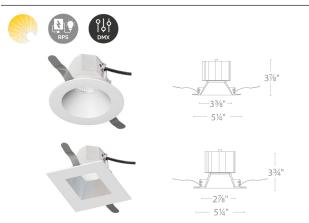
ATMOSPHERE RPS 3.5IN Downlight Trim

A2RD-D46, A2RD-D56





Fixture Type:

Catalog Number:

Project:

Location:

FINISHES





White

Brushed Nickel

| Model | Power | Max Combined Drive Current [‡] | Max # of Fixtures | Beam | | Lumens Ref Output* | CBCP Ref Output* | Color T | Гетр | CRI | Finish (In | terior/Flange) |
|----------|-------|--|----------------------|------|-----|-----------------------|---------------------|---------|---------------------------|-----|-----------------------------|----------------|
| A2RD-D46 | 13W | V 350mA | 1 per 2 Channel | N | 22° | 575 | 2125 | | 2700K-6500K | 98 | HZWT Haze/White WT White | |
| (Round) | | | | F | 45° | 610 | 1210 | | | | | |
| A2RD-D56 | | | | N | 22° | 555 | 2125 | C1 | | | | |
| (Square) | | | | F | 45° | 595 | 1225 | | | | | |
| A2RD-D46 | 13W | | 1 per 2 Channel | N | 22° | 575 | 2085 | | - C2 1800K-4000K 9 | | BKWT BN | |
| (Round) | | 0.50.00 | | F | 45° | 605 | 1190 | 6. | | 98 | | |
| A2RD-D56 | | 13W 350mA | | N | 22° | 565 | 2155 | C2 | | | | |
| (Square) | | | | F | 45° | 600 | 1245 | | | | | |

Example: A2RD-D46N-C1WT

¹Maximum Combined Drive Current is the sum of the drive currents on both channels. If 350mA is applied to one channel, no current may be applied to the other channel.

If 150mA is applied to one channel, then 200mA max may be applied to the other channel.

*Reference output represents delivered photometrics at 3000K. Use multiplier table below to determine the output for other combinations.

| Lumen & CBCP Multiplier | COLOR TEMPERATURE | | | | | | |
|-------------------------|-------------------|-------|-------|-------|-------|-------|--|
| | 2700K | 3000K | 3500K | 4000K | 5000K | 6500K | |
| C1 (2700K-6500K) | 0.96 | 1.00 | 1.06 | 1.09 | 1.12 | 1.11 | |
| | 1800K | 2200K | 2700K | 3000K | 3500K | 4000K | |
| C2 (1800K-4000K) | 0.68 | 0.82 | 0.94 | 1.00 | 1.07 | 1.11 | |

DESCRIPTION

Atmosphere RPS 3.5" Downlight packages innovation in a compact form factor. Its shallow housing is designed to fit in tight plenum spaces without sacrificing lumen output.

FEATURES

- Natural and vivid precision LED CCT Tuning
- AISPIRE remote power supply (RPS) required, sold separately
- Designed to fit in tight plenum
- Wet location listed for trims
- 3.5" trim aperture, 3.5" housing height
- 35° cut-off angle
- Dimmable via AISPIRE RPS units, refer to RPS specification for compatibility
- 5 year product warranty

SPECIFICATIONS

| Remote Power Supply (RPS): Mounting: Ceiling thickness: Finish: Standards: | A2D20-BK, A2D40-BK. Reference compatible RPS specifications for further requirements Retention clips firmly hold trim to housing. 1/2" - 1 1/2" (A2RD-268-CT) 1/2" - 1" (A2RD-466-CT) Powder coated white and black, white, enamel coated haze, electroplated brushed nickel. UL & cUL wet location listed | |
|---|---|--|
| Supply (RPS): Mounting: Ceiling thickness: | RPS specifications for further requirements Retention clips firmly hold trim to housing. 1/2" - 1 1/2" (A2RD-268-CT) 1/2" - 1" (A2RD-466-CT) Powder coated white and black, white, enamel | |
| Supply (RPS): Mounting: | RPS specifications for further requirements Retention clips firmly hold trim to housing. 1/2" - 1 1/2" (A2RD-268-CT) | |
| Supply (RPS): | RPS specifications for further requirements | |
| | | |
| | | |
| Dimming: | Refer to RPS specification for protocol and compatibility | |
| Input: | 36VDC Class 2 Low Voltage, DC Power Supply. See Fixture Configuration table above. | |
| Construction: | Die-cast aluminum trim with extruded aluminum heat sink | |

1750 Archibald Avenue

Ontario, CA 91760

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ATMOSPHERE RPS 3.5IN Housing A2RD-268-CT, A2RD-446-CT



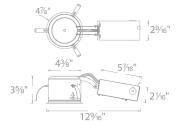


Model

| A2RD-268-CT | New Construction, IC-rated, Airtight |
|-------------|--------------------------------------|

Example: A2RD-268-CT





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|-----|----|----|
| 141 | υu | eι |

Example: A2RD-446-CT

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AiSPiRE[®] Remote Power Supply (RPS)

A2D LED DMX Power Unit





| Model | channels | Finish |
|--|----------|-----------------|
| A2D20 2 x 75W Class 2 output DMX LED power unit A2D40 4 x 75W Class 2 output DMX LED power unit | 4 8 | BK Black |

Example: A2D20-BK

FINISHES



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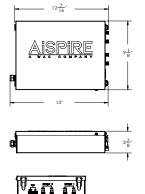
FEATURES

- 75W Max. Output Power (Per DMX Power Unit)
- 250mA-1500mA output current selection
- Class 2 power supply
- Built-in DMX512 interface
- IP20 rating
- UL Damp loctation listed

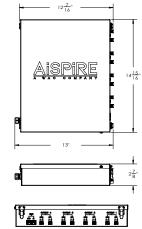
LINE DRAWING

A2D20 - 4 Channel

A2D40- 8 Channel







Fixture Type:

Catalog Number:

Project:

Location:

* See RPS spec sheet for wiring diagram details

| INPUT | |
|-------|--|
| | |

| Voltage Range: | 120VAC |
|-------------------------------|-----------------|
| Frequency Range: | 50/60Hz |
| Power Factor: | 0.99 @100VAC |
| THD: | <15% @full load |
| Current: | 0.9A @100VAC |
| Standby Power Consumption: | <0.5W |

OUTPUT

| LED Channels: | APD20-BK: 4 Channels |
|---------------------|--|
| | APD40-BK: 8 Channels |
| Selectable Current: | 250mA, 300mA, 350mA, 400mA, 450mA, 500mA, 600mA, 700mA, 800mA, 900mA, 1A, 1.1A, 1.2A, 1.3A, 1.4A, 1.5A |
| DC Voltage Range: | 6-48VDC |
| Current Tolerance: | ± 3% |
| Rated Power: | 72W per channel 75W max (per 2-channel output) |

CONTROL

| Control Protocol: | DMX 512-A, DMX 512 |
|-------------------|-------------------------------|
| Diming Range: | 0%-100% |
| Control Input: | DMX RJ45 |
| Dimming Curve: | Linear/Logarithm (Selectable) |

PROTECTION

Short Circuit, Voltage, Over Temp: Recovers automatically after fault condition is removed

ENVIRONMENT

Ambient Operating Temp: -4°F - 113°C (-20°F - 45°C)

SAFETY & EMC

- Safety Standard: UL, Damp Location
- EMC Emission: FCC Part 15 Class B
- Surge Immunity: Line-Line 1 kV

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ATMOSPHERE RPS

Natural Tunable White - DMX Tuning Chart



Natural White CCT Tuning:

The CCT of an Atmosphere RPS fixture may be adjusted, when installed to 2 Channels on any output of the AISPIRE Remote Power Supply.

Using the DMX byte values in the adjacent table mapped to CH1 and CH2 of the desired output, the Atmosphere RPS fixture may be tuned in increments of 100K (Kelvin) from 2700K to 6500K for C1 and 1800K to 4000K for C2, at full intensity.

CAUTION:

For Atmosphere RPS systems, control channel inputs and resulting channel outputs are critical to not overdriving fixtures.

It is critical to follow fixture specifications for Maximum Combined Drive Current which is the sum of the drive currents on both channels.

Example:

Reference fixture specification sheet for specific maximum current ratings.

- When 350mA is the rated Maximum Combined Drive Current of the fixture:
- If 350mA (DMX byte value: 255) is applied to one channel, no current (DMX byte value: 0) may be applied to the other channel.
- If 150mA (DMX byte value: 107) is applied to one channel, then 200mA current (DMX byte value: 148) maximum may be applied to the other channel.

+ Byte values generated with RPS at default settings.

C1 DMX Byte Values⁺

at Full Intensity

| CCT (K) | CH1: 2700K | CH2: 6500K |
|---------|---------------|---------------|
| 6500 | 0 | 255 |
| 6400 | 6 | 249 |
| 6300 | 10 | 245 |
| 6200 | 14 | 241 |
| 6100 | 19 | 236 |
| 6000 | 24 | 231 |
| 5900 | 29 | 226 |
| 5800 | 34 | 221 |
| 5700 | 39 | 216 |
| 5600 | 45 | 210 |
| 5500 | 50 | 205 |
| 5400 | 55 | 200 |
| 5300 | 60 | 195 |
| 5200 | 66 | 189 |
| 5100 | 71 | 184 |
| 5000 | 77 | 178 |
| 4900 | 83 | 172 |
| 4800 | 89 | 166 |
| 4700 | 95 | 160 |
| 4600 | 101 | 154 |
| 4500 | 107 | 148 |
| 4400 | 113 | 142 |
| 4300 | 119 | 136 |
| 4200 | 126 | 129 |
| 4100 | 133 | 122 |
| 4000 | 140 | 115 |
| 3900 | 147 | 108 |
| 3800 | 154 | 101 |
| 3700 | 161 | 94 |
| 3600 | 168 | 87 |
| 3500 | 177 | 78 |
| 3400 | 186 | 69 |
| 3300 | 195 | 60 |
| 3200 | 204 | 51 |
| 3100 | 215 | 40 |
| 3000 | 227 | 28 |
| 2900 | 243 | 12 |
| 2800 | 254 | 1 |
| 2700 | 255 | 0 |

AISPIRE A WAC COMPANY

C2 DMX Byte Values⁺

at Full Intensity

| CCT (K) | CH1: 1800K | CH2: 4000K |
|---------|---------------|---------------|
| 4000 | 0 | 255 |
| 3900 | 3 | 252 |
| 3800 | 15 | 240 |
| 3700 | 27 | 228 |
| 3600 | 41 | 214 |
| 3500 | 53 | 202 |
| 3400 | 62 | 193 |
| 3300 | 70 | 185 |
| 3200 | 80 | 175 |
| 3100 | 90 | 165 |
| 3000 | 100 | 155 |
| 2900 | 110 | 145 |
| 2800 | 120 | 135 |
| 2700 | 132 | 123 |
| 2600 | 144 | 111 |
| 2500 | 155 | 100 |
| 2400 | 166 | 89 |
| 2300 | 178 | 77 |
| 2200 | 190 | 65 |
| 2100 | 204 | 51 |
| 2000 | 218 | 37 |
| 1900 | 230 | 25 |
| 1800 | 255 | 0 |

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Spectral Matching to Natural Light

- ATMOSPHERE technology delivers optimized spectral syncing to natural light in a tunable white solution
- ATMOSPHERE maximizes the emotional elements of light and color to deliver a first class human experience
- ATMOSPHERE significantly reduces the blue spike and cyan valley to deliver a closer match to natural light

What is Human Centric Lighting (HCL)

- Throughout evolution, the human visual system has evolved under the natural light of sun and fire.
- Human-centric lighting by definition encompasses the effects of lighting on the physical and emotional being of people.
- As part of the HCL initiative, there is a drive to develop "natural" sources of lighting. The human species has been conditioned to function in daylight hours by the light of the sun, and after dusk, of the warm glow of fire. Thus, we define natural light sources as those which match the spectral distribuition of sunlight and firelight.

Human Centric Light Spectrum

| FEATURES | BENEFITS |
|---|--|
| Spectrum engineered to closely emulate natural light with reduced short blue wavelength intensity | Full, consistent light spectrum with fewer spectral spikes, the closest match to natural light available |
| Natural and vivid color rendering | Typical 98 CRI. Excellent TM-30 metrics; Skin tones and artwork render impeccably |
| High efficacy human-centric spectra | Greater energy savings, lower utility and environment costs |
| Affordable spectra optimized for humans | Accelerate adoption of full spectrum natural lighting |

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