



DATE: _____

PROJECT: _____

FIRM: _____

INSTALLER: _____

NOTES: _____

High-output submersible luminaire with intelligent Monochromatic LED's

The F-Series line of underwater marine lighting fixtures is designed to be mounted a depth of up to 4.6 m (15 ft) below the water's surface to provide vibrant White light in the water. With watertight aluminum bronze housings and silicon bronze hardware, Metro Marine's F-Series luminaires are perfect for marine-based applications such as mounting to yachts, docks, sea walls, as well as for use in fountains and theme park installations. Leveraging Metro's rich legacy of innovation and leadership in optics & LED control technology, the F-Series underwater lighting fixtures introduce a unique LED array to the market with 18 H.O. LEDs per fixture, allowing close adjacent fixture placement where fully-mixed, uniform light is important.

The F-PMR1-W3-45 is a superior underwater White LED luminaire with 45° optical lensing for lighting mid- to large-scale structures and yachts ranging from 10 m (32 ft) to 30 m (100 ft), with uniform color control, and high efficiency.

- Rugged and watertight: aluminum bronze housing with silicon bronze hardware is designed for submersion in water to a depth of 4.6 m (15 ft).
- Close mixing distance: F-Series luminaires feature 45° beam angle with 18 H.O. LEDs, utilizing custom optical lenses. This unique design virtually eliminates pixilation optically, providing beautiful consistent light, even at close range.
- Unified power and data cable: Each F-Series luminaire comes with a 3m (9.84 ft.) unified power and data cable to minimize wiring. Our F-Series luminaires are designed for use with Metro Marine's F-HB-4-MC3 power/data distribution Hubs.
- Temperature monitoring: The F-Series Luminaires have an internal temperature monitoring system that automatically reduces operation to protect the fixtures from damage in extreme operating temperatures.
- High output, underwater: This submersible luminaire offers vibrant high output monochromatic color. Long-life state-of-the-art Nichia LEDs significantly reduce or eliminate required maintenance, a major advantage for underwater installations.

For detailed product information, please refer to the F-Series Product Guide at www.Metro-Marine.com/support

SPECIFICATIONS*

*Due to continuous improvements and innovations, specifications may change without notice.

Output

Beam Angle: 45°

Lumens (Maximum): 4078.4 lm

Efficiency (lm/W): Maximum 101.2 lm/W

Electrical

Input Voltage: 10VDC - 30VDC

Power Consumption: 43 W

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.Metro-Marine.com/support

Control

Switched Control (On/Off)

Lumen Maintenance

Threshold Ambient Temperature Reported Calculated

L50 25 °C > 66,000 > 100,000 50 °C > 66,000 > 100,000

Physical

Dimensions: W:10"(254mm) H:7"(177.8mm) D:2.87"(72.89mm)

Net Weight: 1.23 kg (2.71 lb)

Housing Material: Die-cast marine aluminum bronze, polished finish

Lens: Clear Quartz

Luminaire Connections: Integral male/female IP68 connectors.

Temperature Ranges

-40 to 50 °C (-40 to 122 °F) Operating

-20 to 50 °C (-4 to 122 °F) Startup

-40 to 80 °C (-40 to 176 °F) Storage

Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours
Humidity 0 to 95%, non-condensing.

Luminaire Run Lengths

To calculate luminaire run lengths and total power consumption for your specific installation, contact www.metro-marine.com/support

Certification and Safety

Approbation, Lloyd's Register(Pending), ABS(Pending) , ABYC Compliant.
Environment Wet Location, IP68 Submersible up to 4.6 m (15 ft)

LUMINAIRE and ACCESSORIES

Use Item Number when ordering in North America

Luminaire Item Number

F-Series Single Color, ITEM#: F-PMR1-W3-45, Luminaire only. Accessories sold separately.

Accessories

F-Series Single Color Hub: F-HB-4-MC3
Single Color, 3 Meter, Jumper Cable: F-MC-3M-EX
Piling Mount: F-R1-PMT