

ROR 80 SOLAR BOLLARD

Designed in aluminum and treated to withstand the harshest conditions, the Solux 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.**



ncy	
,	
IED	120 Lumens/Watts
LLD	PHILIPS Luxeon 30-30
fetime	Over 80 000 hours LM80
s/CCT T-V /	2300K to 6500K (Dual CCT optional)
Height	31,50" (80 cm)
ERY	
ology	Lithium Iron Phosphate LIFEPO4
ity	28Wh
omy Over 24 hours	at full charge - 4 Rainy Days back up
ing time	6 hours
an Over 3000 CYCLES	6 @ 80% DOD over 10 years Lifetime
ng temp 14°F to 158°F (optional -40°F to 1	58°F) -10°C to 70 °C - <i>(optional -40°C TO 70 °C ,</i>
GY	
panel	4.5 Wc
ype Mo	nocrystaline Panel Grade A 25 years
catesIEC 61	1215 - IEC 61730 I and II - IEC 60904
FRONIC	
r	PIR 180° sensor (optional)
NSIONS	
ct	D 9,84" x H 31,50" (D 25cm x H 80cm)
n size	33,46" x 12,60" x 13,00" (85cm x 32cm x 33cm
nt	12,35lb (5.6 KG
ials	Die cast aluminum
ation	. Concrete base or insert on support
ct code	SL-002 80
ains the right to modify or change product specifications without prior no	otice, as part of our ongoing commitment to improvement







CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR



* Solux offers a 5 Year Limited Warranty for the Solar Bollar-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 Solux instructions. Fixture suitable for ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

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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.





LUMINAIRE & LEDS

The **ROR 80** bollard incorporates the latest LED technologies, its elegance and ease of installation will meet your lighting needs. ROR 80 is equipped with **LED chips, combining performance and robustness with 120 lumens per watt.**

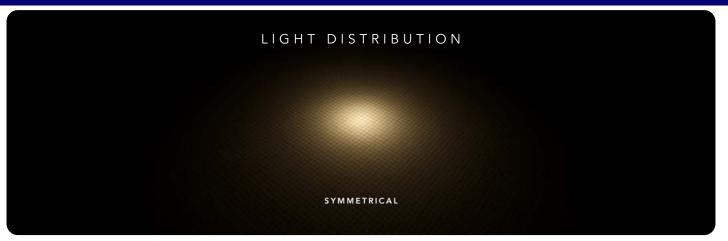
A TOTAL OF 250 LUMENS

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

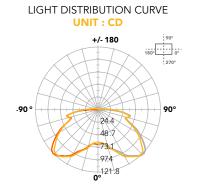


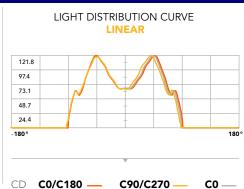


SYMMETRICAL DISTRIBUTION



PHOTOMETRIC CURVE





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BATTERY LIFEPO4

OVER 10 YEARS LIFESPAN

The ROR 80 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 14°F 158°F (-10°C to 70°C), Solux 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 200 800 700 ≣ 158°F 70° 122°F 86°F CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS _ -4°F 14°F 14°F -10° 14°F Minimum & Maximum temperature range for Optimal charing during the day Lead Acid Lithium ION Lithium LifePO4

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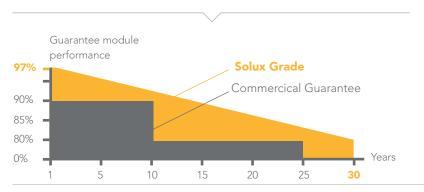
SOLAR PANEL

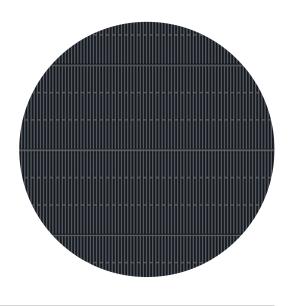
Solar cells **GRADE** (A)

4.5 WATTS

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

OUR PV PERFORMANCE GUARANTEE

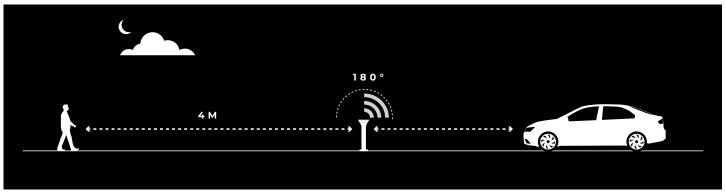


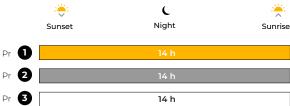


PRESENCE DETECTOR INFRA-RED SENSOR

THE ROR 80 BOLLARD AUTOMATICALLY TURNS ON AT DUSK AND OFF AT DAWN.

Solux 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 secProgram 3 > 20% Dim + 100% ON during 20 sec

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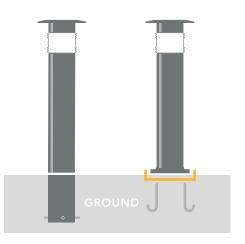
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EASY INSTALLATION

NO CABLING • NO TRENCHING

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



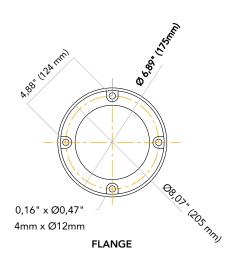
1

2

DIRECT BURRIED FLAT MOUNT

DIMENSIONS

BOLLARD AND BASE



0 ° ° (205 mm)

*All dimensions are in mm

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