



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 at 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 hardware, Metro Marine's F-Series luminaires are perfect for mounting to yachts and boats. 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-BMR1-W3-45 is a superior underwater White LED luminaire with 45° optical lensing for lighting boat and yachts ranging from 10 m (32 ft) to 30 m (100 ft) with uniform color control, and high efficiency.

- Rugged and watertight: Metro's aluminum bronze housing and 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 dramatically, 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 marinelighting.com/support

This product is covered by U.S. Patent No(s) 10,436,437; 10,517,972; 10,786,584; 12,092,309
Additional patents pending.
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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.metromarinelighting.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: Ø: 139.13mm(5.47") D: 28.60mm(1.12")

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.metromarinelighting.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-BMR1-W3-45, Luminaire only. Accessories sold separately.

Accessories

F-Series Single Color Hub: F-HB-4-MC3

Toggle Switch: SW-01-TGL

Push On / Push Off Switch: SW-R1-PSW

Single Color, 3 Meter, Jumper Cable: F-MC-3M-EX

Single Color, 8 Meter, Jumper Cable: F-MC-8M-EX

Single Color, 15 Meter, Jumper Cable: F-MC-15M-EX