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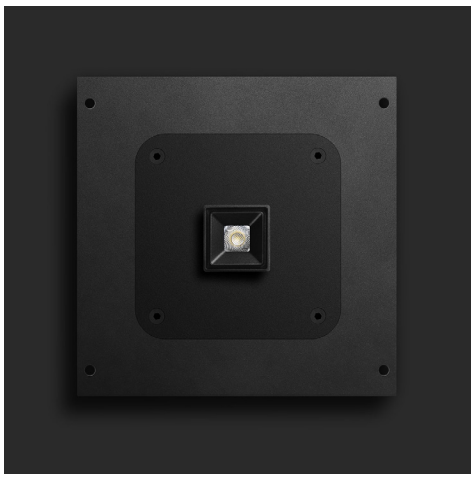
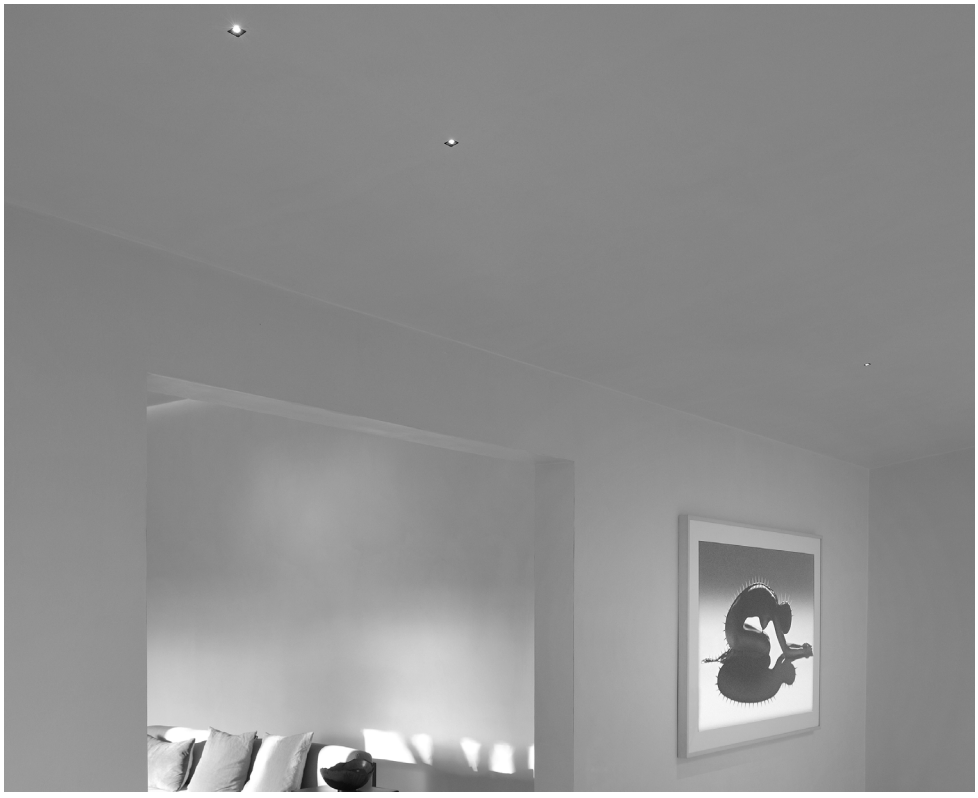


MINUS TWO Minimal Recessed

Quick Facts
- Class 2 Fixture, Remote Powered up to 45m (150ft) max
- 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 (IP43)
- Type IC Rated, Plenum Rated, Airtight Rated
- Patented Product
- Engineered and made in Germany



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Description
Featuring the never-before-developed lighting hardware and software of the MINUS ONE, recessed in less than 25 mm (1′′), the MINUS 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: 10ºC to 50ºC

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
24V DC Constant Voltage 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

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
• 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 (IP43)

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
☐ **1 -** LED

ORIENTATION
☐ **F -** Fixed

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

COLOR RENDERING INDEX
☐ **90 -** ≥90

OPTICS (DEGREE)
☐ **S -** Spot (20º)
☐ **F -** Flood (40º)

*remote power supply required
**Also cataloged as “EU”

DIMMING PROTOCOL
☐ **A -** Magnetic Low Voltage (MLV) (24V)*
☐ **L -** Lutron 3-Wire Hi-Lume 0.1% (24V)*
☐ **CC**** - 0-10V / DALI / Phase Dim (1000mA Constant Current, 12VDC)*

ORDERING EXAMPLE AM21F3090FCC

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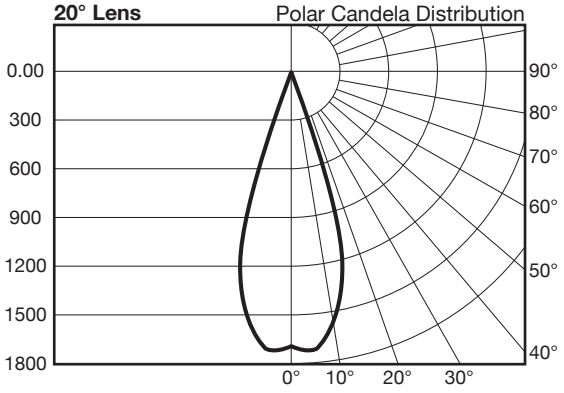
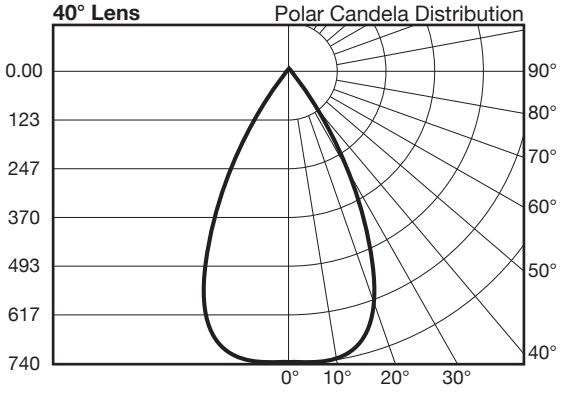
LED Photometrics

20° Lens Polar Candela Distribution



40° Lens Polar Candela Distribution



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

Profile System	**Part Number**	**Thickness**	**Requirement**
LINIAR System*	LS01**XX**	15mm	Drywall Installations

Remote Power Supply for MLV Variant - [A]	**Part Number**	**Input Voltage**	**Listings**
Magnitude Power Supply (96W 24VDC)	AA3096M	120Vac	ETL

Remote Power Supply for Lutron Variant - [L]	**Part Number**	**Input Voltage**	**Listings**
Lutron 3-wire Hi-Lume Premier Eco Driver	L3D0-96W24V-U	120-277V	UL
Lutron 3-wire HomeWorks Digital Control	LHD0-96W24V-U	120-277V	UL

Remote Power Supply for CC or EU Variant - [CC]	**Part Number**	**Input Voltage**	**Listings**
Magnitude AFLEX Power Supply (1000mA 60W)**	AA3010M	120-277Vac	UL Listed
Magnitude AFLEX JBZN Series (1000mA 60W)***	AA3010MJB**XX**	120-277Vac	UL Listed
Apure Phase Dimmable (1000mA 29W)	AA32202DEU	220-240Vac	CE
Apure Phase Dimmable (1000mA 30-65W)	AA32205DEU	220-240Vac	CE
Apure DALI, Push, 1-10V (1000mA 30-65W)**	AA3DALIDEU	110-240Vac	CE

**Refer to LINIAR cutsheet for more information*
***Driver enclosure required where applicable*
****Refer to reseller for more information*

Custom Installation Types

- The universal bracket (AM2BRKU**XX**) 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!

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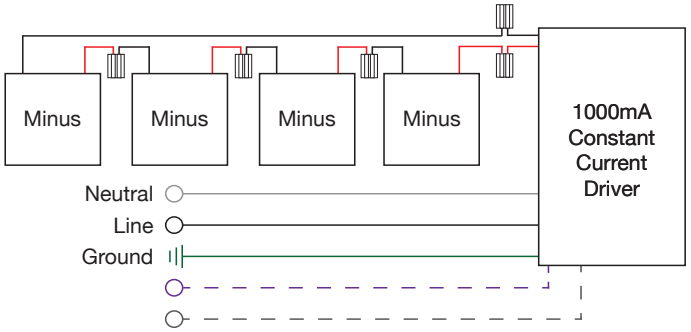
Wiring Diagram for Constant Current Minus products - [CC]



Fixture Leads
Red (+)
Black (-)

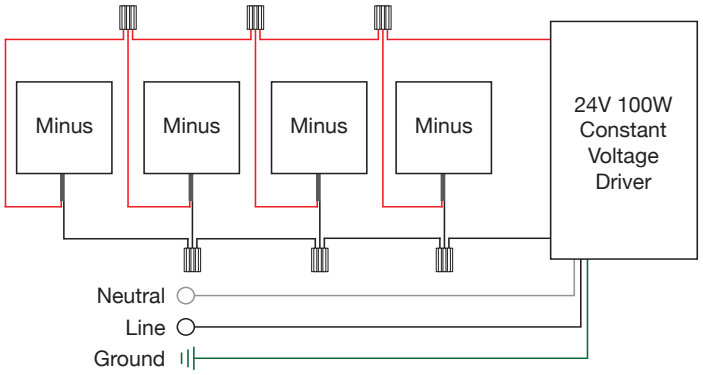
Warning: failure to wire correctly may cause fixture to fail.

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.

• 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



Fixture Leads
Red (+)
Black (-)

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 24VDC)	1-4 Minus	≤16AWG - 150ft (45m)
• Lutron Hi-Lume Constant Voltage Driver (96W 24VDC)	1-4 Minus	≤16AWG - 150ft (45m)
• Lutron HomeWorks Constant Voltage Driver (96W 24VDC)	1-4 Minus	≤16AWG - 150ft (45m)

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.

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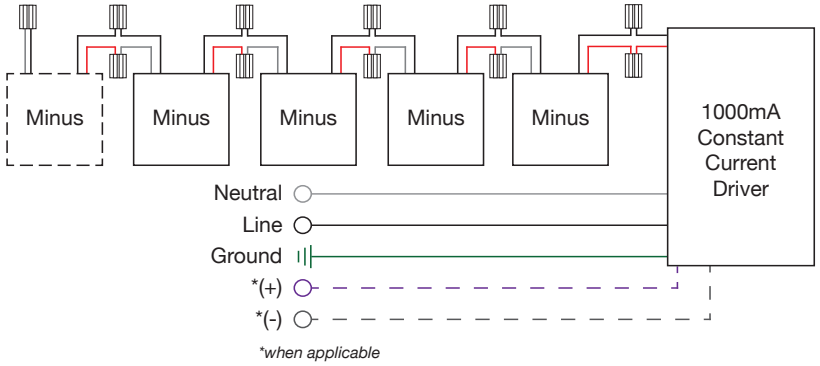
Wiring Diagram for Constant Current Minus products - [EU]



Fixture Leads In
Red with Red (+)
Black with Black (-)

Fixture Leads Out
Black with Black
White with Red

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

Note: The white and black cables of the last fixture in the series must be bridged together!

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.

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