



SolarLite S381

DfT Type Approved Solar Road Stud with Robust Cast Iron Housing – Proven Performance for Safer Roads

The SolarLite® S381 combines SolarLite's proven solar-powered road stud technology with Prismo's robust cast iron housing to deliver exceptional durability, outstanding visibility and reliable active road delineation for the UK's most demanding road networks. Designed to fit industry-standard installation practices, the S381 installs like a conventional road stud in a shoe while providing the enhanced safety benefits of active solar guidance.

Suitable for motorways, trunk roads, rural roads and local authority networks, the S381 improves driver guidance in darkness, poor weather and low-light conditions. It also provides a sustainable alternative to additional street lighting, with the ADEPT Live Labs 2 programme demonstrating that alternative visual guidance solutions can reduce carbon emissions by up to 25% and deliver £1.24 million in savings over 10 years.



Features and Benefits

- **Heavy-duty cast iron housing** – built for high-traffic roads with snow plough protection
- **Quick installation & minimal maintenance** – ideal for resurfacing programmes with lower whole-life costs
- **Active solar guidance** - enhanced visibility, delineation and driver confidence
- **Day & night visibility** - retro-reflective by day, active LED guidance by night
- **DfT Type Approved** - ready for deployment across the UK highway network - (Authorised compliance W/EN1463)
- **Sustainable solution** – no street lighting, no mains power, lower carbon emissions

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SolarLite project
with our stud
calculator**



Technical Specification

Reflector colour	Amber, Red, White, Green, Blue
Operating temperature range	-30°C to +85°C
LED configuration	Uni / Bi directional
LEDs per stud	1 per uni directional stud 2 per bi directional stud
LED size	5mm (all colour variants)
LED colours	Amber to EN1463/ Red to EN1463/ White to EN1376 C/ Green to EN1463/ Blue to EN1376 A
Approx max distance of view	Up to 900m dependent on road layout
LED output	>100Hz
Battery	Nickel metal hydride
Output - full charge	Up to 156 working hours with no solar input
Time to full charge	8 hours with 500W/m2 illuminance
Installation	Stud bonded with Sol Fix epoxy Housing typically bonded with hot pour bitumen
Housing colour	Transparent
Physical dimensions	Casting: L:180.3mm x W:142.4mm x H:43.9mm
Product weight	1.782 kg
Product reflector type	Corner cube plastic with abrasion resistant layer

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