3iS TRANSPORT

VANDAL-RESISTANT SHELTER AND CANOPY LIGHTING



Designed to make public spaces safer and more accessible, the 3iS MSL-50 is a modular, solar-powered LED lighting system offering maintenance-free, vandal-resistant, and energy-efficient lighting for shelters and canopies. Its separate panel design allows light to be strategically placed in sheltered and covered areas where it's needed most – all without mains power. With a compact design that enables easy installation, the 3iS-MSL-50 provides a cost-effective solution for various applications, including public realm, education and rail.

VANDAL RESISTANT
Robust, tamper-proof design for high-risk public environments.

SOLAR POWERED
100% off-grid solution with zero running costs.

EASY TO INSTALL
Compact, lightweight design for quick installation.

SMART LIGHTING
PIR motion sensor with multiple operating modes.

ALL-NIGHT LIGHTING
Optimised for the UK climate with extended autonomy.

LOW CARBON SOLUTION
Sustainable lighting that supports Net Zero objectives.





3iS-M50

LUMEN AND POWER RANGE:
975–2,805lm

LED PANEL QUANTITY:
1, 2, 3 or 4

WEIGHT:
19.5 kg (LED fixture)

WIND RATING:
up to 198mph

3iS TRANSPORT

CASE STUDY

Transforming Luton's bus shelters



Funded by the Department of Transport's Bus Service Improvement Programme (BSIP), a recent council initiative aimed to upgrade bus shelters with a durable, energy-efficient lighting solution to improve commuter safety.

Partnering with contractor Volker Highways, we provided over 160 customised solar-powered 3iS-M50 to fit the mechanical construction of Luton's two-bay bus shelters. The solution provided reliable illumination without the need for grid connections,

reducing installation and maintenance costs while ensuring long-term durability.

SOLAR POWERED

100% off-grid solution with zero running costs.

NO GRID CONNECTION

Eliminates the need for expensive trenching and cabling.

DURABLE & VANDAL-RESISTANT

Built to withstand tough urban environments and reduce vandalism damage.

LOW MAINTENANCE

Minimal upkeep required for up to a decade of reliable service.

SUSTAINABLE SOLUTION

Reduces carbon emissions and supports local environmental goals.



> *"The solar lighting system is virtually maintenance-free, with no energy costs and minimal upkeep required. This fit-and-forget solution will last many years, with battery maintenance unlikely for at least a decade."*

Steven Lain,
Service Manager, Bus Services & Operations, Luton Borough Council

Luton

OVER 160 3IS-M50 LIGHTS DEPLOYED

FITTED TO LUTON'S TWO-BAY BUS SHELTERS

REDUCED INSTALLATION AND MAINTENANCE COSTS

IMPROVING SAFETY FOR COMMUTERS ACROSS LUTON

3iS TRANSPORT

3iS-M50

SPEC SHEET

Vandal-resistant canopy and shelter solar lighting system.



PIR (STANDARD):

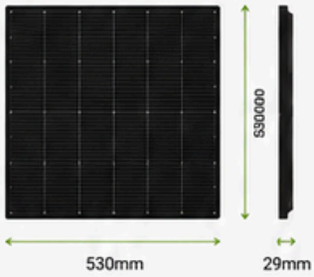
- **All night mode:** Operates at a constant all-night level of illumination until dawn
- **Sensor mode:** Detects movement and increases illumination up to 100% until no motion is detected for 30 seconds
- **Surprise mode:** No light until motion is detected then turns on until no motion is detected for 30 seconds
- **Configurable timer settings:** ON/OFF, DIM, and PIR/DIM available on request



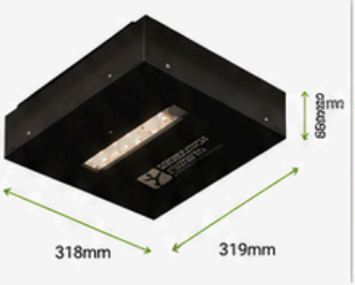
- **Colour Temperature:** 3000K or 4000K
- **Colour Rendering Index:** 70Ra
- **Max luminaire efficacy:** up to 187lm/W
- **Lifetime:** L90 <100,000 hours
- **Operating Temperature:** -20°C to +70°C
- **Warranty:** 5 years

DIMENSIONS

Panel:
L: 530mm x
W: 530mm x
H: 29mm



Fixture:
L: 318mm x
W: 319mm x
H: 86mm



MOUNTING

- Universal mounting brackets and 3-metres cable included
- For special projects, we can design custom mounting brackets to suit your canopy or shelter
- Modular panel solution

MATERIALS

LED FIXTURE:

- **Body:** 316 stainless steel, with tamper-proof stainless steel fixings
- **Lens:** Double-laminated safety glass (linear or round options available)

SOLAR PANEL:

- 50W Monocrystalline military-grade edgeless toughened glass panel, on a 316 stainless steel backing plate
- **Efficiency:** 24%
- **Finish:** Stainless steel or polyester powder coat

LUMEN RANGE (LUMENS)

- 1,402lm all-night mode which increases to 2,805lm output for 30 seconds when motion is triggered

POWER

- **Watts (light output):** 1-15W, default setting 1-7.5W + 7.5W (boost mode)
- Example winter autonomy: 9 days at 3W. Contact us for a calculation on your scheme
- **Charging system** measures temperature and optimises charge to increases battery life

CONTROL OPTIONS

- **ON/OFF:** Through solar panel switching 1-14 hours
- **PIR:** 360° 6m detection zone. Activates for 30 seconds
- **DIM:** Adjustable dimming modes with programmable ON / OFF settings (1-14 hours) light dimming settings from 5%-100% with additional programme to schedule ON time before dawn (1-4 hours)
- **PIR/DIM:** PIR and dimming (1-7.5W + 7.5W)

*Due to LED and product innovation, the details within this brochure are subject to change at any time, please contact us to ensure you have the most up-to-date information.

3iS TRANSPORT
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MADE IN BRITAIN

3iS TRANSPORT

WHY 3iS TRANSPORT

Delivering smart, sustainable transport infrastructure for a better tomorrow.



DESIGN

Modern, accessible and sustainable transport infrastructure.



DELIVERY

End-to-end project delivery including design, manufacture, installation and commissioning.



MAINTENANCE

Supported by our maintenance partners with planned preventative maintenance and rapid response capabilities.



SUSTAINABILITY

Solar power, sedum roofing, biodiversity enhancements and low-carbon solutions.



INNOVATION

RTI, E-Ink, CCTV, cycle infrastructure, lockers and mobility hub integration.



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