AR111 Downlight S

Features

- 1 Quad-color RGBW LED at 20W
- LED Lifespan: 50,000 hours
- Native Beam Angle: 8.2º
- Optics Included: Wide Filter
- Lumen Output: (Without optic installed) 530
- Color Temperature Presets: 1,800K to 10,000K
- Control: Logic Drive 2X (required)
- Dimensions: 6.7 x 6.7 x 9.67 in (110 x 110 x 158.6 mm)
- Weight: 1.67 lb (0.76 kg)
- Lens Material: Frosted Polycarbonate
- Fixture Color: White

Description

Iluminarc Logic AR111 downlight luminaires are designed for the smallest of area lighting up to full room illumination. With their high quality 4-color RGBW color mixing system, Downlights provide soft, pleasing accent light and indirect illumination of bright, saturated colors and white calibrated CCT presets. Downlights utilize Power Over Ethernet (POE) technology, receiving power and control via an advanced driver. Powerful control options include Calendar Scheduling via onboard webserver, DMX, RDM, Art-Net, Art-RDM, sACN, or you can use the included 8-button wall controller to trigger customizable looks. Go green with higher efficiency, lower cost without compromising quality or quantity.

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Downloads

📄 AR111 Downlight S Quick Reference Guide

📄 AR111 Downlight S DMX Chart

📄 AR111 Downlight S Cutsheet

📄 AR111 Downlight S Photometrics Report

📄 AR111 S IES

Specifications

Light Source and Optical Specifications

- Light Source: 1 LED (quad-color RGBW) 20 W, (8.75 A)

- Light Source Life Expectancy: 50,000 hours based on LED manufacturer's specifications

- Installed Optics: Medium FIlter

- Included Optics: Wide Filter

- Beam Angle: Open Optics: 7.3°, Medium Filter: 49.1°, Medium Filter With Honeycomb: 39.9°, Wide Filter: 57.2°, Wide Filter With Honeycomb: 43.7°

- Field Angle: Open Optics: 16.8°, Medium Filter: 93.7°, Medium Filter With Honeycomb: 75.4°, Wide Filter: 106.3°, Wide Filter With Honeycomb: 84.7 °

- Cutoff Angle: Open Optics: 29.5°, Medium Filter: 123°, Medium Filter With Honeycomb: 95.2°, Wide Filter: 133.6°, Wide Filter With Honeycomb: 103°

- Lumens: Open Optics: 729, Medium Filter: 562, Medium Filter With Honeycomb Filter: 339, Wide Filter: 550, Wide Filter With Honeycomb: 321

- Iluminance: Open Optics: 768 lux @ 5 m, Medium Filter: 26 lux @ 5 m, Medium Filter With Honeycomb: 24 lux @ 5 m, Wide Filter: 20 lux @ 5 m, Wide Filter With Honeycomb: 18 lux @ 5 m

- Efficacy At Full: Open Optics: 26 lm / W, Medium Optics: 20 lm / W, Medium Filter With Honeycomb: 13 lm / W, Wide Filter: 21 lm / W, Wide Filter With Honeycomb: 11 lm / W

- Color Temperature Presets: 1800K - 10000K

Construction & Physical Specifications

- Dimensions: 6.7 x 6.7 x 9.67 in (110 x 110 x 158.6 mm)

- Fixture Color: White

- Housing Material: Aluminum (ADC12)

- Lens Cover: Frosted polycarbonate

- Mounting Options: Logic AR111 Trim Ring, Logic AR111 Mounting Kit

- Weight: 1.67 lb (0.76 kg)

Control Specifications

- Operating Modes: Selectable personalities, via Logic Drive 2X
- Personalities:

  - Red (1-channel): Red

  - Green (1-channel): Green

  - Blue (1-channel): Blue

  - White (1-channel): White

  - TW (2-channel): Dimmer, White CCT Preset

  - RGB (3-channel): Red, Green, Blue

  - RGBW (4-channel): Red, Green, Blue, White

  - RGBW+D (5-channel): Red, Green, Blue, White, Dimmer

  - FULL (10-channel): Dimmer, Red, Green, Blue, White, White CCT Presets, Strobe, Auto Programs, Dimmer Speed Presets

- Fixture Setup: Logic Drive 2X (RDM, Webserver or Display), Art-RDM (DMX Workshop)

- Standalone Control: Yes, Logic Wall Con via Logic Drive 2X

Electrical System Specifications

- Electronic

- Input Voltage: 52-56 VDC

- Power and Current:

  - 15.5 W Via POE

- Power Linking: 5 units per port via POE++, IEEE 802.3 bt, type 4

- Power Supply: POE++, IEEE 802.3 bt, type 4, class 8 (via Logic Drive 2X)

- Recommended Power Cable: Belden 2413F, 2412F

- Required Cable Specifications: Cable type: CAT6/A, Shielded, Conductor Diameter: ≥23 AWG (≥0.5733 mm), Conductor Material: Solid Bare Copper Wire (stranded not supported), Cable plug: RJ45, CAT6/A, Shielded, Cable Terminator: T568B standard

- Total Max Cable Length: Drive to first fixture: ≤100 m / 328 ft, Drive to last fixture: ≤140 m / 460 ft, First fixture to last fixture: ≤40 m / 131 ft

Thermal Specifications

- BTU Hour: 52.8

- Cooling: Convection

- Maximum Surface Temperature: 158 °F (70 °C)

- Minimum Distance To Flammable Surface: 11.8 in (0.3 m)

- Operating Temperature Range: -4 °F to 113 °F (-20 °C to 45 °C)

Regulatory & Voluntary Qualification

- Canadian Safety: CSA-C22.2 No. 250.2

- Certification Listings: CE/MET/FCC/RoHS

- City of Chicago Electric Code Safety: Chicago Plenum (CCEA), Section 18-27-300.22(c)(2)

- Environment Details: All indoor permanent installations. Please refer to the User Manual for more detailed information on installation.

- Environment Locations: Dry

- Installation Orientation: Any

- US Safety: UL 2108, UL 1598A

- Warranty: 36-month manufacturer's limited warranty (for covered regions only)

Accessories

- Included: Wide filter, Recessed lighting hi-hat mounting bracket, Hi-hat Trim Ring alignment bracket, Pendant hanging bracket

- Optional: Logic AR111 Honeycomb filter, Logic AR111 Trim Ring (white), Logic AR111 Mounting Kit (for Wall Mount, Ceiling Mount, and hanging Pendant), RDM2GO

- Required: Logic Drive 2X

Order Code

- Logic AR111 Downlight-small: LOGICAR111DNS

- Logic Drive 2X: LOGICDRIVE2X

- Logic AR111 Honeycomb Filter: LOGICAR111HF

- Logic AR111 Trim Ring: LOGICAR111TRIM

- Logic Wall Controller: LOGICWALLCON

Applications & Uses

Logic by Iluminarc

Sunrise, FL

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Accessories

Logic Drive 2X

Honeycomb Filter

Trim Ring

Logic Wall Controller