

1. Activity Specific Definitions

Luminaire means apparatus which distributes, filters or transforms the light transmitted from one or more lamps and which includes, except the lamps themselves, all the parts necessary for fixing and protecting the lamps and, where necessary, circuit auxiliaries together with the means for connecting them to the electric supply

2. Activity Description (Summary)

Replace a T8 or T12 fluorescent luminaire with a T5 fluorescent luminaire or LED luminaire. Note that lamp-only replacements and modifications to existing luminaires (such as T5 adaptor kits or retrofit T5/LED lamps) are not included.

3. Activity Eligibility Requirements

1. All equipment that is replaced must be in working order immediately prior to removal.
2. Replaced equipment must be a 2-foot or 4-foot T8 or T12 fluorescent luminaire.

4. Installed Product Requirements

The installed product shall—

1. Be installed at the time of removal of the existing equipment.
2. Have a measured average initial luminous flux of at least the corresponding* value in column 2 of the table below (verified by test report utilising test procedures as required by one of the programs below). *Note that this should correspond to the class of replaced luminaire.
3. Provide a minimum 2 years replacement warranty.
4. (A) Be approved by the NSW ESS scheme; or (B) meet the Designlights Technical Requirements Table v2.1 by providing current proof of program certification.
5. Fluorescent lamps shall have a rated life of at least 20,000 hours.

5. Minimum Installation Requirements

1. A person or entity undertaking this activity shall use best endeavours to ensure that any replacements are targeted at high usage luminaires in the first instance.
2. All equipment replaced shall be removed from the premises and not re-used.
3. Installed equipment shall not be connected to a transformer, dimmer, timer, motion sensor, daylight switch or other automated switch or control (or combination thereof) unless specified by the manufacturer as being compatible with such device or combinations of devices.
4. If connected to a dimmer, the installer shall test the equipment through its full dimming range to ensure that the equipment works to the satisfaction of the customer.
5. Where installed equipment causes sub-optimal operation, the installer shall either reinstall equipment equivalent to the original equipment or replace any components of the equipment that are causing the installation not to operate, at no expense to the resident. Such a request for reinstatement must be acted upon if made within 20 business days of the installation of the new equipment.
6. The Activity must be performed by a licensed electrical worker under the supervision of a licensed electrical contractor.

6. Activity energy savings

The normalised energy saved per unit installed is equal to:

Normalised Energy Savings (GJ) = The relevant Savings factor in the tables below:

Normalised savings from replacement with T5/LED luminaire (2-foot)

Existing 2-foot Luminaire	Replacement luminaire (light output and rated power)						
	Minimum luminaire light output (lm)	≤ 10W	≤ 15W	≤ 20W	≤ 25W	≤ 30W	≤ 35W
Single-lamp T8/T12	1,000	0.58	0.40	-	-	-	-
Twin-lamp T8/T12	2,000	-	1.33	1.15	0.97	0.79	0.61

Normalised savings from replacement with T5/LED luminaire (4-foot)

Existing 4-foot Luminaire	Replacement luminaire (light output and rated power)									
	Minimum luminaire light output (lm)	≤ 20W	≤ 25W	≤ 30W	≤ 35W	≤ 40W	≤ 45W	≤ 50W	≤ 55W	≤ 60W
Single-lamp T8/T12	2,200	0.86	0.68	0.50	-	-	-	-	-	-
Twin-lamp T8/T12	4,400	-	-	2.09	1.91	1.73	1.55	1.37	1.19	1.01

7. Guidance Notes (Informative only – not mandatory)

All reasonable endeavours should be undertaken to recycle removed equipment.

Designlights requirements are available at:

<https://www.designlights.org/Content/QPL/ProductSubmit/CategorySpecifications>