BULLARD SOLAR
One with the Sun

# SSLX PRO 80
# SOLAR STREET LIGHT SPLIT



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CODE:
**SP**

FIXTURE TYPE: _____

PROJECT NAME: _____



Hiking Trails | Car Parks & Rest Areas

Main Roads | Secondary Roads

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 SSLXPRO-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

## GENERAL INFORMATION:

SSLXPRO series enjoy a smart and unique design together with the best components available on the market. Using LiFePo4 Battery, MPPT contoller and also made in aluminum makes it the most powerful and reliable solar street light solution.

| | |
|---|---|
| NOMINAL FLUX | 15 680 LUMENS |
| NOMINAL POWER | 80 WATTS |

## LIGHTING

| | |
|---|---|
| Efficiency | 196 Lumens/Watts |
| Chips LED | PHILIPS Luxeon 30-30 |
| LED lifetime | Over 80 000 hours LM80 |
| Optics/CCT | TII-S / T3-M/ T-V -- 2300 to 6500K |
| Light Height | From 7 to 8 meters (From 275.59" to 314.96") |

## BATTERY

| | |
|---|---|
| Technology | Lithium Iron Phosphate LIFEPO4 |
| Capacity | 1152 Wh |
| Autonomy | Over 24 hours at full charge - 4 Rainy Days back up |
| Charging time | 5-6 hours |
| Lifespan | Over 3000 CYCLES @ 80% DOD over 10 years Lifetime |
| Working temp | 14°F to 158°F (optional -40°F to 158°F ) -10°C to 70°C (optional -40°C TO 70°C ) |

## ENERGY

| | |
|---|---|
| Solar panel | 210 Watts / 18V |
| Cells type | Monocrystaline Panel Grade A 25 years |
| Certificates | IEC 61215 - IEC 61730 I and II - IEC 60904 |

## ELECTRONIC

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

## MECHANICAL

| | |
|---|---|
| Pole mounting | 89mm - 76mm (3.50" x 3.00") |
| Material | Aluminium and Stainless Steel |

## DIMENSIONS

| | |
|---|---|
| Product | 156 cm x 72.5 cm x 15 cm (61.42" x 28.54" x 5.91") |
| Carton size | 161 cm x 77 cm x 19.5 cm (63.39" x 30.32" x 7.68") |
| Net Weight | 28.5 KG (62,83 lb) |
| Gross Weight | 34.5 KG (76,06 lb) |
| QTY /CTN 20''/40' | 88/175 |

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# LUMINAIRE HOUSING & LEDS

## 15680 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 eff cacy. Our luminaire also complies with the DARK SKY requirement for light pollution with an Upward lighting of 0.31%.




LUXEON BY PHILIPS LUMILEDS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LED | 3030 | LED QTY (PCS) | 144 | LENS (PCS) | 4 | CRI | > 80 |

## DIFFERENT OPTICS*

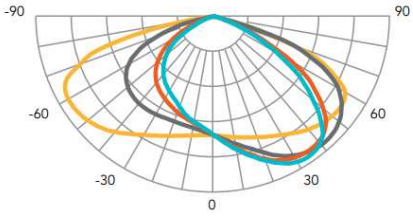
Our different optics will allow you to optimize the lighting results of your projects




*Please contact us for more optics.

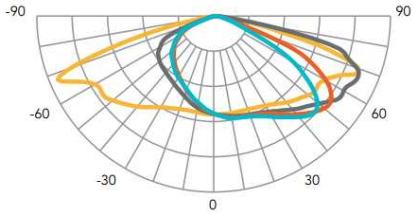
## LIGHT DISTRIBUTION CURVES

**TYPE-II**
AVERAGE BEAM ANGLE (50%): **102.5 DEG**



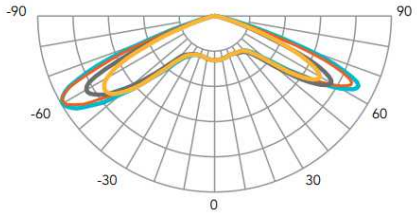

C0/180,150.3 C60/240,106.2
C30/210,142.5 C90/270,91.6

**TYPE-III**
AVERAGE BEAM ANGLE (50%): **116.7 DEG**




C0/180,154.7 C60/240,98.2
C30/210,115.6 C90/270,98.4

**TYPE-V**
AVERAGE BEAM ANGLE (50%): **147.5 DEG**




C0/180,145.4 C60/240,149.0
C30/210,150.1 C90/270,145.5

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## + OVER 10 YEARS LIFESPAN

The SSLXPRO 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 lifespan of over 10 years.

## EXTREME TEMPERATURE

### 14°F to 158°F / -10 °C to 70°C

When Standard Lithium LiFePo4 batteries enjoy a working temperature range from 14°F to 158°F (-10°C TO 70°C). Bullard Solar offers as optional a new Special LIFEPO4 battery with working range of -40°F to 158°F (-40 °C. to 70 °C).

### EASY MAINTENANCE & ANTI THEFT SCREWS

Easy and direct access to the battery casing for maintenance. The fixation are made with anti theft screws, which request special tooling to unscrew.

## 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

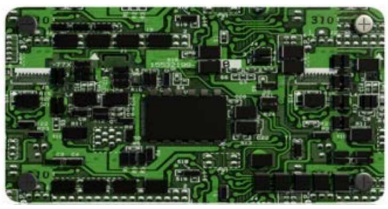
OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE • OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

## BATTERY **LIFEPO4**




### ALUMINUM WATERPROOF CASING & NATURAL AIRFLOW

High temperatures greatly negatively affect the battery's lifespan. This is why our batteries are encapsulated in an aluminum waterproof casing for a perfect heat dissipation. In addition to that, the casing enjoys a natural airflow which keeps the battery to ambient temperature.

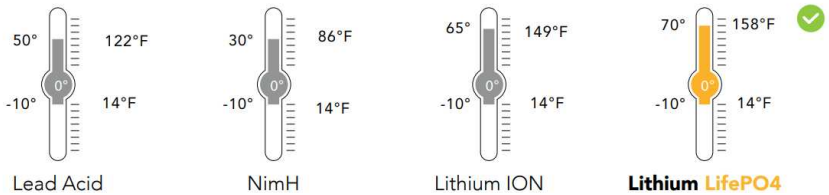


## COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

**LIFETIME & CYCLES AT 80% DOD***
*Comparison of different battery technologies*

| Lead Acid | NimH | Lithium ION | Lithium LifePO4 |
|---|---|---|---|
| **200** | **700** | **800** | **3 000** |

**CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS**
*Minimum & Maximum temperature range for Optimal charing during the day*




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# SOLAR PANEL

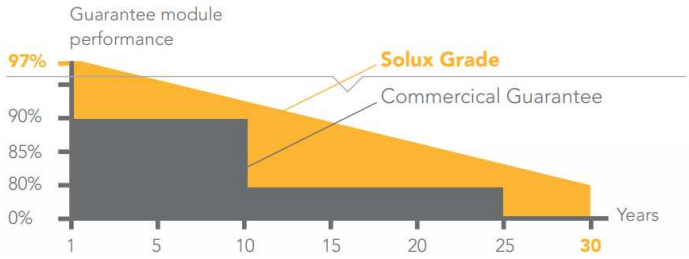
## 210 WATTS

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. Its octagonal Anodized aluminium alloy frame gives it a modern and elegant design as well as perfect resistance to corrosion. They are also equipped with fully waterproof Plug and Play connectors.

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 ≤ 10mA
- 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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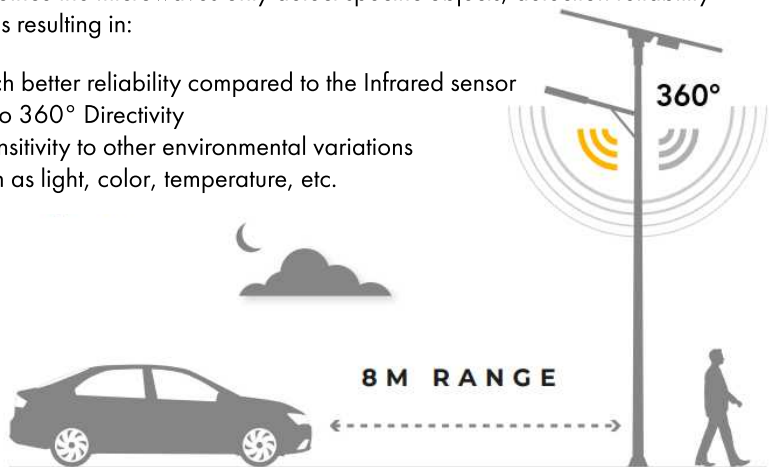
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PROJECT NAME: _____

# MOTION SENSOR MICROWAVE

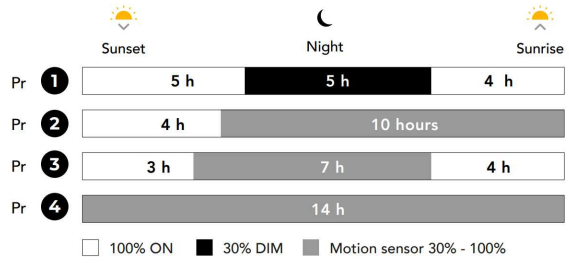
Bullard Solar luminaires are equipped with microwave sensors that use the Doppler effect (like car radars) to detect a near-by objects and measure the distance. The sensor emits a high frequency wave to reflect off of and analyze the objects in the vicinity. Since the microwaves only detect specific objects, detection reliability increases resulting in:

- Much better reliability compared to the Infrared sensor
- Up to 360° Directivity
- Insensitivity to other environmental variations such as light, color, temperature, etc.




## 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



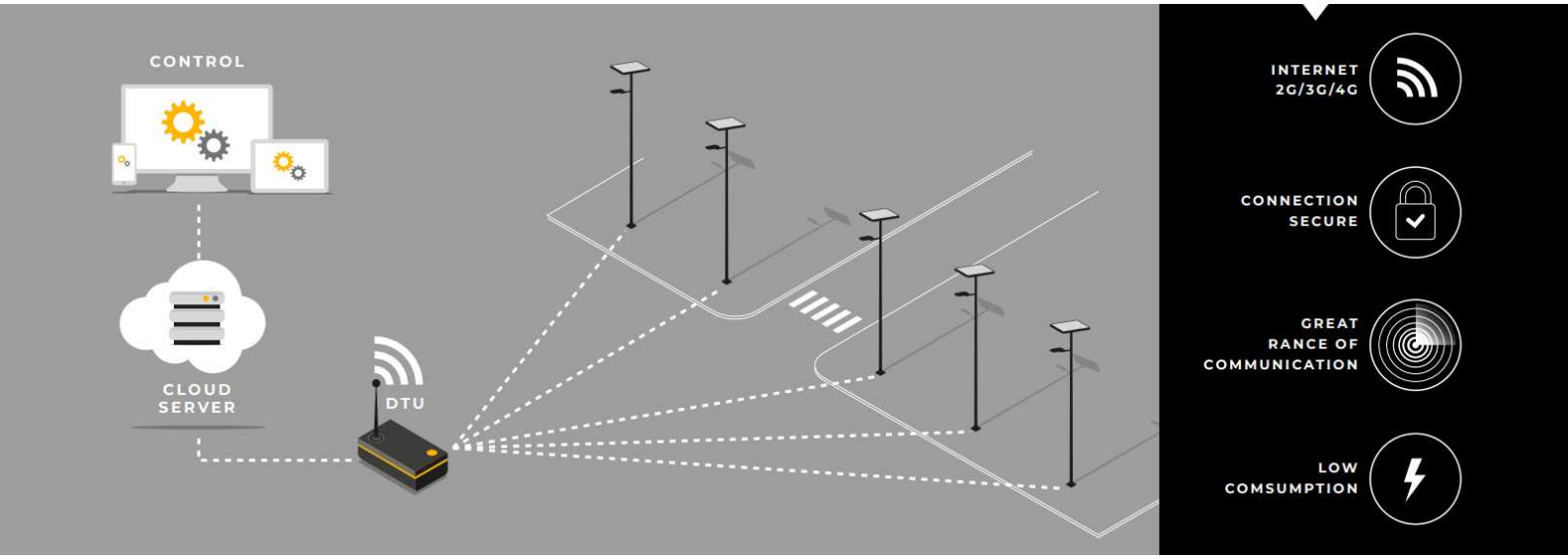

CONTACT US FOR MORE PROGRAM OPTIONS

# BULLARD SOLAR BRIDGE REMOTE MONITORING

As part of his continuous effort for development, the Bullard Solar team is proud to have developed a special tool for remote monitoring of our solar street light. Bullard Solar Bridge uses low frequency technology LORA or ZIGBEE to monitor in real time a batch of solar street lights. YOU CAN NOW MANAGE YOUR SOLAR PARK REMOTELY:

zigbee

LoRa




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# EASY INSTALLATION

## NO CABLING | NO TRENCHING

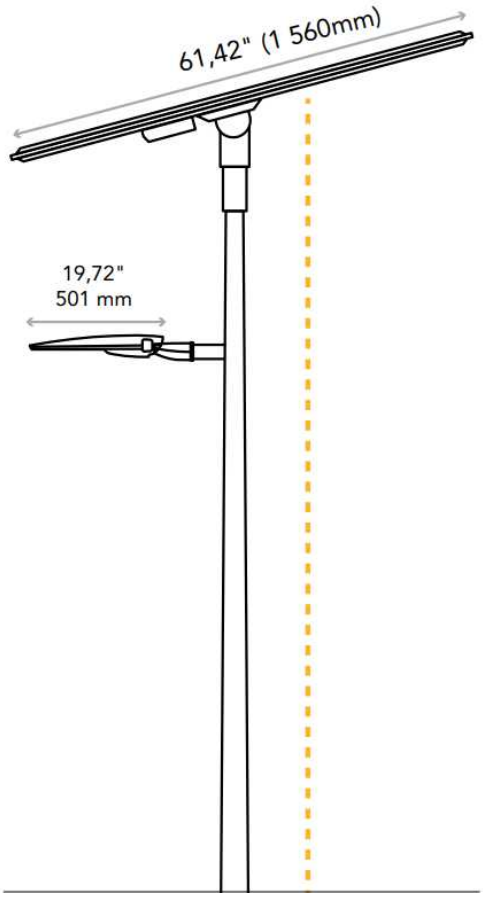
With a well designed bracket support SSLXPRO is effortless and flexible to install. Free 360° rotation of the panel to always face the Sun

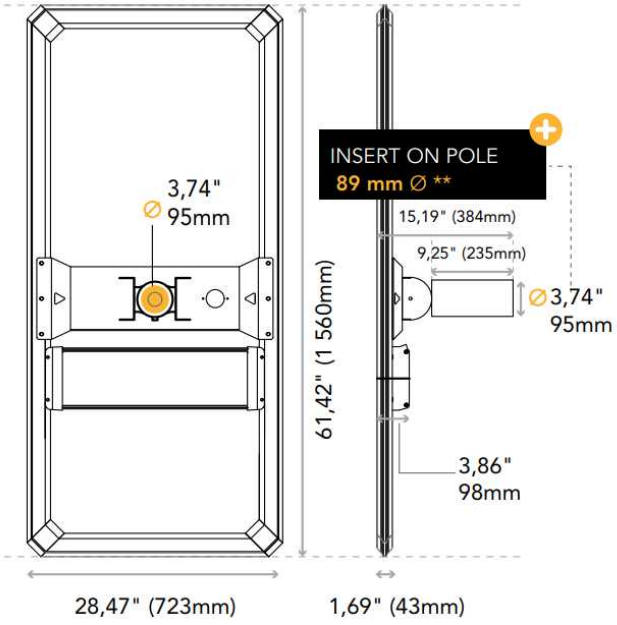
**INSERT, ORIENTATE & CHOOSE YOUR TILT**

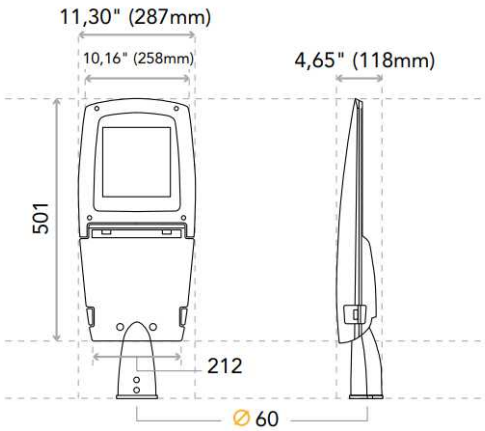



# DIMENSIONS*

## SOLAR PANEL & LED




*All dimensions are in mm

** Available in 76mm ∅


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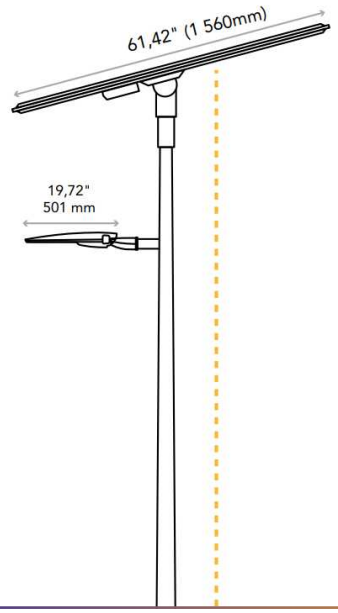
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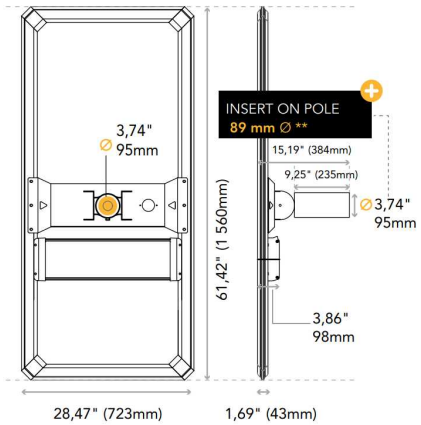
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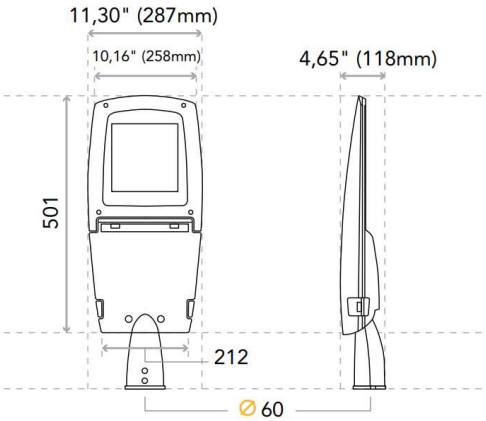
CODE:
**SP**

FIXTURE TYPE: _____

PROJECT NAME: _____




| HOW TO ORDER: | CODE: |
|---|---|
| **Example:** CODE: SP-80-BL-23K | SP-80-BL-23K |
| **1 DIMENSIONS:** | -80 |

-80

(61.42" x 28.54" x 5.91") 156 cm x 72.5 cm x 15 cm

| | |
|---|---|
| **2 FINISH OPTIONS:** | -BL |
| -BL | Black |
| **3 CCT:** | |
| -23K | 2300K |
| -30K | 3000K |
| -40K | 4000K |
| -50K | 5000K |
| -65K | 6500K |


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