

# Cleanroom LED IP44



Luminaire's light distribution is direct.

**LED**

Denotes which light source/light sources that can be supplied with the luminaire.



IP Classification: Product is IP44 : Protected against solid objects over 1mm (tools, wires, and small wires). Protection against splashing water from any direction (splash proof) - limited ingress permitted.



Class 1: Appliances with functioning insulation. Equipped with an earth termination.



**RISK OF FIRE:** (a) The minimum clearance distance from the top of the luminaire to any normally flammable building element is 100mm. (b) The minimum clearance distance from the top of the luminaire to any building insulation is 100mm. (c) The minimum clearance distance from the side of the luminaire to any normally flammable building element is 100mm. (d) The minimum clearance distance from the side of the luminaire to any building insulation is 100mm. **WARNING – RISK OF OVERHEATING OR FIRE IF THE CLEARANCE DISTANCES ARE COMPROMISED.**



Luminaire is available in designs for conventional emergency lighting operation.



RCM: Indicates a device's compliance with applicable ACMA technical standards.



ESD: Personnel should be grounded when unpacking or handling the luminaire.

## Important Information

Please read this guide carefully before installing or maintaining this equipment. Data should be used as an INDICATION only and good electrical practices should be followed at all times.

Must only be installed by a licensed electrician.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or their service agent or a similar qualified person in order to avoid a hazard.

For indoor use only.

A qualified electrician, in accordance with AS/NZS 3000:2007 wiring regulations should carry out connection to mains wiring.

This unit must be EARTHED.

Ensure that the rated voltage and frequency requirements are compatible with the available mains supply, 220-240V 50Hz.

Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid.

Do not carry out high voltage insulation test i.e. 500/1000V this may damage the fixtures electrical components.

### Warning - Applicable to New Zealand (Only)

This luminaire is not suitable for installation in locations where thermal insulation is present, or may reasonably be expected to be installed in the future, or where there is a likelihood of other combustible material, e.g. Leaves or vermin debris, etc. collecting on or around the luminaire. It is not suitable for domestic installations or installation in residential areas of non-domestic installations (residential institutions, hotels, boarding houses, hospitals, accommodation houses, motels, hostels and the like).

This installation instruction is relevant to the standard version of the above family. Customised variants may have mechanical changes or may have changed mounting procedures.

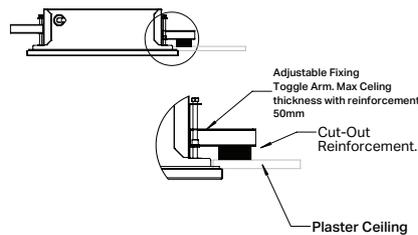
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## Exposed T-Bar

1. Lift the luminaire into the ceiling cavity.
2. Complete the electrical connection.
3. Position the luminaire centrally within the T-Bar.

## Plaster Ceiling

1. Starting from one corner release frame from base by forcing pressure upwards to release the seal in positions in the four corners. Frame will still remain attached to base by interior torsion springs.
2. Slide hand between frame and base into fitting to release torsion springs from the base. 4 x torsion springs require squeezing inward on base end of the spring to release frame from base.
3. Ensure toggle arms are turned in and run flush against body of fitting so it will enter ceiling cut out. Using Phillips head screwdriver, turn screw anticlockwise to ensure toggle recess arms are set to maximum travel to allow a maximum ceiling thickness of 50mm.  
**\*Note: Ensure the ceiling has been reinforced around the cut out. Reinforcement to be fixed to the ceiling. To be supplied by contractor, reinforcement material such as timber battens, C-channel aluminium or steel is recommended. Please refer to below diagram.**



4. Use a Phillips head screwdriver in a clockwise direction to tension up toggle recess arms against inside of ceiling. Perform this on all screws to secure fitting to ceiling.
5. Once all the torsion springs are reattached, press the frame firmly against the body. This will fully engage the torsion springs and will result in a tight seal.

## Surface Mounted

1. Starting from one corner release frame from base by forcing pressure upwards to release the seal in positions in the four corners. Frame will still remain attached to base by interior torsion springs.
2. Slide hand between frame and base into fitting to release torsion springs from the base. 4 x torsion springs require squeezing inward on base end of the spring to release frame from base.
3. Remove the gear tray from the luminaire by locating and removing the securing screws.
4. Lift the surface mounted luminaire to the ceiling, feeding the supply cable through the cable entry hole.
5. Secure the luminaire onto the mounting surface with appropriate fasteners (not supplied) to suit the mounting substrate.
6. Complete electrical connection and re-secure the gear tray to the luminaire body
7. Connect the earth lanyard to the frame and install into the luminaire.

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