

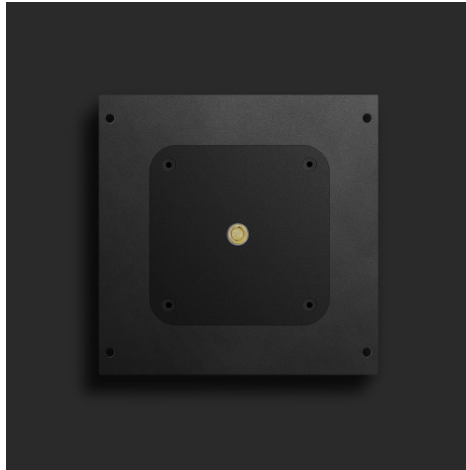


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Product Flipbook



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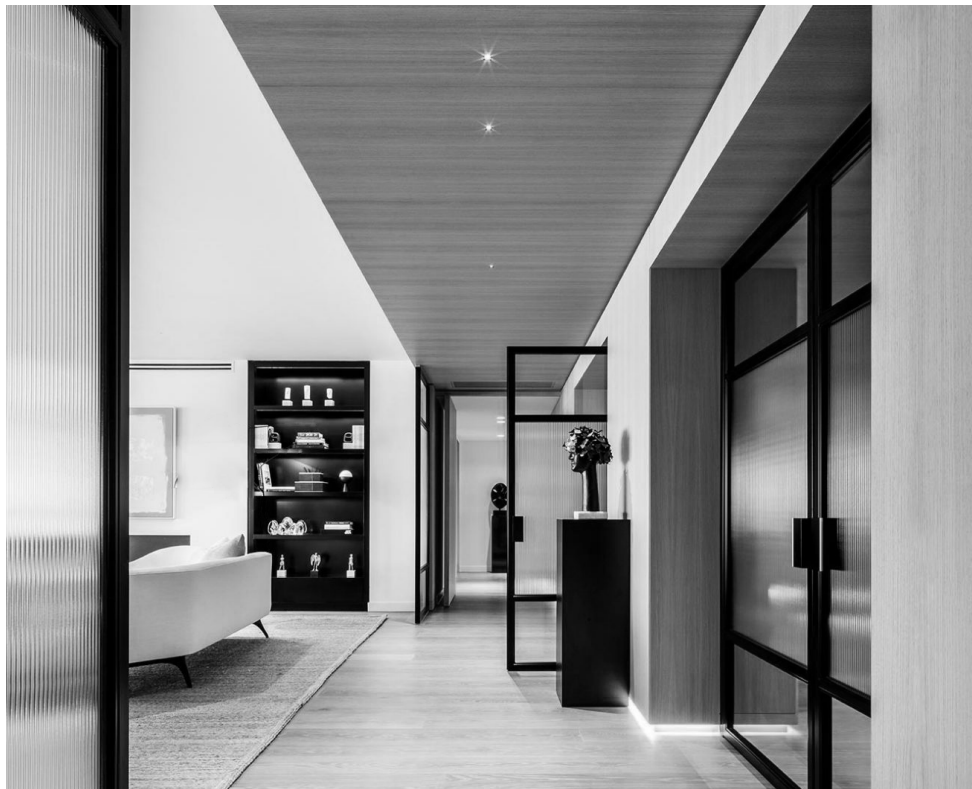




MINUS ONE Minimal Recessed

Quick Facts

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



Description

The MINUS 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

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
- Suitable for dry, damp and wet locations, standard IP43, IP66 (*upon request*)
- 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

- 1 - LED

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

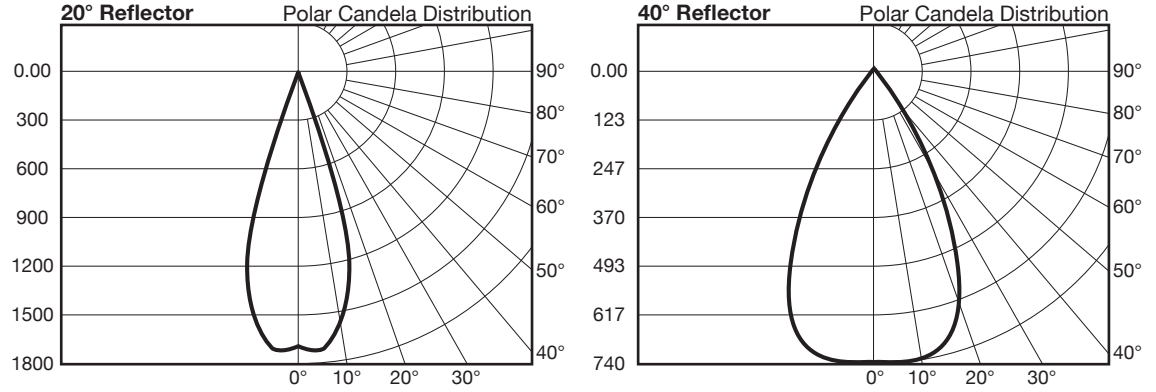
- A - Magnetic Low Voltage (MLV) (24V)*
 L - Lutron 3-Wire Hi-Lume 0.1% (24V)*
 EU - 0-10V / DALI / Phase Dim (12V)*

*remote power supply required

ORDERING EXAMPLE

AM11F3090FA

LED Photometrics



Drywall Accessories

Universal Drywall Bracket	AM1BRKU10	10mm	Drywall Installations
Universal Drywall Bracket	AM1BRKU12	12.5mm	Drywall Installations
Universal Drywall Bracket - (US Standard)	AM1BRKU15	15mm	Drywall Installations

Part Number

Thickness

Requirement

Remote Power Supply for MLV Variant - [A]

Magnitude Power Supply (96W 24VDC)	AA3096M	120Vac	ETL
Lumiron Power Supply (96W 24VDC)	AA3100L	120Vac	ETL

Part Number

Input Voltage

Listings

Remote Power Supply for Lutron Variant - [L]

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

Part Number

Input Voltage

Listings

Remote Power Supply for EU Variant - [EU]

Magnitude AFLEX Power Supply (1000mA 60W)*	AA3010M	120-277Vac	UL Listed
Magnitude AFLEX JBZN Series (1000mA 60W)**	AA3010MJBXX	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

Part Number

Input Voltage

Listings

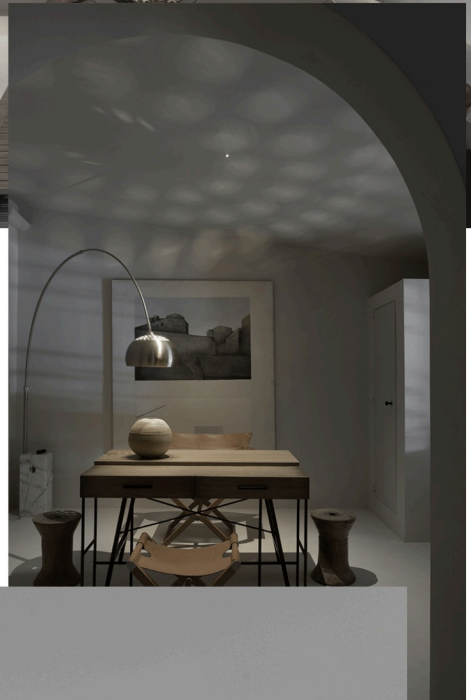
*Driver enclosure required where applicable.

**Refer to reseller for more information.

Custom Installation Types

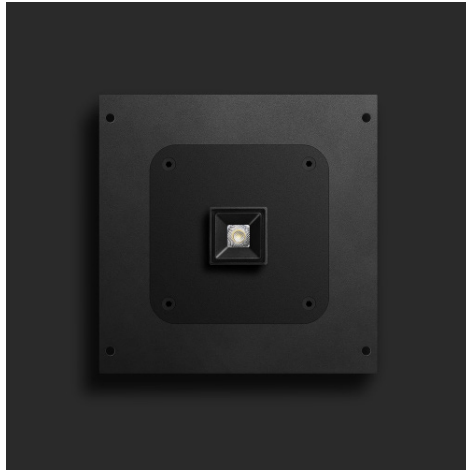
- The universal bracket (AM1BRKUXX) is intended only for drywall installations.
- System ceilings, stone, wood and metal ceiling integrations are accomplished through custom fabrication by others. Please note, not all materials are suitable for installation. However, Apure will make every effort to accommodate 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!

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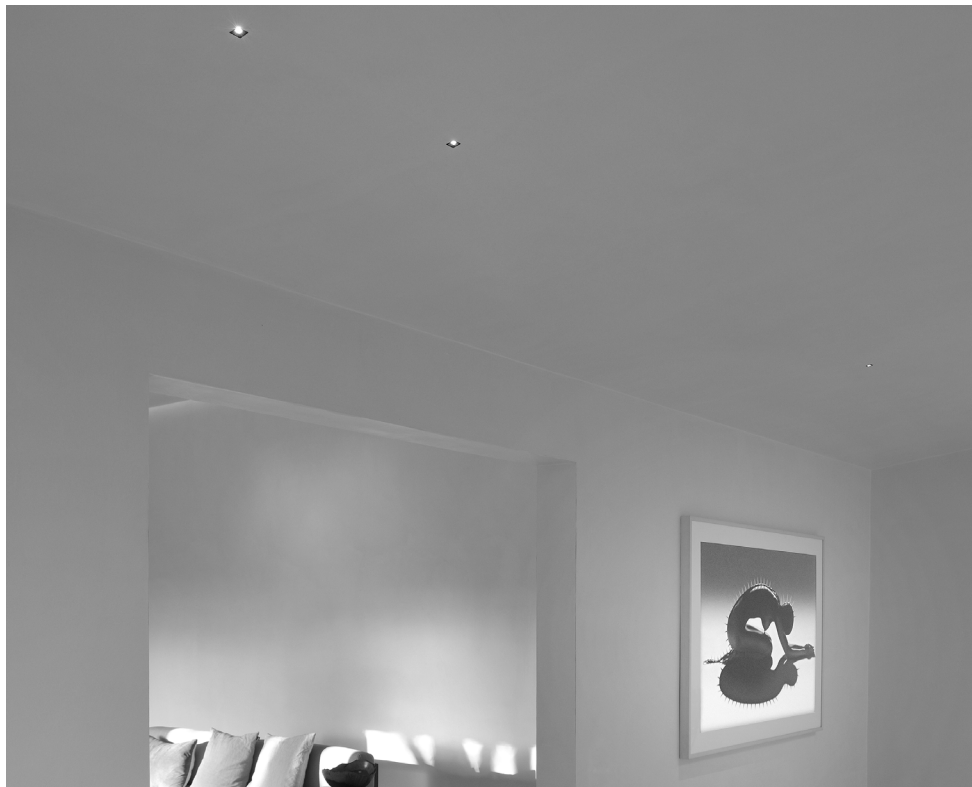
VISIONZ



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



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: 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

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.
- 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 (20°)
 F - Flood (40°)

DIMMING PROTOCOL

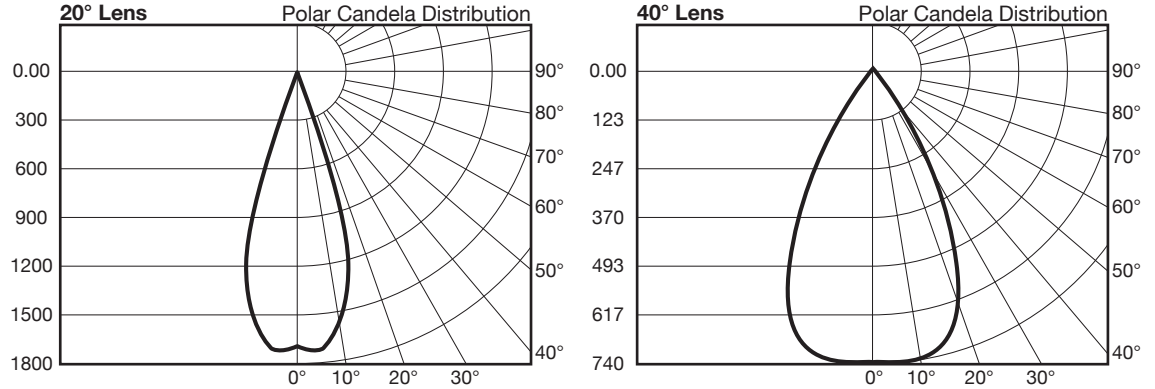
- A - Magnetic Low Voltage (MLV) (24V)*
 L - Lutron 3-Wire Hi-Lume 0.1% (24V)*
 EU - 0-10V / DALI / Phase Dim (12V)*

*remote power supply required

ORDERING EXAMPLE

AM21F3090FA

LED Photometrics



Drywall Accessories

Universal Drywall Bracket	AM2BRKU10	10mm	Drywall Installations
Universal Drywall Bracket	AM2BRKU12	12.5mm	Drywall Installations
Universal Drywall Bracket - (US Standard)	AM2BRKU15	15mm	Drywall Installations

Part Number

Thickness

Requirement

Profile System

LINIAR System*	LSXXXX	15mm	Drywall Installations
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Part Number

Thickness

Requirement

Remote Power Supply for MLV Variant - [A]

Magnitude Power Supply (96W 24VDC)	AA3096M	120Vac	ETL
Lumiron Power Supply (96W 24VDC)	AA3100L	120Vac	ETL

Part Number

Input Voltage

Listings

Remote Power Supply for Lutron Variant - [L]

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

Part Number

Input Voltage

Listings

Remote Power Supply for EU Variant - [EU]

Magnitude AFLEX Power Supply (1000mA 60W)**	AA3010M	120-277Vac	UL Listed
Magnitude AFLEX JBZN Series (1000mA 60W)***	AA3010MJBXX	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

Part Number

Input Voltage

Listings

*Refer to LINIAR cutsheet for more information

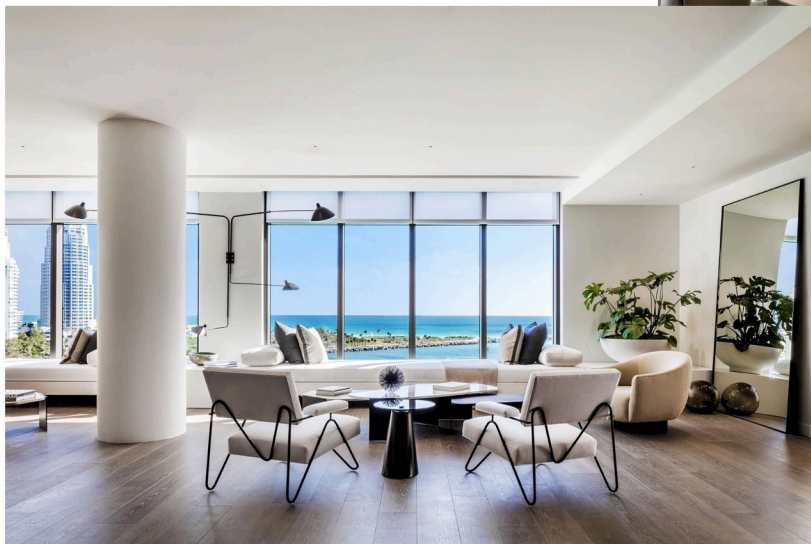
**Driver enclosure required where applicable

***Refer to reseller for more information

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!

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Apure Product Flipbook

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