

AOS PERFORMANCE COLLECTION

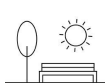
SOLAR STREET LIGHT SPLIT



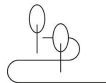
AOS PERFORMANCE COLLECTION

**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 LiFePO₄ 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



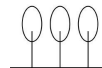
Hiking Trails



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 / ETL

**5
YEARS**

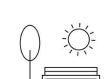
* Bullard Solar offers a 5 Year Limited Warranty Luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Bullard Solar instructions.

Fixture suitable for ambient temperature from -10° to 50°.

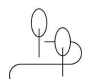
PV Panels - 20 year performance warranty

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



Park & Garden



Hiking Trails



Places



Car Park & Rest



Pathways



Campsites



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

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

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

ONE WITH THE SUN

sales@gordonbullard.com / www.bullardbollards.com / 1-877-964-4646
991 South Gull Lake Dr Richland, MI 49083 USA



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.

FIXTURE TYPE: _____

PROJECT NAME: _____

CODE:
BS-AOS-PER-SLX

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

ONE WITH THE SUN

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

991 South Gull Lake Dr Richland, MI 49083 USA



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.

FIXTURE TYPE: _____

PROJECT NAME: _____



CODE:
BS-AOS-PER-SLX

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



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

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

991 South Gull Lake Dr Richland, MI 49083 USA

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.



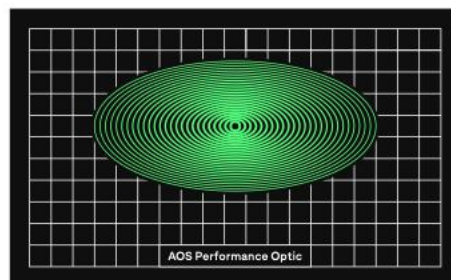
Furthermore, the luminaire adheres to DARK SKY requirements for light pollution, ensuring minimal upward lighting at just 0.31%.

LED	3030	LED QTY (PCS)	40	LENS (PCS)	1	CRI	> 80
-----	------	---------------	----	------------	---	-----	------



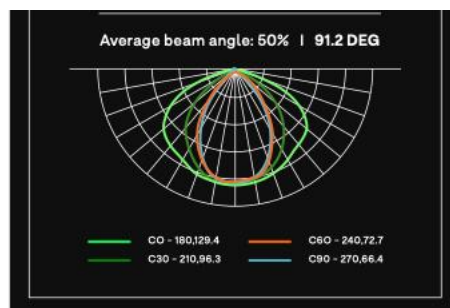
DIFFERENT OPTICS *

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



* Please contact us for more optics.

LIGHT DISTRIBUTION CURVES



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

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

991 South Gull Lake Dr Richland, MI 49083 USA

+ 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 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.

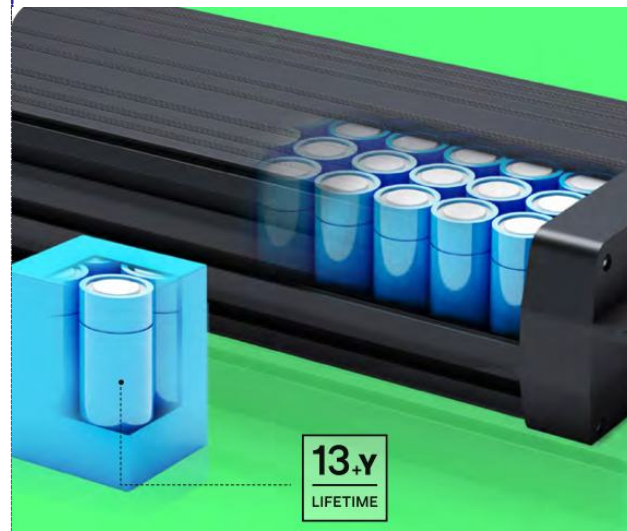
BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

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

THE BMS PROTECTS AGAINST

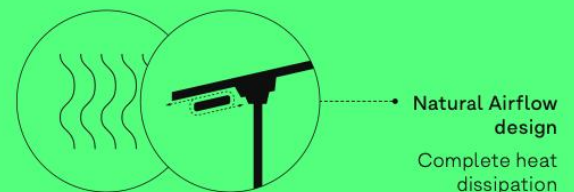
OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE
• OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

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



COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES



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

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

991 South Gull Lake Dr Richland, MI 49083 USA

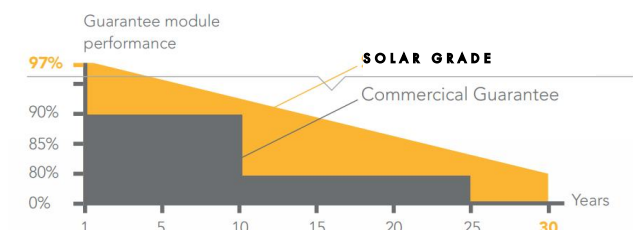
FIXTURE TYPE: _____

PROJECT NAME: _____

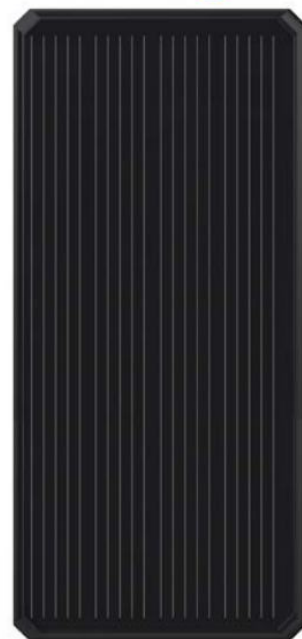
TOPCON MONOCRYSTALLINE SOLAR PANEL

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



solar cells
GRADE A



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



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

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

991 South Gull Lake Dr Richland, MI 49083 USA

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

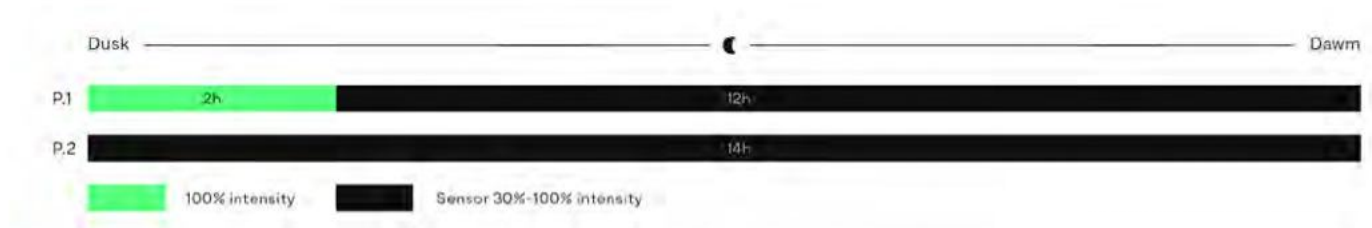
FIXTURE TYPE: _____

PROJECT NAME: _____

MICROWAVE SENSOR

Operation mode and lighting schedule

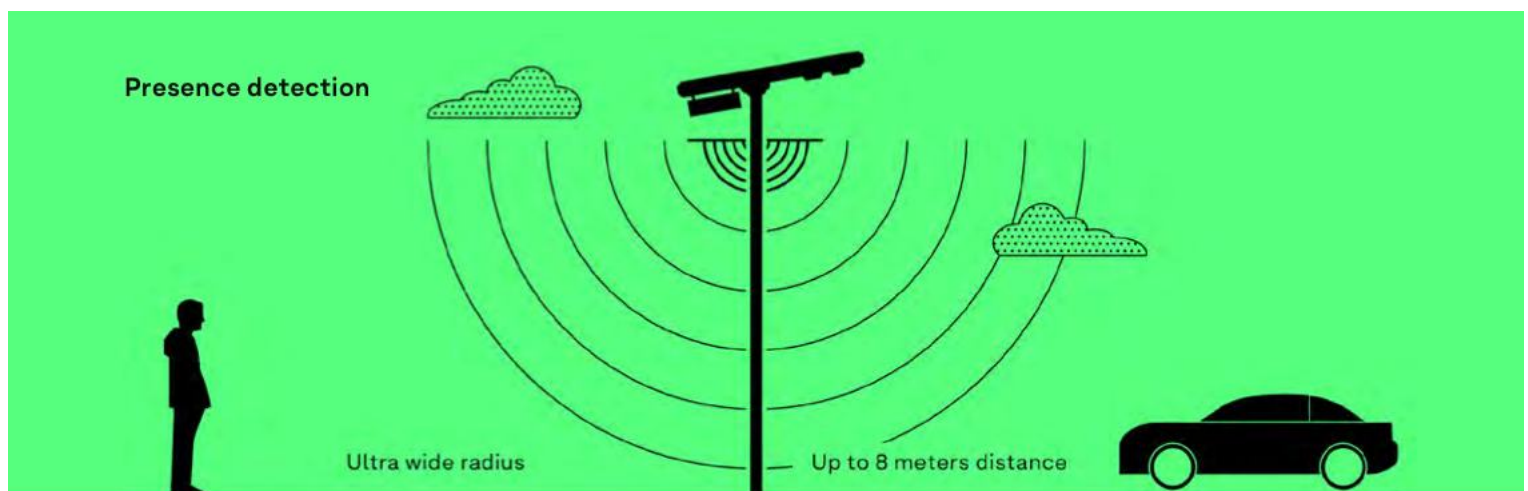
In addition to automatic switching on and off, you can choose from different modular operating modes to suit the specific needs of your project. So, whether your project demands part-night brightness, early evening lighting, or anything in between, our flexible lighting programs have you covered!



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.



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

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

991 South Gull Lake Dr Richland, MI 49083 USA

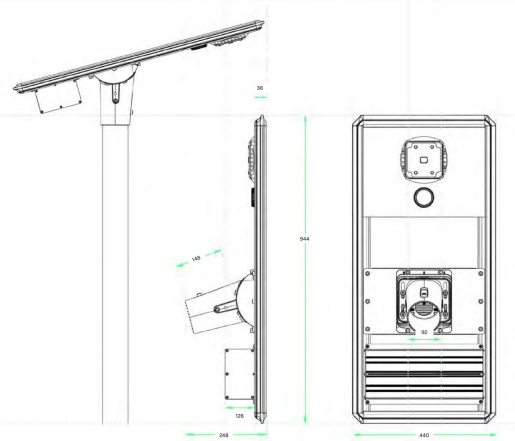
With a well-designed bracket support, the AOS
PERFORMANCE is effortless and flexible to install.
One tool system installation Insert, orientate & choose
your tilt

Technical drawing

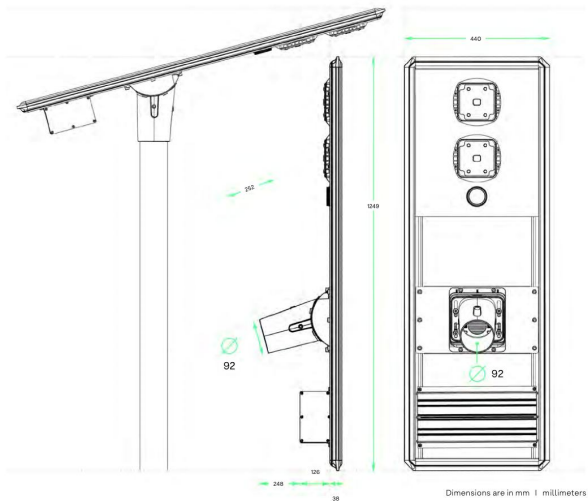
Easy installation | No cabling - No tranching

Product Dimensions

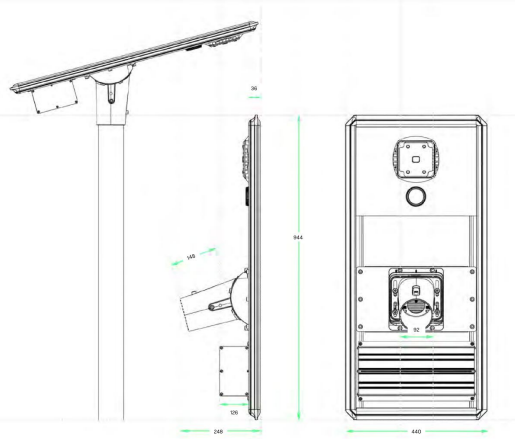
-40



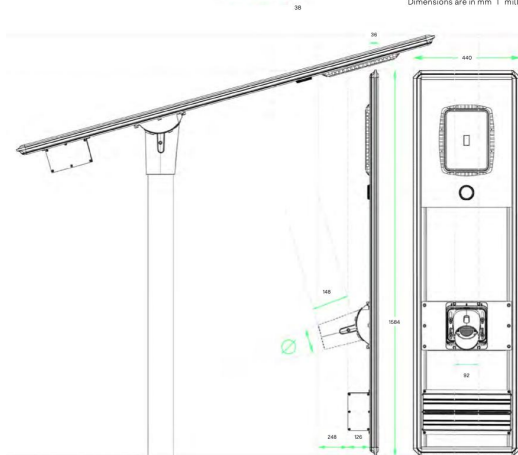
-80



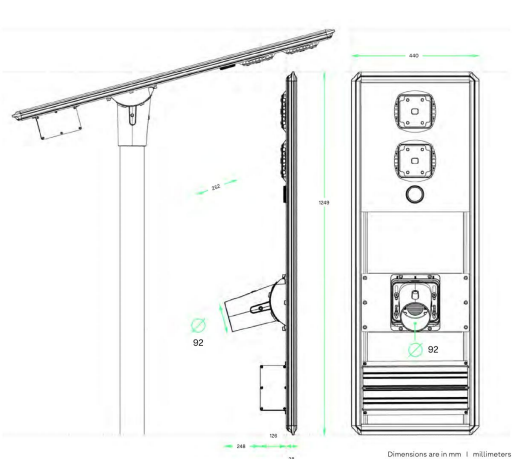
-50



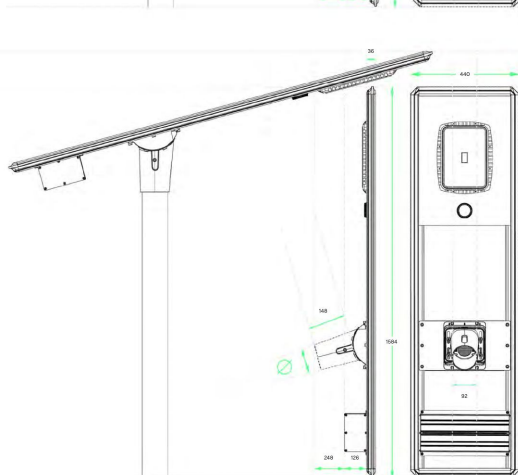
-100



-60



-120



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

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

991 South Gull Lake Dr Richland, MI 49083 USA