

FA-143 LED Sectored Swing Bridge Light

Automatic Power has adapted its standard Heavy-Duty FA-143 Bridge Lantern with a specialized LED array/sectoring system that allows **one lantern to provide both red or green sectored lights required on swing span bridges.**

The FA-143 Marine Lantern is a robust, heavy-duty fixture of cast aluminum construction finished with clear alodine and a polyurethane coating. It has a sturdy one-piece molded, tempered-glass 200mm Fresnel lens and stainless steel hardware and lens-protection rods (angled to minimize shadows in the optical plane). The FA-143 has proven to have a service life of at least twenty years in the most severe environmental conditions where synthetic materials fail. The lantern is hinged at the middle to facilitate access to the LED array, control electronics and power supply. The electronics incorporate lightning and surge-suppression circuitry that automatically resets after an incident.



The Swing Bridge Light consists of four LED's (alternating red-green-red-green) arranged in a symmetric array around the focal point of the lens. An insert providing 30° blanking between the adjoining LED's allows only one color to be seen at any viewing angle.

Since these LEDs have a life of 50,000 hours, array replacement should be scheduled **EVERY 10 YEARS**, for lanterns that are photocell-controlled (and every 5 years if lanterns operate 24 hours per day).

Light intensity exceeds 50 candelas in both red and green. This exceeds U.S. Coast Guard requirements in virtually all locations.

FA-143-LED PHOTOMETRICS

LED POWER	RED CANDELA	LED POWER	GREEN CANDELA
5.5 WATTS	150	5.5 WATTS	150

Red/Green 1x2x2 (Report # 3717)

0° >150cd	± 2° >50cd	± 4° >25cd	± 6° >10cd
± 8° >6cd	± 10° >5cd	± 15° >3cd	± 30° >1cd

The FA-143-LED Bridge Navigation Light features a stud base which matches a 2" pipe coupling flange on bridge fenders or galvanized steel swivel suspension.

Options include:

- (a) Internal shock mounts for the electronics.
- (b) External shock mounts for the light assembly
- (c) Exterior vandalism shield
- (d) 12-volt DC power supply (for solar or battery operation)
- (e) Individual photocell-controlled sun switches.

Form N° 050310

