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METRO MARINE F-PMR1-W3-45 F-Series Single Color Round Fixture Instructions

Contents

METRO MARINE F-PMR1-W3-45 F-Series Single Color Round Fixture

Product Information

The F-Series Single Color Round Fixture (Model: F-PMR1-W3-45) is a high-output submersible luminaire with intelligent Monochromatic LED's. It is designed for use in wet locations and has a submersible rating of up to 4.6 meters (15 feet). The fixture is made of die-cast marine aluminum bronze with a polished finish and features a clear quartz lens. It has an input voltage range of 10VDC – 30VDC and a power consumption of 43W. The luminaire is corrosion-resistant and complies with the ASTM B117 standard for over 1,500 hours of exposure. It is also humidity-resistant up to 95% non-condensing.

Product Usage Instructions

1. Ensure that the input voltage range of your power source is between 10VDC and 30VDC.
2. Install the F-Series Single Color Round Fixture in a suitable location, taking into consideration its submersible rating of up to 4.6 meters (15 feet).
3. Connect the luminaire using the integral male/female IP68 connectors.
4. Use the switched control to turn the fixture on or off.

Note: For detailed product information and specifications, please refer to the F-Series Product Guide available at **www.metro-marine.com/support**.
To calculate luminaire run lengths and total power consumption for your specific installation, please contact **www.metro-marine.com/support**.

Luminaire 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

Note: The accessories are sold separately. When ordering in North America, use the respective item numbers provided.
For any additional information or inquiries, please contact Metro Marine at:

- **Address**: 11 Smith Street Englewood, NJ 07631
- **Phone**: 212-477-2727
- **Email**: **info@metro-marine.com**
- **Website**: **www.metro-marine.com**

High-output submersible luminaire with intelligent Monochromatic LED's

The F-Series line of underwater marine lighting fixtures is designed to 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 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.

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

For detailed product information, please refer to the F-Series Product Guide at **www.Metro-Marine.com/support**
11 Smith Street Englewood, NJ 07631 212-477-2727 **info@metro-marine.com** **www.metro-marine.com**
This product is covered by U.S. Patent No(s) 10,436,437; 10,517,972; 10,786,584, additional patents pending ©
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- DATE:
- PROJECT:
- FIRM:
- INSTALLER:
- NOTES:

Documents / Resources

	METRO MARINE F-PMR1-W3-45 F-Series Single Color Round Fixture [pdf] Instructions F-PMR1-W3-45 F-Series Single Color Round Fixture, F-PMR1-W3-45, F-Series Single Color Round Fixture, Single Color Round Fixture, Color Round Fixture, Round Fixture, Fixture

References

- ⚓ **Marine.com Just Listed For Sale**
- ⛵ **Support | Metro Marine**