

IMPORTANT: IN THE INTEREST OF PRODUCT PERFORMANCE AND SAFETY PLEASE READ THESE INSTALLATION AND WARRANTY INSTRUCTIONS BEFORE INSTALLING THE PRODUCT.



SAL products are designed in accordance with all mandatory International and Australian Standards, which require installation by a qualified installer and regular cleaning and maintenance of the equipment. Products are sold in accordance with the following instructions and SAL standard terms and conditions of sale, which are available via www.sal.net.au.

LT8G LED TUBE LIGHT electrical and installation specification effective 06/12/2018.

Model No.	Input (V)/(Hz)	Power (W)	Line Current (A)	In-rush Current (A)	Lumens (lm)	CCT (K)	Beam Angle	CRI	Mass (N.W. kg)	Dimension (mm)
LT8G60WW	240/50	9	0.06	15A Max.@100µs	850	3000	320°	>80	0.105	Ø26 x 600
LT8G60CW	240/50	9	0.06	15A Max.@100µs	900	4000	320°	>80	0.105	Ø26 x 600
LT8G60DL	240/50	9	0.06	15A Max.@100µs	950	6000	320°	>80	0.105	Ø26 x 600
LT8G90WW	240/50	12	0.075	15A Max.@100µs	1150	3000	320°	>80	0.14	Ø26 x 900
LT8G90CW	240/50	12	0.075	15A Max.@100µs	1200	4000	320°	>80	0.14	Ø26 x 900
LT8G90DL	240/50	12	0.075	15A Max.@100µs	1200	6000	320°	>80	0.14	Ø26 x 900
LT8G120WW	240/50	18	0.12	15A Max.@100µs	1750	3000	320°	>80	0.19	Ø26 x 1200
LT8G120CW	240/50	18	0.12	15A Max.@100µs	1800	4000	320°	>80	0.19	Ø26 x 1200
LT8G120DL	240/50	18	0.12	15A Max.@100µs	1900	6000	320°	>80	0.19	Ø26 x 1200
LT8G150WW	240/50	24	0.16	15A Max.@100µs	2280	3000	320°	>80	0.23	Ø26 x 1500
LT8G150CW	240/50	24	0.16	15A Max.@100µs	2400	4000	320°	>80	0.23	Ø26 x 1500
LT8G150DL	240/50	24	0.16	15A Max.@100µs	2400	6000	320°	>80	0.23	Ø26 x 1500

Power factor	> 0.9	Body Colour	Opal
Operating ambient min/max (°C)	-10 ~ 40	Storage ambient limit (°C)	0 to 60
Operating humidity	+10% to 80% RH, NC	Storage humidity	+10% to 85% RH, NC
Calculated TM - 21, L ₇₀ @ 85 °C (hrs)	54,000	Reported TM - 21, L ₇₀ @ 85 °C (hrs)	54,000
Aiming restrictions (if any)	N/A	Product application	Interior commercial & residential
IK rating (if relevant)	N/A	Product installation orientation	Designed for G13 lamp holders - horizontal ceiling mount
CCT, (k) switch control (TC)	No	Dimmable	No
Insulation cover rating (if any)	N/A	PIXIE connectivity	No
IP rating	20	Attachment type	N/A
IP rating for interior products: The designated IP rating is "from below the ceiling" unless otherwise specified.			
IP rating ALL products: Termination of the product must be made in accordance with the IP rating.			
Earth Leakage current: Is calculated in accordance with AS/NZ 60598.1.2013 table 10.3.			

General product application requirements (where applicable) :

- 1. Recycling** – SAL encourages recycling, please consider the environment when disposing off packaging and components.
- 2. Switching or test intervals** – For optimum product performance, good design practice does not encourage 24/7 operation of lighting products without the provision of a routine switching or regulatory test cycle. As a guide for continual operation installations, a twelve (12) hour duration for Industrial and Commercial applications and six (6) hour duration for Residential applications should be considered.
- 3. Product maintenance** – In line with the relevant design standards and to protect your investment, it is important to have in place a routine cleaning program that reflects the installation environment and maintains the product in a clean and functional condition.
IMPORTANT - The supply must be isolated before any product maintenance or cleaning is conducted. In addition, damage to ANY cable or cord supplied with the product must be addressed as follows; For attachment type X having a specially prepared cable, if the external flexible cable is damaged, it must be replaced by an equivalent cable exclusively available from the manufacturer or authorised installer. For attachment type Y, if the external flexible cable is damaged, it must be exclusively replaced by an equivalent cable by the manufacturer or authorised installer. For attachment type Z, if the external flexible cable is damaged, the cable cannot be replaced and the luminaire must be destroyed.
- 4. Adverse, corrosive and coastal installation applications** – Unless the product is specifically designated for such applications in these installation instructions, which is supported by a professional maintenance program; installation of equipment in such environments is not recommended.
- 5. Dimming products** – Dimming circuits and product compatibility must be validated by the installer before installation; SAL cannot be responsible for third party changes in dimmer compatibility.
- 6. Suspended products** – For installation safety, any suspended products must NOT be installed in high air movement spaces or locations subject to impact.
- 7. Light source replacements** – (non-replaceable light sources) - The light source of the product is deemed not replaceable, when the product reaches its end of life, the complete product must be replaced by a qualified installer. (Non-user replaceable light sources) - The light source of the product must only be replaced by the manufacturer or qualified installer. **Caution, risk of electric shock.**
- 8. Interior downlights and sensors with remote drivers** – The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. Drivers are not designed for installation environments that restrict conventional airflow.

9. Specific installation procedures

9.1 This tube kit is tested to comply with AS/NZS 60598.2.1:2014

9.2 Notes

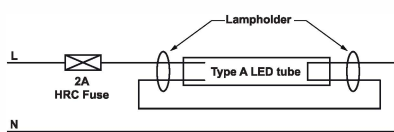
- The lamp includes a built-in driver, and is NOT suitable for dimming.
- The lamp is NOT suitable for use in emergency luminaires designed for double-capped fluorescent lamp(s).
- The lamp does NOT exceed the photobiological hazard ratings for Risk Group 1 (low risk), in accordance with Clause 6.1.2 of AS/NZS IEC 624 71 :2011.

9.3 Starter Replacement Fuse

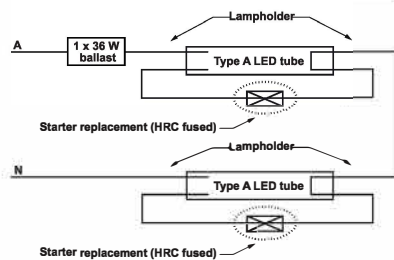
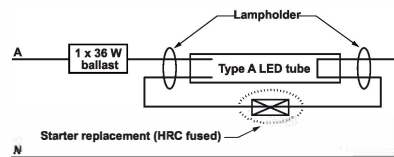
- A fuse provided with the lamp shall be used to protect a fluorescent lamp that is inadvertently installed against short circuits. Each fuse can be used to protect a maximum of two lamps.
- The supplied fuse replacement rating sticker shall be placed on the luminaire and shall be visible during fuse replacement.
- The rating of the lamp shall not exceed the maximum wattage of the lamp that it is intended to replace or the total wattage of the replacement lamps shall not exceed the maximum wattage of the luminaire.

9.4 **Important Warning:** The luminaire that these LED tubes are installed in may need to be converted in accordance with AS/NZS60598.2.1:2014 by a suitably qualified person. In all instances any electronic components (i.e. driver, electronic ballast, capacitor) must be removed from the circuit.

9.5 Wiring diagram New luminaire example



Retrofit or Modified luminaires:
Refer to AS/NZS60598.2.1:2014 for wiring diagrams



The instructions for lamps intended for use in a new luminaire shall include the following warnings:

WARNING: The supplied warning sticker shall be placed on the luminaire and shall be visible during lamp replacement. **WARNING:** A fuse shall be used to protect a fluorescent lamp that is inadvertently installed against short circuits. Each fuse shall (a) be of the 250 V HRC type; (b) have a 2 A max. quick-acting type rating; and (c) be used to protect a maximum of two lamps. The luminaire shall have a fuse replacement rating label. **WARNING:** The rating of the lamp shall not exceed the maximum wattage of the lamp that it is intended to replace or the total wattage of the replacement lamps shall not exceed the maximum wattage of the luminaire. **NOTE:** Manufacturers should specify minimum requirements for the operations of their lamps, including spacing, enclosure design and temperature limitations.

The instructions for lamps intended for use in an existing luminaire that requires modification other than replacement of the lamp or starter shall include the following warnings: **WARNING:** The manufacturer of the original luminaire will no longer be responsible for the compliance of the modified product. Any modifications made to the original luminaire may alter the safety aspects of the original luminaire; hence compliance assessments of the original luminaire may no longer be applicable to the modified luminaire. **WARNING:** The supplied warning sticker shall be placed on the luminaire and shall be visible during lamp replacement. **WARNING:** A fuse shall be used to protect a fluorescent lamp that is inadvertently installed against short circuits. Each fuse shall (a) be of the 250 V HRC type; (b) have a 2 A max. quick-acting type rating; and (c) be used to protect a maximum of two lamps. **NOTE:** A quick-acting type fuse is defined in the IEC 60127 series as 'Type F'. The luminaire shall have a fuse replacement rating label. **WARNING:** The rating of the lamp shall not exceed the maximum wattage of the lamp that it is intended to replace or the total wattage of the replacement lamps shall not exceed the maximum wattage of the luminaire.

9.6 **For lamps intended for use in an existing luminaire that requires modification other than replacement of the lamp or starter:** The manufacturer of the original luminaire will no longer be responsible for the compliance of the modified product. Any modifications made to the original luminaire may alter the safety aspects of the original luminaire; hence compliance assessments of the original luminaire may no longer be applicable to the modified luminaire.

10. **Warranty** – In accordance with SAL's standard terms and conditions of sale, SAL warrant this product to be free from defects in materials and or workmanship for a period as stated below for goods not subject to incorrect installation, maintenance, operation, mishandling, environmental, unauthorised modifications or electrical operating conditions outside the nominated product specification as detailed in these installation instructions. The benefits to you given by this warranty are in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty term – Twelve (12) months for commercial use and twenty four (24) months for residential use from date of purchase.

How to make a claim?

Step # 1 – Within 30 days of the fault discovery, please contact the original place of the SAL product purchase during standard (local) business hours, with the following information (a) proof of purchase (b) description and quantity of the claimed fault (c) address of installation. (d) operating hours of the product.

Step # 2 – It is then the responsibility of the original place of product purchase to report the matter to SAL aftersales;

NSW | ACT | QLD – SAL Pty Ltd 40 Biloela Street Villawood NSW 2163 | P: 02 9723 3099

VICT | TAS | SA | NT | WA – SAL Pty Ltd 46-48 Keys Road Moorabbin Victoria 3189 | P: 03 9532 3168

Step # 3 – Upon review of your claim and if the product is required to be returned to SAL for technical evaluation, then at the owners expense the product must be returned to SAL as per the above nominated locations.

Step # 4 – Pending the evaluation, the claim will be validated resulting in the product being repaired or replaced with the same or best equivalent product at the discretion of SAL, or rejected if the product fault was found to be caused by conditions beyond the responsibility of SAL warranty obligations. Consideration of installation, product removal, return freight and or testing fees are not the responsibility of SAL.