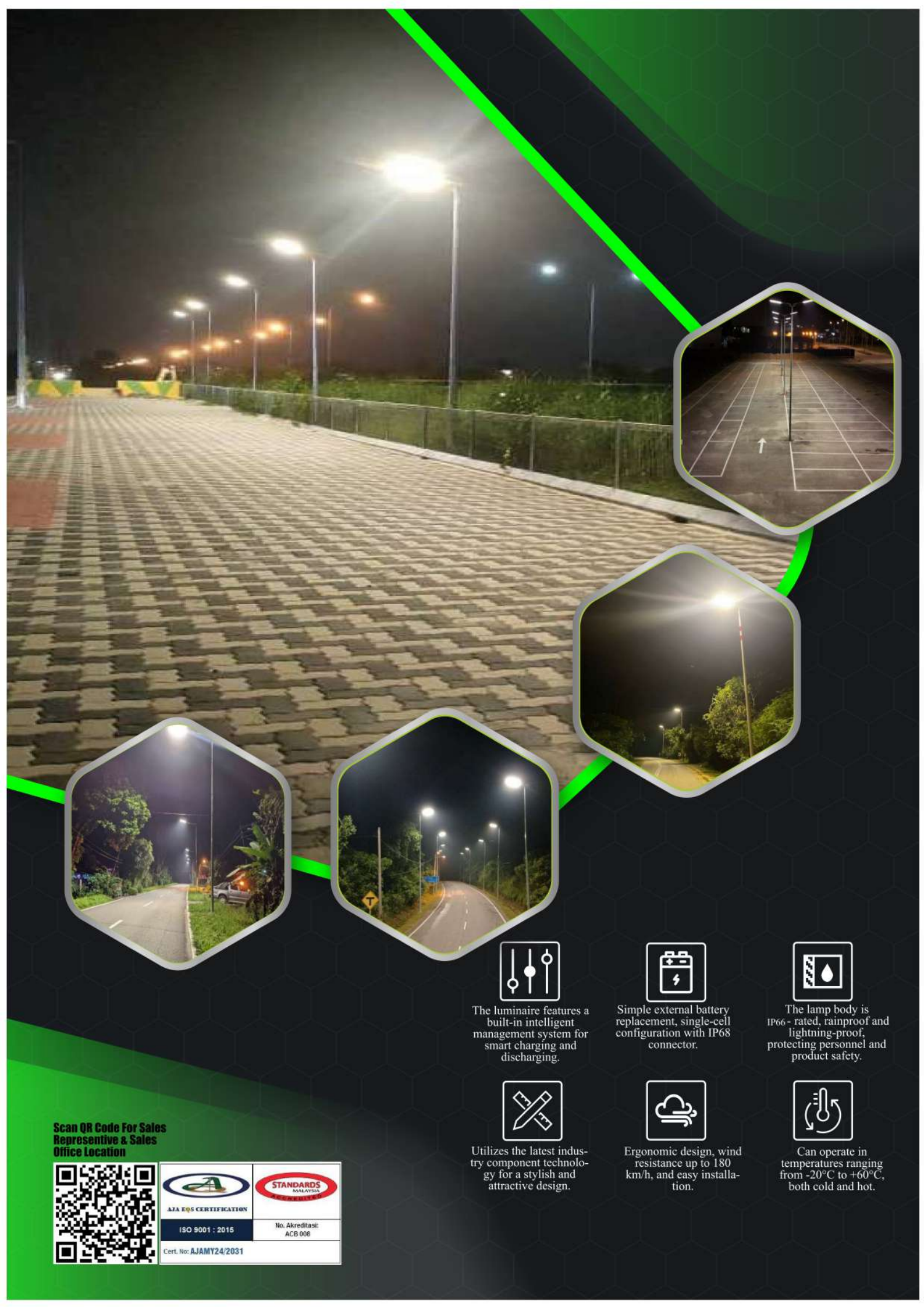
1. Insert the lamp arm into the lamp body and tighten the screw.

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.



# REFERENCE PROJECT





The luminaire features a built-in intelligent management system for smart charging and discharging.



Simple external battery replacement, single-cell configuration with IP68 connector.



The lamp body is IP66-rated, rainproof and lightning-proof, protecting personnel and product safety.



Utilizes the latest industry component technology for a stylish and attractive design.



Ergonomic design, wind resistance up to 180 km/h, and easy installation.



Can operate in temperatures ranging from -20°C to +60°C, both cold and hot.

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