

1080 Series LED T5 Fluorescent Lamp Replacement



Product Overview

- › Rolling Stock Compliant.
- › Replaces T5 Fluorescent lamps.
- › 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 1080 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 1080 series is EN45545 compliant including the Lexan EX9332T polycarbonate diffuser.

Product Codes

	Warm	Natural	Cool
24V DC White 1463mm T5	10801004	10801000	-
24V DC White 863mm T5	10801005	10801001	-
110V DC White 1463mm T5	10801006	10801002	-
110V DC White 1163mm T5	-	10801010	-
110V DC White 863mm T5	10801007	10801003	-
110V DC White 563mm T5	10801008	10801011	-
110V DC White 302.5mm T5	10801009	-	-



LPA Lighting Systems
Ripley Drive
Normanton
Wakefield
WF6 1QT

Email | enquiries@lpa-light.com
Website | www.lpa-group.com
Switchboard | +44 (0) 1924 224100
Fax | +44 (0) 1924 224111

Technical Overview (24V DC)

Size	T5 1463mm	T5 863mm
Input Voltage Range	16.8 - 32V DC	
Input Current at Nominal Supply	1004mA \pm 5%	583mA \pm 5%
Input Power at Nominal Supply	24W	14W
Weight	220g	136g

Technical Overview (110V DC)

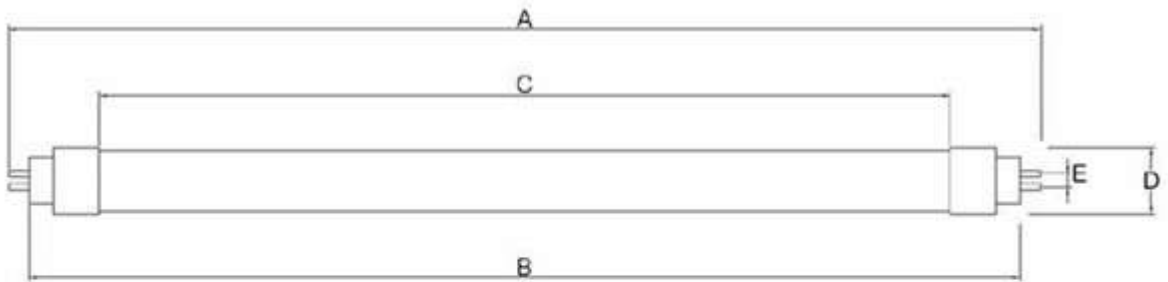
Size	T5 302.5mm	T5 563mm	T5 863mm	T5 1183mm	T5 1463mm
Input Voltage Range	67—140V DC				
Input Current at Nominal Supply					
Input Power at Nominal Supply	5W	9W	14W	19W	24W
Weight			136g		220g

All

Line Regulation (Percentage Illuminance change oversupply range)	\pm 5%
Colour Temperature	Warm White 3000K \pm 5%
	Natural White 4000K \pm 5%
	Cool White 6000K \pm 5%
CRI	>80
Beam Angle	180°
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)	65,000 hours
MTBF MIL-HDBK-217F (40°C) (hrs)	109,923 hours
Designed Service Life	15 years
Sealing Rating	IP40
Switch Cycles	>100,000 (UIC555)
Connector	2 x G5 bipin. Compliant with EN60081

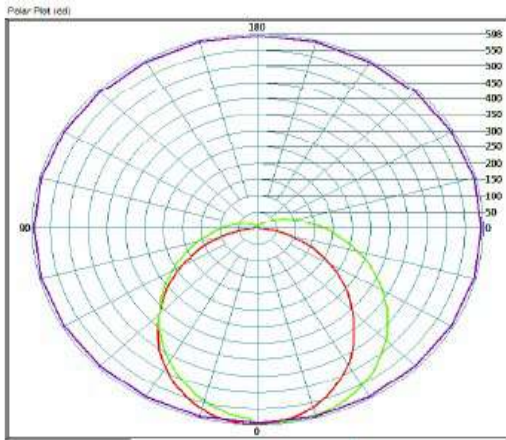


Mechanical Details



Size	A	B	C	D	E
T5 302.5mm	302.5mm	288.3mm	244.9mm	23mm	4.75mm
T5 563mm	563mm	549mm	505.6mm	23mm	4.75mm
T5 863mm	863mm	849mm	805.6mm	23mm	4.75mm
T5 1163mm	1163mm	1149mm	1105.6mm	23mm	4.75mm
T5 1463mm	1463mm	1449mm	1405.6mm	23mm	4.75mm

Photometric Data



Size	Output (Lumens)
302.5mm	600lm
563mm	1080lm
863mm	1680lm
1163mm	2280lm
1463mm	2880lm



Installation Guide

Fits existing G5 lamp holders.

Remove original fitment lighting ballast.

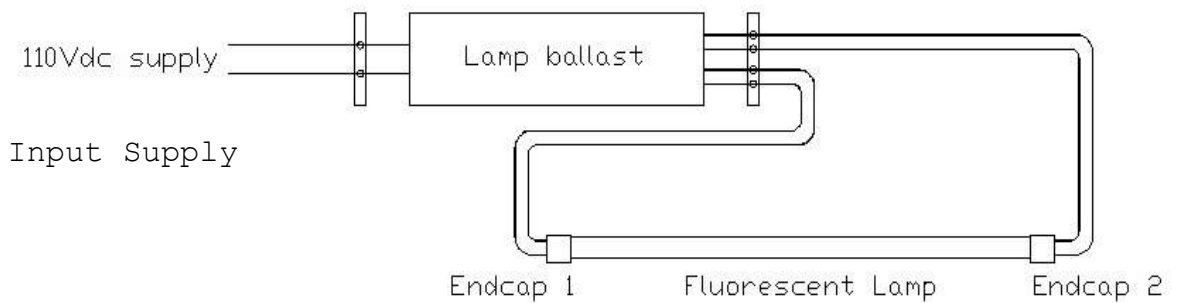
Link supply connections over to lamp holder connections.

Positive (24V DC or 110V DC) and Negative (0V) to endcap 2

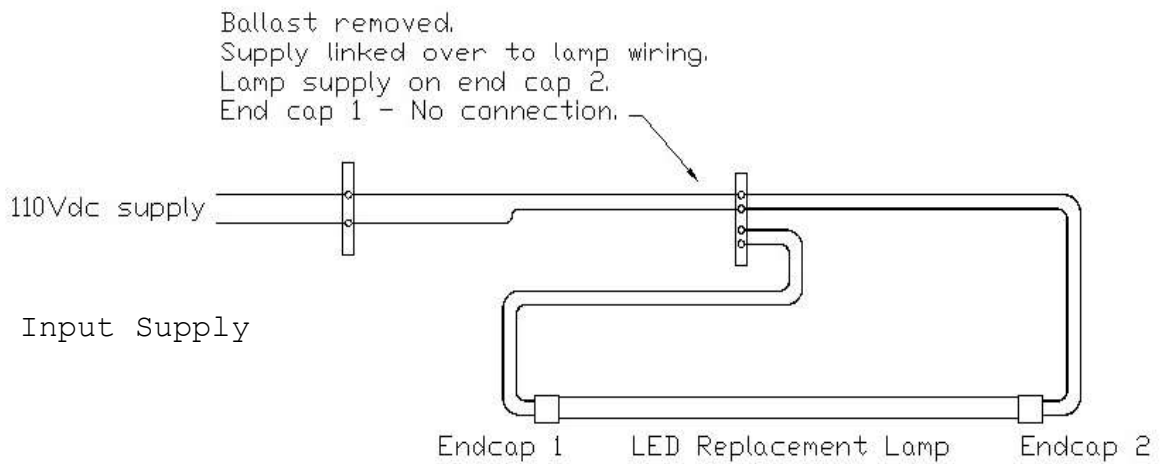
Endcap 1 = No Connection

Unit will operate correctly on either polarity.

ORIGINAL LAMP CONNECTION DETAILS



LED REPLACEMENT LAMP CONNECTION DETAILS



UK
CA

CE



Mounting Clip

Optional for longer lengths

Part Number: A-LMPH-034

Compliance

The 1080 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.

