

TITAN

SOLAR BOLLARD-019

Solar-powered bollard lights are innovative outdoor lighting fixtures that harness solar energy to illuminate pathways, driveways, and outdoor spaces. These compact and stylish fixtures are equipped with built-in solar panels, which absorb sunlight during the day and convert it into electricity to power LED bulbs at night. Offering a sustainable and energy-efficient lighting solution, solar-powered bollard lights enhance safety and visibility while minimizing environmental impact. With easy installation and low maintenance requirements, these lights are an eco-friendly and cost-effective way to enhance both aesthetics and functionality in outdoor environments



NOMINAL FLUX **420 LUMENS**
 NOMINAL POWER **3.5 WATT**

LIGHTING

Efficiency **120 Lumens/Watt**
 Chips LED **PHILIPS Luxeon 30-30**
 LED lifetime **Over 80 000 hours LM80**
 Optics/CCT **T-V / 3000K to 5000K (Dual CCT Optional)/5000K**
 Installation Height **31.4 Inches**

BATTERY

Technology **Lithium Iron Phosphate LIFEPO4**
 Capacity **28Wh**
 Autonomy **Over 24 hours at full charge - 4 Rainy Days back up**
 Charging time **6 hours**
 Lifespan **Over 3000 CYCLES @ 80% DOD over 10 years Lifetime**
 Working temp. **14°F to 158°F - (optional -40°F TO 158°F)**

ENERGY

Solar panel **6 Wc**
 Cells type **Monocrystalline Panel Grade A 25 years**
 Certificates **IEC 61215 - IEC 61730 I and II - IEC 60904**

ELECTRONIC

Sensor **PIR 180° Sensor (Optional)**

DIMENSIONS

Product **D 8.66 x H 31.49 Inches**
 Carton size **33.85 x 10.62 x 11.02 Inches**
 Weight **15 Lbs**
 Materials **Die Cast Aluminum**
 Installation **Insert on support**

Model Number **AVS-BL019 / AVS-BL019-1**
SKU **787903 / 787903-1**

Beyond Solar retains the right to modify or change product specifications without prior notice, as part of our ongoing commitment to improvement

Model #	SKU #	Power	Solar Panel	Lithium Battery	Lumens	CCT	Installation Height	IP Rating	Material
AVS-BL019	787903	3.5W	6 W	28WH	250LM	5000K	31.4 In	IP65	ALUMINUM
AVS-BL019-1	787903-1	3.5W	6 W	28WH	250LM	3000K-5000K	31.4 In	IP65	ALUMINUM



LUMINAIRE & LEDs

The TITAN 31.49" bollard incorporates the latest LED technologies, its elegance and ease of installation will meet your lighting needs. TITAN is equipped with LED chips, combining performance and robustness with 120 lumens per watt.

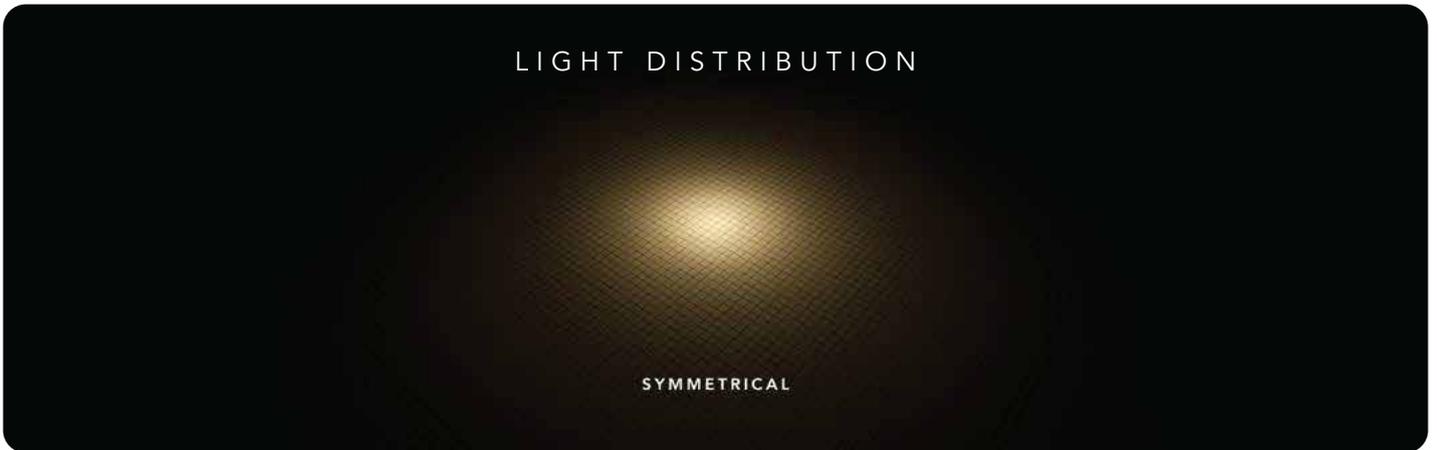
IP65



A TOTAL OF 420 LUMENS

Our light fixture also complies with current standards concerning light pollution.

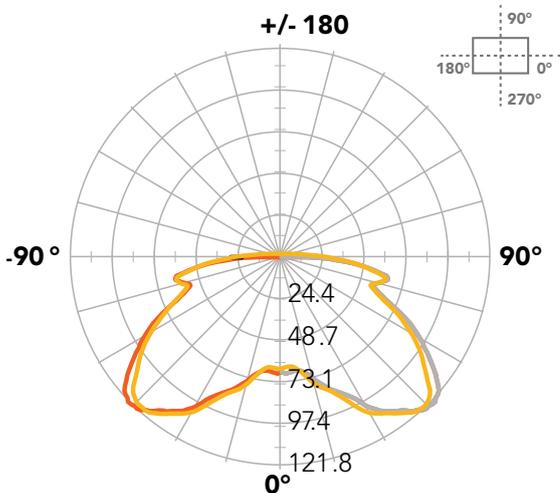
SYMMETRICAL DISTRIBUTION



PHOTOMETRIC CURVE

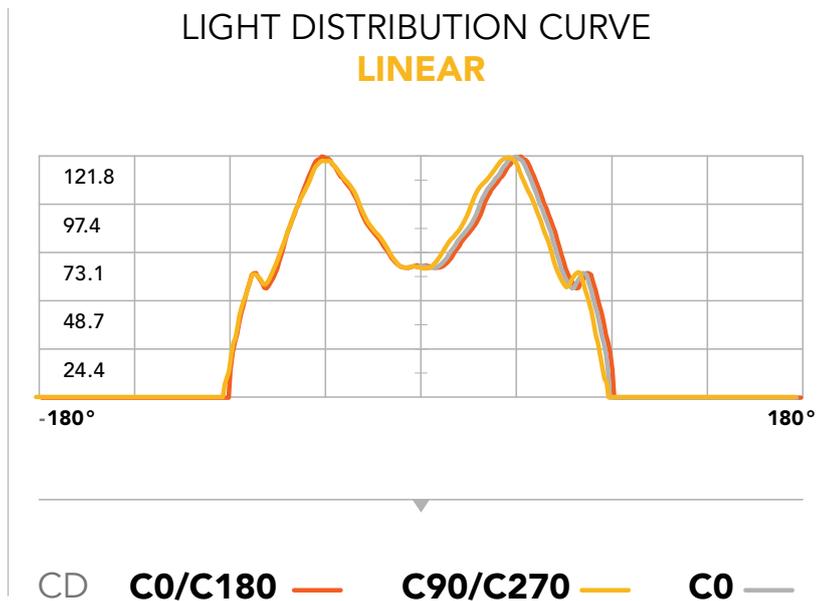
LIGHT DISTRIBUTION CURVE

UNIT : CD

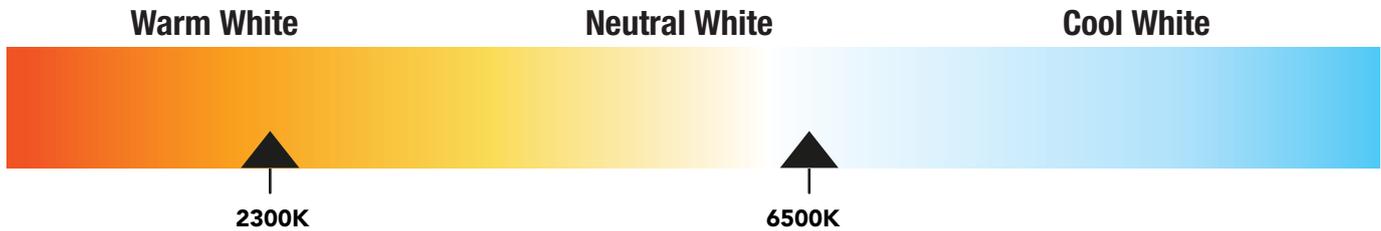


LIGHT DISTRIBUTION CURVE

LINEAR



CORRELATED COLOR TEMPERATURE



BATTERY LIFEP04

The TITAN 31.49" bollard is equipped with Lithium Iron Phosphate LIFEP04 batteries, recognized as the best battery technology in terms of longevity, safety, and performance for solar applications. Our batteries enjoy a lifespan of over 3000 cycles, which is more than 10 years at 80% DOD.



EXTREME TEMPERATURE 14F TO 158F

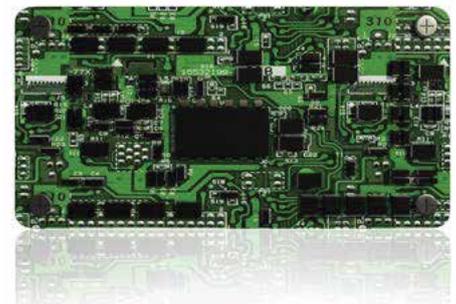
While standard batteries benefit from an operating temperature of 14F to 158F, Beyond Solar offers as optional a new Special LIFEP04 battery with working range of -40F to 158F

BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with electronic circuit boards for a higher protection, ensuring battery functioning optimization in any situation.

THE BMS PROTECTS AGAINST

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



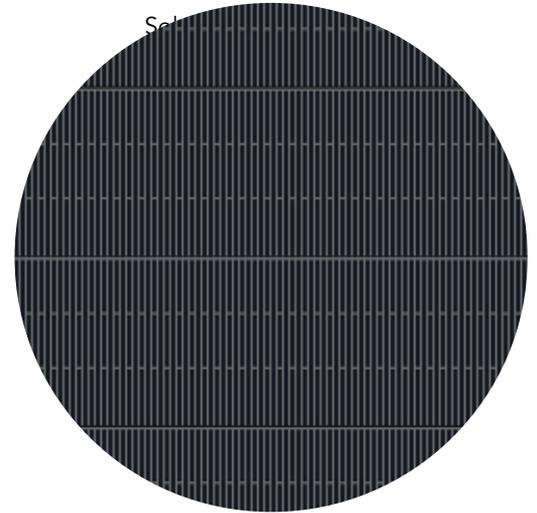
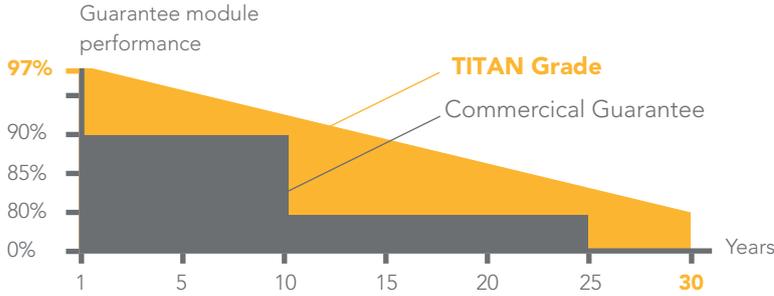
SOLAR PANEL

6 WATT

Encapsulated Monocrystalline Solar Panel **Grade A** Solar Cell with Tempered Glass.

GRADE **A**

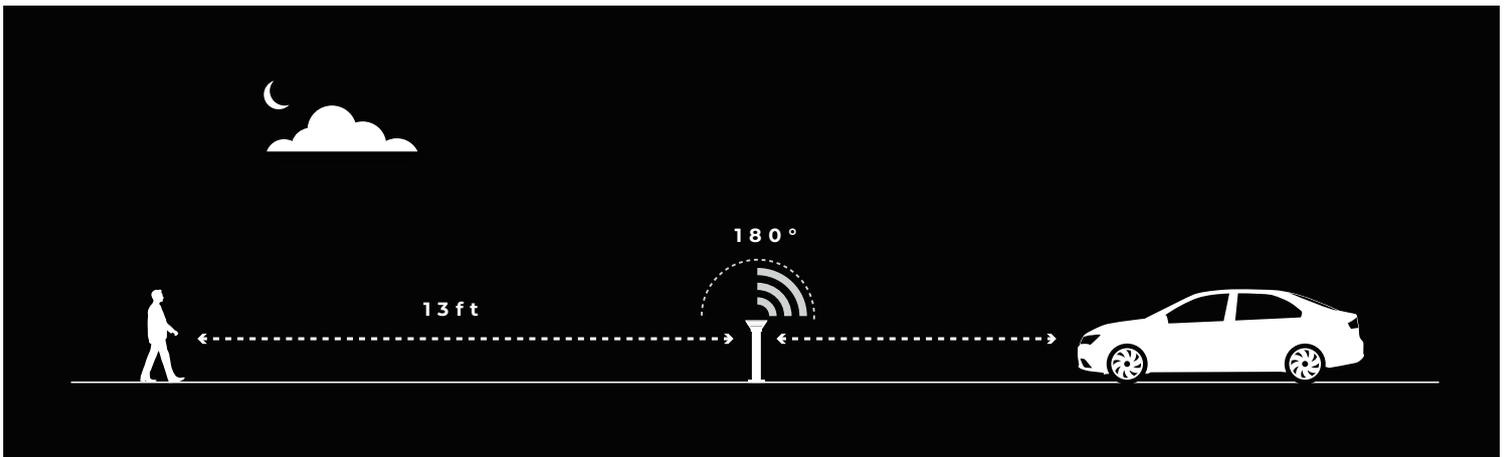
OUR PV PERFORMANCE GUARANTEE



PRESENCE DETECTOR INFRA-RED SENSOR

THE TITAN 39.37" / 31.49" BOLLARD AUTOMATICALLY TURNS ON AT DUSK AND OFF AT DAWN.

TITAN offers optional PIR movement sensor. The infra red detector integrated into the light fixture will increase the light power as pedestrians or vehicles pass, thus providing a higher level of safety while respecting the environment.



Sunset

Night

Sunrise

Program	Light Reduction	Duration
Pr 1	40% Dim + 100% ON	14 h
Pr 2	30% Dim + 100% ON	14 h
Pr 3	20% Dim + 100% ON	14 h

Depending on the geographical area, we will select the % of light reduction.

- Program 1** > 40% Dim + 100% ON during 20 sec
- Program 2** > 30% Dim + 100% ON during 20 sec
- Program 3** > 20% Dim + 100% ON during 20 sec



EASY INSTALLATION

NO CABLING • NO TRENCHING

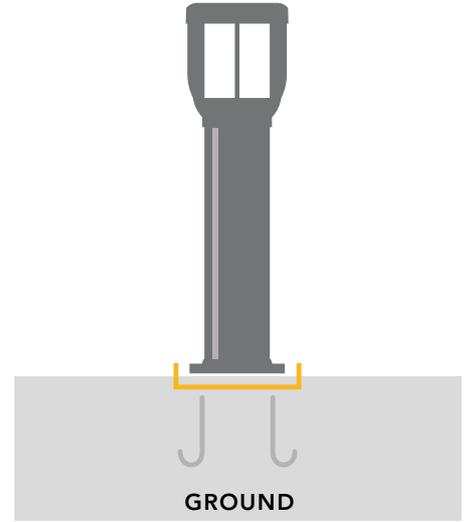
No wiring or trenching is necessary, you just need to embed the TITAN 39.37" on anchor rods.

To activate the bollard after installation, follow these steps:

- Locate the small rubber cap beneath the light.
- Pull back the rubber cap to reveal a button inside the hole.
- Use a long screw or Allen wrench to press the button.
- Cover the rubber cap back in place.

To test the bollard:

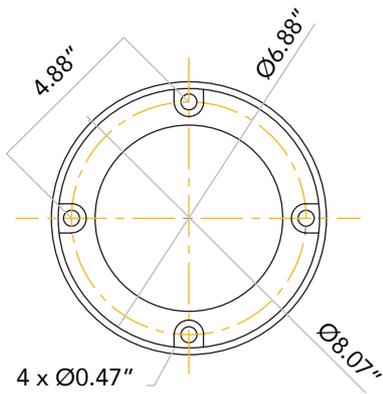
- Completely cover the solar panel with cardboard or a dark cloth.
- After waiting a few seconds, the light should illuminate.
- Your bollard is now activated, and it will automatically come on at dusk.



FLAT MOUNT

DIMENSIONS

All Dimensions Are In Inches



FLANGE

Installation Height
31.4 Inches

