



FA-143 LED BRIDGE LIGHT

The FA-143 has proven to have a service life of approximately 20 years in the most severe environmental conditions where synthetic materials fail. The FA-143 LED bridge light is a rugged signal lantern with technically advanced LEDs that provide an extremely durable and reliable bridge navigation light with a very long service life.

Features

- High output, low power LEDs arranged in a redundant, symmetric array around the lens focal point
- No routine maintenance is required and power consumption is less than 7 watts
- Stainless steel hardware and lens-protection rods (angled to minimize shadows in the optical plane)
- 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)
- Control electronics and a 120 VAC power supply located inside the lantern below the array
- Lantern hinge at the middle to facilitate access to the LED array, control electronics and power supply
- Lightning and surge-suppression circuitry that automatically resets after an incident
- Light intensity exceeding 45 candelas in both red and green (This exceeds U.S. Coast Guard requirements in virtually all locations)
- Optional internal shock and external vibration isolators for railroad and other high vibration bridges
- Optional 12-volt DC power supply (for solar or battery operation) and individual photocell-controlled sun switches
- Optional clear Lexan exterior shield and padlock to help reduce vandalism



Since the LEDs have a life of **60,000 hours**, array replacement should be scheduled every **10 YEARS** for lanterns that are photocell-controlled and every **5 years** for lanterns operating 24 hours a day.

SPECIFICATIONS

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Height:	597 mm (23.5")
Weight:	14 kg (30 lbs.)
Input Voltage:	6, 12, 24 VDC or 120, 240 VAC
Power Consumption:	4.4 watts (Red), 4.2 watts (Green)
Available Colors:	Red, Green
Quiescent Current:	< 10mA
Lens Type:	Tempered-glass 200 mm Fresnel lens
Visibility:	85 cd (Red), 79 cd (Green)
Vertical Divergence:	25° to 10% Intensity
Monitor and Control:	Optional
Synchronization:	Optional
Lantern Housing:	Cast Aluminum Finished with Clear Alodine and Polyurethane Coating
Mounting:	Dependent Upon Model (FA-143078 or FA-143079)
Operating Temperature:	-40°C to 55°C, Dependent Upon Configuration
Ingress Rating:	IP-X6

*Specifications subject to change without notice.

PHOTOMETRICS

LED POWER	RED CANDELA	LED POWER	GREEN CANDELA
4.4 WATTS	85	4.2 WATTS	79

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

