Solar **Pathway**

SOLAR GARDEN LIGHT

ALB06

TECHNICAL SPECIFICATION

Plusrite®

Solar **Pathway**

SOLAR GARDEN LIGHT

Solar pathway enjoy a smart and unique design together with the best components available on the market. Using LiFePo4 Battery, PWM contoller and also made in aluminum makes it the most sustainable and reliable solar landscape light solution.

NOMINAL FLUX ..... 1500 LUMENS
NOMINAL POWER ..... 10 WATTS

LIGHTING

Efficiency ..... 160 Lumens/Watts
Chips LED ..... **BRIDGELUX**
LED lifetime ..... Over 80 000 hours LM80
Optics/CCT ..... T-V -- **Amber /** 2200K to 5000K

BATTERY

Technology ..... Lithium Iron Phosphate LIFEPO4
Capacity 40Wh
Autonomy ..... 12 hours - 4 Rainy Days back up
Charging time ..... 5-6 hours
Lifespan ..... Over 2000 CYCLES @ 80%
Working temp ..... -20°C to 60 °C

ENERGY

Solar panel ..... 5 Watts / 9V
Cells type ..... Monocrystaline Panel Grade A 25 years
Certificates ..... IEC 61215 - IEC 61730 I and II - IEC 60904

ELECTRONIC

Controller ..... Pulse Width Modulation Smart Control
Sensor ..... Passive Infrared Sensor
Protection ..... Battery Management System (BMS)

MECHANICAL

Pole mounting Φ101mm
Material ..... Aluminium
Product ..... 256 x 256 x1038
Carton Size ..... 300 x 300 x1095
Net Weight 4.8Kg
Gross Weight 6.7Kg

Landscape | Yard | Pathway

5 YEARS * We offers a 5 Year Limited Warranty

LUMINAIRE HOUSING & LEDS

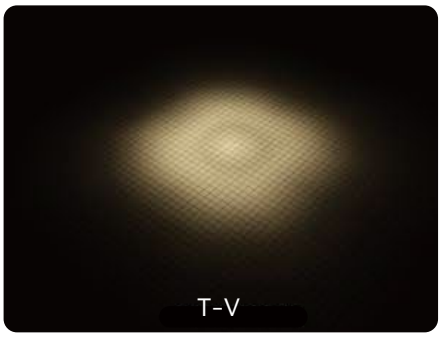
IP65

1500 LUMENS - 2200 TO 5000 K

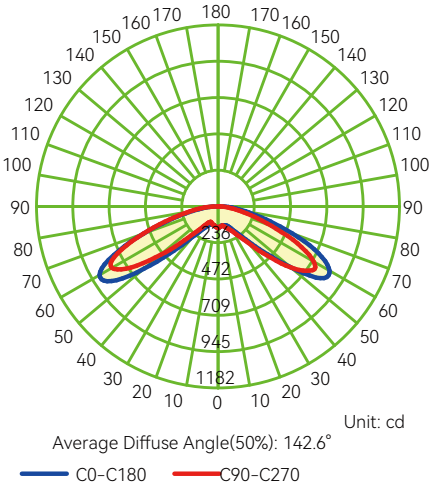
High pressure die-cast aluminum renders IP65 ingress protection.

Our Luminaire is equipped with Bridgelux high efficiency chips providing an overall 167 Lumens per Watt efficacy. CRI 80.

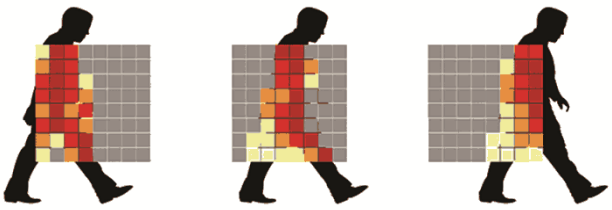
LIGHT DISTRIBUTION CURVES



TYPE-V AVERAGE BEAM ANGLE (50%): 142.6% DEG



PIR SENSOR

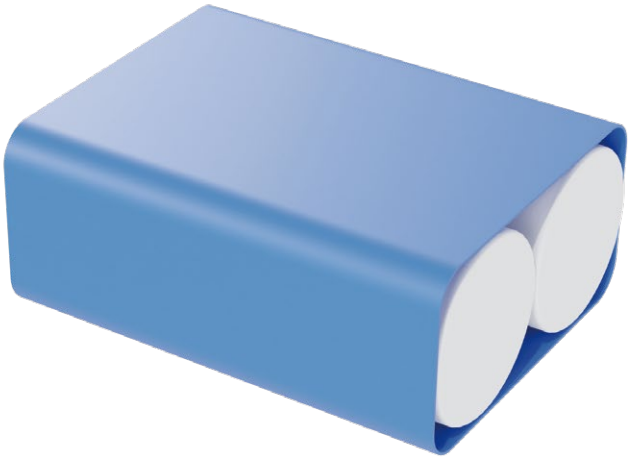


PASSIVE INFRARED SENSOR

Human body emits the heat in form of infrared radiation and PIR sensor is specially programmed to detect this type of radiation emitted or reflected from objects. In addition, they are small, inexpensive, low power and easy to use.

BATTERY LIFEPO4

+ OVER 10 YEARS LIFETIME



The Solar Pathway is equiped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be the best chemical technology for solar application on the market.

Proving over 3000 Cycles @ 80% DOD opeartion time, the battery has a lifespan of more than 10 years.

EXTREME TEMPERATURE
-10 °C TO 70 °C

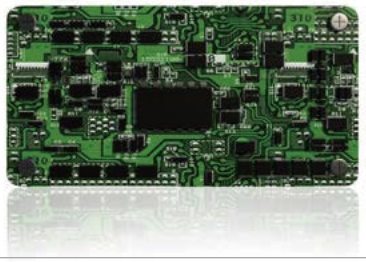
Even under extreme temperature of -10°-50°, the normal function and lifespan of battery will not be influenced or damaged.

EASY MAINTENANCE

Easy and direct access to the battery casing for maintenance. The casing is made with rigid PVC for perfect waterproof and heat dissipation.

BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped withelectronic circuit boards for a higher protection, ensuring battery functioning optimization no matter the situation.



The BMS Protects against :

• OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE • OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

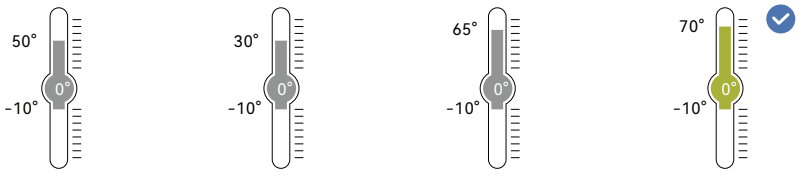
COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

LIFETIME & CYCLES AT 80% DOD*

Comparison of different battery technologies

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

Minimum & Maximum temperature range for Optimal charing during the day



SOLAR PANEL

solar cells
GRADE A

IK10

High efficiency mono-crystalline Solar panels. Carefully selected Grade A Solar cells. Up to 20.4% efficiency.

Optional reinforced PC shield provide a full cover protection against water and dust ingress, refraining from external damage to panel function, prolonging lifetime of panel operation.

CONTROLLER PWM

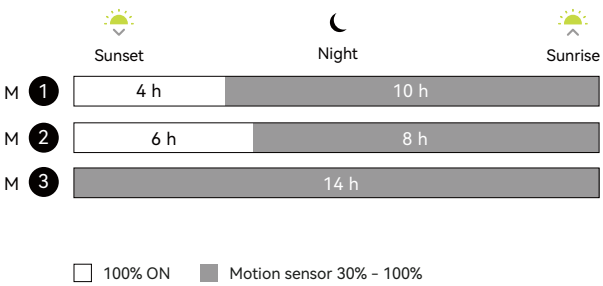
REMOTE CONTROL (OPTIONAL)

- Switch between Night Constant mode and Night Motion sensing mode.
  Press “M”, the led fixture blinks once to switch to Bright with motion at night.
  Press “M”, the led fixture blinks twice to switch to constant ON at night.
- CCT: Amber/3000K/4000K/5000K
- Press "☼", the light will keeps steady 100% brightness all the time.
- Press " –" to lower the brightness 10%.
  Press " +" to higher the brightness 10%.
- Press "◓", the light will keeps steady 50% brightness all the time.

→ Only work in the model of constant ON at night.

- Light model of Motion sensor:
  M1, M2, M3 & AUTO
- ON/OFF-: Press" ON/OFF" you can control the light to turn on/off manually.
  Only work in the model of constant ON at night.

Light Models for Motion Sensor:



Auto: Customized power-saving mode

F E A T U R E S

PWM(Pulse Width Modulation) smart controller system， a proven reliable, efficient solution for remote signal transmission on the market, because of **three vital features:**

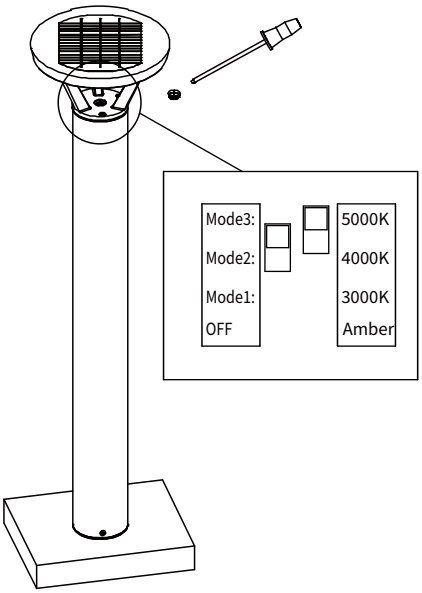
- Accuracy:
  Adjust brightness by regulating pulse width to achieve accurate lighting effects.

- Efficiency:
  Discard traditional adjustment via current intensity which cause extra energy consumption.

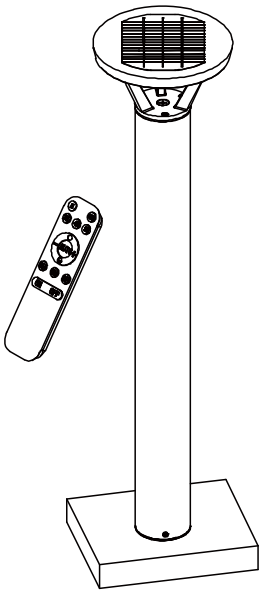
- Safety:
  Reduce current surge while on and off and potential damage to driver and LED chips.

SELECTABLE CCT AND MODE

Standard

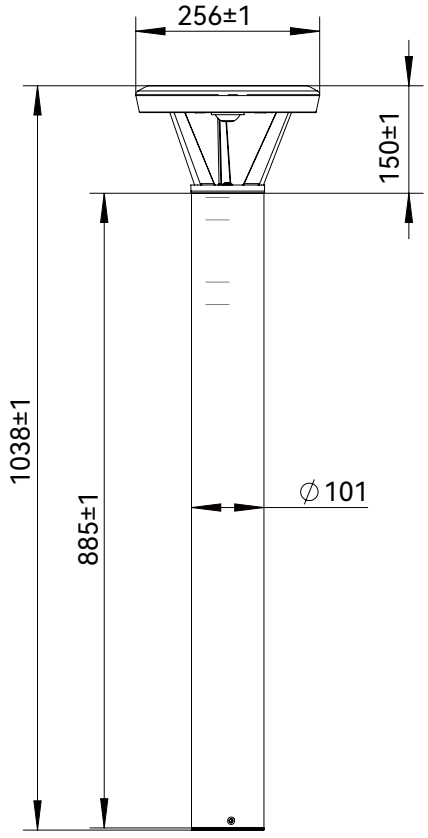


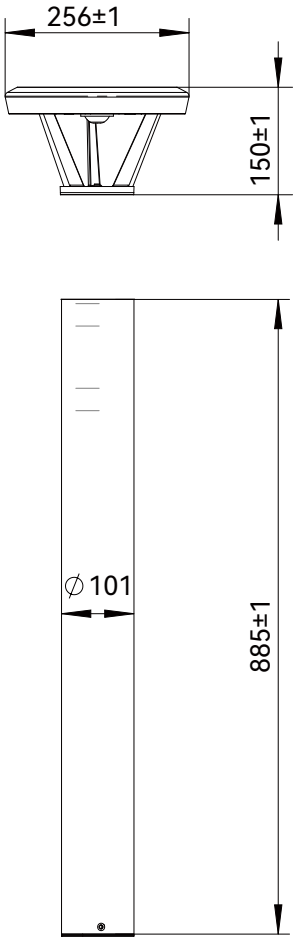
Optional



DIMENSIONS*

SOLAR PANEL & LED





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