

## **Detailed Description - Pharos Marine Automatic Power**

The 250mm lantern includes an optical system, a hinged support ring, a base, brackets for lampchanger and flasher, and integral means for focusing, leveling and sighting.

### **Optical System**

The optical system consists of a lens cover, a Fresnel lens, and when required, one or two condensing panels.

### **Lens Cover, Part No. 8086-0005, 8086-0006, 8086-0007 or 8086-0008.**

The lens cover protects the Fresnel lens and furnishes the desired color.

1. It is available in clear, red, green or amber, meeting requirements of MIL-C-25050 (ASG) Type 1, for chromaticity.
2. An azimuth scale on the flange, marked from 0° to 180° in 2° increments, provides easy reference for installation of condensing panels. The flange is notched at the 0° point to align with an "arrow mark" on the lens support ring.
3. Five V-shaped teeth under its flange engage with and provide means for locking the condensing panels in place.
4. An alignment sight at the top provides means for precise aiming on station when used with condensing panels.

### **Fresnel Lens, Part No. 8086-0009**

The Fresnel lens refracts the flux incident upon it from the lamp into a parallel 360° beam.

1. The lens is 250mm in diameter (at focal center) 315mm high, and contains 63 dioptic ring elements.
2. Two focusing holes opposite two "X's" at the focal plane provide means for accurate centering of the lamp filament, which is essential for optimum performance.
3. The Fresnel lens is made in clear only.