

Medium Intensity Flashing Marine Signaling Lantern

Model FA-250LED MR



This medium intensity, omni directional, LED marine signaling lantern is designed for signaling applications with nominal **range requirements up to 10 nautical miles**. The light consists of a copper-free cast aluminum base and precision molded, UV stable, acrylic cover protecting high flux LED arrays mounted in a parabolic reflector. Groups of reflectors are stacked to optimize optical performance. The array system is driven by highly efficient proprietary electronics. The LED's are mounted on metal core PCB with a **patented** passive heat pipe cooling system keeping the temperature of the LED below 50° C **without fan cooling**. The LED's utilized in the lantern are state-of-the-art 3-watt LED's with 100 lumens per watt output. The FA-250LED MR AM-11 controller provides flash control, current limiting to the LED, photocell input, and synchronization terminal. .

Technical data:

Cover: Precision-molded, high-temperature, UV-stabilized clear acrylic cover.

Optic: Stainless parabolic reflector with a state-of-the-art dichroic hybrid spectral metal coating.

Light Engine: 1X6X8 or 1X16X8 High flux 3 watt LEDs rated at 100 lumens per watt output.

LED Mounting Fixture: **Patented** integral heat pipe transports heat away from the LED and into the reflector housing.

Photometric data:

Beam: 360 degrees (H). 3.0 degrees (V).

Intensity: 4,000 candela max.

Flash Rhythm: 256 field selectable.

Mechanical Data:

No moving parts. Height: 750 mm. **Weight:** 20 kg.

Materials: Marine epoxy coated cast aluminum base. Anodized reflector housing. Stainless reflector.

Mounting: Four 15.5 mm (5/8") diameter holes, 90 degrees apart on a 200 mm (7 7/8") bolt circle,

Ingress Protection: IP-55, NMEA 4X

Operating Temperature: -40°C to +55°C.

AM-11 Electrical Control Module:

Input: 10.5-30 Volts DC. Reverse Polarity Protected.

Efficiency: Greater than 90%. Form N° 062409B

Location: Base of the lantern.

Power: 100 watts maximum on flash. 75 watts maximum fixed. 1.6 watts quiescent.

Photocell Sensing Circuit:

Synchronization: Terminal for UNIFLASH® III wireless GPS synchronization system or hardwired synch circuit. Uniflash III consumes 20 millamps average power.

Photometric Data

2-Tier LED PHOTOMETRICS (CD)

Power, W	WHITE	GREEN	RED	AMBER
100	3950	-	-	-
90	3650	3150	-	-
72	3220	2820	2260	-
60	2700	2470	2005	1400
30	1620	1270	1130	725
15	740	725	560	385

Vertical divergence is 3.5 degrees to 50% and 11.5 degrees to 10%.

1-Tier LED PHOTOMETRICS (CD)

50	1800	-	-	-
36	1440	1365	1130	-
30	1250	1270	1005	700
15	740	700	560	475
6	350	360	240	240

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



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Patent No.: US 7,461,952 B2

