

V50™ Fire-rated Downlight

Installation guide for V50™ Fire-rated Downlight



Important information

- It is recommended that luminaires are installed by a qualified electrician to ensure the installation complies with the local current wiring regulations.
- Any broken or damaged parts should be replaced as soon as possible. JCC will not accept responsibility for claims arising from sub-standard installations.
- It is recommended that the ambient room temperature should not exceed 30°C.
- These products are designed for connection to a mains supply of 230-240V~ 50/60Hz
- The light source of this luminaire is not replaceable: when the light source reaches the end its life the whole of the luminaire must be replaced.
- This luminaire is suitable for indoor use only.
- It may be necessary to upgrade your MCBs to allow for increased inrush current.
- For dimming guidelines please go to: jcc.co.uk/dimming
- The green cover on the top of the luminaire can be removed if required
- This Fire-rated downlight can be loosely covered with mineral wool insulation(see "Good practice" illustration)

INSTALLATION

Specification : JC1001-Standard/JC1002- Tilt

Colour Temperature: (WW)3000K* / (CW)4000K (Switchable)

Ra: 80

Product	Wattage	Lumens	LpcW	IP
Standard	7.5W	600*/650lm	87	IP65
Tilt	7.5W	600*/650lm	87	IP20

Maximum number of fittings on a circuit is not to exceed 20

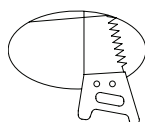
Bezel options: Brushed Nickel (BN), Chrome (CH), White (WH)
Brushed Brass(BR), Black(BLK)

- Read the instructions and ensure that you have all of the tools and accessories required to complete the installation correctly.
- Isolate power supply before starting the installation.

Installation Procedure for Standard & Tilt

- Cut the mounting hole in the ceiling; if you are unfamiliar with this process JCC recommends that a sample hole is cut in a section of spare material Please note that the Standard & Tilt versions have different diameter mounting holes (Fig. 1).

Fig.1: Cut-out Diameter V50™ Standard = Ø70mm



V50™ Tilt = Ø85mm

- Once the mounting hole has been cut to the correct diameter the mains input power feed (Fig. 2) can be wired to the driver. These luminaires are Class II, but are equipped with Earth provision, should it be required (Fig. 3).

Fig. 2: Mains input

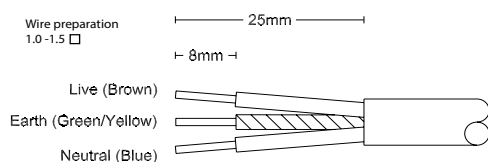
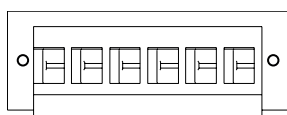


Fig. 3: Driver Input Terminals



230 - 240V 50/60Hz / Class II

LENNEL

Note: Earth provision only

- At this stage it would be advisable to ensure that the correct CCT value has been selected for the application: the options are either Warm White or Cool White, and these can be altered by means of a small slider switch. On the Standard version the switch is located behind the detachable 'twist-off' bezel (Figs. 4A & 4B) and is accessed under an integral cover, which must be carefully relocated afterwards to maintain the IP65 rating. Replace the Bezel.

Fig. 4A: Switch Cover In Situ

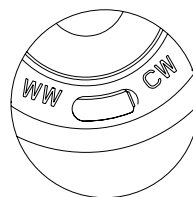
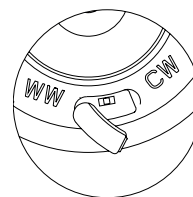
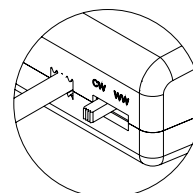


Fig. 4B: Switch Exposed

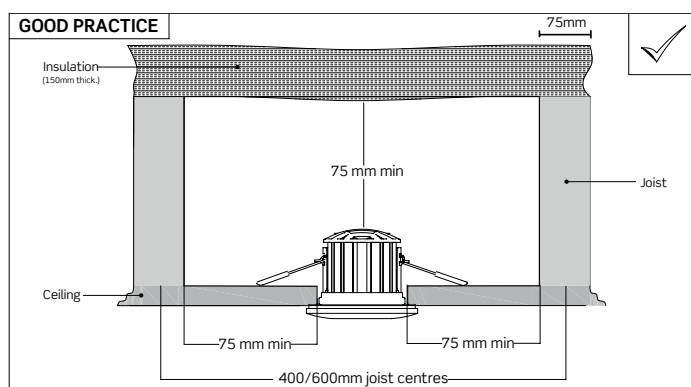


With the Tilt version the CCT Switch is situated on the body of the driver adjacent to the luminaire connecting lead (Fig. 5)

Fig.5: CCT Switch, Tilt



- Once the electrical connection has been made, and the colour temperature selected, the luminaire can now be inserted into the cut-out. Carefully push both spring clips up against the side of the luminaire and hold in place. Insert the V50 downlight into the cut-out and release the clips to securely locate the product in place.
- When the luminaire is correctly installed the power may be switched on and the product can be tested.



Part B Fire Safety

The purpose of Part B is to ensure building structures provide adequate protection to personnel to allow the safe evacuation of a building structure/complex. The regulation has been a legal requirement since 1987. All Fire-rated fittings are tested for 30, 60 & 90 minute ceilings (I Joist ceiling construction 30 & 60 minute compliant).

Part C Resistance to Contaminants and Moisture

The amount of moisture that can enter a cold roof void must be controlled; thus anything which punctures the seal between the cold roof area and dwelling area must be considered. Light fittings are a good example of intrusions into the roof area that can facilitate the passage of moisture. Fire-rated downlights have been designed with special seals to inhibit the flow of air & moisture through the fitting as required by Part C of the building regulations.

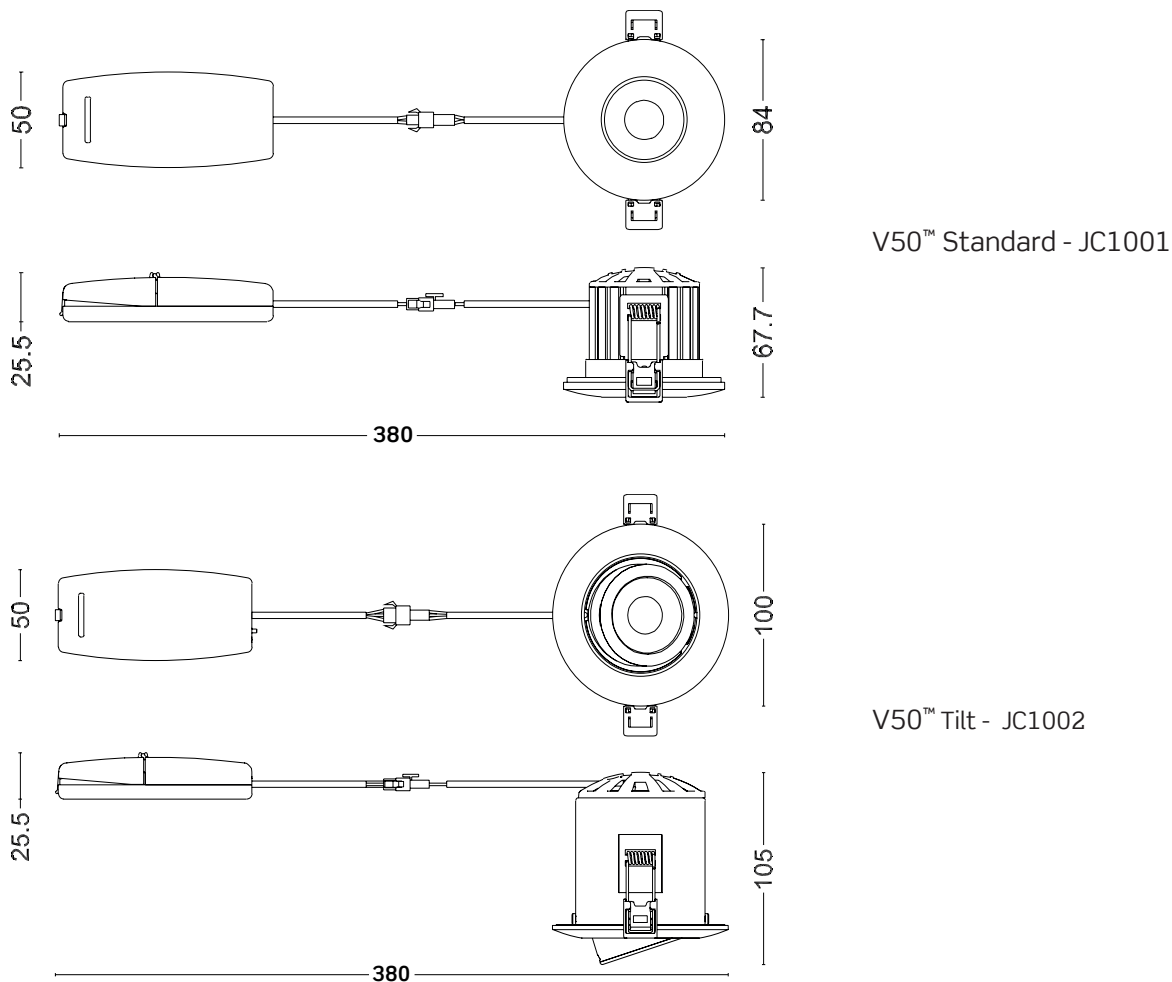
Part E Resistance to Sound

There is a general increase in the levels of background noise in a domestic environment. The Government has changed to the building regulations to ensure that reasonable noise attenuation can be expected between partition walls and ceilings not only between separate dwellings but also within individual residential area. The special gaskets incorporated into the Fire-rated design ensure that the criteria is met.

Part L Conservation of Fuel and Power

The 2006 revision to Part L has focused lighting installations on energy conservation. There is now a need for 1 in 4 downlights to be energy efficient and have an efficiency of >45Lm/w.

Profile & Dimensions



All dimensions in millimetres

Important warranty information

This luminaire is supported by a 3 year extended warranty; which must be registered online at jcc.co.uk/warranty.

The installer will be asked to provide the following information, which is detailed on a label attached to the luminaire's chassis: Product Code/Batch Code.

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