



Associated products



LX-DGA00-209-58-T

LX-DGA00-314-58-T

LX-DGA00-416/418/422-58-T

LX-DGA00-524-58-T

- Multiple voltage input options with high brightness LED technology.
- Railway electro-magnetic compatible.
- Compliant with the Low Voltage Directive - energy saving through low power consumption.
- Designed & tested to Railway Rolling Stock stringent standards; EN50155, EN50121-3-2, EN61373, EN45545, EN60081, EN60529 and RIA1.
- LMX LED tubes have integrated colour-coded voltage verification function, ensuring accurate installation.

LMX LED's T8 rail compliant LED tube lighting features an innovative adjustable lockable end cap, enabling quick and consistent installation while optimising the direction of light distribution. They deliver bright, flicker free lighting with instant start capabilities. It is designed to connect directly to standard voltage supplies in passenger rolling stock, eliminating the need for expensive inverters.

LMX LED's T8 LED tube serves as a direct replacement for T8 fluorescent tubes, offering high reliability through advanced LED and driver technology with integrated drive electronics. These tubes provide substantial energy savings and require no maintenance for well-lit and electricity efficient railway networks. Temperature, vibration, humidity, shock, voltage fluctuation requirements have been met for high CRI and uniform illumination.

<https://lmxled.co.uk/product/t8-compliant-rail-tube/>

The most efficient LED tube lighting available in the UK and Europe.

Case Study Project

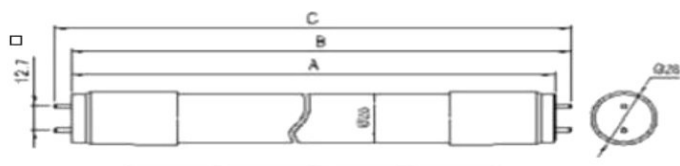
Alstom Rail required a compliant LED retrofit system to replace legacy fluorescent lighting across selected rolling stock fleets. Compatibility with existing luminaires and wiring. The new system needed to meet strict railway electrical, safety and EMC standards, while delivering improvements in energy efficiency, reliability, and passenger comfort.

Review

"We have purchased rolling stock rail tubes from LMX LED and were highly impressed with both the product quality and their professionalism. They answered all our technical questions clearly, and the tubes passed our strict compliance requirements with ease. Excellent service and a smooth overall experience."

Patrick Bernard
System Engineer - Alstom

Data	LX-DGA00-209-58-T, LX-DGA00-314-58-T
	LX-DGA00-416/418/422-58-T, LX-DGA00-524-58-T
Input Power	9W / 14W / 16W / 18W / 22W / 24W
Efficiency	160 lm/W - 5000K (4000K and 6500K also available)
Lumen Maintenance	L90 > 54,300 hrs / L80 > 108,000 hrs
Beam angle	180°
CRI (Colour Rendering Index)	>80 or >90
Colour Temperatures available	3000K / 4000K / 5000K / 6500K / OEM
Input Voltage	DC24V / DC72V / DC110V / AC230V / 50-60Hz
Voltage Range	16-36V / 50-100V / 75-154V / 165-275V
Power Factor (PFC)	>0.9
Flicker	Flicker Free
Length	600mm / 900mm / 1200mm / 1500mm or OEM
Weight	173g / 250g / 300g / 350g
Housing material	Aluminium body and polycarbonate frosted diffuser
Connector	G13 Lamp Holder
Connector rotation	90°
IP Rating	IP40
Operating Temperature	-25°C to 70°C
Storage Temperature	-30°C to 80°C
Designed Service Life	50,000 hours / 5.7 years
MTBF of Driver	806,026 hours / 92 years
Switch Cycles	50,000
Standards	EN 50155, EN 50121-3-2, EN 61373, EN 45545, EN 60081, EN 60529, EN 62776, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, IEC 62776, IEC 62031, ENC Directive Compliance, RIA 12, LVD (Low Voltage Directive) and RoHs.



Type	A	B	C
0.6m	590mm	596mm	602mm
0.9m	894mm	900mm	906mm
1.2m	1198mm	1206mm	1212mm
1.5m	1498mm	1506mm	1512mm