

## Model IOB-85

### Optimized for Extended Maintenance Intervals

This low intensity, omnidirectional, red obstruction light complies with the requirements of ICAO Annex 14 6.3.11. The light consists of a precision molded 85mm red polycarbonate lenses mounted on a conventional single or double, cast-aluminum, aviation obstruction light base. Several options are available for operation. For a single/double lantern, a microprocessor based controller is mounted in the base of lantern to provide photocell control, voltage regulation, flash control (optional), synchronization, RS-485 communications interface and lampout switching to a secondary lamp. The microprocessor accepts any input from 12.0 to 30 volts and uses highly efficient, pulse width modulation voltage regulation to operate the nominal 12-Volt incandescent lamp over a selectable voltage range between 10.0 and 12.0 Volts. Lamp life is varied between 1000 and 11,000 hours and intensity between 50% and 100%. With the built-in photocell daylight control, each optic has several years of lamp life.

#### Technical data:

Lens: 85 mm aviation red, polycarbonate, fresnel lens.

Lamps: Prefocussed, S-8 envelope, CC-8 filament, Krypton-filled, Incandescent, 11,000 hours at 10.0 Volts.

#### PHOTOMETRIC/ELECTRICAL DATA

12Volt Lamp	Candela (red)	Power (watts)
0.5 Amp	10.5	4.5
1.0 Amp	25	9.0
2.0 Amp	50	18.0
3.0 Amp	69	27.0
35 Watt*	140	33.0

Intensity with 10 Volts at the lamp. Power consumption at 10.0 Volts at the lamp. \*High Pressure Halogen Lamp with 11,000 hour life operated at 10.9 Volts.

Beam: 360 degrees horizontal. Center of vertical beam is +10 degrees.

#### Mechanical Data:

Materials: Polycarbonate (Lexan®) lens, copper free cast aluminum base, quick opening stainless steel fittings, silicone-rubber lens gasket.

Mounting: 3/4 " NPT Hole.

Bird Spike provided at top of optic.

#### Electrical Data:

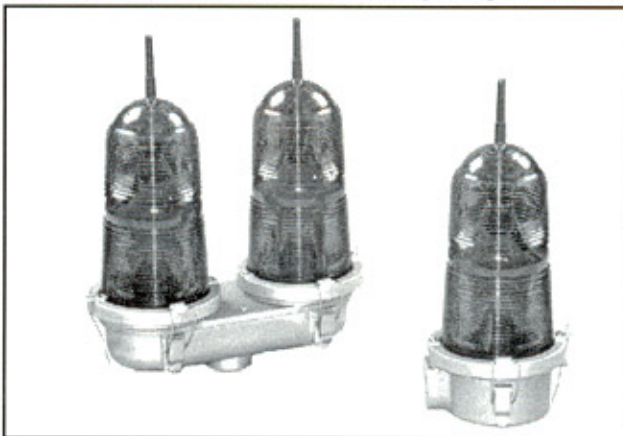
Input Voltage: Any voltage over the range of 10.3-30 Volts DC.

Supply: 12, 18, or 24-Volt Solar Power System. DC power supply with various/220/240 AC inputs. Battery charger/battery bank.

#### Dimensions:

Height: 18 1/2 inches. Weight: 6.5 lbs.

Shipping Volume: 2 cu ft. Shipping Weight: 10 lbs.



### MODEL IOB-85 SINGLE AND DOUBLE UNITS

#### COMPARATIVE ADVANTAGES

Low Power Consumption--4.5 Watts for 10 candela output.

Extended Lamp Life--11,000 hours of lamp life.

Flexible Power--12/24 Volt solar power, 12/24 battery charger/batteries, or 12/24 Volt power supply with 120V/220V/240V input.

Safety--No dangerous voltages on the tower.

Standardized Lighting System--Same lighting system regardless of the power input at the base of the tower.

(12/9/96)



**Automatic Power Inc**