

**BULLARD
SOLAR**
One with the Sun

**KONI
SOLAR BOLLARD**





**BULLARD
SOLAR**
One with the Sun

**CODE:
SL-018**

FIXTURE TYPE: _____

PROJECT NAME: _____



Parks &
gardens



Pathways



Campsites

CERTIFICATIONS

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

GENERAL INFORMATION:

Designed in aluminum and treated to withstand the harshest conditions, the BULLARD SOLAR will be perfect for all your lighting, marking, and beautification applications for your outdoor living spaces with total energy autonomy. Equipped with high-efficiency solar cells, the light fixture charges in the sun but also in cloudy weather, ensuring optimal lighting throughout the year.

NOMINAL FLUX	250 LUMENS
NOMINAL POWER	1.8 WATTS

LIGHTING

Efficiency	120 Lumens/Watts
Chips LED	PHILIPS Luxeon 30-30
LED lifetime	Over 80 000 hours LM80
Optics/CCT	T-V / 2300K to 6500K (Dual CCT optional)
Light Height	31.50" (80 cm)

BATTERY

Technology	Lithium Iron Phosphate LIFEPO4
Capacity	28Wh
Autonomy	Over 24 hours at full charge - 4 Rainy Days back up
Charging time	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	4.5 Wc
Cells type	Monocrystalline Panel Grade A
Certificates	IEC 61215 - IEC 61730 I and II - IEC 60904

ELECTRONIC

Sensor.....	PIR 180° sensor (optional)
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DIMENSIONS

Product	D: 8.27" x H: 31.50" (D: 21 cm x H: 80 cm)
Carton size	33.07" x 10.24" x 10.24" (84 cm x 26 cm x 26 cm)
Weight	13,45 lb (6.1 KG)
Materials	Die cast aluminum
Installation	Concrete base or insert on support
Product code	<u>SL-018</u>

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
www.bullardsolar.com
1-877-964-4646



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Richland, MI 49083
USA

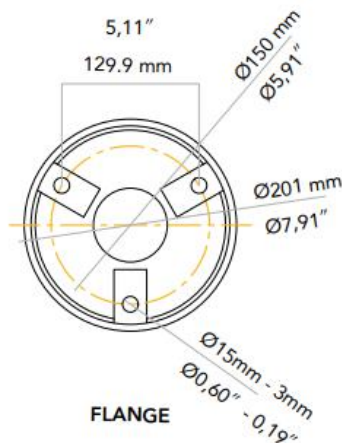
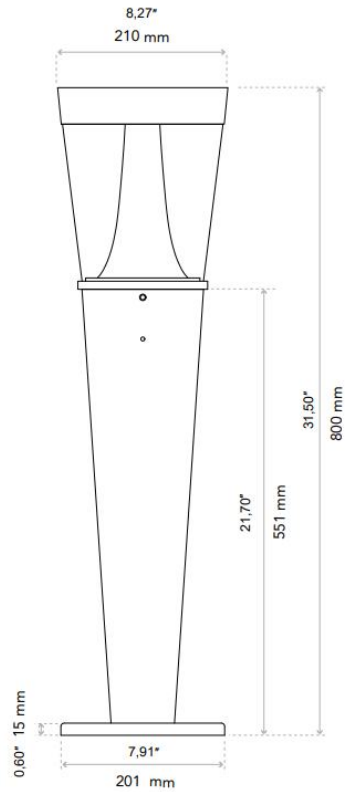
Due to the dynamic nature of lighting products and the associated technologies, luminaire data on all specification sheets is subject to change at the discretion of Gordon Bullard LLC and associated companies.

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Updated 07/09/2024

FIXTURE TYPE: _____

PROJECT NAME: _____



HOW TO ORDER:

CODE:

Example:
CODE: SL-018-80-BL-23K

SL-018-80-BL-23K

1

DIMENSIONS:

-80

-80

Ø: 8.27" (21 cm)

H: 31.50" (80 cm)

2

FINISH OPTIONS:

-BL

-BL

Black

3

CCT:

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

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LUMINAIRE & LEDS

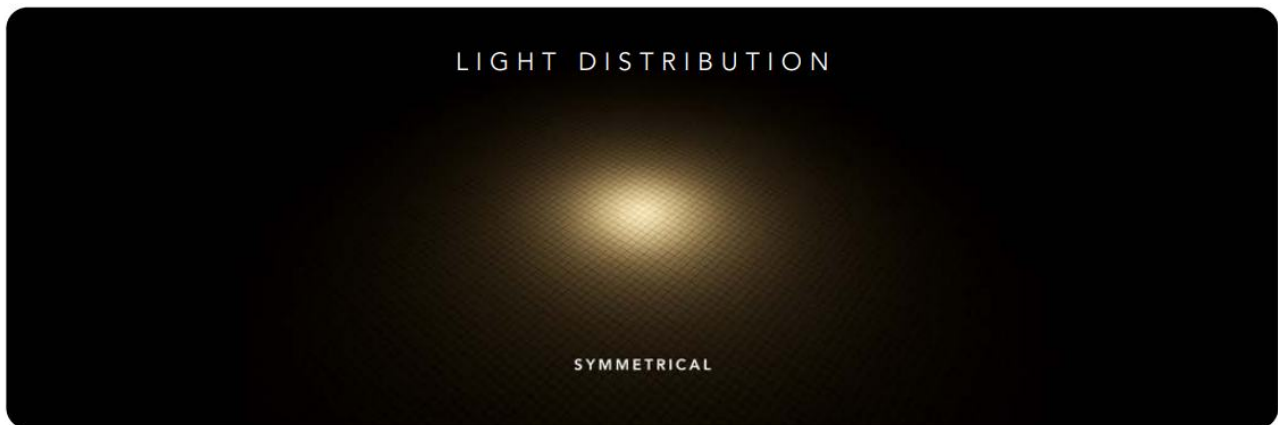
The KONI bollard incorporates the latest LED technologies, its elegance and ease of installation will meet your lighting needs. KONI is equipped with LED chips, combining performance and robustness with 120 lumens per watt.

A TOTAL OF 250 LUMENS

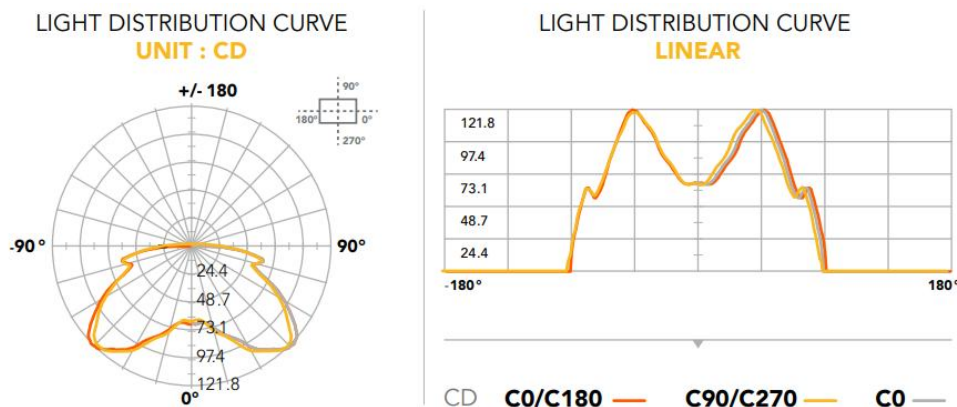
Our light fixture also complies with current standards concerning light pollution.



SYMMETRICAL DISTRIBUTION



PHOTOMETRIC CURVE



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OVER 10 YEARS LIFESPAN

The KONI bollard is equipped with Lithium Iron Phosphate LIFEPO4 batteries, recognized as the best battery technology in terms of longevity, safety, and performance for solar applications. Our batteries enjoy a lifespan of over 3000 cycles, which is more than 10 years at 80% DOD.

EXTREME TEMPERATURE

14°F to 158°F
-10 °C to 70°C

While standard batteries benefit from an operating temperature of -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.

BATTERY LIFEPO4

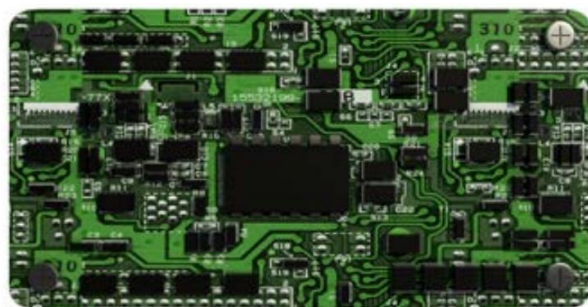


BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with electronic circuit boards for a higher protection, ensuring battery functioning optimization in any 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



Lead Acid
200



NimH
700



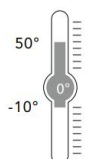
Lithium ION
800



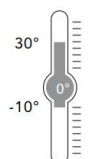
Lithium LifePO4
3 000

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

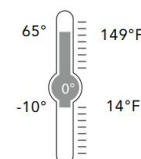
Minimum & Maximum temperature range for
Optimal charging during the day



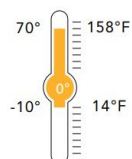
Lead Acid



NimH



Lithium ION



Lithium LifePO4

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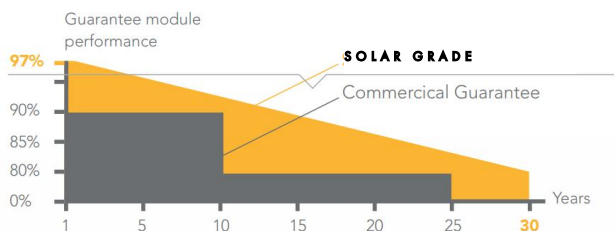
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SOLAR PANEL

4.5 WATTS

Encapsulated Monocrystalline Solar Panel Grade A
Solar Cell with Tempered Glass.

OUR PV PERFORMANCE GUARANTEE



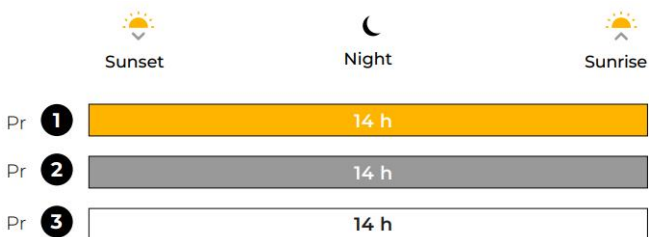
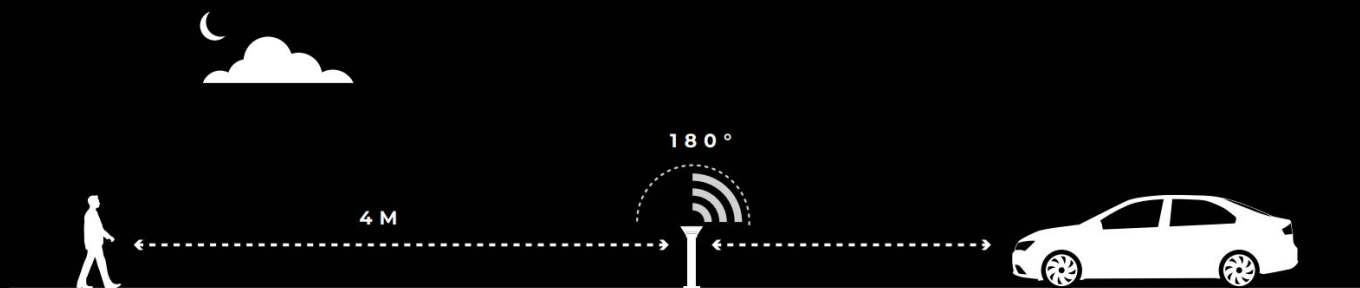
Solar cells **GRADE A**



PRESENCE DETECTOR INFRA-RED SENSOR

THE KONI BOLLARD AUTOMATICALLY TURNS ON AT DUSK AND OFF AT DAWN.

BULLARD SOLAR offers optional PIR movement sensor. The infra red detector integrated into the light fixture will increase the light power as pedestrians or vehicles pass, thus providing a higher level of safety while respecting the environment.



Depending on the geographical area, we will select the % of light reduction.

- ☒ **Program 1** > 40% Dim + 100% ON during 20 sec
- ☒ **Program 2** > 30% Dim + 100% ON during 20 sec
- ☐ **Program 3** > 20% Dim + 100% ON during 20 sec

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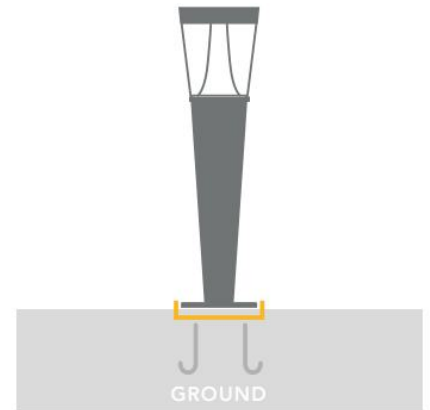
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EASY INSTALLATION

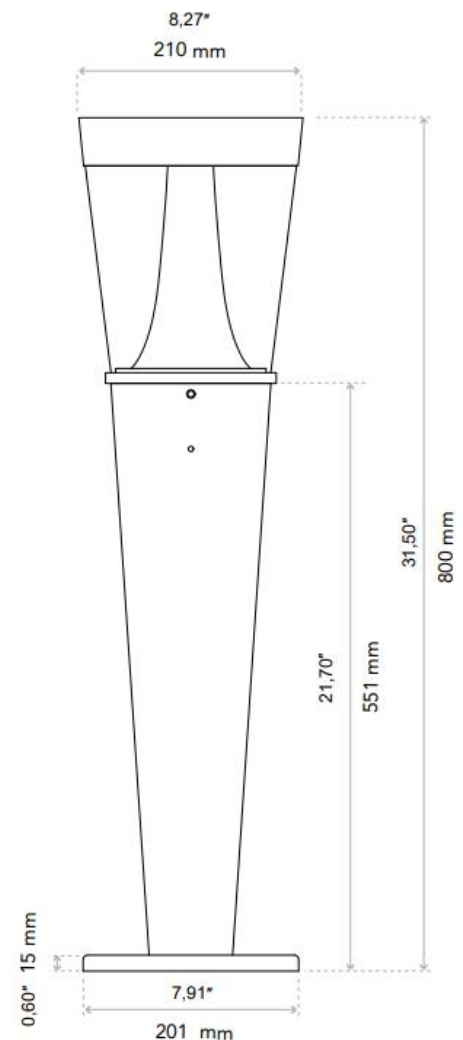
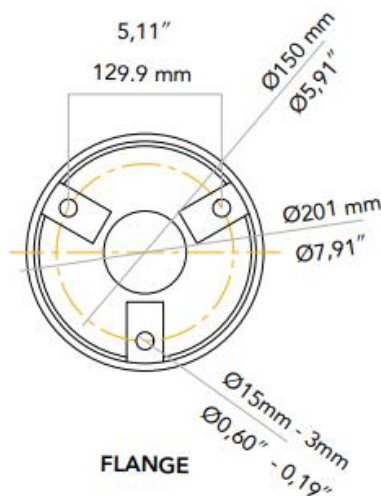
NO CABLING & TRENCHING

No wiring or trenching is necessary, you just need to embed the KONI on anchor rods.



FLAT MOUNT

DIMENSIONS



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