

**BULLARD  
SOLAR**  
One with the Sun

**THOLOS  
SOLAR POST-TOP**





FIXTURE TYPE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_



**GENERAL INFORMATION:**

Our Solar Post-Top's sleek design is the perfect solution for Urban lighting. It meets a wide range of application needs from pathways, parks to compounds and so on as well as blends harmoniously into a wide variety of architectural contexts. Engineered to perform like conventional post top lighting, Bullard Solar Post-Tops feature high-performing LEDs fueled by Solar energy.

|                     |             |
|---------------------|-------------|
| NOMINAL FLUX .....  | 3920 LUMENS |
| NOMINAL POWER ..... | 20 WATTS    |

**LIGHTING**

|                    |  |
|--------------------|--|
| Efficiency .....   | 196 Lumens/Watts                             |
| Chips LED .....    | PHILIPS Luxeon 30-30 / 2300K to 6500K        |
| LED lifetime ..... | Over 80 000 hours LM80                       |
| Optics/CCT .....   | T-III / T-V -- 2300 to 6500K                 |
| Light Height ..... | From 118.11" to 196.85" (From 3 to 5 Meters) |

**BATTERY**

|                     |  |
|---------------------|--|
| Technology .....    | Lithium Iron Phosphate LIFEPO4   |
| Capacity .....      | 320Wh  |
| Autonomy .....      | Over 24 hours at full charge - 4 Rainy Days back up                            |
| Charging time ..... | 6-7 hours  |
| Lifespan .....      | Over 3000 CYCLES @ 80% DOD over 10 years Lifetime                              |
| Working temp .....  | 14°F to 158°F (optional -40°F to 158°F) -10°C to 70°C (optional -40°C TO 70°C) |

**ENERGY**

|                    |  |
|--------------------|--|
| Solar panel .....  | 45 Watts /18V                              |
| Cells type .....   | Monocrystalline Panel Grade A 25 years     |
| Certificates ..... | IEC 61215 - IEC 61730 I and II - IEC 60904 |

**ELECTRONIC**

|                  |                                     |
|------------------|-------------------------------------|
| Controller ..... | MPPT SMART CONTROLLER               |
| Sensor .....     | Microwave 360° Motion Sensor        |
| Cabling .....    | Waterproof Connector, Plug and Play |
| Protection ..... | Battery Management System (BMS)     |

**MECHANICAL**

|                     |                               |
|---------------------|-------------------------------|
| Pole mounting ..... | 3.00" (76 mm)                 |
| Material .....      | Aluminium and Stainless Steel |

**DIMENSIONS**

|                       |  |
|-----------------------|--|
| Product .....         | D 23.98" x H 10.39" (D 60.9 cm x H 26.4 cm)      |
| Carton size .....     | 26.38" x 26.38" x 13.39" (67 cm x 67 cm x 34 cm) |
| Net Weight .....      | 22,27 lb (10.1 KG)                               |
| Gross Weight .....    | 28,66 lb (13 KG)                                 |
| QTY /CTN 20"/40"..... | 144/306  |



Parks & Gardens



Places



Car Parks & Rest Areas



Pathways



Campsites

**CERTIFICATIONS**

**IEC / TUV / EMC / LM-79- 08  
AND LM-80 TEST STANDARDS  
/ IK8 / IP65 / CE / ULOR**

**5  
YEARS**

\* Bullard Solar offers a 5 Year Limited Warranty for the Post Top-Series luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Bullard Solar instructions. Fixture suitable for ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

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

**ONE WITH THE SUN**

sales@gordonbullard.com  
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## LUMINAIRE HOUSING & LEDS

### 3920 LUMENS - 2300 TO 6500 K

High pressure die-cast low-copper aluminum. Protection class (IP65). Bullard Solar uses a high quality Polyester Powder Coating from AKZO NOBEL. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention for this product.

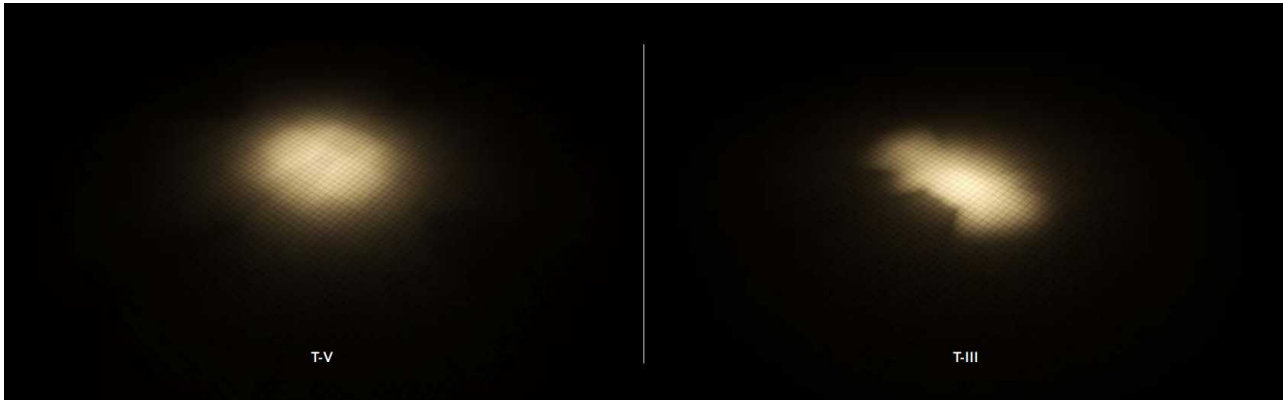
Our Luminaire is equipped with PHILIPS LUXEON HE PLUS High efficiency Chips offering and overall 196 Lumens per Watt efficacy. Our luminaire also complies with the DARK SKY requirement for light pollution with an Upward lighting of 0,71%.



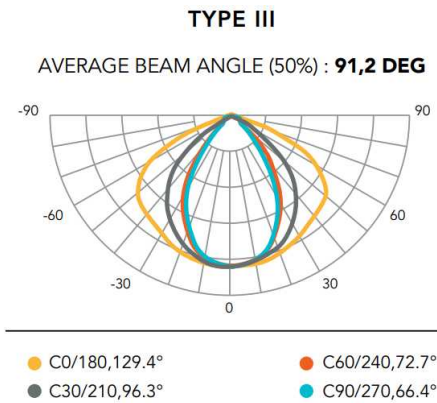
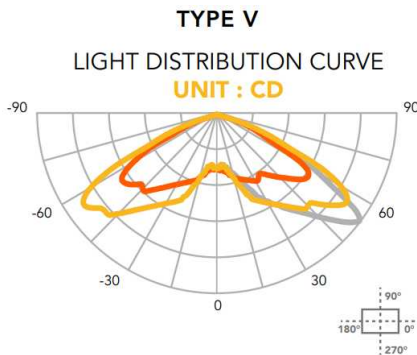
**LUXEON**  
BY PHILIPS LUMILEDS

### DIFFERENT OPTICS \*

Our different optics will allow you to optimize the lighting results of your projects



### LIGHT DISTRIBUTION CURVES



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**+ OVER 10 YEARS LIFESPAN**

The POST-TOP Series is equipped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be the best chemical technology for solar application on the market.


With a cycle life of over 3000 Cycles @ 80% DOD, the battery enjoys over 10 years lifetime.

**EXTREME TEMPERATURE**

14°F to 158°F (-40°F OPTIONAL)  
-10°C TO 70°C (-40°C OPTIONAL)

When Standard Lithium LiFePo4 batteries enjoy a working temperature range from 14°F to 158°F (-10°C TO 70 °C). Bullard Sollar offers as optional a new Special LIFEP04 battery with working range of -40°F to 158°F (-40 °C. to 70 °C).

**BATTERY  
LIFEP04**



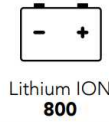
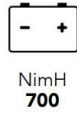
**BMS ELECTRONIC PROTECTION  
BATTERY MANAGEMENT SYSTEM**

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

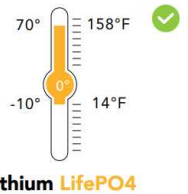
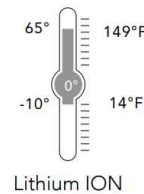
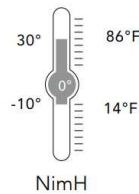
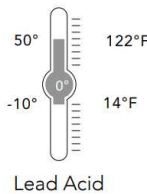
THE BMS PROTECTS AGAINST  
OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE  
• OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

**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 charging during the day*



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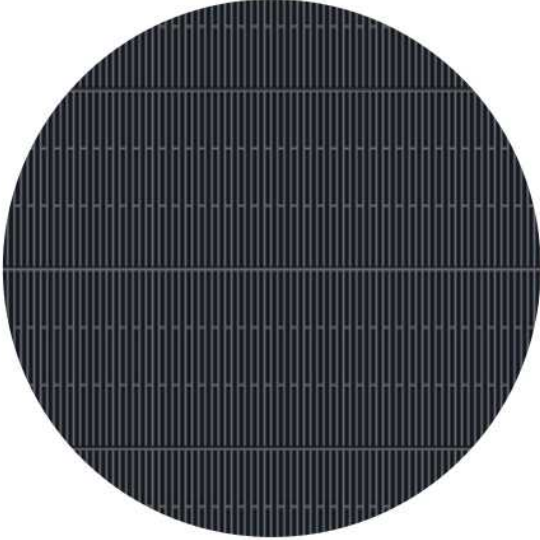
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# SOLAR PANEL

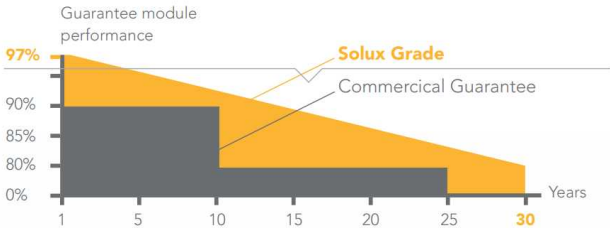
## 45 WATTS

High efficiency mono-crystalline Solar panels. Carefully selected Grade A Solar cells. Up to 20.4% efficiency, all protected by self-cleaning tempered glass at 30 degrees of inclination. They are also equipped with fully waterproof Plug and Play connectors for easy maintenance.

solar cells  
**GRADE A**



### OUR PV PERFORMANCE GUARANTEE



## CONTROLLER MPPT



**WATERPROOF CONNECTORS  
"PLUG & PLAY"**

All our components are assembled **seamless and easy to access**

In a search for performance and reliability, our products are equipped with MPPT technology controller offering the best charging efficiency on the market up to 98%

### REMOTE CONTROL MONITORING

In order to facilitate all maintenance operations and above all to diagnose any possible problem, without having to intervene mechanically on the luminaire, BULLARD SOLAR luminaires are equipped with a wireless diagnostic system via remote control



**With a simple click it is possible to have real-time information such as:**

- Automatic diagnosis in case of malfunction
- State of charge and battery history
- Real Time load and solar panel energy production history
- Age of the product and installation Temperature and its history

## FEATURES

- Minimal stand-by power consumption
- Current consumption  $\leq 10\text{mA}$
- Intelligent battery management

### 3 Phases charging:

- Charge MPPTT
- Constant voltage
- Floating voltage
- Intelligent LED driver Auto detecting of Dusk and Dawn for automatic operation, 7 Lighting Programs Configuration.
- ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.
- The controller also acts against:

- OVERLOAD
- OVERCURREN
- OVERTEMPERATURE
- OVERVOLTAGE / OVERLOAD
- OVERDISCHARGE

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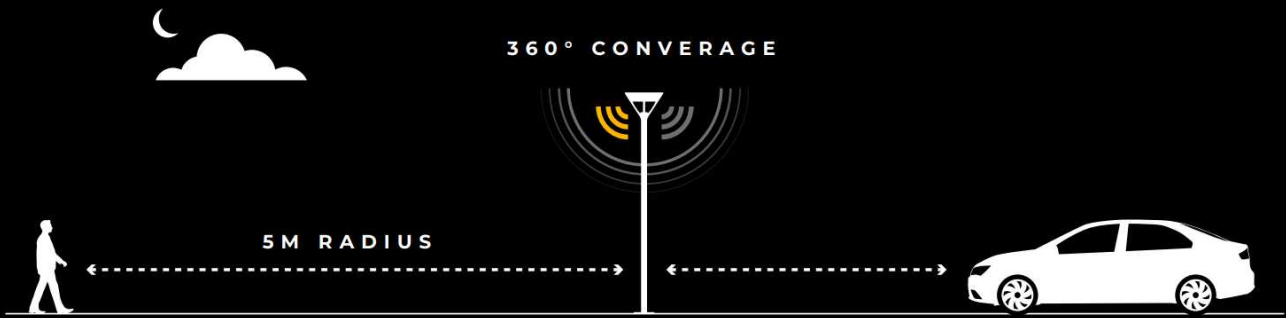
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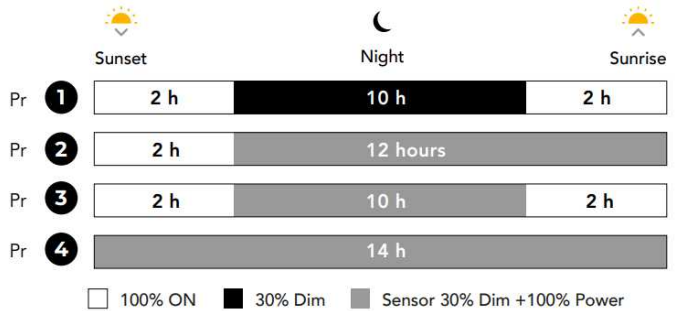
# MOTION SENSOR MICROWAVE

Our Solar Post-Top comes with microwave motion sensors that detect pedestrians, cyclists and vehicles. The light level increases as they pass to ensure safety and security while respecting the environment



## OPERATION MODE & LIGHTING SCHEDULE

In addition to automatic switching on and off, you have the possibility of choosing among different modular operating modes according to the needs of the project.



CONTACT US FOR MORE PROGRAM OPTIONS

## EASY INSTALLATION NO CABLING NO TRENCHING

No cabling or teaching is required, Easy to install.  
Insert on pole and switch ON.



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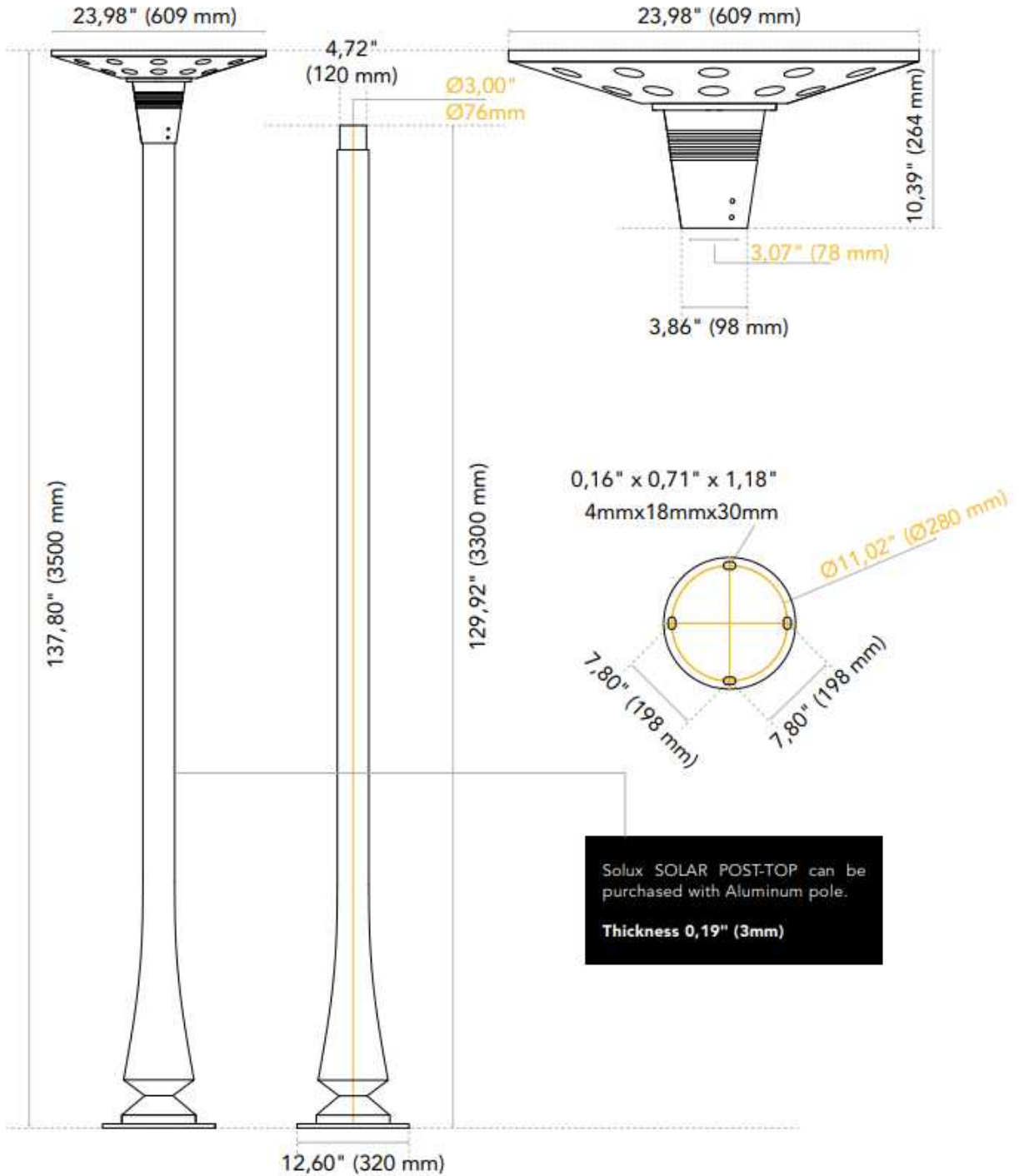
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# DIMENSIONS \*



Solux SOLAR POST-TOP can be purchased with Aluminum pole.  
**Thickness 0,19" (3mm)**

\* All dimensions are in mm

