



Clearview
Intelligence

SolarLite Road Studs



Enhance route safety, reduce accidents and
drive decarbonisation with SolarLite road studs
from Clearview Intelligence

SolarLite Road Studs

Introducing the Clearview Intelligence SolarLite Range Lighting the Way to Safer Roads

At Clearview Intelligence, safety is at the heart of everything we do. Our SolarLite road studs offer a powerful solution to enhance visibility, improve driver awareness, and reduce collision-day and night, in all weather conditions.

SolarLite road studs use built-in sensors to automatically illuminate at dusk and turn off in daylight, unlike retro reflective roads studs that require direct beams from headlights to be visible. LEDs in active studs provide enhanced visibility up to 900 meters, which is 10 times the distance offered by retro reflectors, giving drivers more time to react to changes on the road. This enhanced visibility significantly improves safety for all road users at night

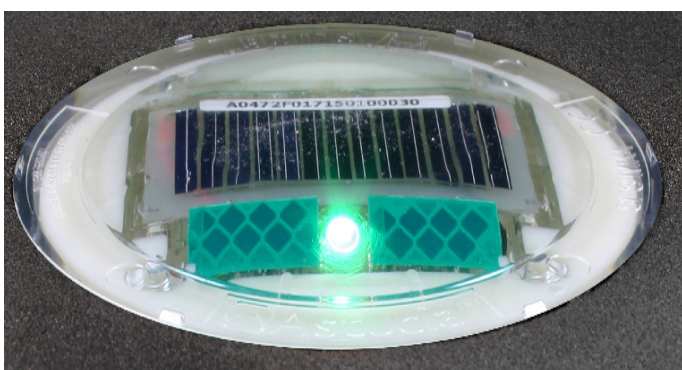
Safety and Delineation

Our road studs deliver clear and effective delineation which provides improved safety across our networks.

A study carried out by the UK's independent Transport Research Laboratory concluded that Clearview's active road studs reduce the likelihood of crossing central lines or changing lanes on highways, resulting in more consistent braking and less main beam usage that could dazzle on-coming drivers.

Key Features

- **Solar-Powered Technology** - all models are powered by solar energy
- **Road Safety** - proven to decrease night-time accidents by over 70%
- **Delineation** - provide clear delineation of lanes, paths, and junctions
- **Visibility** - 10 x better visibility than traditional retro-reflective studs up to 900m even in poor weather conditions
- **Low Light Pollution & Wildlife-Friendly** - designed to protect nocturnal wildlife and preserve dark skies with ground-level, low-intensity lighting
- **Multiple LED Colour Options** - amber, red, white, and green available to signal specific hazard types or zones



Improve Visibility. Improve Safety

The World Health Organisation states that over 1.3 million people lose their lives every year as a result of a road traffic accident. Poor visibility at night and awareness of hazards are a contributing factor to road accidents. Active Road Studs have been shown to reduce accidents by up to 70% at night providing enhanced delineation of the road and lanes.

SolarLite Studs can significantly increase a drivers reaction time from 3.2 seconds to over 30 seconds at 100km/h (62mph)



SolarLite Range

Effective delineation can deliver improved safety across our networks. From the centre or at the edges of carriageways to junctions, roundabouts, cycleways, footpaths and level crossings.

Our SolarLite Road Studs combine the use of retro-reflective strips with high brightness LEDs (Light Emitting Diodes) to provide visibility up to ten times greater than that of traditional retro-reflective studs.



SolarLite Flush

Low profile Solar powered stud installed flush with the road/path surface



SolarLite Surface

Surface mounted Solar powered stud ideal for edge delineation



SolarLite Path

Solar powered – specifically designed to be deployed in footpaths and cycle routes

SolarLite Applications

Delineation - Improved road and pathway visibility, highlight hazards, junctions and intersections

Lighting - Sustainable alternative to street lighting on unlit roads or pathways

Cost Reduction - Deploy as an alternative to traditional road studs to achieve lower lifetime cost

SolarLite Applications across the Network

- Sharp bends and hazardous junctions
- Cycle and Pedestrian paths
- Motorways and high-speed roads
- Road edges, lanes, junctions and intersections
- Railway and Pedestrian crossings
- Ports and Airports for cargo guidance

Smarter, Safer Roads

With the Clearview Intelligence SolarLite range, you're not just installing road studs - you're investing in a safer, smarter transport infrastructure.



SolarLite

SolarLite Solar Powered - Smart, Safe, Sustainable



The SolarLite range of studs are powered by solar energy captured from natural sunlight through the in-built solar panel and stored in the stud's internal battery. A few hours of daylight will provide enough battery power to last days, more than enough to ensure the system operates all year round whatever the weather and wherever the location in the world.

This smart, safe and sustainable solution provides delineation and guidance to vehicle drivers, cyclists and pedestrians, while helping to reduce environmental impact, whole-life costs and ultimately, saving lives.

SolarLite Flush

The SolarLite Flush stud is engineered to be installed directly into the surface of roads, paths, and cycleways, sitting less than 4mm above ground level, making it exceptionally unobtrusive to all road users including motorists, cyclists, and pedestrians. Its low-profile design allows it to be safely used even in heavily trafficked areas such as central road lanes, while still providing effective illumination and guidance. These studs are built to withstand vehicle loads without damage and are proven to encourage safer driving behaviour by improving visibility, especially at night. With a lifespan four times longer than traditional studs, they offer a cost-effective, durable, and sustainable road safety solution.

SolarLite Surface

The SolarLite Surface stud is a highly versatile safety solution, designed for use across a variety of environments including roads, cycle paths, canal towpaths, and level crossings. It enhances visibility by providing active edge delineation, helping users to better identify potential hazards in both urban and rural settings.

They're easy to install, and available in a range of LED colours (amber, red, white, green) to signal specific hazard types or zones. This makes them an excellent choice for authorities seeking a low-cost, highly visible, and environmentally friendly way to improve safety at critical locations. By increasing driver awareness and reaction time, these surface-mounted studs play a key role in reducing accident risks.

SolarLite Path

The SolarLite Path stud is purpose-built for active travel applications, offering a 360-degree in-ground LED light powered entirely by solar energy. It provides reliable, year-round route delineation on footpaths and cycleways, especially in areas without mains power or street lighting. Its textured top surface maximises grip and its design is robust enough to withstand pedestrian and cyclist traffic, making it ideal for rural or off-grid locations. With an optical output that projects light up to 25 metres ahead, it ensures safe, visible guidance during hours of darkness.

Biodiversity by design

The SolarLite Path is designed with environmental sensitivity in mind. Its focused, ground-level illumination minimises upward light spill, making it perfect for Dark Skies areas where preserving the natural night sky is a priority.

This also contributes to reduced visual intrusion in rural or natural landscapes. Additionally, the stud uses low-intensity dimming to prevent over-lighting and has been proven to be friendly to nocturnal wildlife, including bats, by avoiding disruption to their natural behaviours. This makes it an excellent choice for eco-conscious infrastructure and sustainable urban planning.



SolarLite

All year-round operation

We use patented power management technology, to confidently assure reliable, robust and maintenance free all year-round operation. Just three hours of bright daylight will provide a full charge for 10 nights operation.

Lifespan

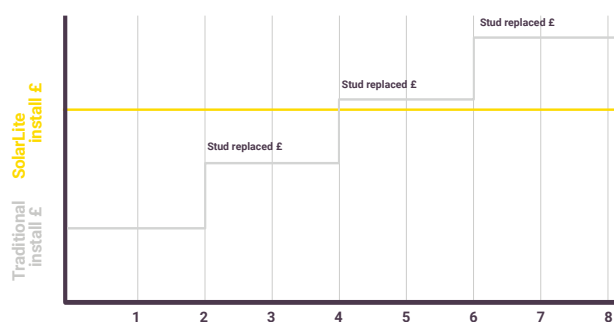
The operating life of SolarLite studs is greater than the average estimated road surface life expectancy, and the overall costs are substantially lower than that of traditional road studs, with a significant reduction in maintenance costs. Some customers have reported that their studs have lasted over a decade and are still effective.



Decarbonisation & Sustainability

Local authorities, transport bodies and private sector organisations are increasingly seeking ways to cut costs, reduce carbon emissions, and minimise environmental impact. SolarLite Road Studs offer a sustainable, energy-efficient alternative to traditional lighting infrastructure. Fully solar-powered and maintenance-free, they support decarbonisation strategies by eliminating the need for mains-powered streetlighting - especially in rural or low-traffic areas.

SolarLite lifetime costs vs traditional studs



All SolarLite studs have UK type approval from the Department for Transport and comply with BS EN 1463.

Key Benefits

- **Enhanced Safety & Collision Prevention** – improves visibility and reaction time, with proven reductions in night-time accidents by over 70%
- **Sustainable & Eco-Friendly** – solar-powered and wildlife-friendly, supporting net-zero goals, Active Travel, and environmentally sensitive planning
- **Street-lighting Alternative** – enables reduction or removal of traditional street-lighting by providing effective off-grid night-time guidance
- **Encourages Safer Behaviour** – promotes smoother driving, reduces erratic manoeuvres, and supports safer travel for all users
- **Drives Decarbonisation** – cuts grid energy reliance, helping meet carbon reduction targets and climate action strategies
- **Cost-Effective & Low Maintenance** – minimises installation, energy, and upkeep costs compared to traditional lighting and studs
- **Durable & All-Year Operation** – built to last (8-10 years) and operate reliably in any weather or location



Want to know more?

www.clearview-intelligence.com

t: +44 (0)1908 088008 e: info@clearview-intelligence.com

Head Office: Aurora House, Deltic Avenue, Rooksley, Milton Keynes, MK13 8LW