

VANDAL B80

VANDAL RESISTANT SOLAR BOLLARD



The VANDAL bollard is designed and built to achieve the highest **Vandal-resistant rating, IK10+**. Nearly impossible to break, it is an ideal choice for high-traffic areas where vandalism may occur. **In addition to its resistance, the VANDAL bollard is fully waterproof with an IP67 rating, allowing for safe use in flooded areas and other wet environments.**

NOMINAL FLUX **588 LUMENS**
NOMINAL POWER **3 WATTS**

LIGHTING

Efficiency **196 Lumens/Watts**
Chips LED **PHILIPS Luxeon 30-30**
LED lifetime **Over 80 000 hours LM80**
Optics/CCT **Asymetric & Symetric / 2300K to 6500K (Dual CCT optional)**
Light Height **80cm**

BATTERY

Technology **Lithium Iron Phosphate LIFEPO4**
Capacity **38Wh**
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 **6,3Wc**
Cells type **Monocrystalline Panel Grade A 25 years**
Certificates **IEC 61215 - IEC 61730 I and II - IEC 60904**

ELECTRONIC

Sensor **Microwave 270° Motion Sensor**

DIMENSIONS

Product **31,50" x 11,02" x 11,02" (800mm x 280mm x 280mm)**
Carton size **42,91" x 28,74" x 30,31" (1090mm x 730mm x 770mm)(4 pcs / Ctn)**
Weight **11,464 lb (5.2 KG)**
Materials **Aluminium & polycarbonate**
Installation **Bolt Down or Inground system**
Product code **VDL B-80**

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



**Parks &
Gardens**



**Hiking
Trails**



Places



**Car Parks &
Rest Areas**



Pathways



Campites

CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK10+ / IP67 / CE / ULOR

LUMINAIRE HOUSING & LEDS

The high-housing and dome are constructed using SABIC Lexan polycarbonate, ensuring durability and protection against UV ray and a guarantee against yellowing. **The luminaire's unique design and shape make it almost indestructible, and it meets without any effort IK10+ certification standards.**

A TOTAL OF 588 LUMENS

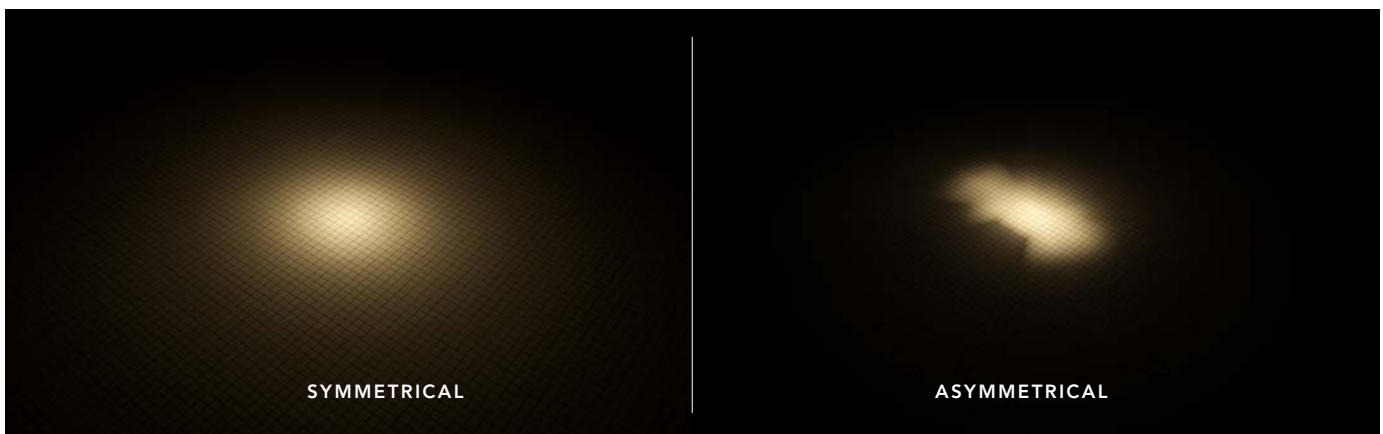
The VANDAL is equipped with 10 Philips LUXEON LEDs which provide each an impressive **196 Lumens per Watt**. These LEDs are integrated into the upper part of the dome and come equipped with **custom optics for exceptional light distribution.**



IP67

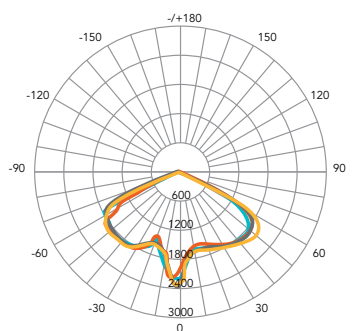
IK10+

LIGHT DISTRIBUTION



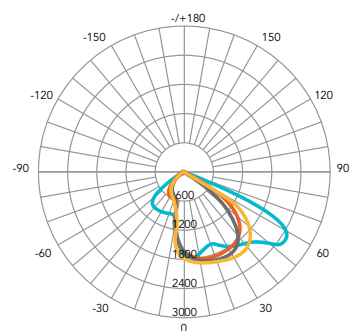
PHOTOMETRIC CURVE

AVERAGE BEAM ANGLE (50%) : **133,9 DEG**



● C0/180,135.0° ● C60/240,130.9°
● C30/210,135.2° ● C90/270,134.7°

AVERAGE BEAM ANGLE (50%) : **77,8 DEG**



● C0/180,68.9° ● C60/240,65.8°
● C30/210,59.9° ● C90/270,116.5°

DOWNLOAD IES FILES 

www.solux-light.com

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USA

BATTERY LiFePO4

+ OVER 10 YEARS LIFETIME

The VANDAL Series features an advanced **Iron Phosphate Lithium LiFePO4** battery, widely recognized as the best chemical technology for solar applications. With a remarkable life cycle of over **3000 cycles at 80% DOD**, this battery provides reliable and efficient power for over **10 years**.

EXTREME TEMPERATURE

14°F to 158°F (-40°C OPTIONAL)
-10°C TO 70°C (-40°C OPTIONAL)

When Standard Lithium LiFePO4 batteries enjoy a working temperature range from **14°F to 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 no matter the situation.

The BMS protects against :

- OVER/UNDER POWER
- OVERLOAD
- OVER/UNDER VOLTAGE
- OVER/UNDER TEMPERATURE



COMPARISON OF DIFFERENT BATTERY TECHNOLOGIES

LIFETIME & CYCLES AT 80% DOD*

Comparison of different battery technologies



Lead Acid
200



NimH
700



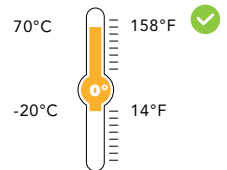
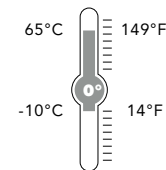
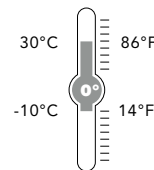
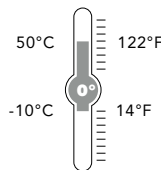
Lithium ION
800



Lithium LifePO4
3 000

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

Minimum & Maximum temperature range for Optimal charging during the day

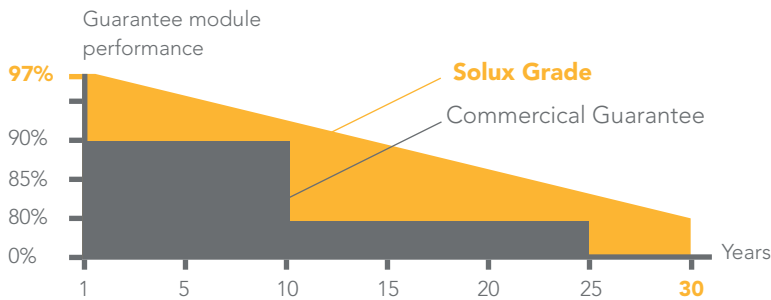


SOLAR PANEL

6,3 WATTS 6V

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

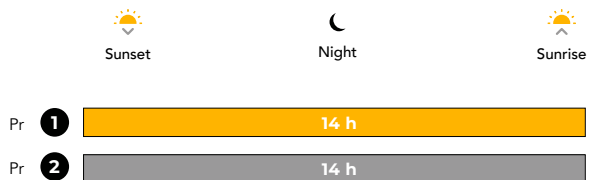
OUR PV PERFORMANCE GUARANTEE



MOTION SENSOR MICROWAVE

THE PHOTOSENSOR AUTOMATICALLY TURNS THE LIGHT ON AT DUSK AND TURNS IT OFF AT DAWN.

The Microwave Motion Sensor with 270° coverage is invisible and integrated to the luminaire housing. It detects any presence and turn the light to full power when it is triggered.



- Program 1**
30% Dim + 100% Power for 20 sec when triggered
- Program 2**
20% Dim + 100% Power for 20 sec when triggered

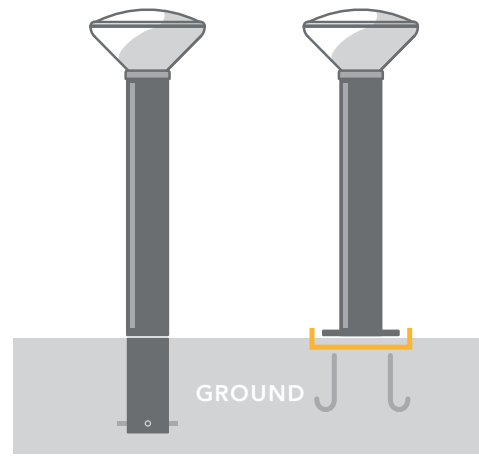
Our dimming program will be customized to your geographical location for optimal efficiency.

EASY INSTALLATION

NO CABLING & TRENCHING

The VANDAL comes in two different mounting type, both requiring **neither trenching or cabling** for a **fast and economical** installation.

Simply insert the bollard into concrete or mount it on anchor rods.



1

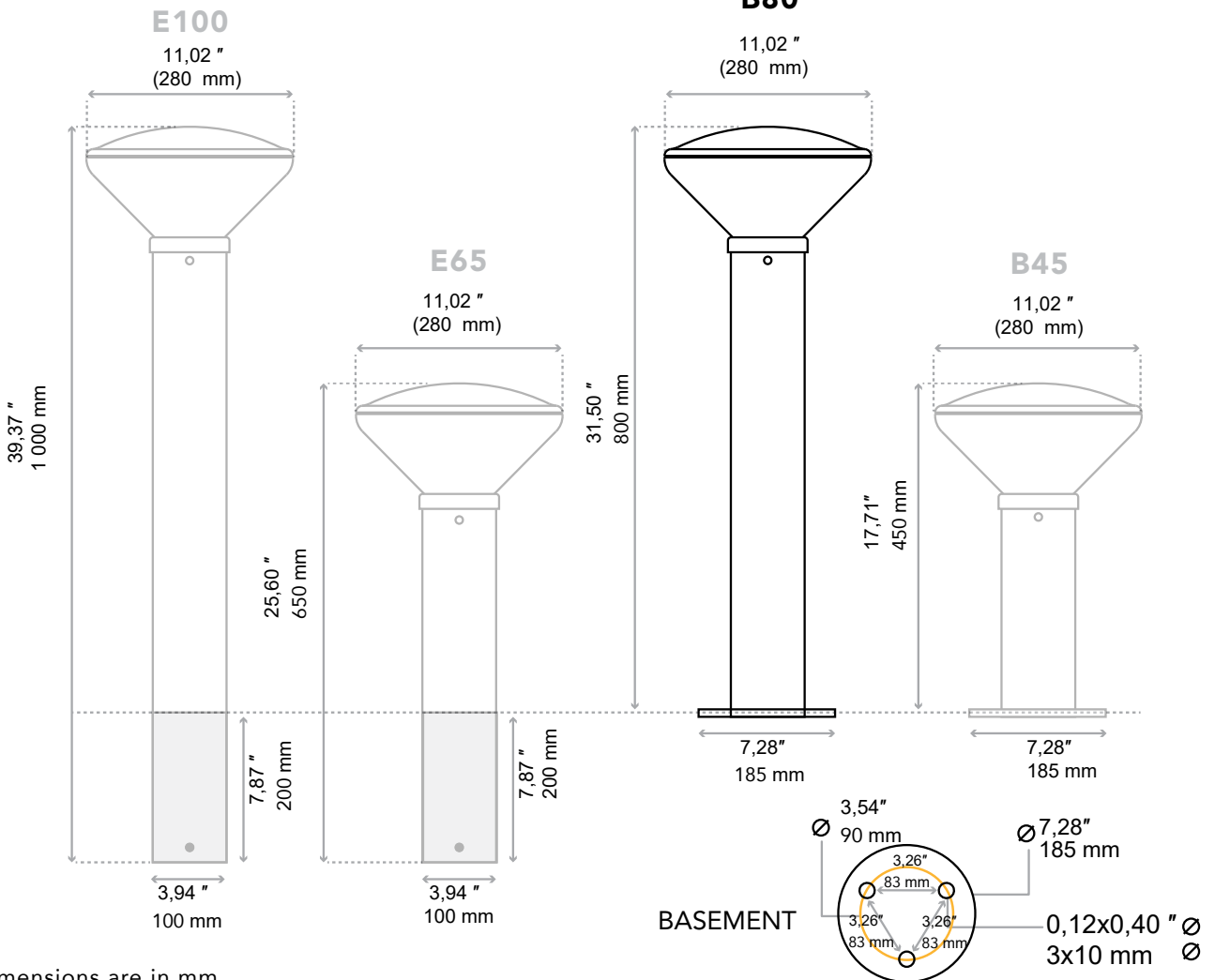
DIRECT BURIED

2

FLAT MOUNT

DIMENSIONS*

BOLLARD & BASE



*all dimensions are in mm

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