

# FA-250 LED LR 5-Mile Gulf of Mexico Lantern



The FA-250 LED LR is highly efficient optic designed to meet the requirements of Gulf of Mexico offshore oil platforms. 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

- **Lens:** 250 mm precision-molded, high-temperature, acrylic cover.
- **Lamp:** Stacked array of high flux, high efficiency LED's.

## PHOTOMETRIC DATA

- **Beam:** 360 degrees horizontal. Uniformity within  $\pm 10\%$ .

## 1-Tier LED PHOTOMETRICS (CD)

| Input Power, W | RED  | WHITE | GREEN | AMBER |
|----------------|------|-------|-------|-------|
| 50             | -    | 1800  | -     | -     |
| 36             | 1130 | 1440  | 1365  | -     |
| 30             | 1005 | 1250  | 1270  | 700   |
| 15             | 560  | 740   | 700   | 475   |
| 6              | 240  | 350   | 360   | 240   |

Vertical divergence is 2.5 degrees to 50% and 10 degrees to 10%.

## MECHANICAL DATA

- **Height:** 28 " (711 mm). Weight: 25 lbs. (11 kgs.)
- **Materials:** Precision heat tolerant acrylic cover. Cast aluminum base and frame. Stainless steel fittings and neoprene gasket.
- **Mounting:** 4 each 20mm diameter holes on 200 mm bolt circle.

## ELECTRIC CONTROL MODULE

- **Input:** 10-30 Volts DC reverse polarity protected.
- **Power:** 50 watts on flash maximum. 0.1 watts quiescent current. Selectable power level settings.
- Synchronization terminal for UNIFLASH® II/III wireless synchronization system or hardwired sync circuit.
- 15 Pre-programmed flash rhythms plus 1 for user programming.
- Approved with 4 Watts Input by U. S. Coast Guard as a 5-mile Signal Lantern in the Gulf of Mexico.

## CERTIFICATIONS

- **Approved by the U. S. Coast Guard for use on Class A structures in the 8<sup>th</sup> Coast Guard District at 4 watts.**
- **Factory Mutual approved as Nonincendive for use in Class I, Division 2 Groups A, B, C & D, and Class I, Zone 2, Group IIC, Hazardous (Classified) Locations, for average power not to exceed 19.2 watts.**

NI/II/2/ABCD/T6 Ta  $\leq +49^{\circ}\text{C}$ /T5 Ta  $\leq +64^{\circ}\text{C}$ .  
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