

# Atmosphere 2.5"

## A1RA-P Pinhole Trim



Fixture Type:

Catalog Number:

Project:

Location:

Model	Beam		Lumens	CBCP		Color Temp	CRI	Finishes	Reflector/Trim	
			Ref Output*	Ref Output*						
A1RA-P48 Round Trim A1RA-P58 Square Trim	N	25°	Round	360	2625	C1	2700-6500K	98	BK CB HZ WT	Black Copper Bronze Haze White
			Square	470	3405					
	N	25°	Round	380	2320	C2	1800K-4000K	98		
			Square	495	3010					

Example: A1RA-P48N-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	1.11
	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

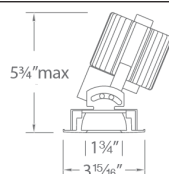
### DESCRIPTION

Atmosphere 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
- Center beam alignment retained throughout adjustment range
- 0-30° vertical and 365° horizontal lockable hot aiming
- Indexed vertical scaling for precise and accurate alignment
- Integral patterned tempered trim lens included standard
- Compatible with wide range of accessories
- 5 year WAC Lighting product warranty

### LINE DRAWING



### SPECIFICATIONS

<b>Construction:</b>	Durable die-cast self-flanged aluminum construction
<b>Input:</b>	Universal 120 - 277V AC 50/60 Hz
<b>Dimming:</b>	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.
<b>Light Source:</b>	High output 3-step Mac Adam Ellipse COB Rated life of 50,000 hours at L70
<b>Mounting:</b>	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 3/16\" x 3 3/16\"
	Invisible Trim: 4 1/4\" x 4 1/4\"
	Accommodates 1/2\" - 1 1/2\" ceiling thickness
<b>Finish:</b>	Electrostatically powder coated White, Black, Enamel coated Haze, Plated and brushed Copper Bronze.
<b>Standards:</b>	ETL & cETL Wet location Listed

aispire.com  
Phone (800) 526.2588  
Fax (800) 526.2585

Headquarters/Eastern Distribution Center  
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# Atmosphere 2.5"

## A1RA-P Pinhole Trim

	Model	Trim	Power	Driver	LINE DRAWINGS
New Construction Airtight	<b>A1RA-24</b> Round	6 Trim	1 15W IC	CT-X	
	<b>A1RA-25</b> Square	7 Invisible Trim	2 22W Non-IC	CT-Z	
Remodel Non-IC	<b>A1RA-36</b> Round & Square	6 Trim	1 15W Non-IC	CT-X	
	<b>A1RA-34</b> Round <b>A1RA-35</b> Square	7 Invisible Trim	2 22W Non-IC	CT-Z	

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

### WOOD AND METAL CEILING ADAPTERS

Round

Square

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

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

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

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

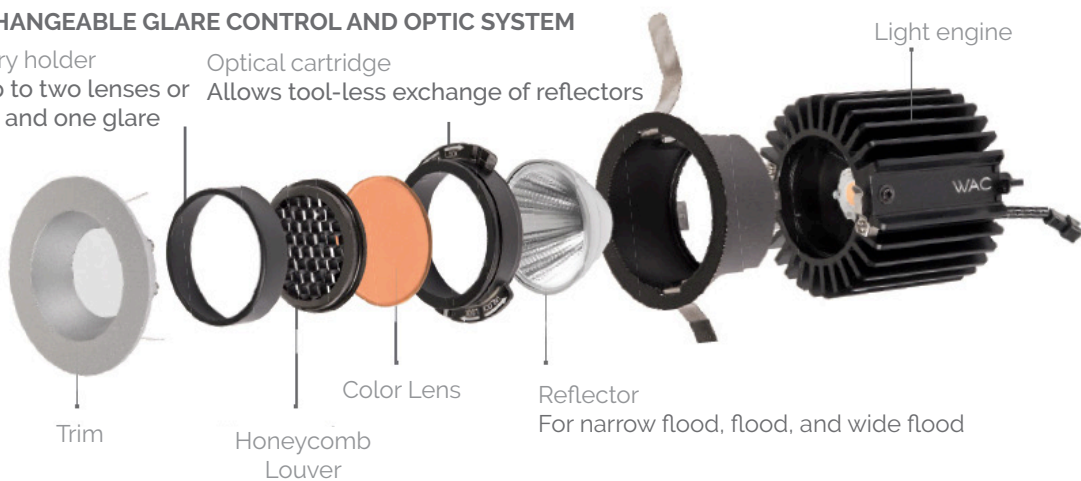
### FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM

Accessory holder

Holds up to two lenses or one lens and one glare

Optical cartridge

Allows tool-less exchange of reflectors



### 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

<b>LENS-16</b>	<b>AMB</b>	Amber
	<b>RED</b>	Red
	<b>FR</b>	Frosted
	<b>SPR</b>	Spread
	<b>BEL</b>	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 2.5" DMX Value vs CCT

C1 DMX Byte Values at Full Intensity			C2 DMX Byte Values at Full Intensity		
CCT (K)	CH 1: Intensity	CH 2: CCT	CCT (K)	CH 1: Intensity	CH 2: CCT
6500	255	252	4000	255	255
6400	255	249	3900	255	253
6300	255	245	3800	255	247
6200	255	241	3700	255	241
6100	255	238	3600	255	233
6000	255	232	3500	255	225
5900	255	229	3400	255	219
5800	255	228	3300	255	210
5700	255	222	3200	255	202
5600	255	217	3100	255	193
5500	255	212	3000	255	185
5400	255	208	2900	255	176
5300	255	204	2800	255	166
5200	255	199	2700	255	154
5100	255	194	2600	255	141
5000	255	190	2500	255	126
4900	255	185	2400	255	109
4800	255	179	2300	255	82
4700	255	173	2200	255	79
4600	255	168	2100	255	64
4500	255	160	2000	255	46
4400	255	152	1900	255	26
4300	255	144	1800	255	0
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			



## 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