

1. Activity Specific Definitions

Integral referring to a lamp means that the power supply electronics are integrated into the lamp housing allowing direct connection to the existing power supply (typically using a Bayonet cap or Edison screw fitting).

Standard LED means an integral LED lamp.

High Efficiency LED means an integral LED lamp with initial efficacy of not less than 80 lm/W.

2. Activity Description (Summary)

Replace a mains voltage incandescent or halogen lamp (non-directional or directional) with a compact fluorescent integral lamp (CFL) or light emitting diode integral lamp (LED).

3. Activity Eligibility Requirements

1. The number of individual lamp replacements in any one premises shall not exceed 20, unless the recipient causes payment to the installer for the goods and services provided.
2. Where such payment is required, a valid tax invoice must be retained for verification purposes, clearly showing the completion date, the address that the lamps was installed in, the name and contact details of the person billed for the installation, and the amount charged for the installation.
3. All equipment that is replaced must be in working order immediately prior to removal.
4. Replaced equipment (lamp) shall have rated power according to Table L1A (non-directional lamps) or Table L1B (directional lamps). Refer column B for tungsten incandescent and column C for halogen lamps. If required, intermediate values of rated power are referenced to the next lower rated power.

4. Installed Product Requirements

The installed product (both CFL and/or LED) shall—

1. Be installed at the time of removal of the existing equipment.
2. Have a rated colour temperature not exceeding 3000 Kelvin, unless otherwise authorised by the occupant of the premises.
3. Have a measured average initial luminous flux (verified by test report - for CFLs test procedure AS/NZS 4847.1 or IEC 60969; for LEDs test procedure as required by the programs described below) of at least the corresponding* value in column D of Table L1A (non-directional lamps) or Table L1B (directional lamps). *Note that this should correspond to the class of replaced lamp.
4. Provide a minimum 2 years replacement warranty.

The installed product (if CFL) shall:

5. Have a measured median lamp life of 10,000 hours or more, verified by test report (test procedure AS/NZS 4847.1 or IEC 60969).
6. Have a current, approved registration in the MEPS registration system (www.energyrating.gov.au).

The installed product (if LED) shall:

7. (a) Be approved under the NSW ESS scheme, or (b) demonstrate compliance with either Energy Star Integral LED Lamps V1.4 or Energy Star Lamps V1.0 by providing, where required for verification, current proof of program certification.
8. For High Efficiency LEDs, demonstrate, where required for verification, through test reports from a NATA or Energy Star recognised laboratory, a minimum initial efficacy of not less than 80 lm/W.

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 person undertaking this activity in a residential customer's premises must satisfy the REES Code mandatory safety training requirements. Registered Plumbers, Gas Fitters, Electricians and Building Work Supervisors are exempt from this requirement.

6. Activity energy savings

The normalised energy saved per lamp installed in a residential premises is equal to:

Normalised Energy Savings (GJ)=Savings factor expressed in column E, F or G of the tables below, as applicable:

Table L1A: Non-Directional Lamps

A	B	C	D	E	F	G
Class	Removed typical incandescent lamp: power (W)	Removed lamp: typical rated halogen lamp power (W)	Installed lamp: minimum luminous flux (lumens)	CFL Savings Factor	Standard LED Savings Factor	High Efficiency LED Savings Factor
1	40	28	350	0.38	0.39	0.53
2	60	42	650	0.55	0.58	0.75
3	75	53	850	0.71	0.74	0.92
4	100	70	1,150	0.95	0.99	1.19
5	150	105	1,800	1.45	1.51	1.73

Table L1B: Directional Lamps

A	B	C	D	E	F	G
Class	Removed typical incandescent lamp: power (W)	Removed lamp: typical rated halogen lamp power (W)	Installed lamp: minimum luminous flux (lumens)	CFL Energy Savings (GJ)	Standard LED Energy Savings (GJ)	High Efficiency LED Energy Savings (GJ)
1	40	28	250	0.89	1.17	1.24
1a	50	35	350	1.10	1.43	1.53
2	60	42	460	1.32	1.69	1.82
3	75	53	600	1.66	2.10	2.26
4	100	70	810	2.26	2.78	3.00
4a	120	84	990	2.72	3.31	3.59
5	150	105	1,260	3.45	4.14	4.48

7. Guidance Notes (Informative only – not mandatory)

All reasonable endeavours should be undertaken to recycle removed equipment.