

Technical details

Solar Road Stud

BASIC



Dimensions

Ø124mm H: 81mm (Ø4 7/8" H: 3 3/16")

Height above road surface

9mm (11/32")

Material

Aluminum ground socket with glued-on polycarbonate optics for LED

Protection category

IP 68

IK 10

Light Unit

Unidirectional: 3 LEDs

Bidirectional: 6 LEDs

Light unit NOT replaceable

Beam angle

15°

Light colors

Daylight white, warm white, red, orange, green, blue

Light-control features

- Built-in light sensor for automatic switch-on when it gets dark
- Programmable operating and rest times

Weight

1 kg (2.2 lbs)

Areas of application

Unidirectional or bidirectional solar road stud for

- marking hazard spots, traffic islands, roundabouts, bicycle paths
- entry lighting
- marking of pedestrian crossings

Highlights

- Low light emission in natural areas, as operating times, e.g. from 11 p.m. to 5 a.m., can be restricted (programmable before delivery)
- Deep discharge protection function
- Sleep mode prevents discharge during storage and transport
- Constant brightness throughout the operating period

Load capacity

40 tons

Charging requirements

Capacitor version: 4 hours of direct sunlight per day. Charges faster, less autonomy, suited for hot climates with strong sunlight.

Battery version: two sunny days for the initial charge, then at least 4 hours of direct sunlight per day and two sunny days every 12 months.

Operating life

Capacitor version: 25h continuous, 38h flashing

Battery version: 750h continuous, 1150h flashing

Operating temperature

-25 °C to +85 °C (-13 °F to +185 °F)

Certifications

CE, polycarbonate UL 94 V0

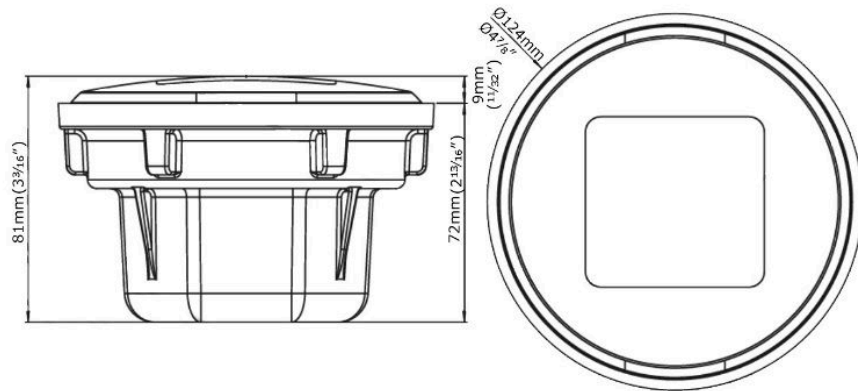
Mode of operation

continuous or flashing

Dimensions/article numbers

Solar Road Stud

BASIC



Dimensions in mm, inches in brackets

Product Number

61	08	00	1	4
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Model

61 = Solar Basic

Light Color Side 1

02 = red
03 = amber
05 = green
07 = blue
08 = daylight white (5500K)
09 = warm white (2700K)

Light Color Side 2

00 = no LED (side not equipped)
02 = red
03 = amber
05 = green
07 = blue
08 = daylight white (5500K)
09 = warm white (2700K)

Operating mode

1 = steady
2 = flashing

Energy storage

4 = battery
5 = capacitor

Operating mode and power supply

Solar road studs work without an external driver and without a controller. Operating mode and energy storage are therefore part of the luminaire and appear in the product number.

The light distribution follows from the two light color digits: side 2 = 00 means unidirectional, any other value means bidirectional.

Photometry

Solar Road Stud

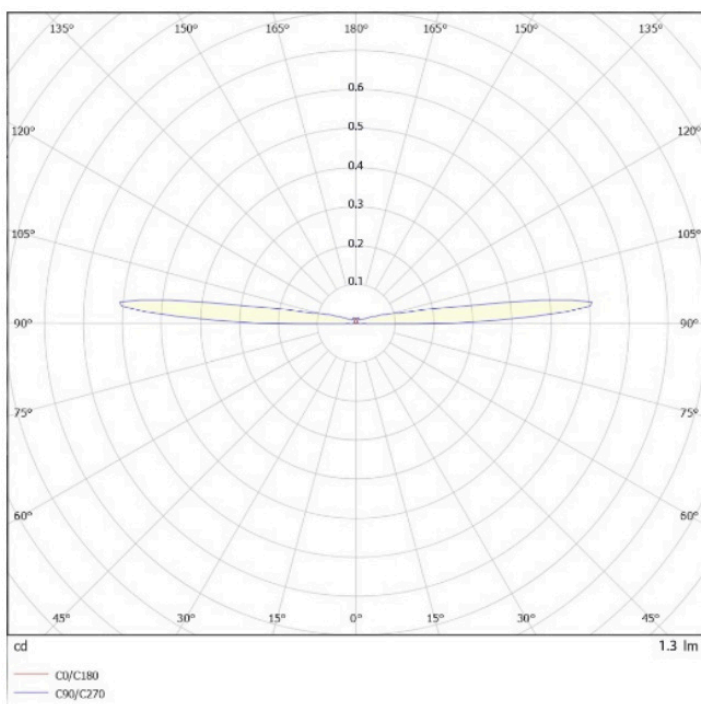
BASIC



Low light emission of only 0.1 to 1.3 lm. This corresponds to a fraction of a candle's glow, at around 10 to 12 lm.

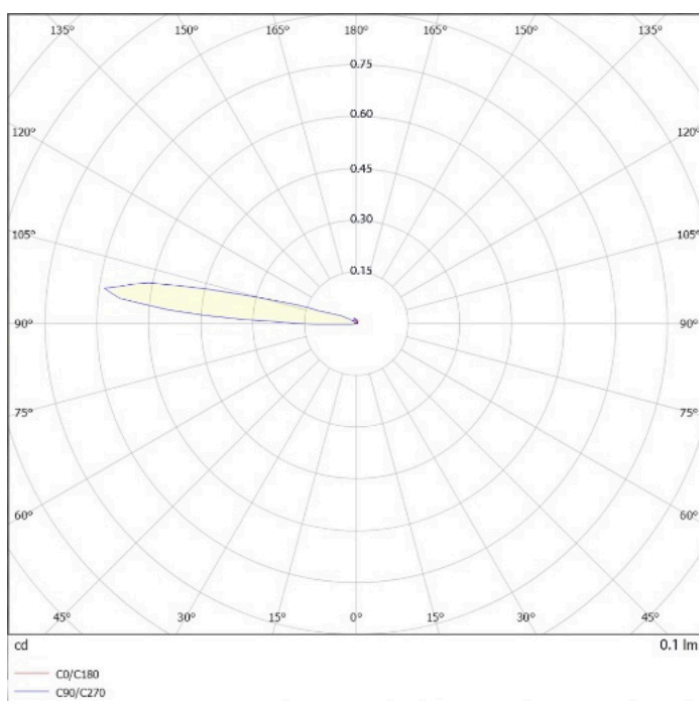
SOLAR BASIC

bidirectional

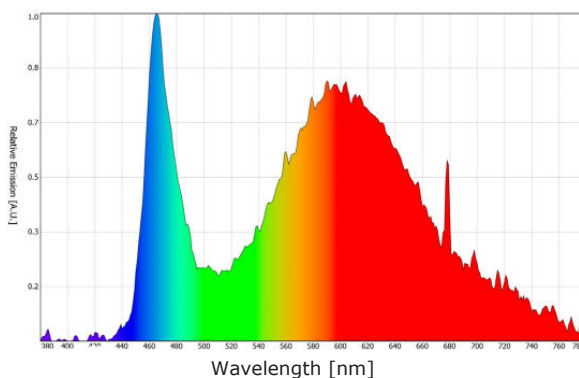


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unidirectional



Light spectrum 2700 K



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