

FA-143 LED BRIDGE LIGHT

Automatic Power has fitted its most rugged signal lantern with technically advanced light emitting diodes (LEDs) to provide an extremely reliable bridge navigation light with a very long service life. No routine maintenance is required and power consumption is less than 7 watts.

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 approximately twenty years in decades of service 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.



High output, low power LEDs are arranged in a redundant, symmetric array around the lens focal point. Control electronics and a 120 VAC power supply are located inside the lantern below the array. These incorporate lightning and surge-suppression circuitry that automatically resets after an incident. As an option, all electrical components may be mounted on internal shock and external vibration isolators for railroad and other high vibration bridges.

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

The FA-143-LED Bridge Navigation Light features a stud base which matches a 2" pipe coupling flange. Usually these are mounted on galvanized steel swivel suspensions (our FA-230) from the bridge deck or on pedestals on the bridge fenders.

FA-143-LED PHOTOMETRICS

LED POWER	RED CANDELA	LED POWER	GREEN CANDELA
4.3 WATTS	50	4.2 WATTS	49

Doubled output with Duplex Lights. Vertical divergence of 25 degrees, to 10% intensity.

Options include a 12-volt DC power supply (for solar or battery operation) and individual photocell-controlled sun switches.

To reduce vandalism of the lights a clear lexan exterior shield and a padlock are optional items.