# AIRELIGHT LINEAR2 SC 1.0 (15/16" T-BAR)





Description: The Airelight Linear2 SC 1.0 for T-bar grid ceilings adds enhanced "pixel free" optics to it's environmentally sustainable (No Plastics) design. Constructed of earth conscious materials with an ultra-slim/light weight profile, Airelight Linear2 luminaires attach directly to the T-Bar grid with integrated magnetic connectors.

Airelight Linear2 luminaires can be installed individually or linked continuously. The output Airelight luminaires provide are completely lambertian, which assures even distribution of light over large and small areas.

Airelight LED Ceramic Luminaires are 100% recyclable, made with only sustainable, non-toxic "Red List Free" components. Their compact minimalist design reduces "end-of-life" waste.

#### **SPECIFICATIONS**

Color Temperature (CCT)	5000К, 4000К, 3500К, 3000К, 2700К	
Beam Angle	Lambertian	
Max Fixture Run Length	12' with Adjustable 24VDC 100W Power Supply; Unlimited Power Supplies or POE Channels	with Additional
Power Consumption	7.2W per foot	
Lumens Per Foot(25V)	714@5000К / 653 @ 4000К / 638 @ 3500К / 619 @ 3000К	/ 581 @ 2700K
Efficacy (lms/W)	99@5000K / 91 @ 4000K / 89 @ 3500K / 85 @ 3000K / 80	@ 2700K
CRI	90+ , 80+(5000K CCT)	
Available Lengths	24" (Custom lengths of 8, 12, 16" available)	
Interconnect/Cabling	Flex cabling to plenum: Brings luminaire connection above Plenum Rated 2-18 AWG Stranded Insulated Wire(not inclu	
Operating Temperature	-10°F to 115°F / -23°C to 46°C	
Operating Voltage	24VDC	200
Dimming	1-100% via Compatible Low Voltage PWM or 0-10V	33
Rating	Dry/Damp Rated	
Warranty	5 Years	
Weight	1.0oz/ft (98g/m)	
Dimensions	W .94" x H 0.24" x L 24"	Photometric Data: *Perfectly lambertian output
Certifications	LISTED RED LIST PRED LIST	
	24"	-
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Ceramic Emitting Surface





Product Line		Width		Model		Length		Attachment		CCT		CRI
AL2	-	1.0	-	SC	-	24	-	M (15/16")	-	40K	-	90+
Airelight Linear2		1.0"		SC		24"		M (15/16")	Magnet	27K		90+
						16"			(Steel Tbar)	30K		80+(50K CC
						12"				35K		
						8"				40K		
										50K		

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## **POWER SUPPLY SELECTION**

Airelight luminaires require an external DC power supply for operation. Identify total system wattage needed. Order the type and quantity of Class 2, 24VDC Power Supply(s) that meets your requirement.

Power Supply Calculation Linear Feet Required x Power Consumption (6.0W) = Total System Wattage

e.g.:  $12ft \times 7.2W = 86.4W$  (See Table A)

#### POWER SUPPLY COMPATIBILITY FOR AIRELIGHT® SYSTEM

Total System Wattage	Compatible Power Supply			
< 60W	SKU# 62569			
< 100W	SKU# 97422			
<200W	SKU# 84035			

Table A

# **POWER SUPPLIES**

SKU#	Description
84035	Amperor 2X 100W, 24V, 0-10V Dimmable, Class 2, LED Driver
97422	Amperor 100W, 24V, 0-10V Dimmable, Class 2, LED Driver
62569	Amperor 60W, 24V, 0-10V Dimmable, Class 2, LED Driver

# CONTROLS (COMPATIBLE WITH MOST LIGHTING CONTROL SYSTEMS VIA 0-10V)

31935(*) Illumra Wireless Dimmer #E9X-D02FL	
07774(4)	
83374(*) Illumra Single Rocker Switch #E9T-S1AWH	
25251(*) Illumra Dual Rocker Switch #E9T-S2AWH	
	(*) Airelight Luminaires are compatible w/most lighting control systems from Lutron. Hubbel.

(\*)Airelight Luminaires are compatible w/most lighting control systems from Lutron, Hubbel, etc. via 0-10V. For installations that require a wireless interface, the above options are available.



# AIRELIGHT LINEAR2 SC 1.0 INSTALLATION INSTRUCTIONS



#### **Airelight Pre Install Wiring Notes**

- Airelight Linear luminaires should only be connected to 24V Class II drivers. Use of any other power source will cause damage and may void the warranty.
- Only use 18 AWG stranded wire to connect directly to each luminaire. If larger gauge is used for cable drop, reduce to 18 AWG to each luminaire. Never use solid core wire when connecting to a luminaire.
- Goldeneye will not be held responsible if the luminaires are not installed according to applicable codes and safety standards.

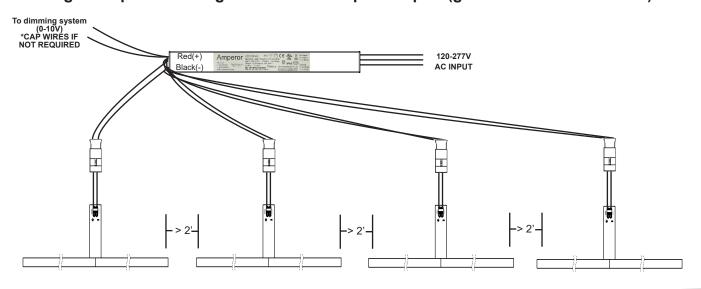
- 1. Remove the junction box cover.
- 2. Make wiring connections from 24V power supply to first luminaire. (Reference cable length chart below)
- 3. Reattach junction box cover.

\*Recommended Cable Lengths to Minimize Voltage Drop

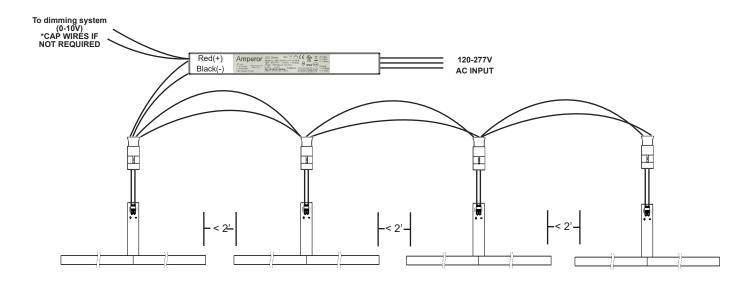
Watts	14.4	28.8	43.2	57.6	72	86.4
(ft)	(2')	(4')	(6')	(8')	(10')	(12')
18 AWG	64 ft	32 ft	21 ft	16 ft	13 ft	11 ft
16 AWG	102 ft	51 ft	34 ft	25 ft	20 ft	17 ft
14 AWG	161 ft	81 ft	54 ft	40 ft	32 ft	27 ft
12 AWG	257 ft	129 ft	86 ft	64 ft	51 ft	43 ft

AL2-1.0-SC/ES-xx-xx-xx = 7.2 Watts/ft

## Wiring Example #1: Airelight Linear2 1.0s spaced apart (greater than 2' end to end)



## Wiring Example #2: Airelight Linear2 1.0s mounted end to end (less than 2' end to end)



#### EM BATTERY INSTALLATION INSTRUCTIONS (AIRELIGHT LINEAR2 SC 1.0)



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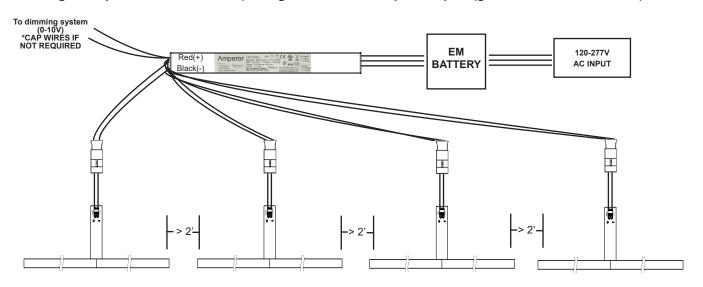
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Watts	14.4	28.8	43.2	57.6	72	86.4
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12 AWG	257 ft	129 ft	86 ft	64 ft	51 ft	43 ft

AL2-1.0-SC/ES-xx-xx-xx = 7.2 Watts/ft

#### Wiring Example #3: EM BATTERY (Airelight Linear2 1.0s spaced apart (greater than 2' end to end)



#### Wiring Example #4: EM BATTERY (Airelight Linear2 1.0s mounted end to end (less than 2' end to end)

