

# Atmosphere Pro 2.5"

## A1RA-S Shallow Regressed Trim



Fixture Type: \_\_\_\_\_

Catalog Number: \_\_\_\_\_

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Model	Beam		Lumens Ref Output*	CBCP Ref Output*	Color Temp	CRI	Finishes	Reflector/Trim	
A1RA-S48 Round Trim A1RA-S58 Square Trim	N 25°	Round	755	3115	C1 2700-6500K	98	BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White		
		Square	880	3630					
	F 35°	Round	845	2280					
		Square	1150	3105					
	W 45°	Round	680	1270					
		Square	805	1500					
	C2 1800-4000K	N 25°	Round	815	2345	C2 1800-4000K			98
			Square	950	2730				
		F 35°	Round	800	1740				
			Square	1085	2365				
		W 45°	Round	630	1050				
			Square	745	1240				

Example: A1RA-S48N-C1WT

\*Reference output shows 3000K trim with 2 housing. Use multiplier table below to determine the output for other combinations.

Lumens & CBCP Multiplier		COLOR TEMPERATURE					
C1 (2700K-6500K)	Housing Power Level	2700K	3000K	3500K	4000K	5000K	6500K
		2 (22W)	0.96	1.00	1.06	1.09	1.12
	1 (15W)	0.65	0.68	0.72	0.74	0.76	0.75
C2 (1800K-4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	2 (22W)	0.68	0.82	0.94	1.00	1.07	1.11
	1 (15W)	0.46	0.56	0.64	0.68	0.73	0.75

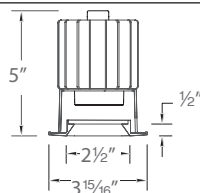
### DESCRIPTION

Atmosphere Pro recessed series represents an Innovation In design and technology for architectural lighting. This high lumen and adaptable family of fixtures with a comprehensive set of round and square fittings, affords a sustainable solution for commercial, corporate, and upscale residential applications.

### FEATURES

- Natural and Vivid Precision LED CCT tuning
- Increased field angle for reduced scalloping
- Low ceiling and close-to-wall applications
- Integral patterned tempered trim lens included standard
- Compatible with a wide range of accessories
- 8 year product warranty

### LINE DRAWING

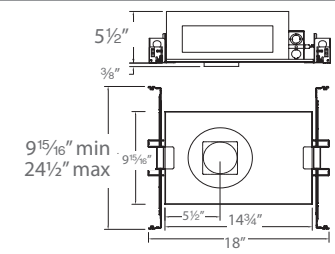
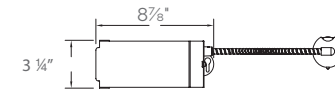
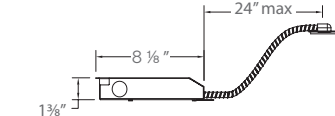


### SPECIFICATIONS

- Construction:** Durable die-cast self-flanged aluminum construction
- Input:** Universal 120 - 277V AC 50/60 Hz
- Dimming:** 2 Channel 0-10V: 100-0.1%;  
2 Channel DMX 512 RDM: 100-0.1%  
Linear dimming. 1st input channel intensity changing, 2nd input channel is CCT changing.
- Light Source:** High output 3-step Mac Adam Ellipse COB  
Rated life of 50,000 hours at L70
- Mounting:** Heavy gauge retention clips support trim firmly.  
Safety cabling standard.  
Ceiling cut out Round Trimmed: Ø 3 9/16"  
Invisible Trim: Ø 4 1/4"  
Ceiling cut out Square Trimmed: 3 9/16" x 3 9/16"  
Invisible Trim: 4 1/4" x 4 1/4"  
Accommodates 1/2" - 1 1/2" ceiling thickness
- Finish:** Electrostatically powder coated White, Black.  
Enamel coated Haze. Plated and brushed Copper Bronze.
- Standards:** ETL & cETL Wet location Listed

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## A1RA-S Shallow Regressed Trim

Model	Trim	Power	Driver	Line Drawing
New Construction Airtight	<b>A1RA-24</b> Round	6 Trim	1 15W IC	
	<b>A1RA-25</b> Square	7 Invisible Trim	2 22W Non-IC	
Remodel Non-IC	<b>A1RA-366</b> Round & Square	Trim	1 15W Non-IC	
	<b>A1RA-347</b> Round		2 22W Non-IC	
	<b>A1RA-357</b> Square	Invisible Trim		

Example: **A1RA-3661-CT-X**

### WOOD AND METAL CEILING ADAPTERS

Round

**A1RA-4-ADP1** 1/2" to 1" ceiling thickness

**A1RA-4-ADP2** 1" to 1 1/2" ceiling thickness

Square

**A1RA-5-ADP1** 1/2" to 1" ceiling thickness

**A1RA-5-ADP2** 1" to 1 1/2" ceiling thickness

### FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM

Accessory holder

Holds up to two lenses or one lens and one glare control

Optical cartridge

Allows tool-less exchange of reflectors

Light engine



### ACCESSORY HOLDER sold separately

**LENS-16-HLD** Required for use with any lens or accessory

### INTERCHANGEABLE REFLECTORS

**REF-R2-N** Narrow Flood beam  
**REF-R2-F** Flood beam  
**REF-R2-W** Wide beam

### LENS ACCESSORIES

**LENS-16**  
**AMB** Amber  
**RED** Red  
**FR** Frosted  
**SPR** Spread  
**BEL** Beam Elongating

### GLARE CONTROL ACCESSORIES

**LENS-16**  
**HCM** Honeycomb Louver  
**CRL** Cross Louver



**Natural White CCT Tuning:**

The CCT of an Atmosphere fixture may be adjusted.

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

**Note:** Through compatible RDM tool, fixture channels can be reassigned to desired consecutive channels. Factory default is DMX channel 1 and 2.

**ATMOSPHERE Pro 2.5" DMX Value vs CCT**

**C1 DMX  
Byte Values at Full Intensity**

CCT (K)	CH 1: Intensity	CH 2: CCT
6500	255	252
6400	255	249
6300	255	245
6200	255	241
6100	255	238
6000	255	232
5900	255	229
5800	255	228
5700	255	222
5600	255	217
5500	255	212
5400	255	208
5300	255	204
5200	255	199
5100	255	194
5000	255	190
4900	255	185
4800	255	179
4700	255	173
4600	255	168
4500	255	160
4400	255	152
4300	255	144
4200	255	138
4100	255	131
4000	255	123
3900	255	115
3800	255	107
3700	255	98
3600	255	89
3500	255	80
3400	255	71
3300	255	62
3200	255	51
3100	255	41
3000	255	30
2900	255	16
2800	255	4
2700	255	0

**C2 DMX  
Byte Values at Full Intensity**

CCT (K)	CH 1: Intensity	CH 2: CCT
4000	255	255
3900	255	253
3800	255	247
3700	255	241
3600	255	233
3500	255	225
3400	255	219
3300	255	210
3200	255	202
3100	255	193
3000	255	185
2900	255	176
2800	255	166
2700	255	154
2600	255	141
2500	255	126
2400	255	109
2300	255	82
2200	255	79
2100	255	64
2000	255	46
1900	255	26
1800	255	0



## 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