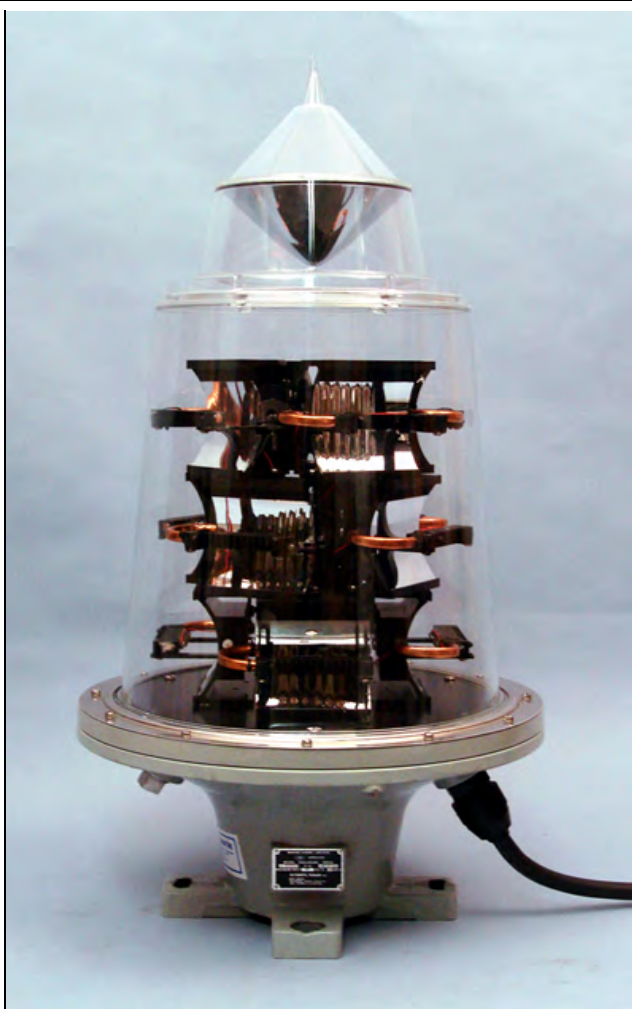


FA-250LED LR Series Long Range (+18 nm) Marine Lantern



(L) = 70% @ 60,000 Hours



The FA-250 LED LR lanterns offer the AtoN authority a LED lantern with the highest Lumen Maintenance value available in the market today. Lumen Maintenance (L) is an important factor to consider in using LED lanterns because unlike incandescent lamps, LEDs do not burn out--rather, they lose their lumen output over time.

The lumen output degradation is a factor of HEAT. Automatic Power's Procyon LED light modules use a patented*, sealed, ACTIVE heat pipe transfer system that pulls heat away from the LED heat pad and dissipates it to a large surface area heat sink. Coupled with the large area volume of the lantern, the lantern maintains 70% of its initial output for 60,000 hours--this is the highest achievable (L) value possible with today's LED technology.

The FA-250 uses a long range LED optic with a nominal range of up to 28 nautical miles (T=0.85). The Procyon light module consists of a linear array, very high flux, LED's individually mounted in a parabolic reflector. The highly efficient reflector uses a state of the art dichroic hybrid spectral metal coating.

Groups of reflectors are assembled in stacked arrays and the array system is driven by specially designed electronics. The exterior is the standard FA-250 precision molded cover. The FA-250LED controller provides flash control, current limiting to the LED, photocell input, synchronization terminal and AC transformer (if required).

FA-250LED LR Models

LR12-BX	LR120-BX	LR12-AI
LR12-CX	LR120-CX	LR24-AI
LR24-BI or BX	LR240-BX	LR120-AX
LR24-CX	LR240-CX	LR240-AX

LR= Long Range

12 = 12V nominal (10.5 -30VDC input) on 1 tier only.

24 = 24V nominal (20-30VDC input) Recommended on all tiers when DC required

120 = 120VAC 50/60 Hz input

240 = 240VAC 50/60 Hz input

A = 1 tier (4 Procyon light modules)

B = 2 tier (8 Procyon light modules)

C = 3 tier (12 Procyon light modules)

X = electronic controller mounted in external NEMA 4x enclosure

I = electronic controller located in lantern base.

MECHANICAL DATA

- **Lighting Source:** Stacked array of high flux, high efficiency 1x16 Procyon LED Light Engines. > 90% efficiency.
- **Height:** 750 mm **Weight:** 20 kg
- **Materials:** Precision-molded, high-temperature, acrylic cover. Cast aluminum base and frame. Stainless steel fittings and neoprene O-rings.
- **Mounting:** 4 each 20 mm diameter holes on 200 mm bolt circle.
- **Controller Housing:** NEMA 4x fiberglass.
- **Operating Temperature:** -40°C to +55°C

ELECTRIC CONTROL MODULE

- **Input:** 120/240 VAC 50-60 HZ, 20-30 Volts DC. Reverse polarity protected.
- **Power:** Maximum 100 W on flash to maintain Lumen Maintenance L (70). 1.0 watt quiescent current. 4 selectable power level settings.
- **Synchronization** terminals for UNIFLASH® III wireless synchronization system or hardwired sync circuit.
- **256 Selectable** flash rhythms.
- **ATONIS** ready for AIS Msg 21 and Msg 6 monitoring

See related products catalog sheets:

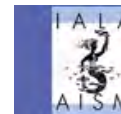
FA-250LED MR for Medium Range (12 nm) Lantern

FA-250LED LR-HA for Class I Div 2 Rated Lantern

FA-250LED L-864 for FAA (ETL) certified L-864 Beacon

Form No.: 121411F

*Patent No.: US 7,461,952 B2



FA-250LED LR 1x16-C

PHOTOMETRIC DATA (conforms to IALA chromaticity and 90th percentile intensity standards)

Beam: 360 degrees horizontal. Uniformity within +/-15%.
Vertical Divergence: 3.2 degrees to 50%; 8 degrees to 10%
Lumen Maintenance (L): 70% at 60,000 hours (highest achievable for existing LED technology)

3-Tier LED PHOTOMETRICS (CD-Fixed)

Input Power, W	WHITE-C	RED	GREEN	YELLOW
690	59 230		30 450	18 850
540	46 800		23 790	14 730
360	32 530	12 458	15 855	9 820
180	16 265	6 237	7 950	4 915
90	8 140	3 120	3 975	2 460

2-Tier LED PHOTOMETRICS (CD-Fixed)

460	39 500		20 300	12 570
360	29 000		15 860	9 820
240	19 350	8 305	10 570	6 545
120	9 675	4 153	5 285	3 270
60	4 850	2 080	2 650	1 640

1-Tier LED PHOTOMETRICS (CD-Fixed) Long Mirrors

120	10 500	4 568	5 815	3 600
60	5 800	2 284	2 907	1 800
30	3 000	1 144	1 458	900

Specifications subject to change without notice

