

1083 Series - 110VDC LED 2G11 12W 230mm Tube



Product Overview

- › Rolling Stock Compliant.
- › High reliability LED and driver technology.
- › Built in drive electronics for direct connection to power source.
- › Significant energy savings.
- › Zero maintenance costs.
- › Flicker free lighting with instant start.
- › No mercury content, environmentally friendly.



Safety Specification

The 1083 Series comes equipped with the following protection circuitry:

- › DC input voltage reversal (Non destructive).
- › Input transient protection.
- › Under voltage protection.
- › Built in multiple LED circuit redundancy.
- › Protected against power supply interruptions (EN50155 Class S2 and C2)

The 1083 series is EN45545 compliant including the Lexan EX9332T polycarbonate diffuser.

Product Codes

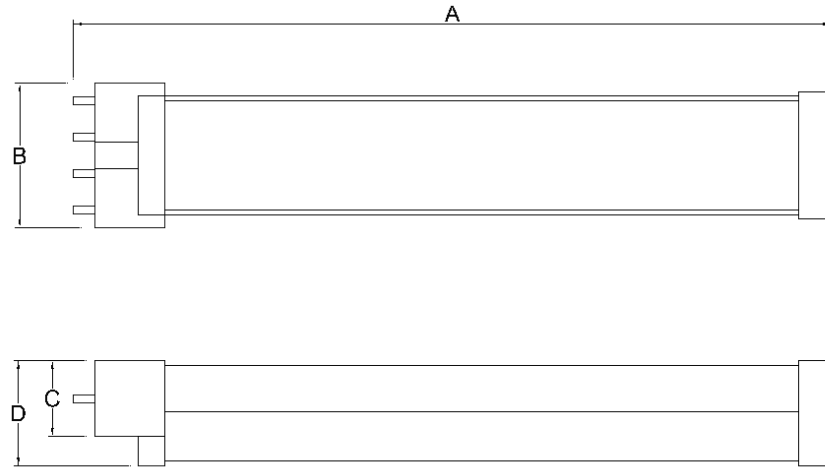
	Warm	Natural	Cool
110VDC LED 2G11 230mm Tube	TBA	10831000	TBA

Technical Overview

Size	230mm	
Input Voltage Range	67 - 140VDC	
Input Current at Nominal Supply	0.108mA \pm 5%	
Input Power at Nominal Supply	12W	
Line Regulation (Percentage Illuminance change oversupply range 67 - 140VDC)	\pm 5%	
Colour Temperature	Warm White	3000K \pm 5%
	Natural White	4000K \pm 5%
	Cool White	6000K \pm 5%
CRI	>80	
Beam Angle	200°	
Operating Temperature Range	-25 to 55°C	
Storage Temperature Range	-25 to 55°C	
Operating Humidity Range	10%-80%	
Lumen Maintenance (time to 70% of the initial light output)	50,000 hours	
MTBF MIL-HDBK-217F (40°C) (hrs)	100,000 hours	
Designed Service Life	15 years	
Sealing Rating	IP40	
Switch Cycles	>100,000 (UIC555)	
Connector/Lamp holder	2G11	
Weight	166g	

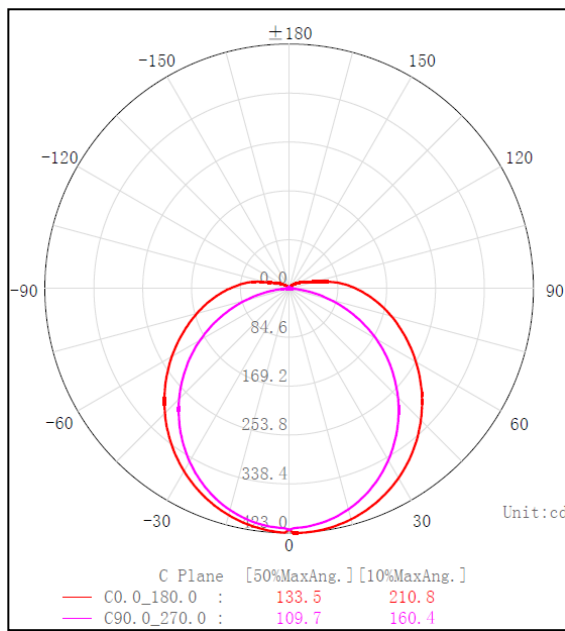


Mechanical Details



Unit Dimensions				
Size	A	B	C	D
230mm	230mm	44mm	23mm	32mm

Photometric Data



Size	Output (Lumens)
230mm	1450lm



Compliance

The 1083 Series product complies with the following standards and directives:

- › EN61373:2010 Rolling stock equipment. Shock and vibration.
- › EN50121-3-2:2015 Rolling stock equipment. Electromagnetic compatibility.
- › EN50155:2007 Electronic equipment used on rolling stock.
- › BRB/LUL RIA12 Surge and transient requirements.
- › EN45545 Fire protection on railway vehicles.
- › EN61347-2-13
with EN61347-1 LED Control Gear
- › EN62031
with EN62471: Photobiological Safety of Lamps
- › ROHS Restriction of Hazardous Substances

This is a draft specification, figures may change due to further testing.

