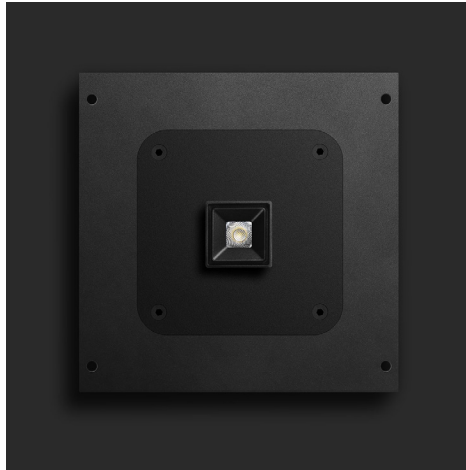




MINUS MARINE TWO Minimal Recessed

Quick Facts

- Class 2 Fixture, Remote Powered up to 50m (150ft) max (driver specific)
- Minimal fixture aperture - 25mm (1")
- 19mm (3/4") recess depth required
- 12W Cree LED
- Up to 1000lm from source (IES files available upon request)
- 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, and stone ceilings
- Suitable for dry, damp and wet locations (IP67)
- Type IC Rated, Plenum Rated, Airtight Rated
- Patented Product
- Engineered and made in Germany



Description

Featuring the never-before-developed lighting hardware and software of the MINUS MARINE ONE, recessed in less than 25 mm (1”), the MINUS MARINE TWO by Apure exhibits a unique Louver, designed and perfected by Studio F·A·Porsche. Distributing glare-free “invisible” light in either a 20 or 40 degree beam spread, the true to size luminaire powerfully illuminates spaces, while ensuring ceilings remain entirely unrevealed.

Construction

- Extruded aluminum fixture body, featuring Apure’s signature louver designed by Studio F·A·Porsche
- 50,000 hours LED lifetime
- Approximate fixture weight: 720g (1.58lbs)
- Operating Temperature: 10°C to 50°C

Fixture Size

- Visible Aperture: 25mm x 25mm (1” x 1”)
- Recess Depth: 19mm (3/4”)
- Heat Sink: 120mm x 120mm (4 - 3/4” x 4 - 3/4”)

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 1000mA 12V DC Input (Class 2, 12W Power Consumption)
- Remote 1000mA Constant Current Driver Required
 - 0-10V 0.1% Dimming (or) 1-10V/Push/DALI (or) Phase Dimming drivers available
 - Electrical wiring made of fine-stranded, nickel-plated copper wire according to IEC 60092-NORM and VDE 0295, Class 5
 - Recommended wire, min. 16 AWG plenum rated (CMP, when required) up to 82ft from remote transformer

Installation Types

- Drywall installation for new construction and retrofit installations possible with the Universal Drywall Bracket, available for various drywall thicknesses.
- Custom installations for wood, metal and stone ceilings. Requires shop drawings available per request by Apure.
- Profile installation in the LINIAR System. See the LINIAR System cutsheet for more details.
- The Minus series is not suitable for installation within steam rooms or saunas!

Listings

- UL Listed, CE Conform, Type IC Rated, Plenum Rated, Airtight Rated
- Suitable for dry, damp and wet locations (IP67)

Resources / Installation Videos

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



Resources



Videos



ORDERING INFORMATION

SERIES

- ☐ AM - Minus Series

MODEL

- ☐ 2 - Minus Two

TYPE

- ☐ M - Marine

ORIENTATION

- ☐ F - Fixed

TEMPERATURE (CCT)

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

COLOR RENDERING INDEX

- ☐ 90 - ≥90

OPTICS (DEGREE)

- ☐ S - Spot (20°)
☐ F - Flood (40°)

DIMMING PROTOCOL

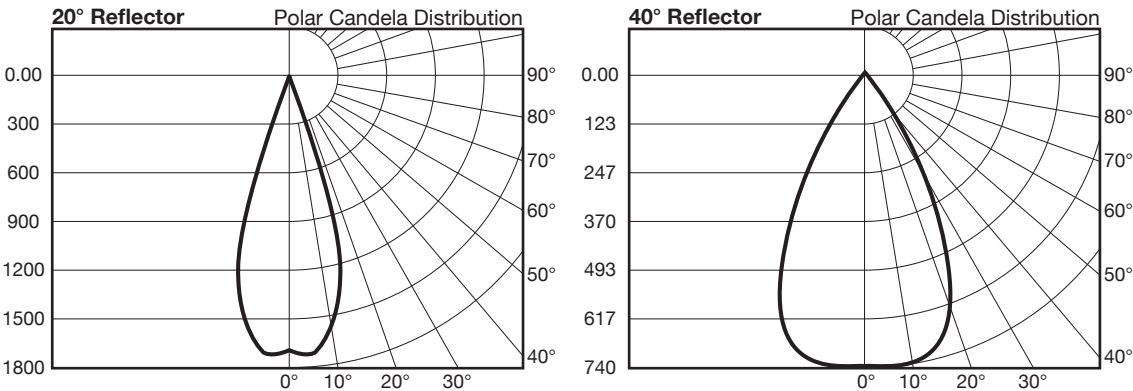
- ☐ CC - DALI-2 / Phase Dim (500-1000mA Constant Current, 12VDC)*

*remote power supply required

ORDERING EXAMPLE

AM2MF3090FCC

LED Photometrics



Drywall Accessories	Part Number	Thickness	Requirement
Universal Drywall Bracket	AM2BRKU10	10mm	Drywall Installations
Universal Drywall Bracket	AM2BRKU12	12.5mm	Drywall Installations
Universal Drywall Bracket - (Standard)	AM2BRKU15	15mm	Drywall Installations

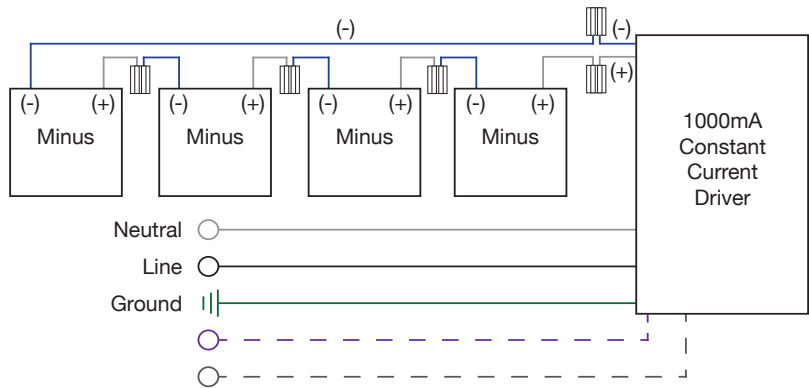
Remote Power Supply for CC or EU Variant - [CC]	Part Number	Input Voltage	Listings
Apure Phase Dimmable (1000mA 26W)	AA32202DEU	220-240Vac	CE
Apure Phase Dimmable (1000mA 65W)	AA32205DEU	220-240Vac	CE
KGP DALI 2 NFC Touch Dim (500-1000mA 53.2W)*	AA3DALI2EU	220-240Vac	CE

*Driver enclosure required where applicable.

Custom Installation Types

- The universal bracket (AM2BRKUXX) is intended only for drywall installations.
- System ceilings, stone, wood and metal ceiling integrations are accomplished through custom fabrication by others. Please note, not all materials are suitable for installation. However, Apure will make every effort to accommodate custom integrations. Please contact your authorized Minus reseller for more information regarding custom ceiling integrations.
- Fixtures must have a minimum clearance of 12 inches (30cm) below or horizontally from the light source at all times!
- Observe and follow all local and national installation codes for all installation types.
- Test and make sure that all fixtures are working properly before any mudding, painting or finishing occurs!
- Read and adhere to all instructions supplied with each power supply and fixture.
- Follow all instructions supplied by power supply / driver manufacturer!

Wiring Diagram for Constant Current Minus products - [CC]



Fixture Leads
White (+)
Blue (-)

Warning: failure to wire correctly may cause fixture to fail.

Additional Considerations

The above wiring diagram applies only to Constant Current Minus products with product ordering codes ending with "CC". The diagram above shows the typical wiring schematic, however the total number of fixtures per driver is driver specific.

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