Pharos Marine Automatic Power

BROCHURE

FA-410 LED LR

Long Range Marine Lantern

OVERVIEW

The FA-410 LED LR signaling lantern is designed for lighthouse applications where a long range LED lantern is the preferred choice. The light is a unique combination of high intensity and optical efficiency giving the possibility of a nominal range in excess of 20 nautical miles (T=0.74) and 29 nautical miles (T=0.85), depending on color and flashing character.

KEY FEATURES

- FA-410 LED LR consists of a linear array of very high flux LEDs individually mounted in a parabolic reflector
- The highly efficient reflector uses a state of the art dichroic hybrid spectral coating; groups of reflectors are assembled in stacked arrays and the array system is driven by specially designed electronics
- LED arrays are coupled to a unique patented cooling system which ensures that the LEDs are able to maintain intensity well beyond the life of competing products; temperature of the LEDs is kept below 100°C at maximum power level to assure the long life of 60,000 hours
- The controller provides flash control, current limiting to the LED, photocell input (auto, forced on, forced off), synchronization terminal and AC converter (if required)
- Terminals for UNIFLASH® III wireless synchronization system or hardwired sync circuit (Optional)
- Lanterns can be mounted up to 500 meters away from external electronics (some restrictions apply, consult factory)
- Terminals for UNIFLASH®III wireless synchronization system or hardwired sync circuit
- 255 + 1 Selectable character Flash Rhythm (one selectable)
- 15+1 selectable power level settings (one selectable)
- External or Internal mount Photocell
- ATONIS ready for AIS Msg 21 and Msg 6 monitoring

PHYSICAL SPECIFICATIONS

Height	889mm (35”)
Weight	41 kg (90 lbs.)
Input Voltage	120/240 VAC 50-60 Hz or 22-30 Volts DC
Power Consumption	Maximum 300W Average Per Duty Cycle
Avaliable Colours	White, Green, Yellow, Blue, Red
Quiescent Current	3.6 Watts
Lens Type	410 mm Precision Molded, Acrylic Cover
Lantern Housing	Aluminum
Viability	360° Omnidirectional;
Range	Up to 20 NM, Depending on Color & Flash Rate
Vertical Divergence • White • All Other Colors	 5° to 50%; 12° to 10% 3° to 50%; 10° to 10%
Monitor and Control	Optional
Synchronization	UNIFLASH®III Wireless Synchronization System or Hardwired, Sync Circuit (Optional)
Mounting	(4) 16mm (.625”) Thru Hole 90° Apart
Operating Temperature	-20°C to +40°C

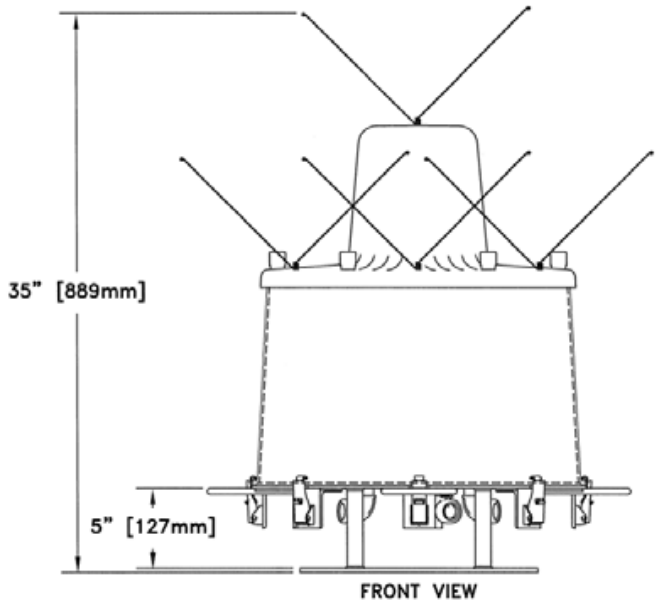
LED PHOTOMETRIC DATA (CANDELA)

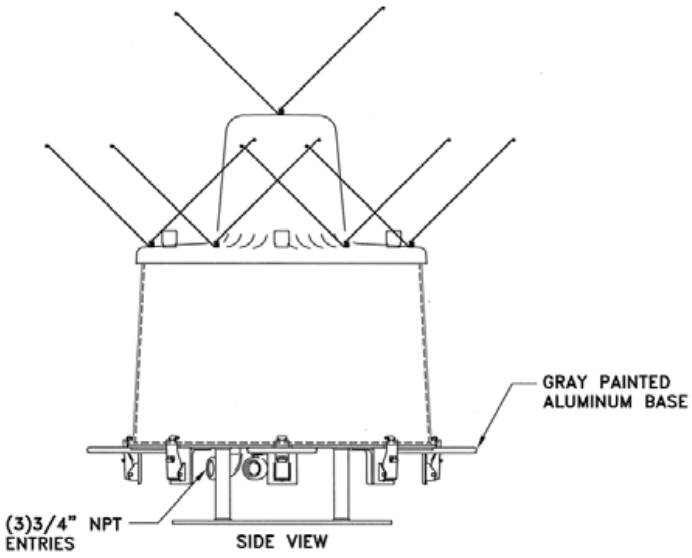
System Power, W	Green	Yellow	Blue	Red
1 040	60 000	36 000	26 250	24 600
625	36150	21 690	15 800	21 900
375	21 680	13 010	9 500	14 900
250	14 450	8 640	6 300	9 940

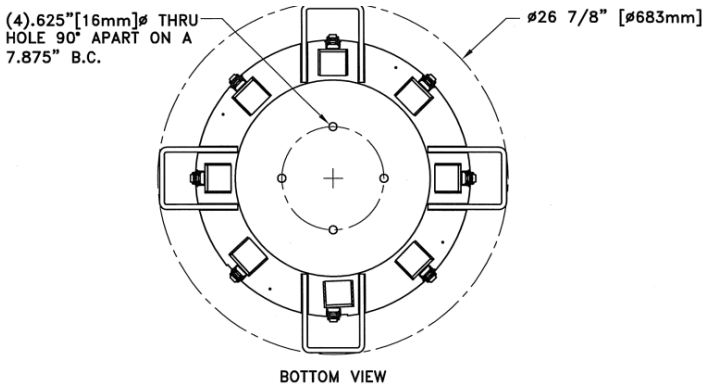
LED PHOTOMETRIC DATA (CANDELA)

System Power, W	White-C	Maximum Duity Cycle
1 524	172 608	20%
1 137	127 896	26%
849	98 585	35%
462	58 851	65%

Photometric Data Conforms to IALA Chromaticity and 90th Percentile Intensity Standards
*Consult factory for full intensity table.







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All values are subject to change without notice.

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