

# General Guidance

## Requirements for a recessed luminaire with detachable power supply or controlgear

STANDING COMMITTEE OF OFFICIALS (SCO)

Secretariat: c/o Electrical Safety Office Queensland

GPO Box 69, Brisbane QLD 4001

[eess.secretariat@oir.qld.gov.au](mailto:eess.secretariat@oir.qld.gov.au)

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## Recessed luminaire supplied with a detachable power supply or controlgear

### Question

Is a recessed luminaire with connector for connection to the driver excluded from the definition of 4417.2?

In this question, the clarification concerns the recessed luminaire part.

### Example of such recessed a luminaire



### Answer

The detachable recessed luminaire part (rated at less than 120Vdc) is **NOT** in-scope electrical equipment and it does **NOT** meet the definition of "Recessed luminaire – light-emitting semiconductor type" under B.2.54 in AS/NZS 4417.2.

Notwithstanding the above, the recessed luminaire still needs to comply with the relevant safety standards for recessed luminaires as per applicable legislative requirements (it is just not 'in-scope electrical equipment').

NOTE: The controlgear (LED Driver in above picture) is an independent type which is separate level 3 in-scope electrical equipment.

## Background and Rationale

This guidance material results from a request to clarify if a recessed luminaire supplied with a detachable power supply or controlgear is within the definition of AS/NZS 4417.2 (i.e. is it 'in-scope electrical equipment' and if so does it fit within definition of recessed luminaire in As/NZS 4417.2)?

The term "in-scope electrical equipment" is defined in EESS law and means electrical equipment that is:

- rated at a voltage greater than 50 V AC RMS or 120V ripple-free DC; and
- rated at a voltage less than 1000V AC RMS or 1500V ripple-free DC; and
- is designed or marketed as suitable for household, personal or similar use.

Therefore the luminaire described above (rated at 60Vdc), by its rated voltage input is not in-scope electrical equipment.

The recessed luminaire definition in AS/NZS 4417.2 under B.2.54 b) requires any additional elements necessary for stable operation of the light source to be "incorporated within or permanently connected to the device".

Therefore this recessed luminaire does not fit the recessed luminaire definition of B.2.54 in AS/NZS 4417.2, given that the controlgear associated with the luminaire which is necessary for its operation is neither incorporated nor permanently connected to the luminaire.