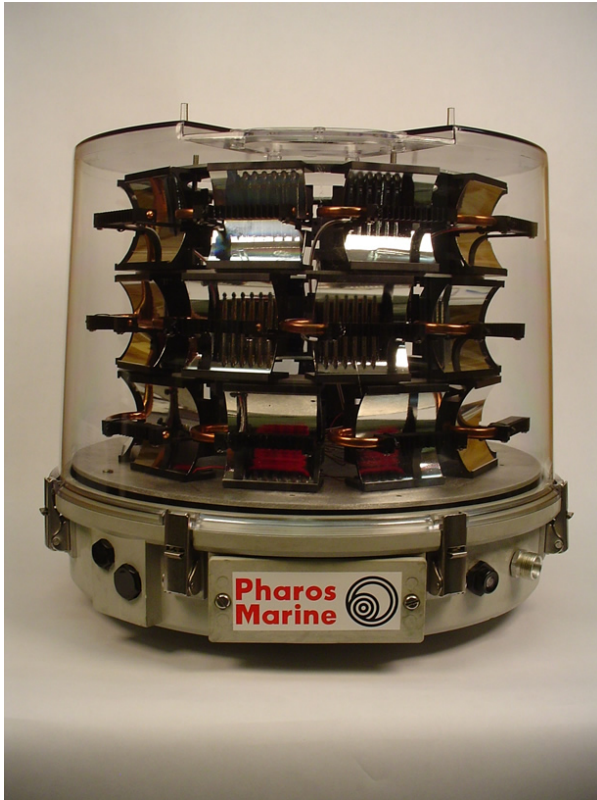


FA-410 LED LR Long Range LED Marine Lantern



The FA-410 LED LR signaling lantern is designed from lighthouse applications where a long range LED lantern is the preferred choice. The FA-410 is a unique combination of high intensity and optical efficiency giving the possibility of a nominal range in excess of 18 nautical miles ($t=0.74$) and 29 nautical miles ($t=0.85$). The light consists of a linear array of very high flux LEDs individually mounted in a parabolic reflector. The highly efficient reflector uses a state of the art dichroic hybrid spectral coating. Groups of reflectors are assembled in stacked arrays and the array system is driven by specially designed electronics. The individual LEDs are operated at a de-rated power setting and coupled to a unique cooling system which ensures that the LEDs are able to maintain intensity well beyond the life of current products. The temperature of the LED is kept below 50°C to assure the desired life of 50,000 hours. The exterior is a precision molded, high strength, high optical transmissivity acrylic cover. The FA-410 LED controller provides flash control, current limiting to the LED, photocell input (auto, forced on, forced off), synchronization terminal and AC transformer (if required).

TECHNICAL DATA

- **Cover:** 410 mm precision molded, high-temperature, acrylic cover.
- **Lighting Source:** Stacked array of high flux, high efficiency LED Light Engines.
- **Colors:** White, Red, Green, Blue & Amber

PHOTOMETRIC DATA

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

LED PHOTOMETRICS (CANDELA)

System Power (W)	WHITE	GREEN	RED
1040	75000	60000	
625	45180	36150	
375	27100	21680	14900
250	18070	14450	9940
System Power (W)	AMBER	BLUE	
1040	30000	26250	
625	18070	15800	
375	10840	9500	
250	7200	6300	

Vertical divergence is 3 degrees to 50% and 10 degrees to 10%.

MECHANICAL DATA

- **Height:** 500 mm. **Diameter:** 500 mm.
- **Weight:** 27 kg.
- **Materials:** Precision heat tolerant acrylic cover. Cast aluminum base and frame. Stainless steel fittings and neoprene o-rings.
- **Mounting:** 3 each M13 threaded inserts on 200 mm bolt circle.

ELECTRIC CONTROL MODULE

- **Input:** 120/240 VAC 50-60 HZ or 22-30 Volts DC reverse polarity protected.
- **Power:** Maximum 250W average per duty cycle. 3.6 watts quiescent current. Selectable power level settings.
- **Synchronization:** Terminal for UNIFLASH®III wireless synchronization system or hardwired synch circuit.
- **Flash Rhythm:** 256 Selectable Characters.
- **Photocell:** External or Internal Mount

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