

## IML LED Engine Room Light




**Models:** ILER-LEDC-DC – 11.5-32Vdc • ILER-LEDC-DC/S – 11.5-32Vdc (Switched)

**Description:** A low-profile, multi-voltage, LED, rough-duty utility light ideally suited to illuminate engine rooms or battery compartments. Other uses include utility rooms, aft deck garages, and generator spaces. Bright-white LED output with extremely low power consumption.

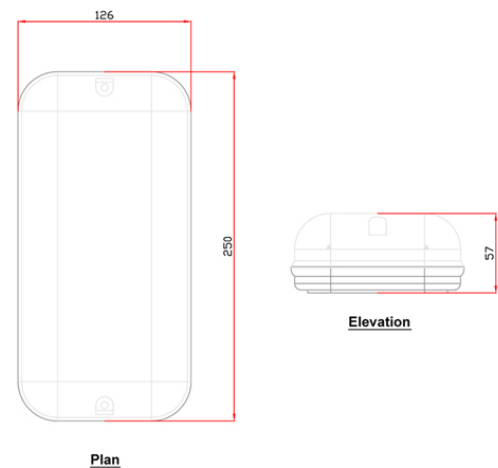
### Features:

- Solid State Circuitry: Vibration & Shock Resistant
- High Output, Wide-Angle LED Cluster
- Low-Profile Design
- Tough ABS Housing
- Clear Polycarbonate Lens
- Silicone-Insulated Wires
- Stainless Steel Fixing Screws
- Terminal Blocks

### Specifications:

Base Material:	White ABS
Lens Material:	Clear Polycarbonate
Base Dimensions:	9.8" x 4.7" (250mm x 120mm)
Fixture Height:	2.24" (57mm)
DC Input Voltage Range:	11.5-32 VDC
Power Consumption:	.4 Amps @ 12VDC, .2 Amps @ 24VDC
LED Engine:	78 x 5mm LEDs
Beam Angle:	120 dg
Kelvin Temperature:	8500K
Average Life:	30,000 hrs +
Integral Switch	Model ILER-LEDC-DC/S Only
Ingress Protection:	IP56
Classifications:	  
Weight:	0.68 lbs (0.31 kg)

### Dimensions:



## User information, installation guidelines, & maintenance suggestions:

This LED light fixture is designed to give many hours of reliable service, providing good light output with very low power consumption. A durable ABS base, Polycarbonate lens diffuser, and solid state technology combine to make this the ideal light for harsh environments such as engine rooms, generator compartments, work shops & utility spaces.

The following tips will ensure you get the very best out of this product and the long service life it has been designed to provide.

1) **Mounting:** A template has been provided to help mark mounting hole locations and cable exit holes. Two fixing screw holes have been provided in the center of the fitting. They can be accessed by removing the lens only (there is no need to remove the LED assembly to access these fixings)

Always mount the unit on a flat firm base. Do not over tighten the mounting fasteners as this may distort the base and prevent the cover from fitting correctly, compromising the water-resistant/dust-proof seal.

2) **Cable Feeding:** This unit features both rear and surface mount cable entries at both ends. The rear cable entries have been fitted with rubber grommets and the cable entries at each end supplied with PG 7 cable glands.

For rear wiring, pass the cables through the rubber grommets provided and ensure they are sealed against the ingress of dust and moisture. For surface wiring, simply remove the screw in blank plugs from the cable entry and screw in the PG 7 cable gland provided. When feeding the cable in, ensure the cable gland is screwed down so as to completely seal around the cable.

On all models, terminal blocks have been provided for internal connection of feeds.

To access the terminal blocks, it is necessary to remove the LED assembly. Take care when doing so to avoid damaging the wires between the LED assembly and the driver module. When refitting the LED assembly, also take care to not over tighten fixings.

3) **Mounting Lens Cover:** When tightening down the cover ensure the screws are torqued down firmly so as to ensure the lid is pulled into the seal groove all round the fixture. This assures a water-tight seal. A visual inspection should confirm it is in proper position. Again, avoid over tightening screws.

4) **Cleaning:** Periodic cleaning of lens cover inside & out will ensure the fixture is providing optimum light output. Clean the cover with damp clean rag. Glass cleaner or mild soap may be used, but avoid abrasives, and do not use solvents. Inspect LED chassis (LEDs mounted on PCB). If dirty, it may be wiped with soft dry cloth or cloth with contact cleaner (avoid use of degreasers, mineral spirits, or petroleum-based products).

5) **Wiring:** As in Section 2 above, terminal blocks have been provided (wire tails are not provided). Ensure external wiring to the unit is adequately sized, of the correct color code and insulation rating for the service and in accordance with local standards.

For DC (In accordance with ABYC Code) RED is Positive (+) and BLACK or YELLOW is Negative (-).

Connection to supply cable: Although current draw is minimal for these fixtures, we still recommend the use of 16 awg supply cable for DC. Where a number of units are connected to one circuit, the cable size must be of appropriate cross-sectional area to provide the required power without voltage-drop. Please refer to ABYC table: Recommended Conductor Sizes for 10% Drop in Voltage). Excess voltage drop can degrade light performance and raise conductor temperature causing degradation to the insulation. Circuit protection must be provided via fusing or circuit breaker. We recommend each fixture be protected with a properly rated AGC (bus type) fuse. Fuse size is based on current-carrying capability of the smallest wire in the circuit. If in doubt, consult with your local boatyard or contact Imtra for recommendations.

Finally, if you have any questions regarding this product, please contact Imtra Corporation directly and your call will be directed to the appropriate department. Ph: (508)995-7000. Or send us an email: [lighting@imtra.com](mailto:lighting@imtra.com).