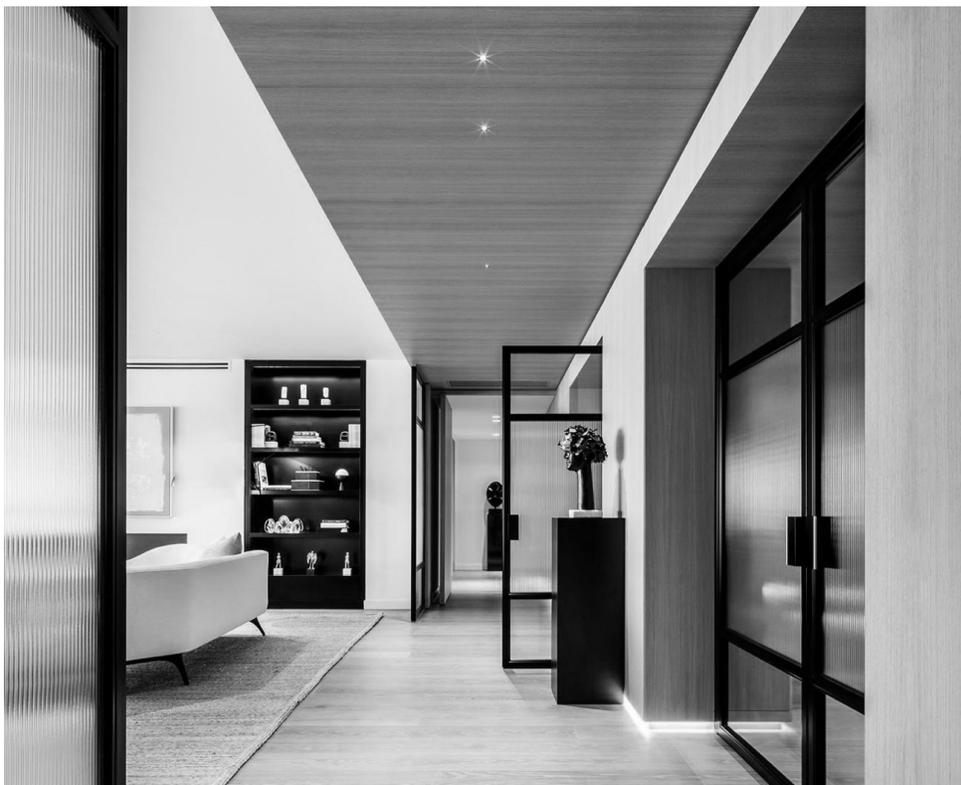




MINUS MARINE ONE Minimal Recessed

Quick Facts

- Class 2 Fixture, Remote Powered up to 50m (150ft) max (driver specific)
- Minimal fixture aperture - 10mm (3/8")
- 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 (0.1% to 100%) via remote power supply
- Suitable for installation in drywall, wood, metal 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

The MINUS MARINE ONE downlight brings sophistication to interior spaces with its never-before-seen performance. A single high performance LED is combined with precision-focusing optics to create an unprecedented light fixture. The high-tech design features a perfectly round 10 mm (3/8") aperture in either a 20 or 40 degree beam spread and includes various dimming protocols, each fully compatible with all major architectural lighting control systems.

Construction

- Extruded aluminum fixture body
- 50,000 hours LED lifetime
- Approximate fixture weight: 720g (1.58lbs)
- Operating Temperature: 10°C to 50°C

Fixture Size

- Visible Aperture: 10mm (3/8")
- 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.
- The Minus series is not suitable for installation within steam rooms or saunas!

Listings

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

Resources / Installation Videos

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



Resources



Videos



ORDERING INFORMATION

SERIES

- AM - Minus Series

MODEL

- 1 - Minus One

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

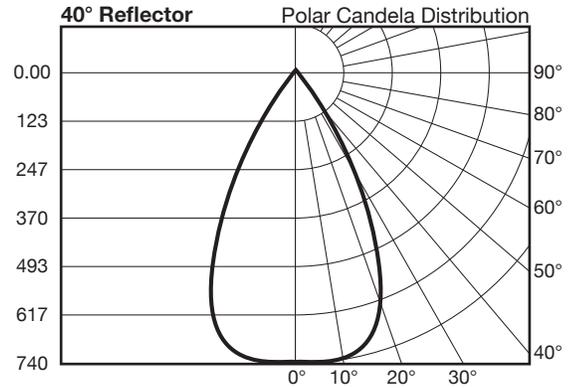
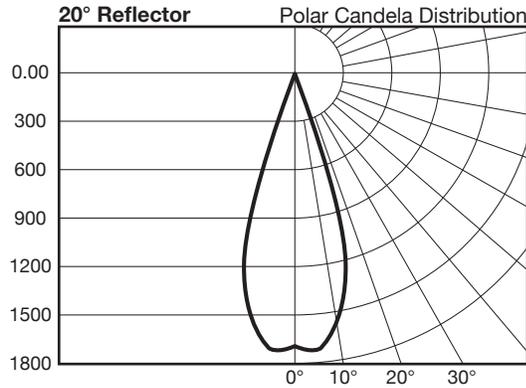
- CC - DALI-2 / Phase Dim (500-1000mA Constant Current, 12VDC)*

*remote power supply required

ORDERING EXAMPLE

AM1MF3090FCC

LED Photometrics



Drywall Accessories

Universal Drywall Bracket

Universal Drywall Bracket

Universal Drywall Bracket - (Standard)

Part Number

AM1BRKU10

AM1BRKU12

AM1BRKU15

Thickness

10mm

12.5mm

15mm

Requirement

Drywall Installations

Drywall Installations

Drywall Installations

Remote Power Supply for CC or EU Variant - [CC]

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

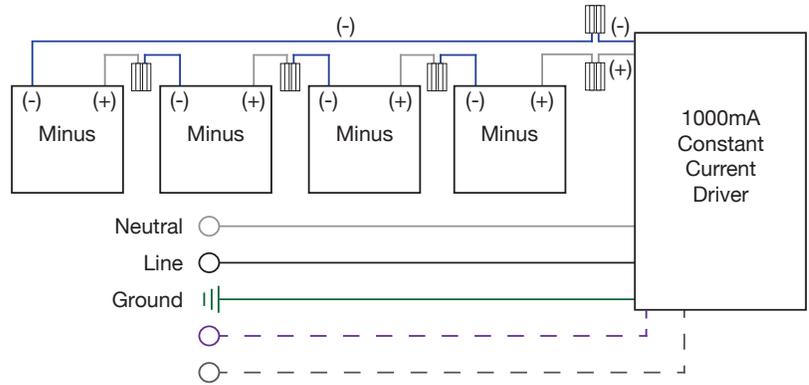
CE

*Driver enclosure required where applicable.

Custom Installation Types

- The universal bracket (AM1BRKUXX) 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.