APEIRON A3120
Ruggedized LED Recessed Light with 3 Colors in 1 Fixture

Apeiron A3120
Ruggedized LED Recessed Light with 3 Colors in 1 Fixture

PRODUCT HIGHLIGHTS

• 1.5 Watts
• 9-30V DC Input
• 3 Colors in 1 Fixture with only 2 wires
• 3” Diameter
• Stainless Steel Construction
• 316 SS Removable Trim
• Exterior Rated
• Screw Mountable

TYPICAL APPLICATIONS

• Marine Hardtop Lighting
• Decorative Accent Lighting

SPECIFICATIONS

FEATURES

■ ADVANCED OPTICAL SYSTEM
120° full angle. Even light, no LED “dots” or pixilation.

■ RUGGED DESIGN
Stainless steel construction, sealed design, and electronic regulation to the LED source ensures product longevity.

■ NO HEAT OR UV IN THE LIGHT BEAM
With no heat in the light beam, the fixture lens remains much cooler than halogen sources, allowing safe and ‘burn free’ operation. In addition, no UV means reduced risk of fading or deteriorating products or artifacts on display.

■ 316 STAINLESS STEEL TRIM, WITH PVD
Removable 316 Stainless Steel trim, five finish options. Physical Vapor Deposition (PVD) coating provides a very durable surface finish which will not tarnish or discolor.

EXCLUSIVE TECHNOLOGY

■ SMARTDRIVER™ INTEGRATED
i2Systems SmartDriver technology is integrated directly inside of every fixture. Connect the Apeiron to a wide range of voltages without sacrificing light output or lifetime. No external drivers are required and wiring is made simple.

■ TRI-LIGHT TECHNOLOGY
i2Systems Tri-Light Technology offers 3 colors of light within a single fixture with only 2 wires. Simply toggle the input voltage off and back on again to change from one color to the next.

SUITABLE ENVIRONMENTS

Dry Damp Wet

LED COLORS

- Cool White
- Warm White
- Green
- Blue Cyan Red

Tri-light products are restricted to any three of the six listed color options.

PVD Coated: Powder Coated:

- Polished Chrome White
- Polished Gold Off-White
- Brushed Nickel

BEZEL SHAPES

Round (Screw Mount)

BEAM ANGLES

120° Full Angle

CERTIFICATIONS

CE ROHS IP67

*Refer to Specifications Table on page 2 for additional information.
**KEYWORDS**

**OPTION**

---

**SPECIFICATIONS**

**ITEM**

**PARAMETER**

**VALUE**

**Electrical**

Input Power

1.5 Watts*

Input Voltage Range

9-30V DC

Integrated Driver

Yes

0-100% Dimming

N/A

Protection Features

Transistor Protection, Reverse Polarity

**Optical**

Emitting Angle

60° Full Angle

LED Color

Cool White, Warm White, Green, Blue, Cyan, Red

LED Colors per Fixture

3

Class

Class 2 LED Product

**Physical**

Dimensions

Refer to drawings on right

Housing Construction

Aluminum, Stainless Steel

Lens Material

Tempered Glass, Frosted

Bezel Shapes

Round

Finish

PVD Coated: Polished Chrome, Polished Gold, Brushed Nickel

Powder Coated: White, Off-White

Mounting Method

Screw Mount

Operating Temp. Range

-30°C to 40°C, Max. Case Temp (Tc): 50°C

Humidity

0-95%, non-condensing

Environment

Dry, Damp, Wet** (IP67)

Certification

CE 94/25/EC, FCC Part 15, Class B, RoHS Compliant

**ACCESSORIES**

**KEYWORD**

**ITEM NUMBER**

**DESCRIPTION**

**FIXTURE MAX**

**Gasket**

T70002

White, closed-cell foam gasket, seals fixture mounting surface

**Sealed Tri-Light Switch**

MS45532-29

Sealed, Normally Closed, 2SPST Toggle Switch.

Switch up to 10 Apeiron A3120

46002

Normally Closed, 2SPST Toggle Switch.

Switch up to 10 Apeiron A3120

45W Power Supply Enclosure

FS441/45W-02D

Power Supply Enclosure, 45W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.

Powers up to 30 Apeiron A3120

75W Power Supply Enclosure

FS441/75W-02D

Power Supply Enclosure, 75W, 120/240VAC Input, 24VDC Output, Steel Enclosure w/ Knockouts & Terminal Blocks.

Powers up to 50 Apeiron A3120

75W Outdoor Power Supply Enclosure

FS441/75W-02E

Outdoor Power Supply Enclosure, 75W, 120/240VAC Input, 24VDC x 4 Output, Stainless Steel NEMA 4 Enclosure.

Powers up to 50 Apeiron A3120

150W Outdoor Power Supply Enclosure

FS441/150W-02E

Outdoor Power Supply Enclosure, Dual Power Supply, 75W x 2, 120/240VAC Input, 24VDC x 4 Output, Stainless Steel NEMA 4 Enclosure.

Powers up to 100 Apeiron A3120

---

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.

**DIMENSIONS**

**WIRE FUNCTION**

**INSTALLATION EXAMPLE**

**ORDERING NUMBER**

**FIXED FACTORY NUMBER**

**USER SELECTED OPTION**

**A3120Z**

Bezel Finish

- White Finish

Bezel Shape

- Round Bezel

LED Color

- Cool White

- Warm White

- Green

- Blue

- Cyan

- Red

When specifying Tri-Light colors, just select the order in which you would like the fixture to operate. See example above.

---

* Due to constant power design, input current (Iin) will vary depending on input voltage. Be sure to size wire awg accordingly for worst case input voltage.