# InsPIRed®

**Our InsPIRed® solar exterior light uses the latest technology to deliver a truly market leading, energy efficient illumination system.**

InsPIRed® is fitted with four PIR sensors which trigger the LED luminaires when a person is detected, and uses radio signals to communicate with other luminaires in the scheme to create a dynamic lighting envelope for forward vision, security and navigational comfort ahead and behind.

## Main Features:

- Electrical, battery & optical compartment designed to IP66*
- Luminaire designed to IP54*
- Solar powered for grid independence
- Pathway ahead indicators show route and confirmation of passage
- PIR sensors trigger the light source and use radio signals to notify other luminaires in the scheme when a person is detected.
- Rotatable & configurable light array
- Replaceable & rechargeable battery cassettes (x4)
- Environmentally friendly for biodiversity
- Smart City capable
- Designed for use in UK latitude
- Modular upgradable construction
- Market leading autonomy
- Market leading duty rating

*Awaiting testing

## Materials:

- Toughened glass solar panels
- UV polycarbonate optical windows
- High pressure die cast aluminium housing
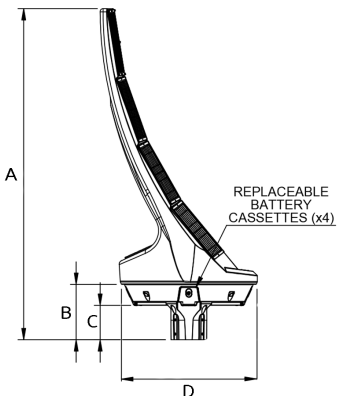- High density polyethylene solar array

# Specification

|  | Specification | Notes |
|---|---|---|
| **Optical** | | |
| Lumen output range | 175-3350Lm | Dynamic lighting |
| Colour Temperature | 2200k / 3000k | 2200k (dimmed) 3000k (triggered) 2200 x 1/2W |
| CRI | 70 | |
| S/P Ratio | 1 - 1.3 | |
| Distribution Options | ISENA Type II, III & V | Up to 4 quadrants directable LED array, within maximum power constraints |
| LM-80 | L90B10 | >100,000Hrs |

| **Electrical** | | |
|---|---|---|
| Power range | 0.5W - 20W | Dynamic lighting |
| PV Power (rated) | 144W | Optimised for winter sun, south facing |
| Battery capacity | Up to 1268Wh | In 4 rechargeable & replaceable cassettes |

| **Operational** | | |
|---|---|---|
| Maintenance | App / front screen diagnostics tool | Under development |
| Control | Configurable to site conditions | |
| PIR sensors | 4 x high performance PIR sensors | 12m PIR range |
| Duty cycle | Up to 100 PIR triggers average per night, programable | For up to 2 minutes at full power (time on can be variable) |
| Temperature Range | -20 to +40 ºC | Testing based on 25ºC ambient |

## Luminaire characteristics

| Dimensions |  REPLACEABLE BATTERY CASSETTES (x4) | | |
|---|---|---|---|
| | A | 1752mm | C | 181mm |
| | B | 292mm | D | 709mm |

| Nominal weight | 47.5kg |
|---|---|
| Windage | 1.13m² |
| Recommended mounting height | 6m |