

KANSA

SOLAR BOLLARD



Designed in aluminum and treated to withstand the harshest conditions, the solar bollards 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 480 LUMENS NOMINAL POWER 4 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
BATTERY
Technology
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)
Solar panel
Cells type Monocrystaline Panel Grade A 25 years
Certificates IEC 61215 - IEC 61730 I and II - IEC 60904
Certificates
ELECTRONIC
Sensor
DIMENSIONS
Product D 15,75" x H 39,37" (D 40cm x H 100 cm)

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

 Carton size
 41,73" x 17,72" x 18,11" (106 cm x 45 cm x 46 cm)

 Weight
 20,50 lb (9.3 KG)

 Materials
 Die cast aluminum

 Installation
 Concrete base or insert on support

 Product code
 \$1-005







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 Solar Bollard-Series luminaire to 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 the ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

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LUMINAIRE & LEDS

The **KANSA** bollard incorporates the latest LED technologies, its elegance and ease of installation will meet your lighting needs.

KANSA is equipped with LED chips, combining performance and robustness with 120 lumens per watt.

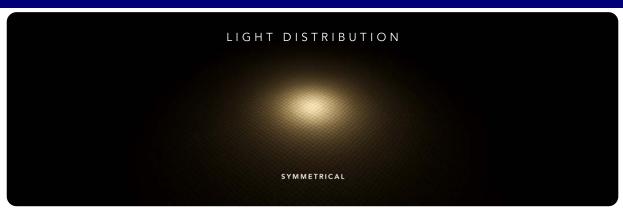
A TOTAL OF 480 LUMENS

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

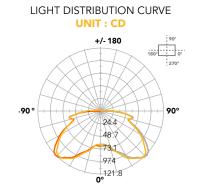


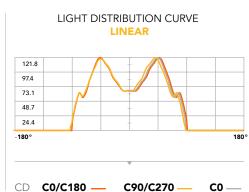


SYMMETRICAL DISTRIBUTION



PHOTOMETRIC CUR'VE





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

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



BATTERY LIFEPO4

OVER 10 YEARS LIFESPAN

The KANSA 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° - 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.

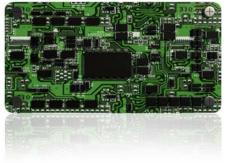


BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

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 Lithium ION Lithium LifePO4 NimH 800 700 70° 158°F 149°F 86°F 122°F 50° 30° CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS 14°F 14°F -10 14°F -10° Minimum & Maximum temperature range for Optimal charing during the day Lithium LifePO4 Lead Acid Lithium ION NimH

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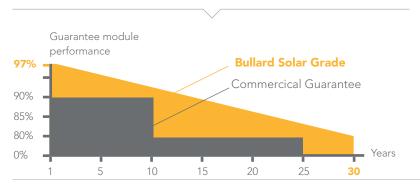


SOLAR PANEL

10 WATTS

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

OUR PV PERFORMANCE GUARANTEE

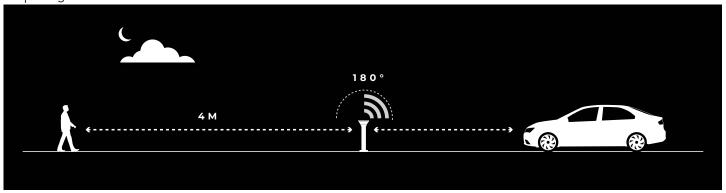


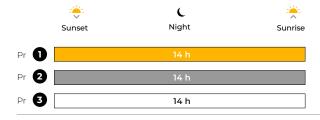


PRESENCE DETECTOR INFRA-RED SENSOR

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

Bullard Solar offers optional PIR movement sensor. The infra red detector inte-grated into the light ixture 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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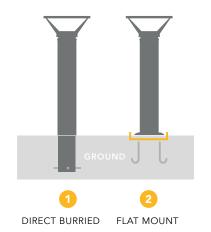
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EASY INSTALLATION

NO CABLING • NO TRENCHING

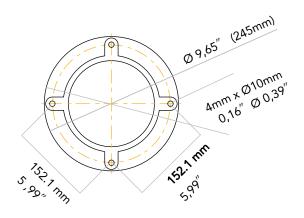
No wiring or trenching is necessary, you just need to embed the KANSA in concrete or on anchor rods.



15,47"

DIMENSIONS

BOLLARD AND BASE



393 mm 0,79" 9,65" 245 mm

*All dimensions are in mm

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