



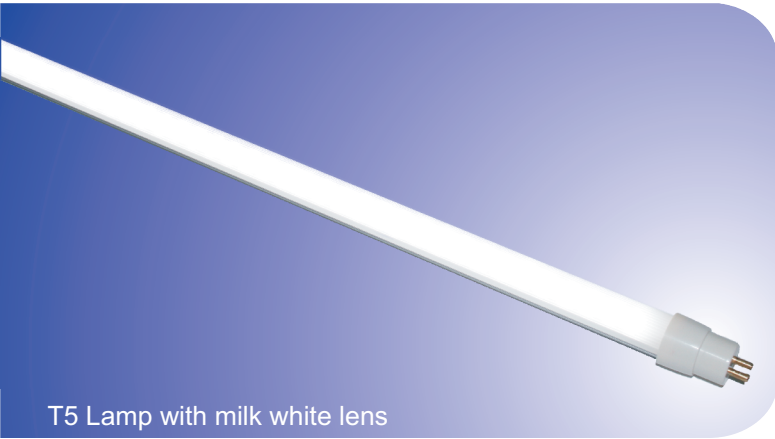
T5 AUTO SERIES

HIGH UNIFORMITY
HIGH OUTPUT

LED Smart
lighting

for use with any automotive T5 fixture

PATENTED



T5 Lamp with milk white lens

DESCRIPTION

The automotive T5 LED light tubes are a replacement for the traditional fluorescent light tubes that are used in many coaches and transportation applications today.

Saving approximately 50% of energy in comparison with a traditional T5 fluorescent. There is also the additional savings in regards to the replacement and maintenance of the fluorescent tubes and ballasts, because LEDs require little to no maintenance and no ballasts.

The additional advantages of the T5 LED tubes is that they have less heat, low EMI, and no UV.

The design of the T5 light tubes are designed so as to have a very even light output while maintaining a very bright light output.

FEATURES

The special features of the LED Light Tube are:

- Solid state lighting device, works well in harsh environments of hot or cold temperatures
- Instant on, no warm up time required
- Lasts at least 5 times longer than fluorescent
- Low EMI emissions, to eliminate radio interference
- Designed to replace conventional fluorescent lamps
- Vibration proof features
- Lead Free Compliant, Mercury Free
- No ballast required

STANDARD FEATURES

- 24", 36", 48" and 60" lengths
- Cool White LEDs (5000K)
- 24V Operating Voltage
- Milk White or Clear lens
- Mini Bi-Pin (G5), Instant start connection type
- T5 Fluorescent replacement (fits T5/T6 size)

OPTIONAL FEATURES

- Other lengths upon special request
- Colors: Super White (6000K), Warm White (2800K), Neutral White (3500K), Mid White (4100K)
- Other colors upon request
- Operational voltages for special applications



NOTES & PATENT INFORMATION

US Patent # 7,307,391

China Patent #

International Patents Pending

Designed and Manufactured in North America

WARNINGS & SAFETY

High power LEDs have a high intensity of light in a single point. Avoid looking directly at the source of light for any prolonged time as it could cause retinal damage. This light source should be shielded with the lens as provided by LED Smart Inc. The removal of the lens would void all warranties and liability from the manufacturer and distributor of this product.

LED Smart Inc. works to continually improve our products, we reserve the right to change or modify the designs or specifications of this product at any time without prior notice. All rights reserved. This product is under a patent and patent pending protection.





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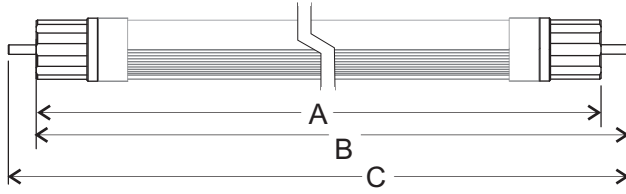
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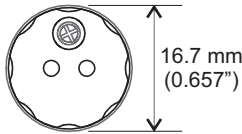
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DIMENSIONS



End View
(Actual Size)



Nominal Length	A (End to End)				B (Pin to End)				C (Pin to Pin)			
	INCH		MM		INCH		MM		INCH		MM	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
12"		11.35		288.2	11.53	11.63	292.8	295.4		11.91		302.5
21"		20.31		516	20.54	20.63	521.6	524		20.91		531.1
24"		21.61		549	21.8	21.89	553.7	556.1		22.17		563.2
36"		33.43		849	33.61	33.70	853.7	856.1		33.98		863.2
48"		45.24		1149	45.42	45.52	1153.7	1156.1		45.80		1163.2
60"		57.05		1449	57.23	57.33	1453.6	1456.1		57.60		1463.1

ELECTRICAL SPECIFICATION

Nominal Length (inch)	Lens Type	LED TYPE	Input Voltage (DC Volts)			Input Current (Amp)			Luminous Intensity (Lumens)		Power Consumption (Watts)	
			MIN	TYP	MAX	MIN	TYP#	MAX	COOL*	WARM**	TYP	
12	CLEAR	0-3	20	24	32	0.13	0.17	0.20	369	274	4	
21						0.25	0.33	0.40	738	548	8	
24						0.25	0.33	0.40	738	548	8	
36						0.38	0.50	0.60	1107	822	12	
48						0.50	0.67	0.80	1475	1096	16	
60						0.63	0.83	1.00	1844	1371	20	
12	MILK WHITE		0-3	20	24	32	0.13	0.17	0.20	275	204	4
21							0.25	0.33	0.40	549	408	8
24							0.25	0.33	0.40	549	408	8
36							0.38	0.50	0.60	824	612	12
48							0.50	0.67	0.80	1099	816	16
60							0.63	0.83	1.00	1373	1021	20

Operating Temperature: Typical 25°C (77°F) Range -40°C (-40°F) to 85°C (185°F)
Storage Temperature: -40°C (-40°F) ~ 85°C (185°F)

* Cool White Range 4745K - 6990K sorted according to US Department of Energy, EnergyStar®, and ANSI C78.377-2008 standards

** Warm White Range 2580K - 4745K sorted according to US Department of Energy, EnergyStar®, and ANSI C78.377-2008 standards

ORDERING INFORMATION

SERIES	PIN TYPE	LENGTH	VOLTAGE	LED TYPE	WATTAGE	COLOR	LENS TYPE	INTENSITY
FLV	G	XX	24	0-3	XX	X	X	X
	G5 End Cap	12 21 24 36 48 60		SEE CHART ABOVE		S = Super White (6000K) C = Cool White (5000K) D = Mid-Neutral White (4100K) N = Neutral White (3500K) H = Mid-White (3000K) W = Warm White (2800K)	C = Clear, Ribbed M = Milk White	S = Single Intensity D = Dual Intensity (100%~20%)

Example:

FLV-G-48-24-0-3-C-C-D = Premium Fluorescent Lamp Replacement, T5, G5 Base, 48", 24V, Cool White, Clear Lens, Dual Intensity (100~20)

*Contact factory for further details.

