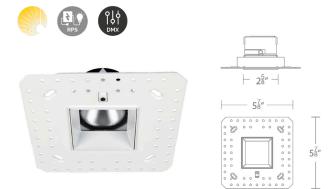
ATMOSPHERE RPS 2IN Square Downlight Trimless

A2RC-D57





Fixture Type:
Catalog Number:
Project:
Location:

FINISHES



Model	Power	Max Combined Drive Current ‡	Max # of Fixtures	Beam		Lumens Ref Output*	CBCP Ref Output*	Color Te	етр	CRI	Finish	
				N	25°	675	1940					
A2RC-D57	11W 300mA	300mA	1 per 2 Channel	F	45°	660	1020	C1	2700K - 6500K	98		
		2 0110111101	W	55°	585	765				HZ WT	Haze White	
(Square)				N	25°	655	1775		98	BK Black BN Brushed Nicke		
		1 per 2 Channel	F	45°	710	1000	C2	1800K - 4000K			Brushed Nickel	
		w	W	55°	640	715						

Example: A2RC-D57N-C1BN

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

Lumen & CBCP Multiplier	COLOR TEMPERATURE					
Ca (oracly Creek)	2700K	3000K	3500K	4000K	5000K	6500K
C1 (2700K-6500K)	0.96	1.00	1.06	1.09	1.12	1.11
0- (-0)()(-	1800K	2200K	2700K	3000K	3500K	4000K
C2 (1800K-4000K)	0.68	0.82	0.94	1.00	1.07	1.11

DESCRIPTION

Atmosphere RPS 2" Downlight packages innovation in a compact form factor. It's 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
- 2" aperture, 2" housing height
- 35° cutoff angle
- Dimmable via AISPIRE RPS unit, refer to RPS specifications for compatibility
- 5 year product warranty

SPECIFICATIONS

Construction: Powder coated die cast aluminum

Input: 36VDC Class 2 Low Voltage, DC Power Supply

See Fixture Configuration table above.

Dimming: Refer to RPS specification for protocol and

compatibility

Remote Power Supply (RPS):

A2D20-BK,A2D40-BK. Reference compatible RPS specification for further requirement.

Mounting: Retention clips firmly hold trim to housing

Ceiling thickness: 1/2" - 1"

Cutout: 4 1/8"

Finish: Powder coated black and white, enamel coated

haze, electroplated brushed nickel

Standards: UL & cUL Wet Location Listed, Airtight

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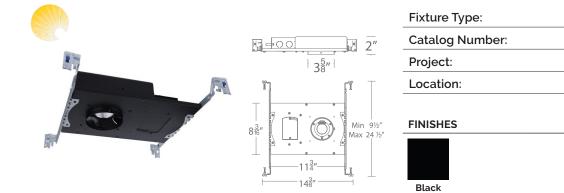
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[†] Maximum Combined Drive current is the sum of the drive currents on both channels. If 300mA is applied to one channel, no current may be applied to the other channel. If 150mA is applied to one channel, then 150mA max. may be applied to the other channel.

ATMOSPHERE RPS 2IN Housing

A2RC-268-CT





Model

A2RC-268-CT New Construction IC-rated. Airtight

Example: A2RC-268-CT

AiSPiRE® Remote Power Supply (RPS)

A2D LED DMX Power Unit













	# 0[
Model	channels	Finish

A2D20 2 x 75W Class 2 output DMX LED power unit	4	BK	Black
A2D40 4 x 75W Class 2 output DMX LED power unit	8	DI	DlaCK

Example: A2D20-BK

FINISHES



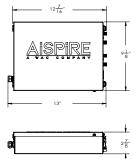
Black

FEATURES

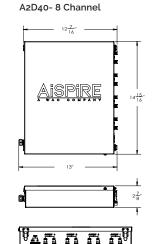
- 75W Max. Output Power (Per DMX Power Unit)
- · 250mA-1500mA output current selection
- · Class 2 power supply
- · Built-in DMX512 interface
- · IP20 rating
- · UL Damp loctation listed

LINE DRAWING

A2D20 - 4 Channel







INPUT

Voltage Range: 120VAC

Frequency Range: 50/60Hz

Power Factor: 0.99 @100VAC

THD: <15% @full load

Current: 0.9A @100VAC

Standby Power <0.5W

Consumption:

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, Over 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 2018, Damp Location
- EMC Emission: FCC Part 15 Class B
- Surge Immunity: Line-Line 1 kV

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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 features.

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.

C1 DMX Byte Values¹

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				

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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Help Byte values generated with RPS at default settings.







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 distribution 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