

Medium Intensity Flashing Red Obstruction Light

Model FLOB-250.24V

FAA L-864 and ICAO Annex 14, Chapter 6

This medium intensity, omnidirectional, red obstruction light complies with FAA L-864 for a flash rate of 20 flashes per minute. The light consists of an aviation red, FA-250 lantern containing six each, 24 volt, 150 watt, prefocused, high pressure halogen, marine signal lamps mounted on a six-place flashchanger. When the operating lamp fails, the flashchanger automatically rotates the next lamp into precise focal position. When all lamps have failed, the flashchanger automatically posts a failure alarm. The flashchanger accepts any input from 24.2 to 30 volts and uses a pulse width modulated regulator to operate the lamp at 24.0 volts giving 2000 hours of life per lamp and 12,000 total hours of lamp life for the optic. With the built-in photocell daylight control and operating at a 50% duty cycle, the optic has approximately 24,000 hours of lamp life.

Technical data:

Lens: 250 mm acrylic fresnel lens with red lens cover (30% filter factor).

Lamps: Prefocused, T-4 envelope, C-8 filament, 150 Watt, 2000 hours at 24 Volts.

Photometric data:

Fixed Peak Beam Candlepower: 1965 cd in aviation red.

Beam: 360 degrees horizontal. 3.2 degrees vertical to 50%.

Equivalent Fixed Intensity: 1530 cd at 1.5 second flash duration and 20 flashes per minute.

Mechanical Data:

Height: 30 inches. **Weight:** 35 lbs.

Materials: Precision, acrylic lens, clear acrylic lens cover assures long term, reliable optical performance by preventing moisture and debris buildup in exposed lens facets, corrosion resistant cast aluminum base, stainless steel fittings, double silicone-rubber lens gasket.

Mounting: 4 each 5/8 inch diameter holes on 7 7/8 inch bolt circle. Bird Spike provided at top of optic. Lanterns hinged at midpoint for relamping.

Electrical Data:

Input: 24-30 Volts DC. **Power:** 75 watts continuous. **Supply:** 24 Volt Solar Power System or, if mains are available, a DC power supply with various AC inputs, or, 24 Volt battery charger/battery bank.

Failure of last lamp of flashchanger posts an open collector alarm condition for monitoring. Also available with RS-485 monitoring interface for monitoring and remote control of lampchanger.

Synchronization terminal for UNIFLASH II wireless synchronization system or hardwired synch circuit.



Automatic Power Inc

Post Office Box 230738 • Houston, Texas 77223 • (713) 228-5208 Telex: 76-2653 • Fax (713) 228-3717

COMPARISON WITH CONVENTIONAL L-864 LIGHTS

Low power consumption--75.0 watts DC versus 1200-1500 watts AC.

Extended maintenance interval--24,000 hrs versus 3,000 hrs.

Reliability--six filaments versus two filaments.

Balance of System--12 Amp Surge Current requirements versus 120 Amp Surge Current allows design engineer to greatly reduce cable sizing, etc.

Flexible Power--24 Volt solar power, battery charger/batteries, or 24 Volt power supply versus commercial AC power.