

Read these instructions before commencing installation. Please give these instructions to the owner/occupier after installation to retain for future reference/maintenance.

IP65 240V~50Hz 5W

These fittings are Class I and must be Earthed

Important Information

It is recommended that these luminaires are installed and fitted by a qualified electrician ensuring the installation complies with current IEE wiring regulations & local building control. These products are designed for connection to a 240V~50Hz supply.

Any faulty, broken or damaged luminaires should be replaced immediately.

KSR will not accept responsibility for any claims arising from a poor installation.

Please Note: The limited warranty shall be deemed null and void in the following circumstances: Failure by the installer, end user or any third party to exercise caution to protect any covered product or part from outside damage, adverse temperature (normal operating ambient temperature -10 ~ +35°C), humidity conditions, fluctuations in the electrical system or physical abuse as well as failure related to workmanship in the installation of the products or parts.

Important User Advice

Always switch off mains supply before servicing.

This luminaire is suitable for indoor use only and should not be fitted to damp or wet surfaces such as freshly plastered or painted ceilings.

Do not use Megger or similar high voltage instruments. Due to the fact this luminaire contains electronic components that maybe damaged by high test voltages, they must be disconnected from the circuit before testing.

To prevent damage to the driver, do not mix with conventional magnetic ballasts on the same electrical circuit.

At the end of life the luminaire is classed as WEEE under directive 2014/30/EU and should be disposed of in accordance with local legislation.

Installation Procedure

KSR recommends that a sample hole is cut in some scrap material to familiarise yourself with the installation. Once you are completely satisfied: Locate the area(s) suitable to install these luminaires. Cut a 70-72mm round hole in the ceiling and ensure sufficient ceiling void without infringing on joists, water pipes or electrical cables.

Connect the mains supply to the floating terminal block (Blue - Neutral, Brown - Live & Green/Yellow - Earth).

The terminal block allows for mains loop in/loop out connections, if not looping through either of the L,E & N inputs can be used. Snap the terminal cover down until the cable strain relief is gripping the outer insulation.

Press springs back and push luminaire body into aperture.

This luminaire is suitable for installations where vapor permeable membranes are installed. Fit this product as per illustration shown in Fig.1

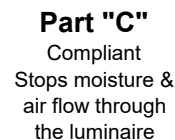
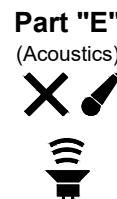
If you are installing one of the KSR detachable rims remove the standard white rim by pulling the rim off of the main fitting, do not twist the rim and attach new rim by pushing and snapping it into place. The luminaire can be loosely covered in mineral wool insulation. Turn on the mains supply and test the luminaire.

Due to changes in dimmer technology please refer to the KSR website www.ksrlighting.com for a list of compatible dimmers to ensure trouble free dimming.

*Please note: Depending on the amount of LED fittings on a circuit you may have to upgrade the breaker to a 'C' or 'D' type due to the way electronic LED drivers start up with higher inrush currents compared to halogen lighting.

	ØRim Size	ØCut out	Void Depth Req'd	LED Wattage/ Colour/Lumens
KSRFRD380	85mm	70-72mm	70mm	5W - 3000K (390 lumens)
KSRFRD381	85mm	70-72mm	70mm	5W - 4000K (410 lumens)

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced

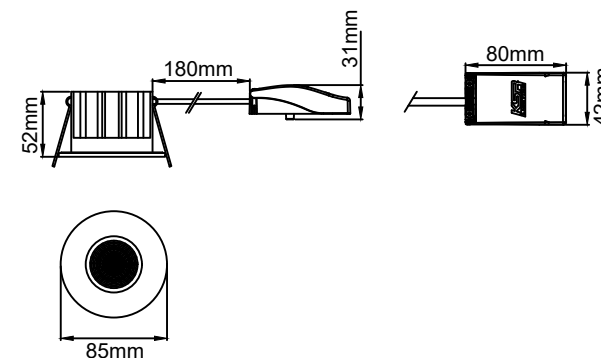


Luminaire suitable for all timber joist ceiling variants up to 90 minutes.

90 Minute fire rating

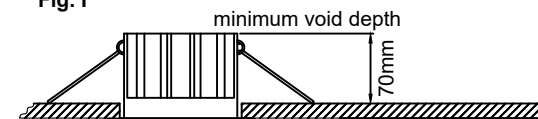
Approved to:- **BS476 Part 21**

Building Regulations Document B2 determines the ceiling type that is required depending on the type of building under construction. The ceiling types are designed to provide protection to the floor above in the case of fire for a duration as specified by the document. Using KSR's Fire-Rated downlights ensures that this specification is maintained even when downlights are installed in the ceiling.



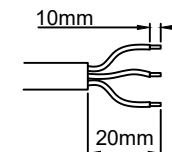
KSRFRD380 & KSRFRD381

Fig. 1



Installer Note:

To ensure a good connection strip back 10mm of insulation and push the cable firmly into the terminal block.



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