



StandAlone TUBES

Standard LED Lites (Direct Fluorescent Replacement)

FEATURES

- **Direct Replacement for Present Fluorescent Lamps** - Uses the same fluorescent fixture. A 13W StandAlone tube can replace a standard fluorescent lamp. To install, remove the ballast and jumper the line and neutral with short pieces of wire and wire nuts (ballast should be removed per National Electrical Code).
- **Longer Lifetime** - StandAlone tubes have a 50,000+ hour lifetime which is longer than a fluorescent lamp. StandAlone tubes have an even longer life when used at low ambient temperatures.
- **Saves Money** - The power consumption of the StandAlone tube (13W) is much less than the conventional fluorescent, its life-span is up to five times or more than the conventional fluorescent and there are no ballasts to replace. There are no expensive disposal costs associated with StandAlone tubes.
- **Green** - StandAlone tubes contain no mercury or lead. No special disposal is required as with fluorescent lamps and their toxic components.
- **Color Temperature** - LEDs of a specific color temperature can be used in a StandAlone tube, achieving the exact color temperature (Kelvin) required. The replacement of fluorescent tubes with StandAlone tubes also minimizes harmful effects of ultraviolet light on printed documents (in museums) and cloth (in retail clothing and furniture stores) as they emit no UV light.
- **Safe to Handle and Vibration Resistant** - Unlike conventional fluorescent lamps, LED tubes use a shatterproof housing. It doesn't break even if stepped on. The user can feel secure about the safety built into these tubes during handling, installation and operation.
- **Dimming Models Also Available** - Dimming can be controlled from any signal or protocol type (Analog, Pulse, BACnet, LonWorks, Modbus, & RS485). Ask for more details.
- **Other Sizes** - Other sizes of StandAlone tubes can be provided. Contact us for your needs.
- **LEED** - Use of StandAlone tubes may assist the customer in earning LEED points.
- **Federal Tax Credit** - Use of StandAlone tubes may assist the customer in qualifying for Federal TaxCredits for the reduction of lighting costs.



APPLICATIONS

- StandAlone tubes are a direct replacement for existing fluorescent lamps.
- To reduce monthly lighting costs (sixty percent or more).
- To achieve an environmentally proper "Green Building".
- To provide lighting that does not attract insects - great for outdoor applications!

PRODUCT DESCRIPTION & ORDERING INFORMATION

* CCT- Correlated Color Temperature (choice of two ranges)
 ** CRI - Color Rendering Index

Four Foot StandAlone Tubes, 120 VAC

Color	CCT*	Power	Lumens	Luminous Efficacy	CRI**	#LEDs	Power Factor
Warm White SA4120WW	3050K +/- 150	13W	1150	88 lm/W	69	249	.85
	3450K +/- 150						
White SA4120W	4000K +/- 250	13W	1250	96 lm/W	72	249	.85
	4500K +/- 250						
Cool White SA4120CW	5000K +/- 300	13W	1300	100 lm/W	75	249	.85
	5650K +/- 350						

Four Foot StandAlone Tubes, 240/277 VAC

Color/Part #	CCT*	Power	Lumens	Luminous Efficacy	CRI**	#LEDs	Power Factor
Warm White SA4200WW	3050K +/- 150	13W	1150	88 lm/W	69	249	.85
	3450K +/- 150						
White SA4200W	4000K +/- 250	13W	1250	96 lm/W	72	249	.85
	4500K +/- 250						
Cool White SA4200CW	5000K +/- 300	13W	1300	100 lm/W	75	249	.85
	5650K +/- 350						

SPECIFICATIONS

Mechanical Requirements

<i>Tube Material</i>	Dual Color Fire Retardant Polycarbonate
<i>Connections</i>	
Terminal Type	Standard two pin end caps
<i>LED Angle</i>	120 Degrees
<i>Expected Life</i>	50,000 Hours
<i>Weight</i>	4' LED tube - 12 Ounces
<i>Mounting</i>	In standard fluorescent fixture bi-pin "tombstone" sockets

Environmental Requirements

Operating Temperature	0 to 122 degrees F (0 to 50 degrees C)
Operating Humidity	0 to 90% non-condensing.

Specification may change without notice to improve quality or functionality.