

# AOS PERFORMANCE COLLECTION

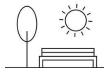
SOLAR STREET LIGHT SPLIT



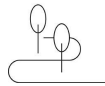
# AOS PERFORMANCE COLLECTION

Designed to last  
No matter the conditions

AOS Performance is an integrated solar street and area lighting system designed to provide reliable, energy-efficient illumination for roads, pathways, parking areas, parks, and public spaces. Its innovative design features independently adjustable solar panels and LED modules, allowing the luminaire to maximize solar energy capture while directing light precisely where it is needed. Equipped with high-efficiency PHILIPS LEDs, a long-life LiFePO<sub>4</sub> battery, and a 360° microwave motion sensor, it delivers excellent performance, extended autonomy, and reduced energy consumption. Built from durable aluminum and stainless steel components, the AOS Performance offers a cost-effective and low-maintenance lighting solution for demanding outdoor environments



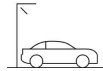
Park & Garden



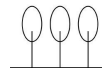
Hiking Trails



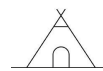
Places



Car Park & Rest



Pathways



Campsites



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

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



**LIGHTING**

Efficiency ..... 196 Lumens/Watts  
 Chips LED ..... PHILIPS Luxeon 30-30  
 LED lifetime ..... Over 100.000 Hrs - LM80  
 Optics/CCT ..... TII-S / 2300 to 6000K

**BATTERY**

Technology ..... Lithium Iron Phosphate LIFEPO4  
 Autonomy ..... Over 24 hours at full charge 4 Rainy Days back up  
 Charging time ..... 5-6 Hours  
 Lifespan ..... Over 5000 CYCLES - 50% DOD / Over 10y lifetime  
 Working temp ..... -10°C to 70 °C (optional -40°C TO 70°C)

**ENERGY**

Cells type ..... Monocrystalline Topcon Grade A  
 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)

**OTHER OPTIONS**

Pole mounting ..... 8.9cm - 7.6cm  
 Material ..... Aluminium

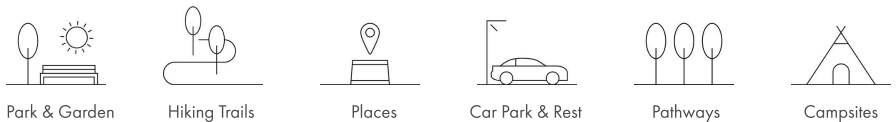
**CERTIFICATIONS**

**IEC / TUV / EMC / LM-79- 08 AND LM-80 TEST STANDARDS / IK10+ / 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 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




Due to the dynamic nature of lighting products and the associated technologies, luminaire data on all specification sheets is subject to change at the discretion of Gordon Bullard LLC and associated companies.

ONE WITH THE SUN

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 991 South Gull Lake Dr Richland, MI 49083 USA

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

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

**HOW TO ORDER:**

CODE:

Example:  
CODE: BS-AOS-PER-SLX-40-BL-30K

BS-AOS-PER-SLX-40-BL-30K

**1 MODELS:**

**-40**

**DIMENSIONS:**

Height - H: 37.2"(94.4 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 7840 Lumens  
NOMINAL POWER ..... 40 Watts

Light Height ..... From 4 to 5 meters  
Carton size ..... 101.0cm x 50.0cm x 27.0cm  
Weight ..... 11.93 KG/15.62 KG  
Capacity ..... 307Wh  
Solar panel ..... 72 Watts / 18V

**-50**

**DIMENSIONS:**

Height - H: 37.2"(94.4 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 9800 Lumens  
NOMINAL POWER ..... 50 Watts

Light Height ..... From 4 to 5 meters  
Carton size ..... 101.0cm x 50.0cm x 27.0cm  
Weight ..... 15.2 KG/16.2 KG  
Capacity ..... 384Wh  
Solar panel ..... 72 Watts / 18V

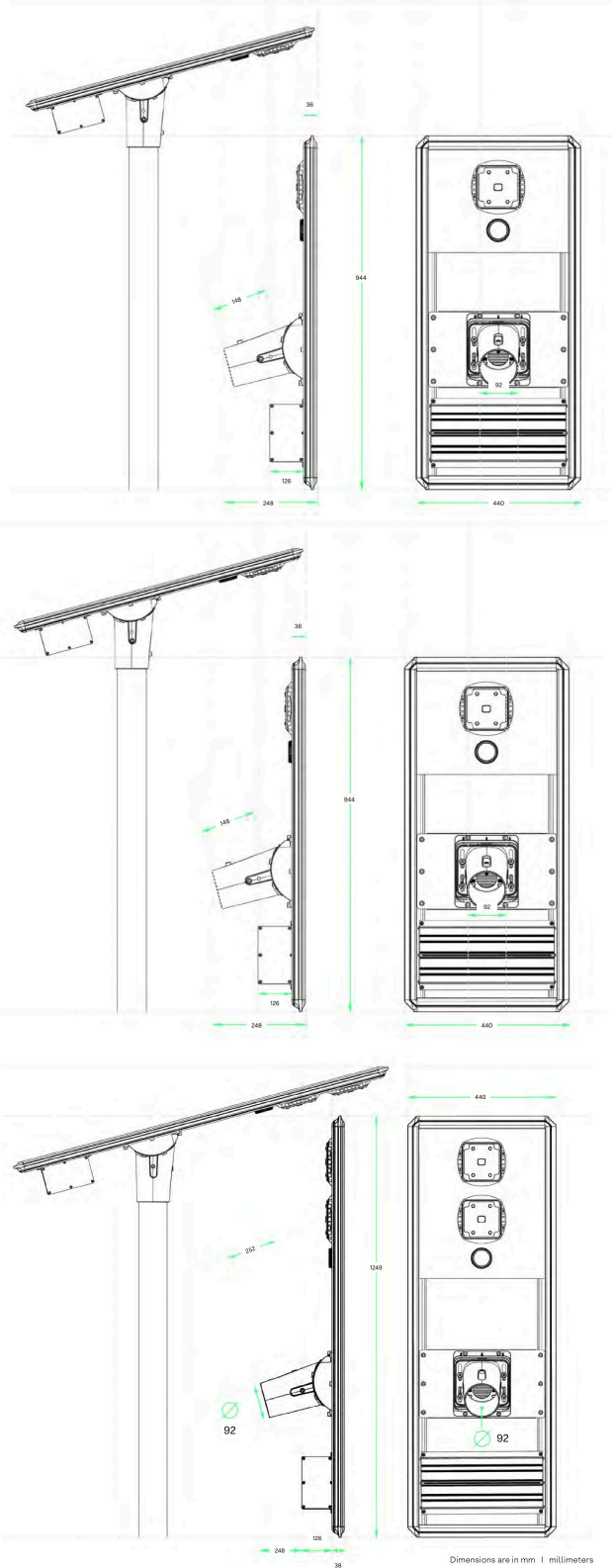
**-60**

**DIMENSIONS:**

Height - H: 49.2" (124.9 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 11760 Lumens  
NOMINAL POWER ..... 60 Watts

Light Height ..... From 5 to 7 meters  
Carton size ..... 133.0cm x 50.0cm x 28.0cm  
Weight ..... 14.27 KG/18.46 KG  
Capacity ..... 538Wh  
Solar panel ..... 105 Watts / 18V





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

HOW TO ORDER: \_\_\_\_\_ CODE: \_\_\_\_\_

Example:  
CODE: BS-AOS-PER-SLX-40-BL-30K

BS-AOS-PER-SLX-40-BL-30K

1 MODELS:

-80

**DIMENSIONS:**

Height - H: 49.2" (124.9 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 15680 Lumens  
NOMINAL POWER ..... 80 Watts

Light Height ..... From 5 to 7 meters  
Carton size ..... 133.0cm x 50.0cm x 28.0cm  
Weight ..... 14.87 KG/19 KG  
Capacity ..... 691Wh  
Solar panel ..... 105 Watts / 18V

-100

**DIMENSIONS:**

Height - H: 62.4" (158.4 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 19600 Lumens  
NOMINAL POWER ..... 100 Watts

Light Height ..... From 6 to 8 meters  
Carton size ..... 167.0cm x 51.0cm x 27.5cm  
Weight ..... 19.3 KG/22.8 KG  
Capacity ..... 768Wh  
Solar panel ..... 140 Watts / 18V

-120

**DIMENSIONS:**

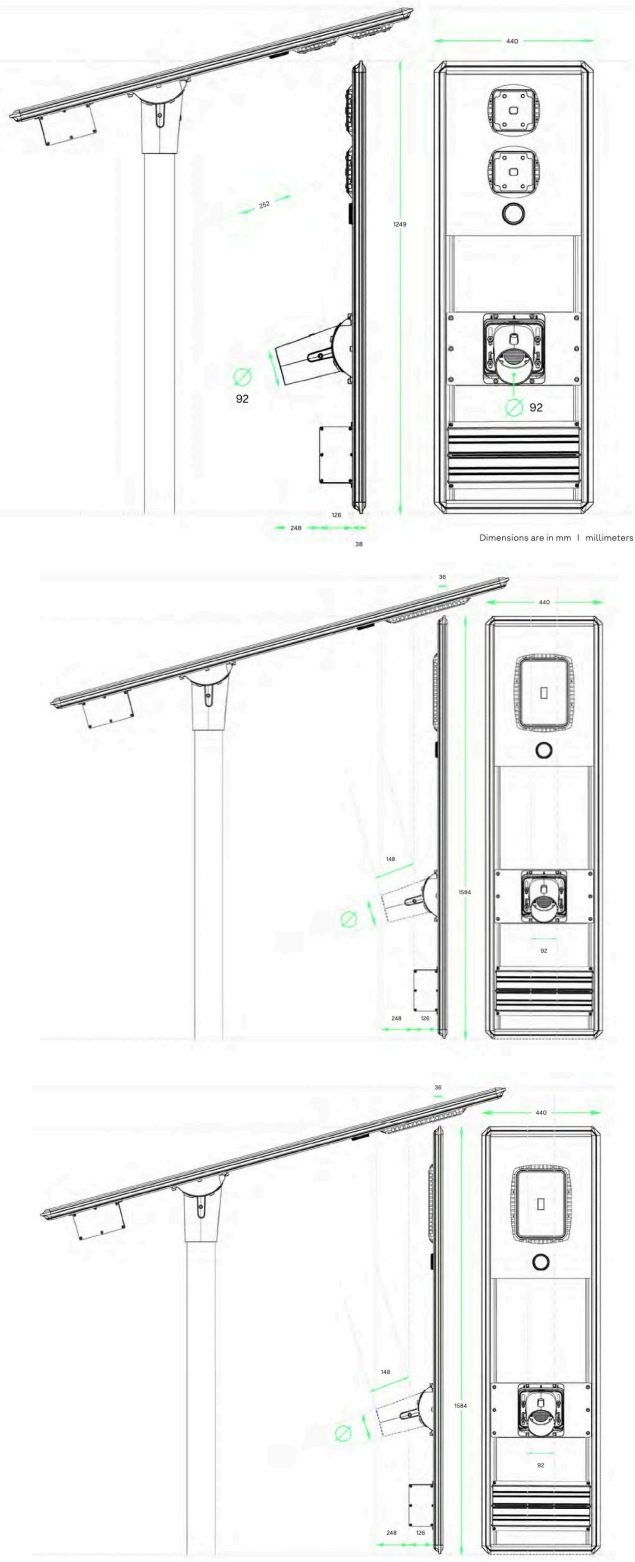
Height - H: 62.4" (158.4 cm)  
Width - W: 17.3"(44 cm)  
Base - L: 9.8"(24.8 cm)

NOMINAL FLUX ..... 23520 Lumens  
NOMINAL POWER ..... 120 Watts

Light Height ..... From 6 to 8 meters  
Carton size ..... 167.0cm x 51.0cm x 27.5cm  
Weight ..... 19.3 KG/22.8 KG  
Capacity ..... 922Wh  
Solar panel ..... 140 Watts / 18V

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CODE:  
**BS-AOS-PER-SLX**

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

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



HOW TO ORDER: \_\_\_\_\_ CODE: \_\_\_\_\_

Example:  
CODE: BS-AOS-PER-SLX-40-BL-30K

BS-AOS-PER-SLX-40-BL-30K

2 FINISH OPTIONS:

- BL Black
- CUS Custom on request

3 CCT:

- 23K 2300K
- 30K 3000K
- 40K 4000K
- 50K 5000K
- 65K 6500K



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

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

# LUMINAIRE HOUSING & LEDS

Made with High pressure die-cast low-copper aluminum reaching IP66 protection class .  
Our Led module is equipped with PHILIPS LUXEON HE PLUS High efficiency Chips deliver- ing an impressive 196 Lumens per Watt efficacy.



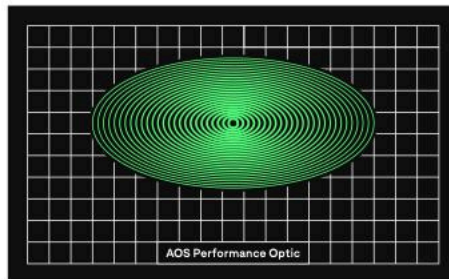
Furthermore, the luminaire adheres to DARK SKY requirements for light pollution, ensuring minimal upward lighting at just 0.31%.

LED	3030	LED QTY (PCS)	40	LENS (PCS)	1	CRI	> 80
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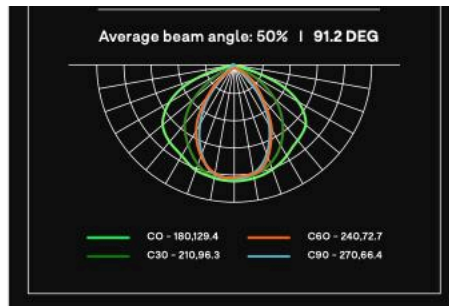
## DIFFERENT OPTICS \*

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



\* Please contact us for more optics.

## LIGHT DISTRIBUTION CURVES



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**+ OVER 10 YEARS LIFESPAN**

The AOS PERFORMANCE line utilizes the Iron Phosphate Lithium LiFePo4 battery, the proven best technology on the market for solar outdoor applications. This leading solar technology offers over 5000 cycles at 50% DOD, ensuring a robust lifespan exceeding 10 years. It combines reliability with efficiency, perfectly aligning with our budget-friendly yet high-quality PERFORMANCE range. Durability and savings, all in one package!

**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 LIFEP04 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.

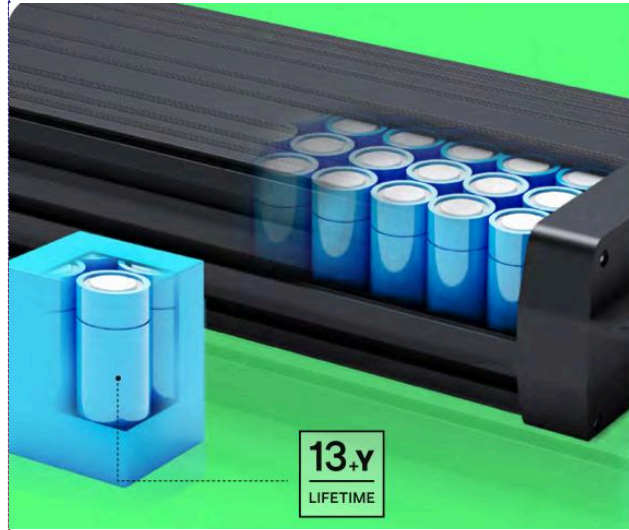
**BMS ELECTRONIC PROTECTION  
BATTERY MANAGEMENT SYSTEM**

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

**THE BMS PROTECTS AGAINST**

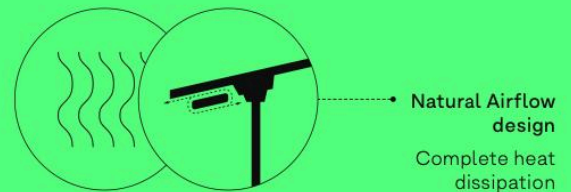
- OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE
- OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

**BATTERY LIFEP04**

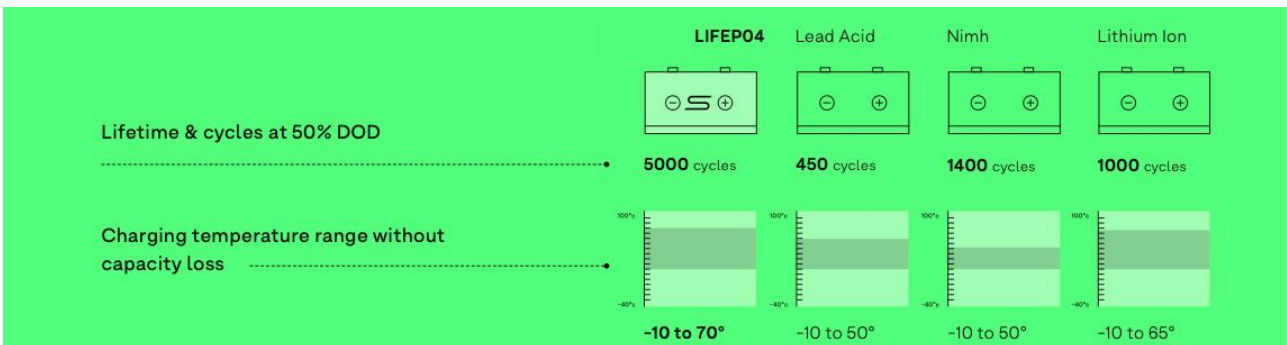


**ALUMINUM WATERPROOF CASING & NATURAL AIRFLOW**

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. Natural airflow also keeps the battery at ambient temperature, ensuring optimal performance



**COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES**




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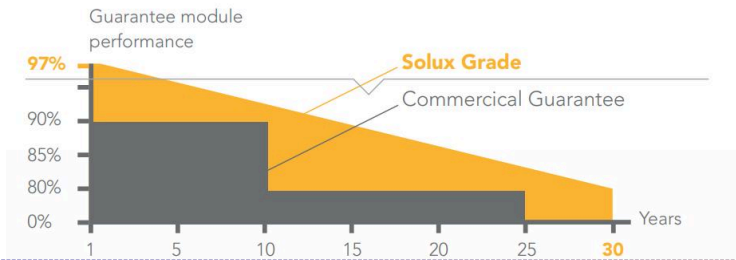
FIXTURE TYPE: \_\_\_\_\_

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

# TOPCON MONOCRYSTALLINE SOLAR PANEL

Our panels feature top-notch monocrystalline solar cells with TOPCON Grade A quality, boasting up to 25.5% efficiency and 97% conversion efficiency in low light. These panels are not only modern and stylish but also tough against corrosion. Plus, the fully waterproof Plug and Play connectors ensure a seamless and reliable installation.

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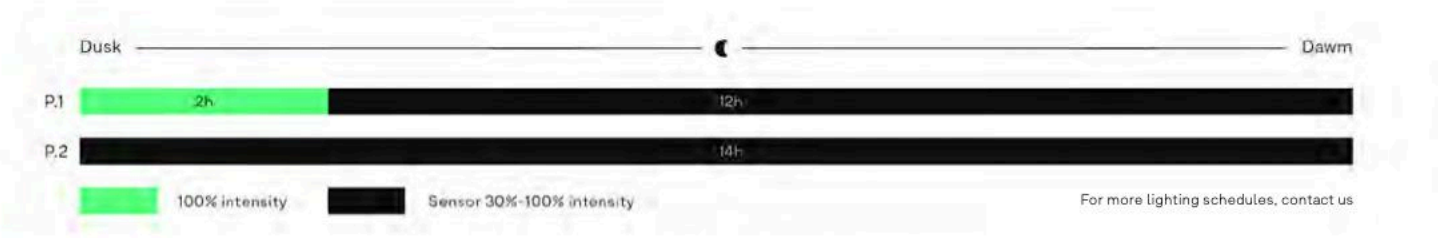
FIXTURE TYPE: \_\_\_\_\_

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

# MICROWAVE SENSOR

## Operation mode and lighting schedule

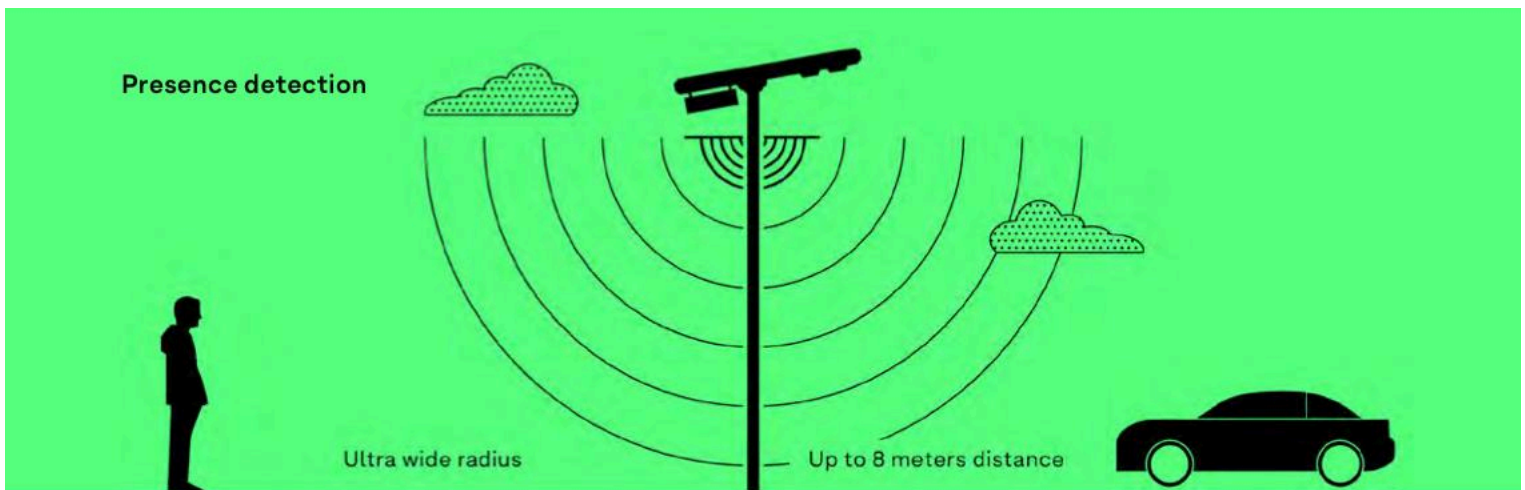
In addition to automatic switching on and off, you can choose from different modular operating modes to suit the specific needs of your project. So, whether your project demands part-night brightness, early evening lighting, or anything in between, our flexible lighting programs have you covered!



CONTACT US FOR MORE PROGRAM OPTIONS

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.



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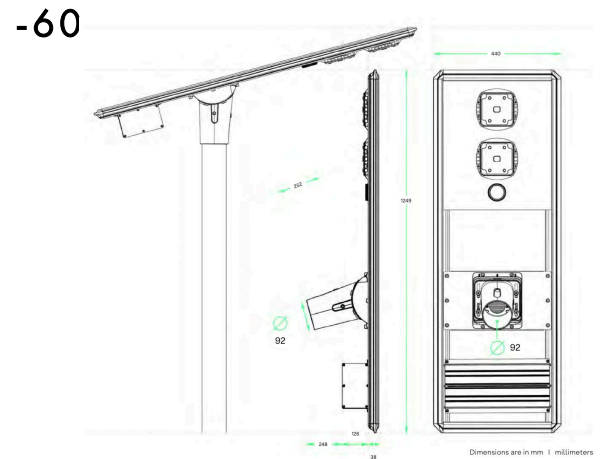
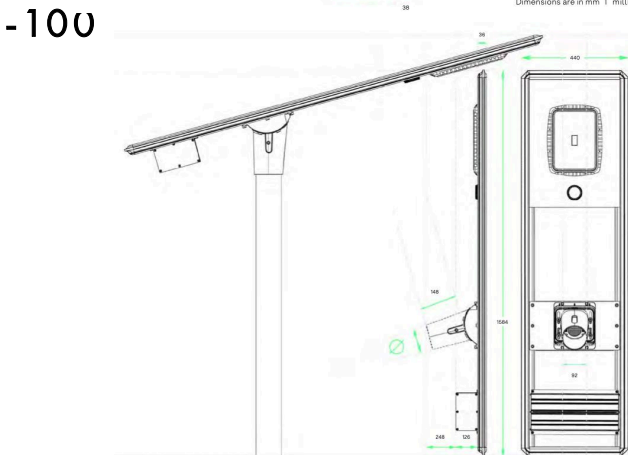
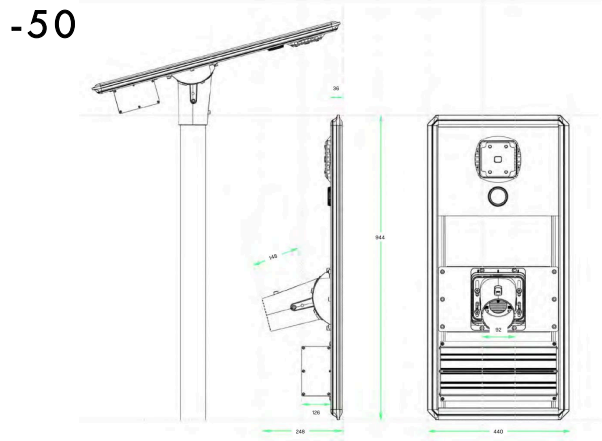
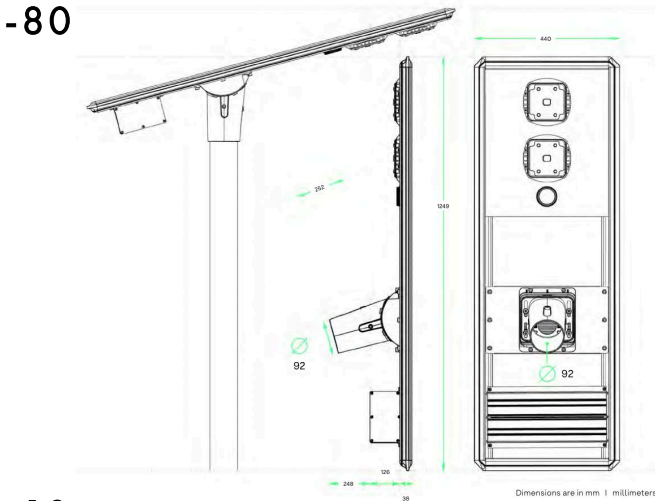
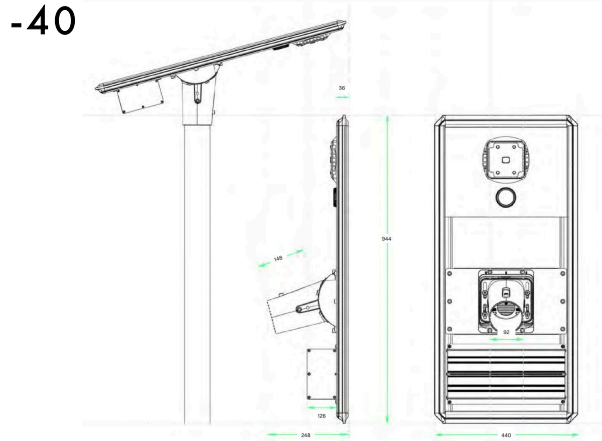
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With a well-designed bracket support, the AOS PERFORMANCE is effortless and flexible to install. One tool system installation Insert, orientate & choose your tilt

# Technical drawing

Easy installation | No cabling - No tranching

## Product Dimensions



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