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MINUS NANO Minimal Recessed

Quick Facts
- Class 2 Fixture, Remote Powered up to 25m (82ft) max
- Minimal fixture aperture - ø20mm
- 19mm (3/4”) recess depth required
- 12W Cree LED
- Up to 1000lm from source and 714lm delivered (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 locations
- Type IC Rated, Plenum Rated, Airtight Rated
- Patented Product
- JA8/Title 24 listed
- UL Listed
- Engineered and made in Germany

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Description
Enhance your space with the Minus Nano, Apure's newest addition to its award winning and patented Minus Series. Crafted for the discerning connoisseur, the Minus Nano embodies elegance and performance in perfect harmony. With interchangeable round snoots, available in various finishes, you can personalize the Minus Nano's design to match your individual style seamlessly at any time.

Construction
- Extruded aluminum fixture body
- 50,000 hours LED lifetime
- Approximate fixture weight: 680g (1.50lbs)
- Operating Temperature: 10ºC to 50ºC
- Threaded adjustable snoot

Fixture Size
- Visible Aperture: ø20mm
- 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, 714lm max delivered 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
- 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
- JA8/Title 24
- Suitable for dry and damp locations
- Type IC Rated, Plenum Rated, Airtight Rated

Resources / Installation Videos
Scan QR Code or visit at apurelighting.com/resources/

Resources

ORDERING INFORMATION

SERIES
☐ **AM -** Minus Series

MODEL
☐ **N -** Minus Nano

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 (16º)
☐ **N -** Narrow Flood (25º)
☐ **F -** Flood (55º)

DIMMING PROTOCOL
☐ **CC -** 0-10V / DALI** / Phase Dim** (1000mA Constant Current, 12VDC)

*remote powered fixture, power supply required
**currently not available for JA8 Title 24 fixtures

ORDERING EXAMPLE AMN1F3090FCC

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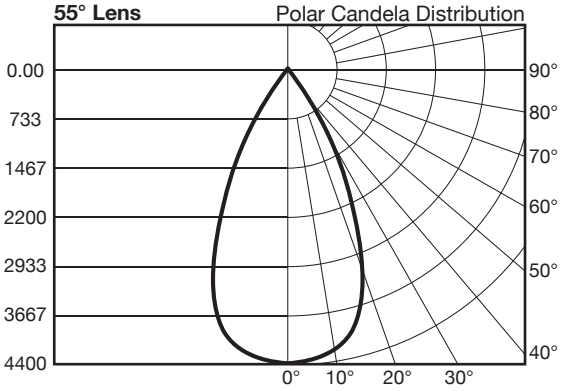
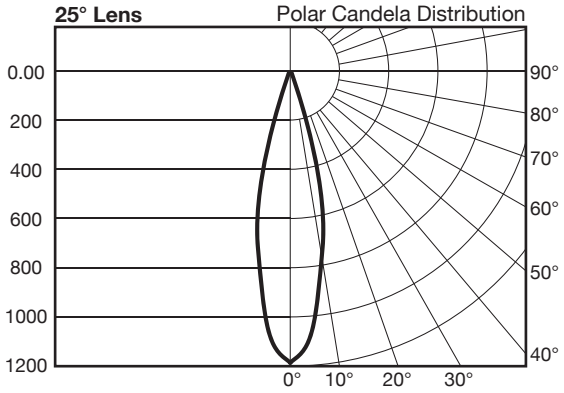
LED Photometrics

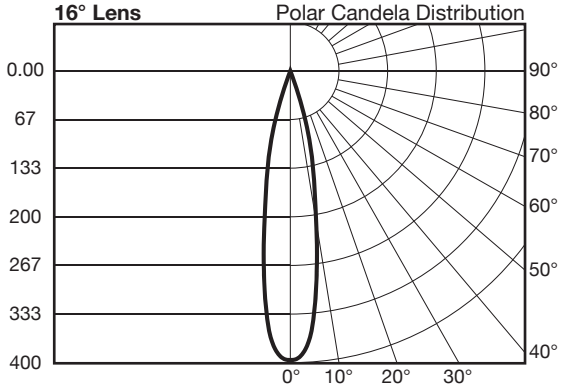
55° Lens Polar Candela Distribution



25° Lens Polar Candela Distribution



16° Lens Polar Candela Distribution



Drywall Accessories	**Part Number**	**Thickness**	**Requirement**
Universal Drywall Bracket	AMNBRKU10	10mm	Drywall Installations
Universal Drywall Bracket	AMNBRKU12	12.5mm	Drywall Installations
Universal Drywall Bracket - ***(US Standard)***	AMNBRKU15	15mm	Drywall Installations

Profile System	**Part Number**	**Thickness**	**Requirement**
LINIAR System*	LSN1**XX**	15mm	Drywall Installations

Optional Accessories	**Part Number**	**Color**	**Requirement**
Standard Snoot - 3mm	AMNSNOO01**XX**	Black/White (BA/WH)	No Requirement
Round Snoot - 41mm (1.6")**	AMNSNOO15**XX**	Black/White (BA/WH)	16º Spot Optics
Round Beveled Snoot - 25mm (1")**	AMNLOVR01**XX**	Black/White (BA/WH)	16º Spot Optics
Square 1.5x1.5" Beveled Louver - 20mm (3/4")**	AMNLOVR15**XX**	Black/White (BA/WH)	16º Spot Optics

Remote Power Supply for CC Variant	**Part Number**	**Input Voltage**	**Listings**
Magnitude AFLEX Power Supply (1000mA 60W)***	AA3010M1000	120-277Vac	UL Listed
Magnitude AFLEX JBZN Series (1000mA 60W)*	AA3010MJB**XX**	120-277Vac	UL Listed
Hatch FTX 0-10V (1000mA 50W)***	AA3FTXH1000	120-277Vac	UL Listed
Hatch XTC (1000mA 32W)***	AA3XTCH1000	120-277Vac	UL Recognized
Apure Phase Dimmable (1000mA 26W)	AA32202DEU	220-240Vac	CE
Apure Phase Dimmable (1000mA 65W)	AA32205DEU	220-240Vac	CE
KGP DALI 2 NFC Touch Dim (1000mA 53.2W)***	AA3DALI2EU	220-240Vac	CE

**Refer to specsheet for more information.*
***Must use 16º Spot Lens*
****Driver enclosure required where applicable*.

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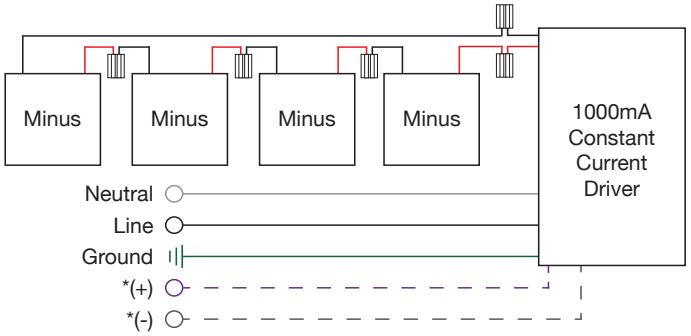
Custom Installation Types

- The universal bracket (AMNBRKU**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!

Wiring Diagram for Constant Current Minus products - [CC]



*when applicable

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 0-10V Driver (1000mA 60W)	1-4 Minus	16AWG - 82ft (25m)	US/CAN
• Hatch FTX 0-10V (1000mA 50W)	2-3 Minus	16AWG - 82ft (25m)	US/CAN
• Hatch XTC34 Phase Dimmable (1000mA 32W)	1-2 Minus	16AWG - 82ft (25m)	US/CAN
• Apure Phase Dimmable (1000mA 26W)	1-2 Minus	16AWG - 82ft (25m)	EU/INT’L
• Apure Phase Dimmable (1000mA 65W)	3-5 Minus	16AWG - 82ft (25m)	EU/INT’L
• KGP DALI 2 NFC Touch Dim (500-1000mA 53.2W)	1-4 Minus	16AWG - 82ft (25m)	EU/INT’L

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.

Dimmer Compatibility

Driver manufacturers perform extensive compatibility testing with various dimmers and LED loads. Dimming performance may vary based on driver type, load, wiring, and dimmer model. Apure recommends verifying system performance prior to installation. Refer to the LED driver specification sheet for detailed dimming data.

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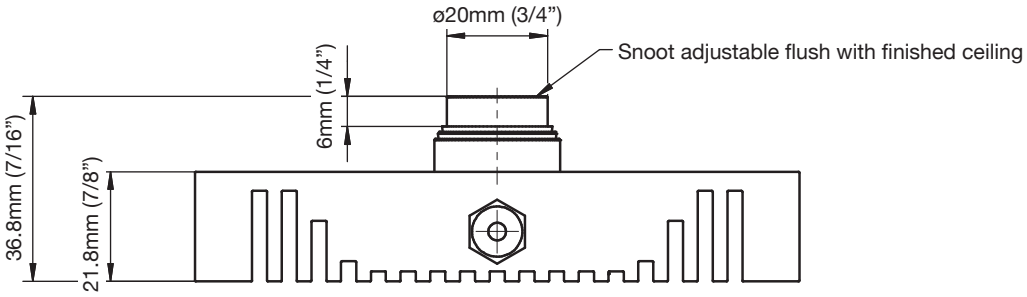
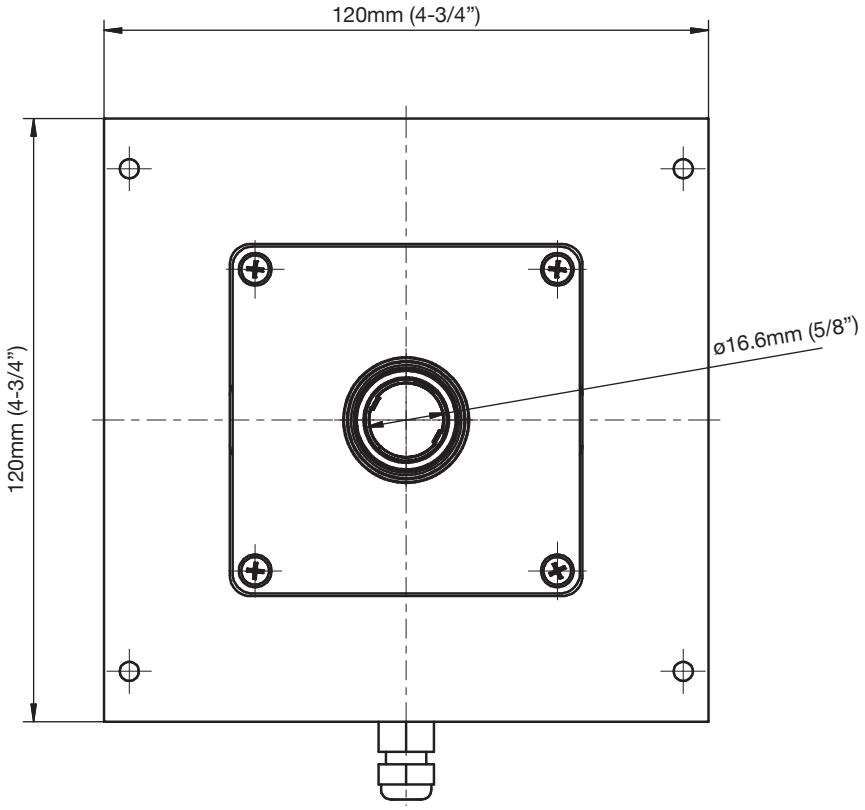
Fixture Dimensions





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