

Luminaire Classifications

240V 50Hz  **IP65**    **RoHS Compliant**

Important Information

It is recommended that luminaires are installed and fitted by a qualified electrician ensuring the installation complies to current IEE wiring regulations and local building control.

These products are designed for connection to a 230V / 240V Mains supply. This appliance will be considered Class I with Loop In / Loop Out connector and Earth provision. Switch off the mains supply before installation or servicing.

Ensure area surrounding this luminaire is cleared of any flammable substances.

Where required by building regulations this product may be loosely covered with mineral wool insulation, however JCC recommends that there be adequate free air ventilation around the luminaire wherever possible.

Dimming Guidelines

Dimmers must not be underloaded or overloaded: underloading may cause the LEDs to flash; overloading will cause the internal fuse to blow. If flickering is experienced a different kind of dimmer may be required.

Please note: DO NOT perform insulation resistance tests on a lighting circuit with a dimmer switch connected as this could damage the electronic components in the dimmer beyond repair.

A slight buzzing noise may be heard from the dimmer switch while in operation, however this is perfectly normal. These notes are intended for guidance only. JCC Lighting accepts no responsibility for unsatisfactory installations or consequent loss or damage howsoever caused. Please be aware that this LED6 Dimmable downlight should not be installed on the same dimmable circuit as the JCC LED7 dimmable downlight. Mixing these products on the same circuit may reduce the quality of the dimming function. In all cases refer to dimmer switch manufacturers instructions. For a list of tested/approved dimmers please contact our technical support department.

Extended Warranty

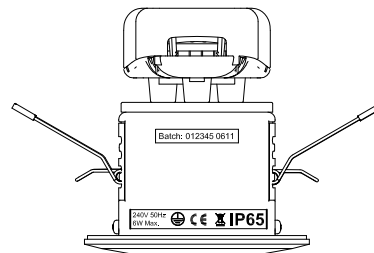
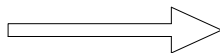
Domestic applications: Up-to eight hours per day **10 Year Warranty**

Commercial applications: Over eight hours per day **5 Year Warranty**

This product requires online registration at: www.jcc.co.uk/warranty-form/

Prior to registration the installer is asked to provide the following information directly from the luminaire chassis:

- Product Code
- Batch Code

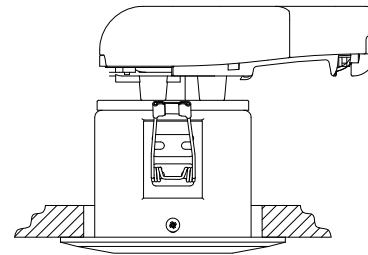


The approved electrical installer must give details of their Part P registration when installing products in domestic applications.

JCC Lighting Aftersales

Technical Support Helpline: 01243 838986 Customer Service Department: 01243 838990

Installation Procedure



94.5mm Total Height

Stage 1

Read the instructions and check you have all the tools and accessories required to complete the installation correctly.

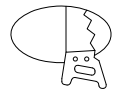
Stage 2

Cut the mounting hole in the ceiling. (JCC recommends that a sample hole is cut in a section of spare material to familiarize yourself with the process).

Cut-out Dimensions

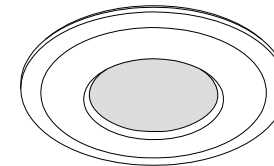
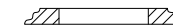
Ø71-73mm for a 30 minute (12.5mm thk.) ceiling.

Ø76-80mm for a 60-90 minute (30mm thk.) ceiling.

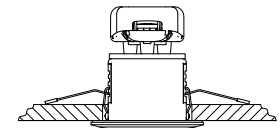
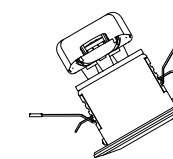


Stage 3

Connect luminaire to 240V supply (see below). Press springs back and push luminaire body into aperture.



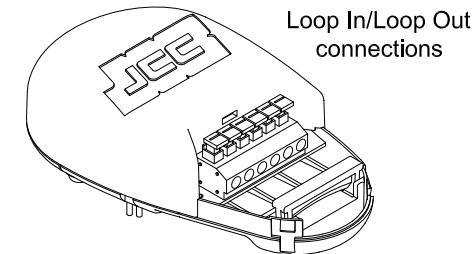
Outer Rim Ø92mm



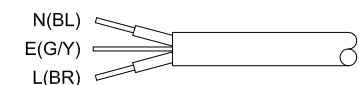
Luminaire Connections

Colour codes for UK mains wiring are:

- Live = Brown
- Neutral = Blue
- Earth = Green/Yellow.



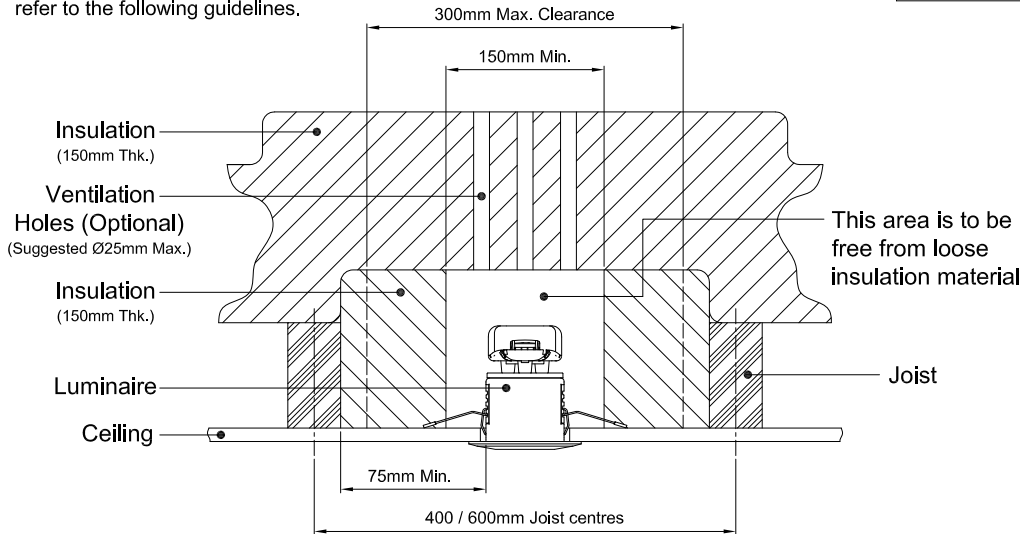
8mm Strip Length  20mm 



Mains cable preparation prior to wiring

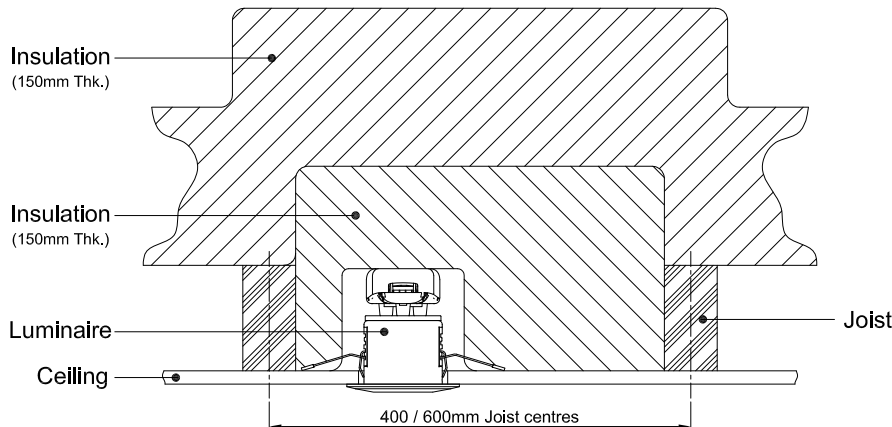
GOOD PRACTICE

If Loft Brace is not used please refer to the following guidelines.



POOR PRACTICE

1. NOT enough ventilation around the fitting.
2. NOT enough clearance between joist and fitting.



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. The level of resistance required is proportional to the risk involved and the location of adjacent dwellings. For the domestic market 30 or 60 minutes is normal however under extreme conditions 90 minutes is required. All Fireguard fittings are tested for 30, 60 & 90 minute ceilings (IJoist ceiling construction 30 & 60 minute compliant).

Part C Resistance to Contaminants and Moisture

There is a move towards breathable membranes for roofs; these replace traditional bitumen coated roofing felt and negate the need to provide ventilated eaves to roofs. For this reason 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. Fireguard downlighters 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. This has been widely enforced from the 1st of July 2005.

Part E Resistance to Sound

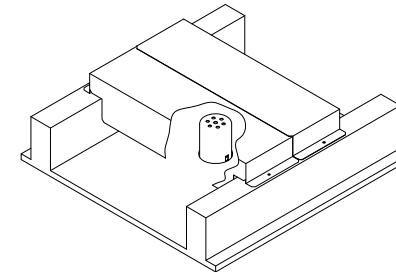
There is a general increase in the levels of background noise in a domestic environment. This additional noise has increased stress levels which result in poor health and fatigue and loss of revenue to industry through absence. The Government has changed to the building regulations to ensure that reasonable 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 Fireguard 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.

Cold Loft Spaces

To prevent accidental damage to the luminaire and to ensure good air flow around the fitting, JCC recommends the use of a 'Loft Brace'. This simple solution is designed to offer mechanical protection over the luminaire allowing all building and lighting standards to be met.



The two halves of the Loft Brace are slotted together above the luminaire location as shown and fixed to the ceiling joists using screws (not supplied).

Codes: **JC94020** Loft Brace for 400mm joist spacing.
JC94021 Loft Brace for 600mm joist spacing.