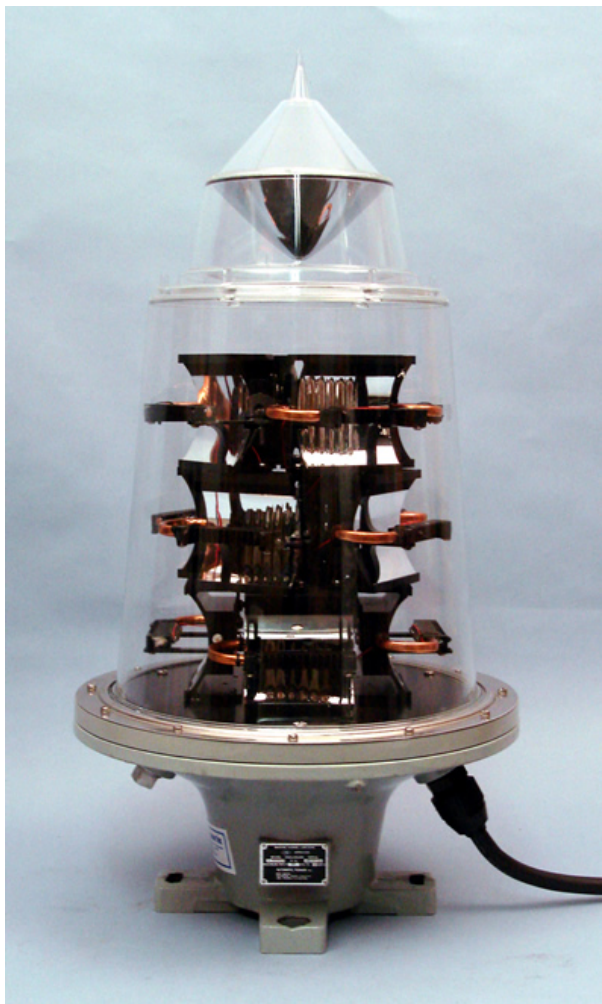


FA-250 LED LR/15

15 Mile LED Marine Signaling Lantern



The FA-250 LED LR is a long range LED optic with a nominal range of up to 23 nautical miles. The light 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 LED's are mounted on specially designed heat sinks to keep the temperature of the LED below 50°C to assure the design life of 50,000 hours. 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).

TECHNICAL DATA

- **Cover:** Precision-molded, high-temperature, acrylic.
- **Lighting Source:** Stacked array of high flux, high efficiency 1x16 LED Light Engines.

PHOTOMETRIC DATA

- **Beam:** 360 degrees horizontal. Uniformity within +/-15%.

3-Tier LED PHOTOMETRICS (CD)

Input Power, W	WHITE	RED	GREEN	AMBER
690	43500	23925	30450	15708
540	33990	18695	23790	12275
360	22650	12458	15855	8180
180	11340	6237	7950	4095
90	5670	3120	3975	2048

2-Tier LED PHOTOMETRICS (CD)

460	29000	15950	20300	10472
360	22660	12463	15860	8183
240	15100	8305	10570	5453
120	7550	4153	5285	2726
60	3780	2080	2650	1365

1-Tier LED PHOTOMETRICS (CD)

230	14500	7975	10150	3665
180	11330	6232	7930	2864
120	7550	4153	5285	1908
60	3780	2080	2650	957
30	1890	1340	1325	478

MECHANICAL DATA

- **Height:** 750 mm. Weight: 20 kg.
- **Materials:** Precision heat tolerant acrylic cover. Cast aluminum base and frame. Stainless steel fittings and neoprene o-rings.
- **Mounting:** 4 each 20mm diameter holes on 200 mm bolt circle.

ELECTRIC CONTROL MODULE

- **Input:** 120/240 VAC 50-60 HZ or 10.5-40 Volts DC reverse polarity protected. Restrictions apply.
- **Power:** Maximum 180 W average per duty cycle. 1.0 watt quiescent current. 12 selectable power level settings.
- Synchronization terminal for UNIFLASH® II/III wireless synchronization system or hardwired sync circuit.
- 256 Selectable flash rhythms.

External Power Supply required in all Lights with 120 watts or more.

Internal power Supply available on 1-tier 1x16 LED Light Engines (20-40 VDC only).

Version A: 10.5-30 VDC External Controller

- Maximum 180 watt average per duty cycle
- A1=1 tier, A2= 2 tier, A3= 3 tier

Version B: 20-40 VDC Internal Controller

- Maximum 120 watt average per duty cycle
- Available only B1=1 tier

Version C: 20-40 VDC External Controller

- Maximum 180 watt average per duty cycle
- C1=1 tier, C2= 2 tier, C3= 3 tier

Version D: 120/240 VAC External Controller

- Maximum 180 watt average per duty cycle
- D1=1 tier, D2= 2 tier, D3= 3 tier

PHOTOMETRIC DATA

- **Beam:** 360 degrees horizontal. Uniformity within +/-15%.

3-Tier LED PHOTOMETRICS (CD)

Input Power, W	WHITE	RED	GREEN	AMBER
690	43500	23925	30450	15708
540	33990	18695	23790	12275
360	22650	12458	15855	8180
180	11340	6237	7950	4095
90	5670	3120	3975	2048

Power Supply versions available: A, C, D

2-Tier LED PHOTOMETRICS (CD)

460	29000	15950	20300	10472
360	22660	12463	15860	8183
240	15100	8305	10570	5453
120	7550	4153	5285	2726
60	3780	2080	2650	1365

Power Supply versions available: A, C, D

1-Tier LED PHOTOMETRICS (CD)

230	14500	7975	10150	3665
180	11330	6232	7930	2864
120	7550	4153	5285	1908
60	3780	2080	2650	957
30	1890	1340	1325	478

Power Supply versions available: A, B, C, D

Patent No.: US 7,461,952 B2

