<u>TYPE</u>

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MINUS FOUR Minimal Recessed

Quick Facts

- Class 2 Fixture, Remote Powered up to 45m (150ft) max
- Minimal fixture aperture 55mm (2 3/16")
- 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 and damp locations
- Type IC Rated, Plenum Rated, Airtight Rated
- Patented Product
- · Engineered and made in Germany



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Description

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The MINUS FOUR by Apure features a powerful reflector with 3 beam spreads, to accommodate the specialized requirements of architects and lighting designers. While in-keeping with the advanced technology and minimal depth of the entire MINUS Series, the visible 55 mm (2 3/16") Louver encompasses lenses and glare preventers, which produce uniquely flexible and extremely shallow, yet sophisticated, downlight illumination.

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: 55mm x 55mm (2 3/16" x 2 3/16")
- 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

24V DC Input (Class 2, 12W Power Consumption)

- 96W 24V DC Power Supply Required (powers up to 4 fixtures)
- · Magnetic Low Voltage (MLV) Dimming (or) 3-Wire Lutron Hi-Lume dimming protocols
- · Recommended wire, min. 16 AWG plenum rated (CMP, when required) up to 150ft from remote transformer

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
- · 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, Type IC Rated, Plenum Rated, Airtight Rated
- · Suitable for dry and damp locations

Resources / Installation Videos

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





Resources Videos

ORDERING INFORMATION

AM - Minus Series

MODEL 4 - Minus Four

DIMMING PROTOCOL

COLOR RENDERING INDEX

🗌 **1 -** LED

ORIENTATION **F** - Fixed

TEMPERATURE (CCT)

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

OPTICS (DEGREE)

S	- Spot	t (14°)	

N - Flood (32°)

F - Wide Flood (55°)

*remote powered fixture, power supply required

ORDERING EXAMPLE

AM41F3090FA

90 - ≥90

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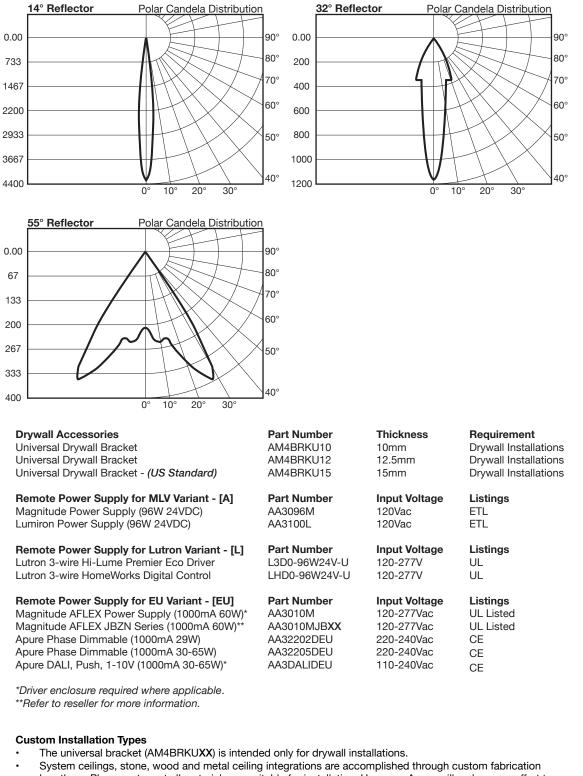
A - Magnetic Low Voltage (MLV) (24V)* L - Lutron 3-Wire Hi-Lume 0.1% (24V)*

EU - 0-10V / DALI / Phase Dim (12V)*

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LED Photometrics



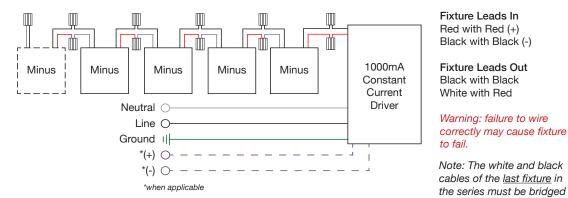
- by others. Please note, not all materials are suitable for installation. However, Apure will make every effort to accommodate custom integrations. Please contact your authorized Minus reseller for more information regarding custom ceiling integrations.
- Fixtures must have a minimum clearance of 12 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!

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Wiring Diagram for Constant Current Minus products - [EU]



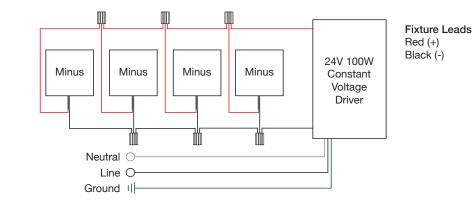
Additional Considerations

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

•	Magnitude AFLEX Power Supply (1000mA 60W)	1-4 Minus	16AWG - 82ft (25m)
•	Apure Phase Dimmable (1000mA 29W)	1-2 Minus	16AWG - 82ft (25m)
•	Apure Phase Dimmable (1000mA 30-65W)	3-5 Minus	16AWG - 82ft (25m)
•	Apure DALI, Push, 1-10V (1000mA 30-65W)	1-4 Minus	16AWG - 82ft (25m)

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.

Wiring Diagram for 24V Minus Products - [A] MLV or [L] Lutron



Additional Considerations

The above wiring diagram applies only to 24V Minus products with product ordering codes ending with "A" or "L". The diagram above shows the typical wiring schematic, however the total number of fixtures per driver is driver specific.

•	Magnitude Constant	Voltage Driver (96W 24VD0	C)
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- 1-4 Minus Lutron Hi-Lume Constant Voltage Driver (96W 24VDC) 1-4 Minus
- Lutron HomeWorks Constant Voltage Driver (96W 24VDC) 1-4 Minus

≤16AWG - 150ft (45m) ≤16AWG - 150ft (45m) ≤16AWG - 150ft (45m)

together!

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.