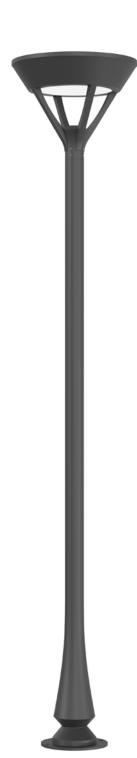


KONOS SOLAR POST-TOP



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	
Chips LED	
LED lifetime	
OpticsCCT	
Light Height	
BATTERY	
TechnologyLithium Iron Phosphate LIFEPO4	
Capacity	
Autonomy Over 24 hours at full charge - 4 Rainy Days back up	
Charging time	
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	
Cells type	
Certificates	
ELECTRONIC	
Controller	
Sensor	
Cabling	
Protection	
MECHANICAL	
Pole mounting	
Material Aluminium and Stainless Steel	
DIMENSIONS	
Product	
Carton size	
Net Weight	
Gross Weight	
Qty /Ctn 20"/40"	
Product code PL-008	



Parks & Gardens







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

Pathways



CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR



* 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 YEARS ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

KONOS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 1 of 7



991 South Gull Lake Dr Richland, MI 49083 US USA



LUMINAIRE HOUSING & LEDS

3920 LUMENS - 2300 TO 6500 K

High pressure die-cast low-copper aluminum. **Protection class** (IP65). Solux 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**.

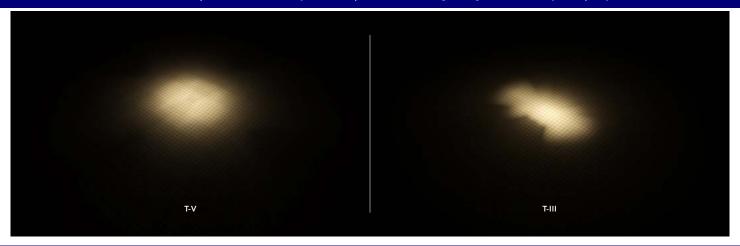
Our luminaire also complies with the **DARK SKY** requirement for light pollution with an **Upward lighting of 0,71%** .



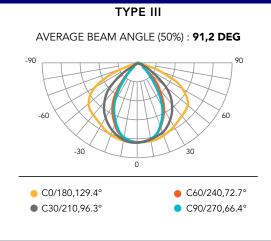


DIFFERENT OPTICS*

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



LIGHT DISTRIBUTION CURVES



KONOS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 2 of 7

sales@gordonbullard.com www.bullardbollards.com 1-877-964-4646 C

991 South Gull Lake Dr Richland, MI 49083 US USA

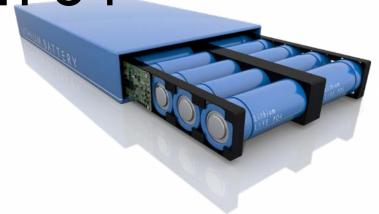


BATTERY LIFEPO4

+ OVER 10 YEARS LIFETIME

The POST-TOP Series is equiped 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). Solux offers as optional a new Special LIFEPO4 battery with working range of -40°F to 158°F (-40 °C. to 70 °C).

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* Lead Acid Lithium ION Lithium LifePO4 NimH Comparison of different 700 200 800 3 000 battery technologies ≣ 158°F 💟 65° 149°F CHARGING TEMPERATURE 122°F RANGE WITHOUT CAPACITY _ 14°F -10° 14°F -10° 14°F -10° 14°F LOSS Minimum & Maximum temperature range for Optimal charing during the day Lithium Lead Acid Lithium ION NimH

KONOS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 3 of 7



991 South Gull Lake Dr Richland, MI 49083 USA



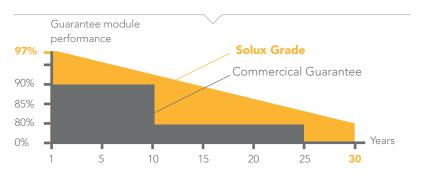
SOLAR PANEL

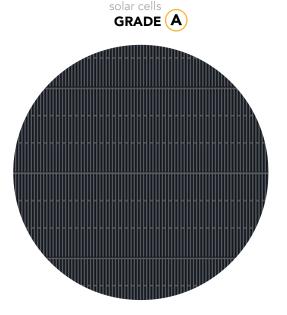
45 WATTS

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.

OUR PV PERFORMANCE GUARANTEE





CONTROLLER MPPT



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, Solux 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 ≤ 10mA
- Intelligent battery management3 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
 - OVERCURRENT
 - OVERTEMPERATURE
 - OVERVOLTAGE / OVERLOAD
 - OVERDISCHARGE

TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 4 of 7



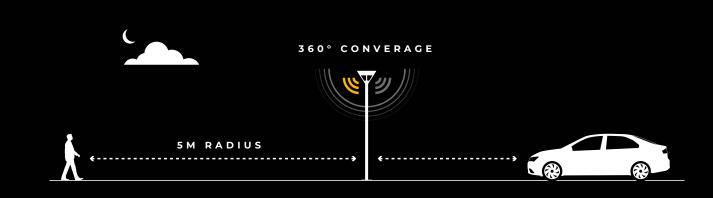
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MOTION SENSOR MICROWAVE

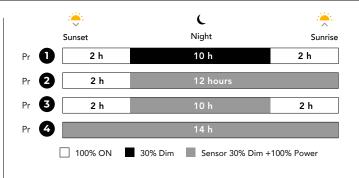
Our Solar Post-Top comes with microwave motion sensors that detect pedestrians, cyclists and vehicles.

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.**



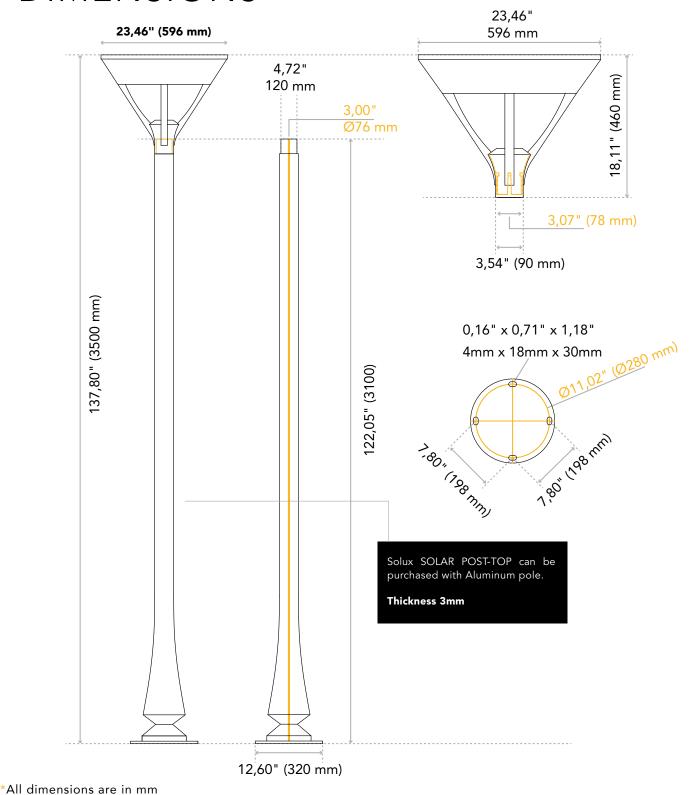
KONOS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 5 of 7



991 South Gull Lake Dr Richland, MI 49083 USA



DIMENSIONS*



KONOS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 6 of 7

