

Technical details

Solar Road Stud

CONTROL



Dimensions

Ø190mm H: 54.5mm (Ø7 ⁸/₁₆" H: 2 ⁵/₃₂")

Height above road surface

4mm (⁵/₃₂")

Material

Aluminum ground socket with corrosion-resistant insert made of stainless steel alloy or aluminum, each with polycarbonate lens for LED

Protection category

IP 68

IK 10

Light Unit (replaceable)

Unidirectional: 2 LEDs

Bidirectional: 4 LEDs

Beam angle

15°

Light colors

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

Light-control features

- Built-in light sensor for automatic activation when it gets dark
- Programmable operating and resting times
- Road Stud Control adds sensors: real-time operating times, motion detection, external control signals via RS232/422/485, USB, SPI, ETHERNET, RF433/686/915 MHZ, LORA, LORAWAN

Weight

Stainless steel: 3 kg (6.6 lbs)

Aluminum: 2 kg (4.4 lbs)

Areas of application

Unidirectional or bidirectional solar road stud for

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

Highlights

- Low light emission in natural areas, as operating times, e.g. 11 p.m. to 5 a.m., can be restricted (programmable before delivery and also after installation via LoRaWAN control)
- Deep discharge protection function
- Combination with motion detectors, e.g. for cyclists in defined areas

Load capacity

40 tons

Charging requirements

The built-in battery initially requires two sunny days to fully charge and then at least 1 hour of direct sunlight per day and two sunny days every 12 months.

Operating life

Continuous light: 1000h

Flashing: 2500h

Operating temperature

-25 °C to +85 °C (-13 °F to +185 °F)

Certifications

CE, polycarbonate UL 94 V0

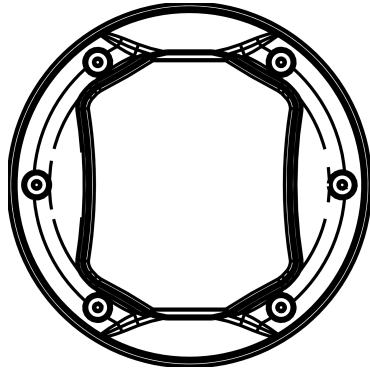
Mode of operation

continuous or flashing

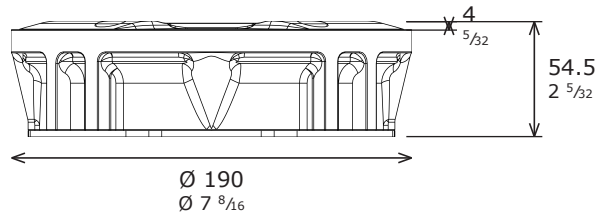
Dimensions/article numbers

Solar Road Stud

CONTROL



Dimensions in mm, inches underneath



Product Number

63	0808	0808	1	2
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Model

63 = SOLAR CONTROL

Light Color Side 1

two LEDs per side, one color code each
02 = red · 03 = amber · 05 = green
07 = blue · 08 = daylight white (5500K)
09 = warm white (2700K)
e.g. 0808 = both daylight white

Light Color Side 2

same coding as side 1
0000 = side not equipped
e.g. 0802 = daylight white and red

Operating mode

- 1 = both sides steady
- 2 = side 1 steady, side 2 off
- 3 = both sides flashing
- 4 = side 1 flashing, side 2 off

Material

- 2 = aluminum
- 3 = stainless steel

Operating mode and power supply

Solar road studs work without an external driver and without a controller. The operating mode is therefore part of the luminaire and appears in the product number.

The light distribution follows from the two light color digits: side 2 = 0000 means unidirectional, any other value means bidirectional.

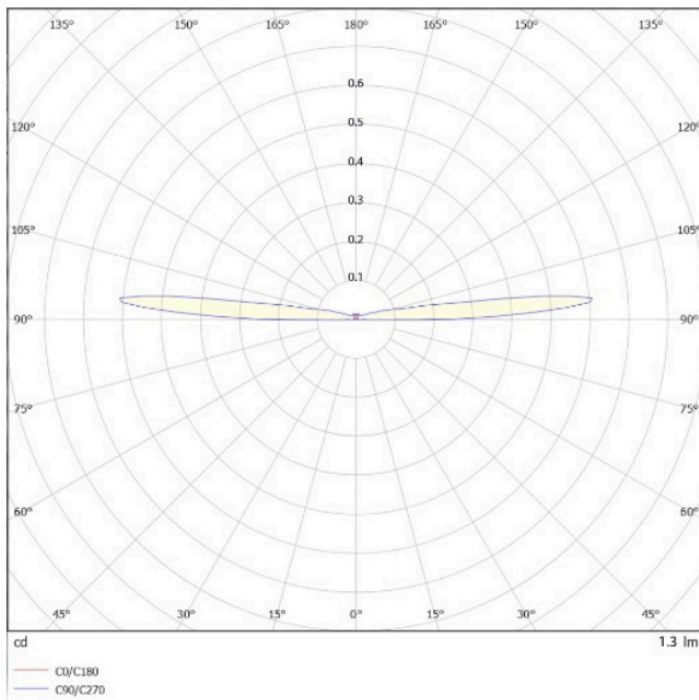
The operating mode is set per side; side 2 can be switched off.

Photometry Solar Road Stud **CONTROL**

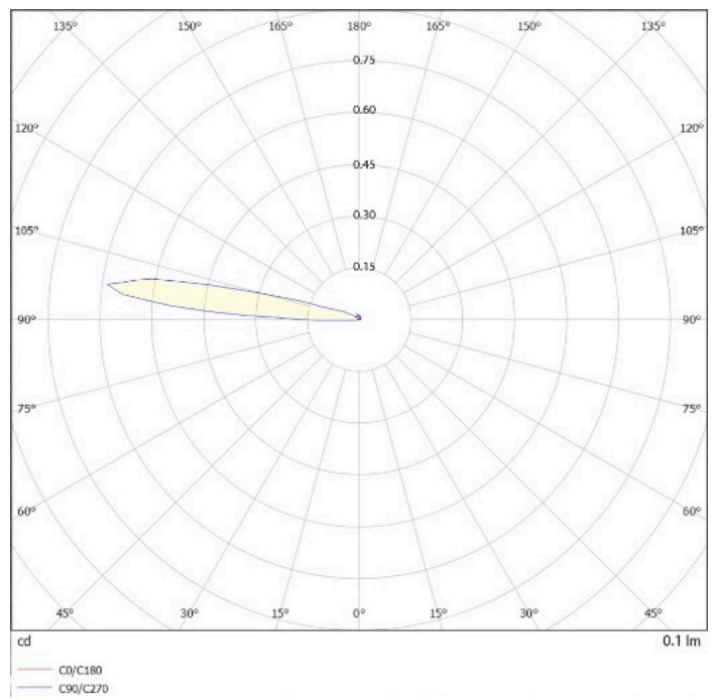


Low light emission of only 0.1 to 1.3 lm. This corresponds to a fraction of a candle's glow, at around 10 to 12 lm.

SOLAR CONTROL bidirectional



SOLAR CONTROL unidirectional



Light spectrum 2700 K

