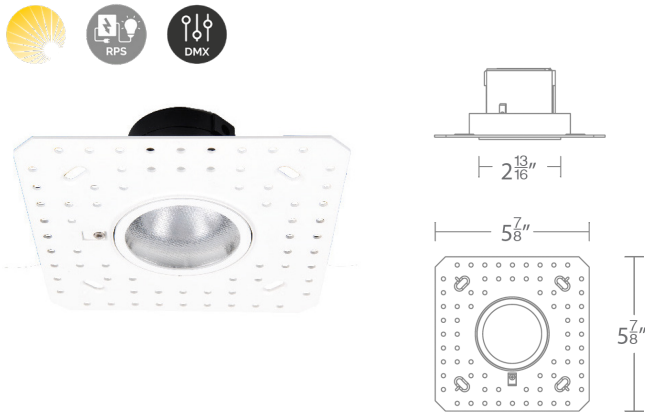


# ATMOSPHERE RPS 2IN Round Wall Wash Trimless

A2RC-W47

**AiSPIRE**  
A W A C C O M P A N Y



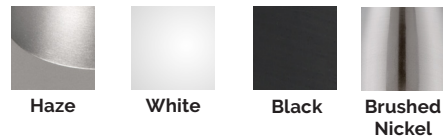
Fixture Type:

Catalog Number:

Project:

Location:

## FINISHES



Model	Power	Max Combined Drive Current †	Max # of Fixtures	Beam	Lumens Ref Output*	CBCP Ref Output*	Color Temp	CRI	Finish
A2RC-W47 (Round)	11w	300mA	1 per 2 Channel	A Asym	560	N/A	C1 2700K-6500K	98	WT White
	11w	300mA	1 per 2 Channel	A Asym	525	N/A	C2 1800K-4000K	98	HZ Haze BN Brushed Nickel BK Black

Example: A2RC-W47A-C1BN

† 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.

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

Lumen & CBCP Multiplier	COLOR TEMPERATURE					
C1 (2700K-6500K)	2700K	3000K	3500K	4000K	5000K	6500K
	0.96	1.00	1.06	1.09	1.12	1.11
C2 (1800K-4000K)	1800K	2200K	2700K	3000K	3500K	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
- Dimmable via AISPIRE RPS unit, refer to RPS specifications for compatibility
- 5 year product warranty

## SPECIFICATIONS

<b>Construction:</b>	Powder coated die cast aluminum
<b>Input:</b>	36VDC Class 2 Low Voltage, DC Power Supply See Fixture Configuration table above.
<b>Dimming:</b>	Refer to RPS specification for protocol and compatibility
<b>Remote Power Supply (RPS):</b>	<b>A2D20-BK, A2D40-BK.</b> Reference compatible RPS specification for further requirement.
<b>Mounting:</b>	Retention clips firmly hold trim to housing
<b>Ceiling thickness:</b>	1/2" - 1"
<b>Cutout:</b>	4 1/8"
<b>Finish:</b>	Powder coated black and white, enamel coated haze, electroplated brushed nickel
<b>Standards:</b>	UL & cUL Wet Location Listed, Airtight

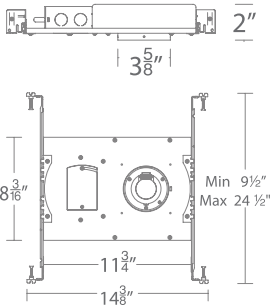
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ATMOSPHERE RPS 2IN *Housing*  
A2RC-268-CT



Fixture Type:

Catalog Number:

Project:

Location:

FINISHES



Black

Model

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

# AiSPiRE® Remote Power Supply (RPS)

## A2D LED DMX Power Unit



Model	# of 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	BK Black

Example: A2D20-BK

### FINISHES



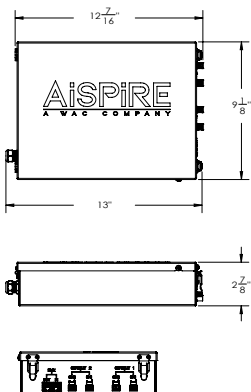
Black

### FEATURES

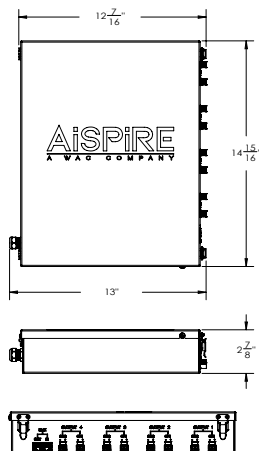
- 75W Max. Output Power (Per DMX Power Unit)
- 250mA-1500mA output current selection
- Class 2 power supply
- Built-in DMX512 interface
- IP20 rating
- UL Damp location listed

### LINE DRAWING

A2D20 - 4 Channel



A2D40 - 8 Channel



### 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
Dimming 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
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### ENVIRONMENT

Ambient Operating Temp:	-4°F - 113°C (-20°F - 45°C)
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### SAFETY & EMC

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

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## 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.

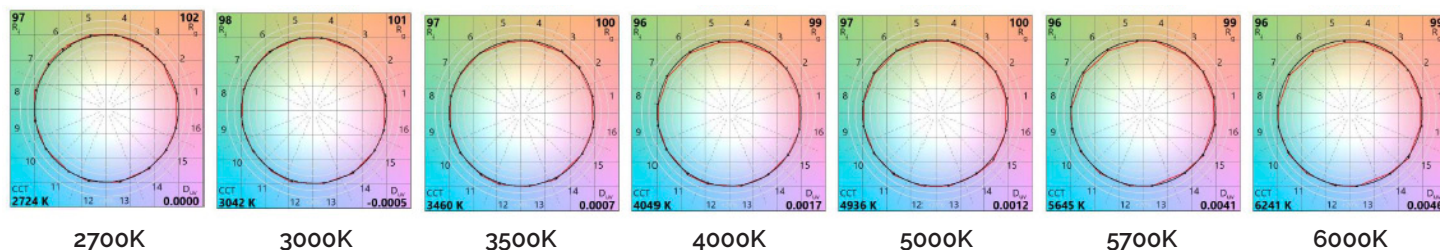
## Human Centric Light Spectrum

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 97 CRI with R1-R15 values ranging from 91 to 99 Excellent TM-30 metrics; Rf ranging from 94-97 and Rg from 98-104
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

## Excellent Color Rendering and TM-30 Metrics

CCT	Rf	Rg	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
2700K	95	103	97	99	94	94	97	98	97	98	99	97	91	98	98	95	98
3000K	95	104	98	99	93	94	97	98	96	96	97	96	92	95	98	95	97
3500K	95	98	98	98	97	98	98	98	98	97	93	97	97	95	98	97	98
4000K	97	100	99	99	97	99	99	99	99	98	94	97	99	96	99	98	98
5000K	97	100	98	99	98	98	98	98	99	96	95	98	98	98	98	98	97
5700K	94	98	98	98	97	95	98	97	96	95	92	97	96	98	98	98	97
6000K	95	98	98	98	97	96	98	98	96	96	93	97	96	98	98	98	97

Note: Typical 85C hot values shown, slight differences may exist

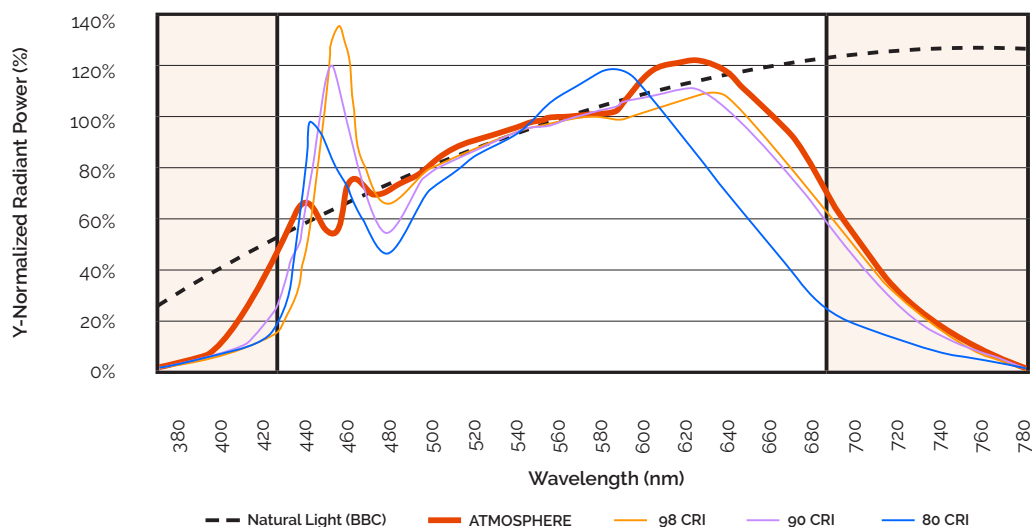




## Spectral Matching to Natural Light

- As close of a spectral match as possible to natural light
- Standard LED light sources spectral distribution (SPD) have larger deviations from the Blackbody Curve (BBC)
- ATMOSPHERE significantly reduces the blue spike and cyan valley to deliver a closer match to natural light

### 4000K Spectral Comparison BBC vs LED



*SPD's of LED light sources at 4000K against the blackbody curve.*

These examples deviate from the natural light that humans have evolved under for millions of years. It is recommended to work within the realm of natural light to avoid tweaking circadian rhythms until the effects on humans are understood.