Technical details
Solar Road Stud
FORCE

Dimensions
Ø160mm H: 57mm (Ø6 5⁄16″ H: 2 ¼″)

Height above road surface
10mm (13⁄32″)

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: 3 LEDs
Bidirectional: 6 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 rest times
- Flashing mode synchronised via GPS

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. from 11 p.m. to 5 a.m., can be restricted (programmable before delivery)
- Deep discharge protection function
- Silicone-free junction sealing for faster and cleaner maintenance
- Anti-capillary cable prevents water ingress
- Ready for snowplow machines
- Different cap treatments available on request

Load capacity
Stainless steel: 60 tons – snowplow-proof
Aluminum: 30 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 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

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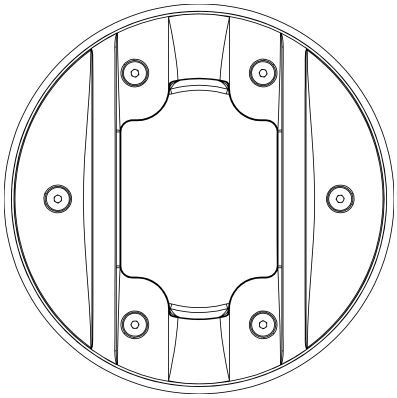
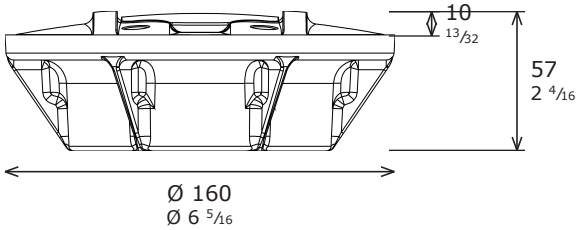
Dimensions/article numbers

Solar Road Stud

FORCE





Dimensions in mm, inches underneath

Product Number

62	08	08	1	2	4

Model
62 = Solar Force

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

Material
2 = aluminum
3 = stainless steel

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.

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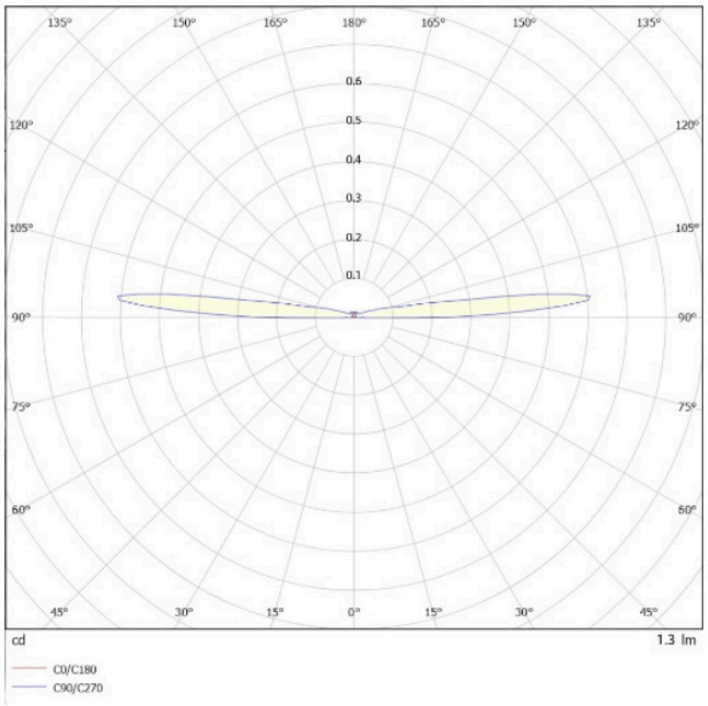
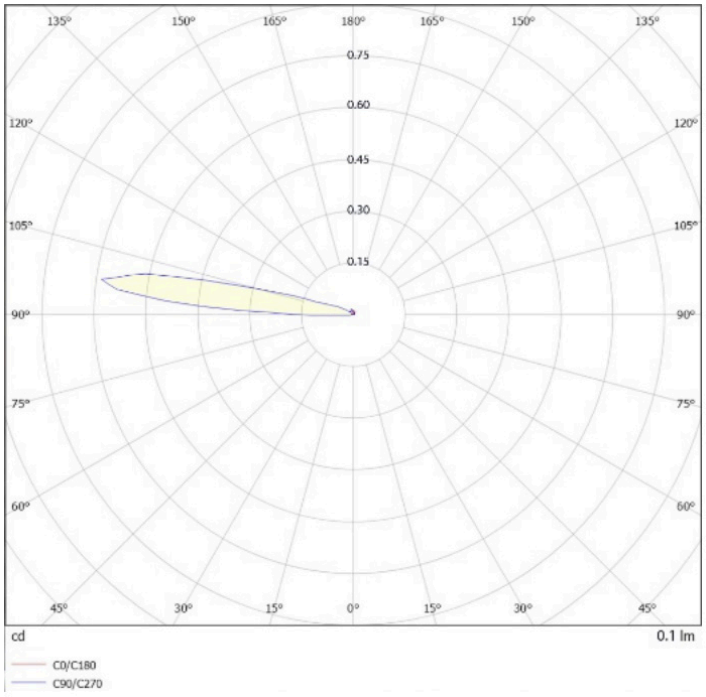
Low light emission of only 0.1 to 1.3 lm. This corresponds to a fraction of a candle's glow, at around 10 to 12 lm.

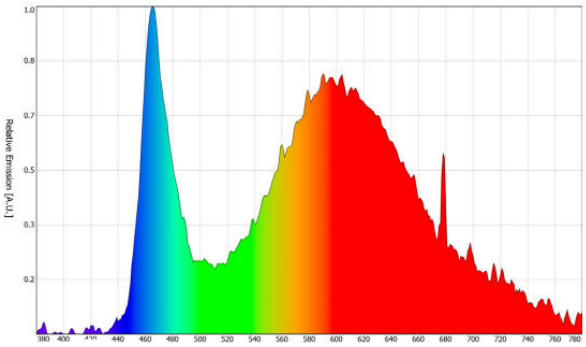
SOLAR FORCE
bidirectional



SOLAR FORCE
unidirectional



Light spectrum 2700 K



Wavelength [nm]

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