



*Fortis Round displayed**



*Fortis Round displayed**



*Fortis Square displayed**



*Fortis Square displayed**

FORTIS IP67 Recessed Downlight

Quick Facts

- Class 2 Fixture, Remote Powered up to 50m (150ft) max (driver specific)
- Minimal fixture opening - 10 mm (3/8")
- Visible louver 55x55mm or Ø55mm
- 64mm (2-1/2") recess depth required
- 12W Cree LED
- Up to 1000lm from source
- Available in Warm White (2700K) and Soft White (3000K)
- Color Rendering Index ≥90
- 2-step SDCM ellipse for accurate color consistency between fixtures
- Full dimming range via remote power supply
- Suitable for installation in drywall, wood, stone, and metal ceilings
- Suitable for wet locations (IP67)
- Type IC Rated, Plenum Rated, Airtight Rated
- Patented Product
- Engineered and made in Germany

Description

The FORTIS is a cutting-edge lighting solution engineered specifically for marine applications. With a robust IP67 rating, the FORTIS is designed to endure the demanding conditions of life at sea, delivering exceptional performance and durability. Its sleek, round profile integrates seamlessly into any boat or yacht, while the field-serviceable design features a magnetically removable LED module for quick and easy maintenance.

Construction

- Extruded aluminum fixture body
- 50,000 hours LED lifetime
- Approximate fixture weight: 260g (0.57lbs)
- Operating Temperature: 10°C to 50°C
- The light source is not replaceable. In case of an LED failure, the entire luminaire must be replaced.

Fixture Size

- Minimal fixture opening - 10 mm (3/8")
- Visible louver 55x55mm or Ø55mm
- Recess Depth: 64mm (2-1/2")
- Heat Sink: 55mm x 55mm (2 - 3/16" x 2 - 3/16") or Ø55mm (Ø2 - 3/16")

Light Output

- High performance Cree LED, available in various color temperatures
- 1000lm source light output
- 2-step SDCM ellipse
- Color rendering index (CRI) min. 90
- Integral microprocessor controlled thermal protection

Electrical Specifications

- Constant Current 500-1000mA programmable, 12V DC (Class 2, 12W Power Consumption)
- Electrical wiring made of fine-stranded, nickel-plated copper wire according to IEC 60092-NORM and VDE 0295, Class 5
- Conductor insulation: Polytetrafluoroethylene (PTFE), 2YI1 according to VDE 0207 Part 6
- Outer sheath: Polytetrafluoroethylene (PTFE), 2YM1 according to VDE 0207 Part 6
- Color: Black
- Temperature range of wire: -15°C to +90°C, max. conductor temperature temporarily up to +300°C
- Remote Constant Current 500-1000mA programmable driver required
- Dimming options: push/DALI (or) Phase Dimming drivers available
- Recommended wire, min. 16 AWG plenum rated (CMP, when required) up to 50m (150ft) from remote transformer

Installation

- The FORTIS is fixed and held in place using four magnets on an adjustment nut (steel, galvanized) within an aluminum housing (ship-side).
- Fixture Weight: 260g (0.57 lbs)
- Total tensile force: 2.3 kg (5.07 lbs) (actual)
- Safety: 9-fold (actual)
- Custom installations for wood, metal and stone ceilings. Requires shop drawings available per request by Apure.
- The Fortis series is not suitable for installation within steam rooms or saunas!

Listings

- CE Conform
- Suitable for Wet Locations, IP67
- Type IC Rated, Plenum Rated, Airtight Rated

Resources

Scan QR Code or visit at apurelighting.com/resources/



Resources

ORDERING INFORMATION

SERIES

- ☐ AF - Fortis

MODEL

- ☐ R - Round
☐ S - Square

TYPE

- ☐ 1 - LED

ORIENTATION

- ☐ F - Fixed

FIXTURE FINISH

- ☐ BR - Brass
☐ WH - White Powder Coat
☐ GM - Gunmetal Matte
☐ SS - Stainless Steel

TEMPERATURE (CCT)

- ☐ 27 - Warm White (2700K)
☐ 30 - Soft White (3000K)

COLOR RENDERING INDEX

- ☐ 90 - ≥90

OPTICS (DEGREE)

- ☐ S - Spot (20°)
☐ F - Narrow Flood (40°)

DIMMING PROTOCOL

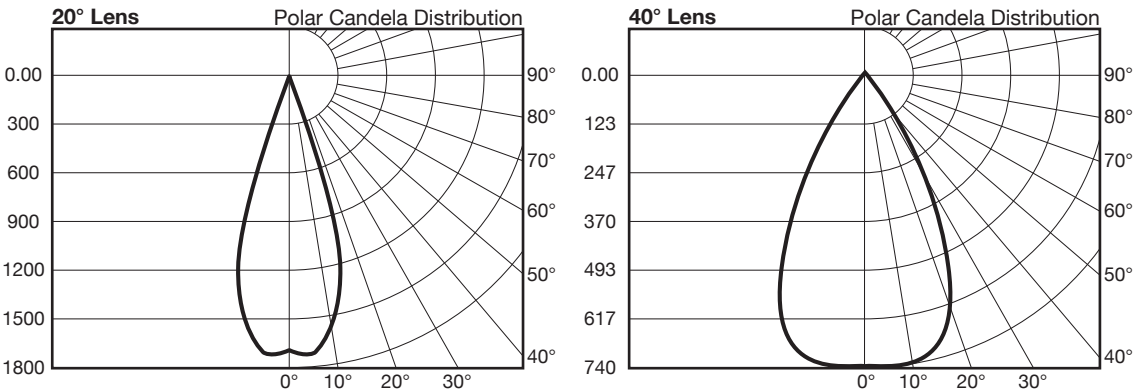
- ☐ CC - DALI-2 / Phase Dim (500-1000mA Constant Current, 12VDC)*

*remote powered fixture, power supply required

ORDERING EXAMPLE

AFR1FWH3090FCC

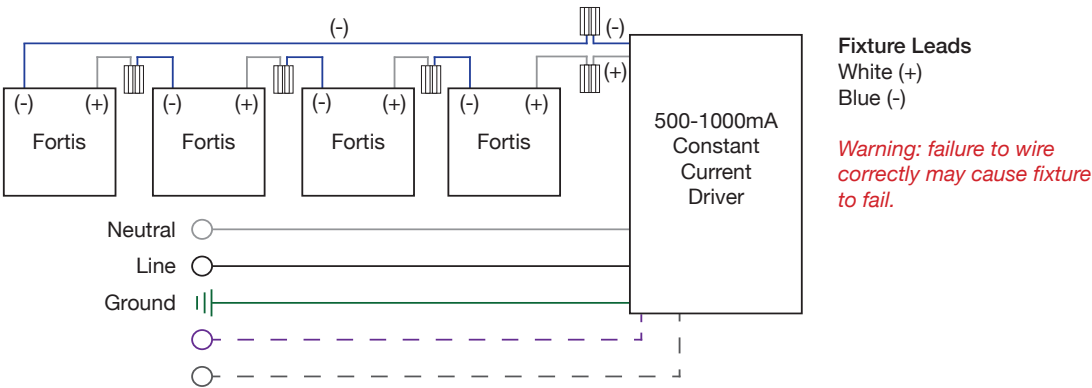
LED Photometrics



Customizable Housing Housing/Enclosure		Thickness Adjustable*	Requirement N/A
Optional Accessories IP Louver Tool	Part Number 2012-902026	Thickness N/A	Requirement N/A
Remote Power Supply for CC Variant Apure Phase Dimmable (1000mA 26W) Apure Phase Dimmable (1000mA 65W) KGP DALI 2 NFC Touch Dim (500-1000mA 53.2W)**	Part Number AA32202DEU AA32205DEU AA3DALI2EU	Input Voltage 220-240Vac 220-240Vac 220-240Vac	Listings CE CE CE

*Fixture is adjustable to specific ceiling thicknesses.
**Driver enclosure required where applicable.

Wiring Diagram for Constant Current Fixtures - [CC]



Additional Considerations
The above wiring diagram applies only to Constant Current Fortis products with product ordering codes ending with "CC" or "EU". The diagram above shows the typical wiring schematic, however the total number of fixtures per driver is driver specific. The drivers below are 500-1000mA programmable.

• Apure Phase Dimmable (500-1000mA 26W)	1-2 Fortis	16AWG - 82ft (25m)
• Apure Phase Dimmable (500-1000mA 65W)	3-5 Fortis	16AWG - 82ft (25m)
• KGP DALI 2 NFC Touch Dim (500-1000mA 53.2W)	1-4 Fortis	16AWG - 150ft (50m)

WARNING: The power supply must operate within the range of minimum to maximum fixtures. Operation with less or more fixtures from the specified amount will result in damage to the power supply and/or lighting fixture. Incorrectly wiring the Constant Current lighting fixture may cause luminaire to fail.