



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, 7W & 9W

These fittings are Class II and do not require to 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 safely isolate the mains supply before installing/servicing.

This luminaire 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 without first switching the isolation switch on the driver. 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

Locate the area's suitable to install these luminaires.

Cut a 74mm round hole in the ceiling and ensure sufficient ceiling void (Fig.1) without infringing on joists, water pipes or electrical cables.

Connect the mains supply to the LED Driver (Blue - Neutral, Brown - Live). Earth terminals are provided for earth continuity only. Press into place the strain relief end cap by pushing down until it grips the outer cable insulation. The LED driver allows for mains loop in/loop out connections, if not looping through either of the L,E & N inputs can be used.

(Fig.2) Select the preferred colour temperature by sliding the selector switch located on the head to either 2700K, 3000K, 4000K or 6000K. This must be done before the power is switched on to the luminaire, changing the CCT while the fitting is illuminated may damage the LED. Secondly select the preferred power output on located on the LED driver 5W, 7W and 9W.

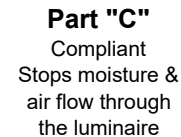
Press springs back and push luminaire body into aperture.

If you are installing one of the KSR detachable rims remove the standard white rim by twisting the rim anticlockwise, remove the LED module from the rim clockwise. Fit the new rim is reversal of removal.

Important note: This downlight can not be covered with mineral wool insulation, the head unit and driver should remain in free air space to avoid overheating.

(Fig.3) This downlight is designed with an Isolator switch to allow for High voltage insulation resistance testing, without having to remove the luminaire/driver from the circuit.

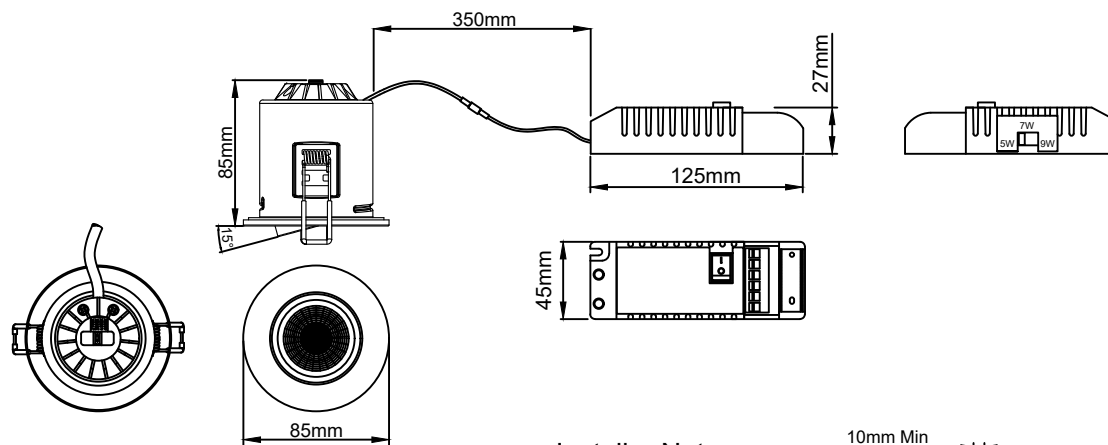
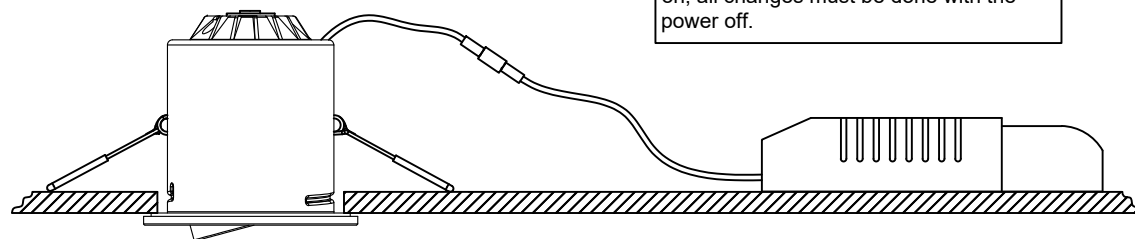
*An initial 24 hour charge period will be required prior to conducting any emergency lighting tests, thereafter periodic testing should be carried out in line with current regulations.



Available Rim Finishes:
White, Chrome,
Satin Chrome or Black

Fig. 1 74mm
90mm min. void depth

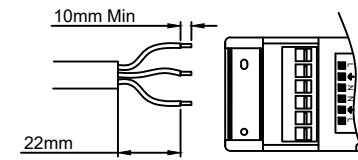
WARNING:
Do not change the CCT or drive current of this downlight with the product switched on, all changes must be done with the power off.



ØRim Size	ØCut out	Void Depth Req'd	Max per circuit
85mm	74mm	90mm	20

Installer Note:

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



This product contains a light source of energy efficiency class F

KSR Lighting Aftersales: 023 92 674343
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Part "B"

BS476
Part 21

Part "E"
(Acoustics)

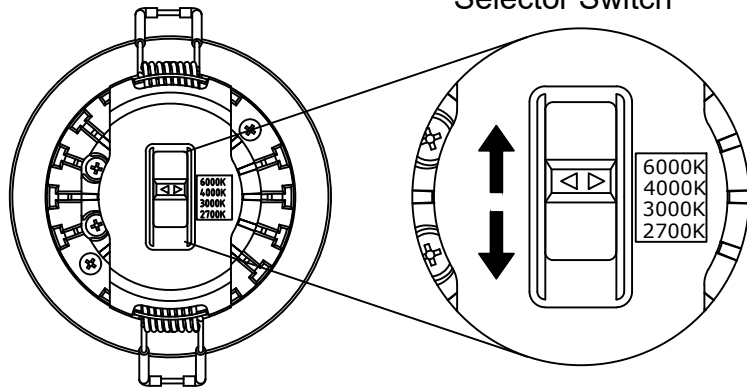
Part "C"
Compliant
Stops moisture &
air flow through
the luminaire

Available Rim Finishes:
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Satin Chrome or Black

WARNING:
Do not change the CCT or drive current of
this downlight with the product switched
on, all changes must be done with the
power off.

Fig. 2

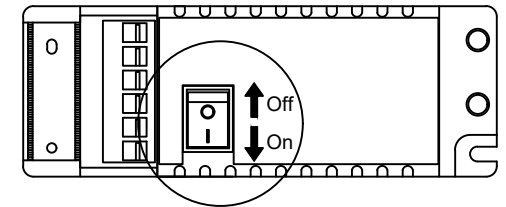
Colour Temperature
Selector Switch



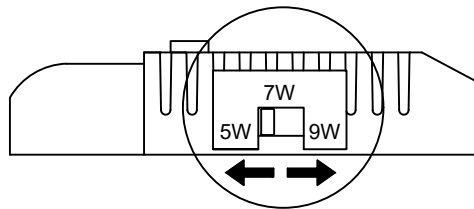
Rim Size	Cut out	Void Depth Required	Beam Angle	Dimmable	CCT	Lumen output per head		
						5W	7W	9W
85mm	74mm	90mm	58°	Yes	2700K	535lm	700lm	820lm
					3000K	540lm	720lm	845lm
					4000K	580lm	785lm	930lm
					6000K	590lm	775lm	910lm

Fig. 3

Isolator Switch
Isolates device
from Circuit



Drive Current
Selector Switch



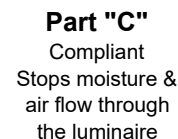
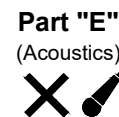
Please Note: The isolation switch needs to be in
the On (I) position during normal operation



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Output to LED Luminaire

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Input from mains supply

Installation Particulars For End User

Installation Procedure

Familiarize yourself with the installation procedure and ensure the power is safely isolated before installing the Emergency pack. Ensure the LED luminaire is within the specification 9-55VDC or 55-80VDC, if 55-80VDC voltage range is required please remove the jumper as stated on the casing.

Wire as required (Fig.1):

Non-Maintained Emergency

Connect the mains input Unswitched Live (EM_L), Neutral (EN_N). The low voltage side just requires output to the LED luminaire positive (+) and negative (-). Then connect the battery. Install the LED indicators in a suitable location.

Maintained Emergency

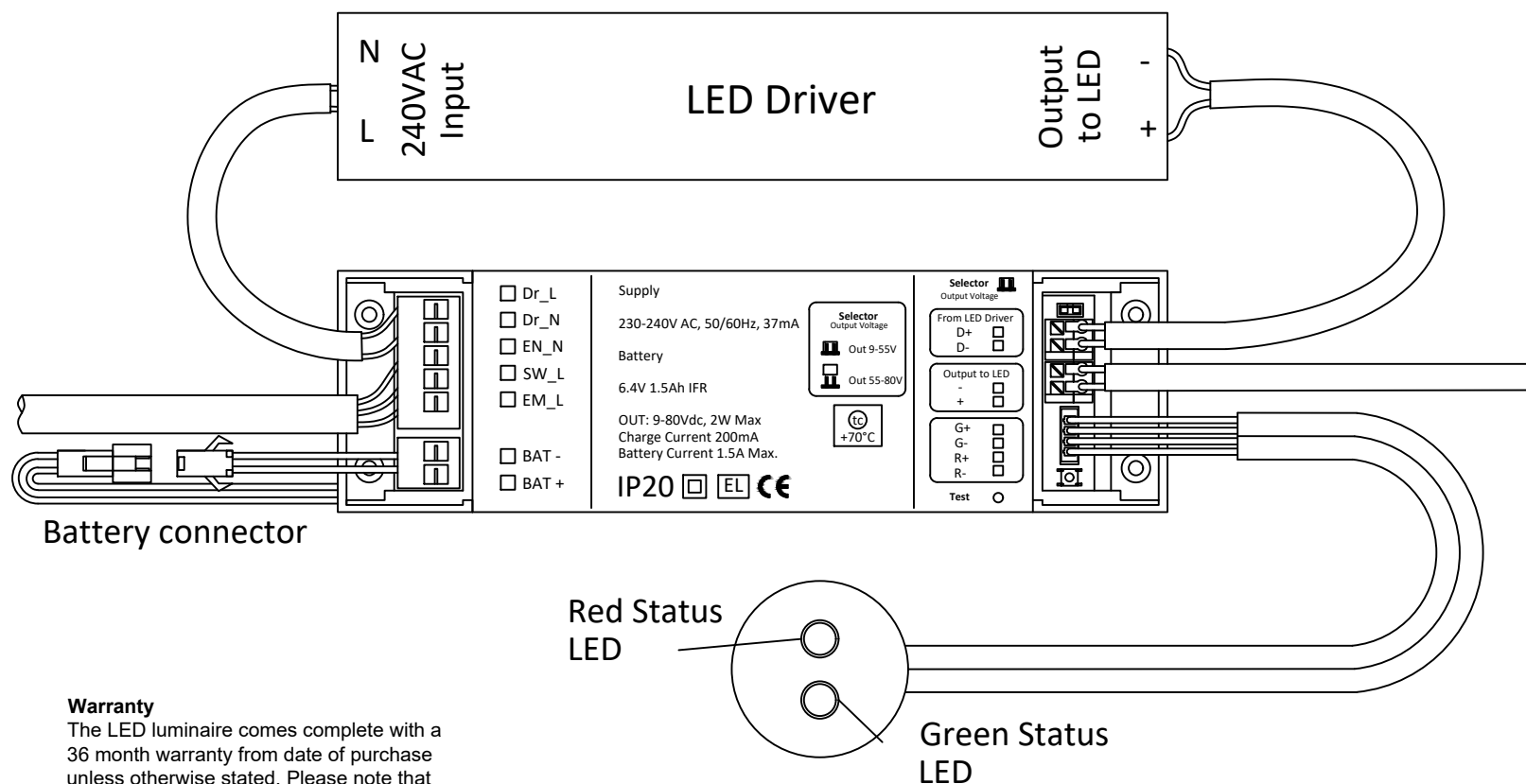
Connect the mains input Unswitched Live (EM_L), Neutral (EN_N) and Switch Live (SW_L). Connect the Live out (Dr_L) and Neutral out (Dr_N) to the driver mains input. The low voltage side connect the output from the LED driver to the from LED Driver positive (D+) and Negative (D-) luminaire output to the LED luminaire positive (+) and negative (-). Then connect the battery. Install the LED indicators in a suitable location.

Please note: For manual testing purposes a provision is made inside the cover of the low voltage side of the driver (Fig.1) marked as Test on the casing. See overleaf for details on manual testing.

Install emergency label supplied on luminaire to be visible in normal use. Turn on the power and ensure that the module is showing charge indicator.

This fitting requires a minimum 24 Hour initial charge period prior to any manual emergency testing, please see overleaf for testing routine, write on the battery label in permanent ink the date of commissioning. All results must be recorded and left with the end user.

The battery has a rated duration of at least 4 years but should be replaced if the duration of operation is less than 3 hours after a 24hr charge time with no interrupted supply.



Warranty

The LED luminaire comes complete with a 36 month warranty from date of purchase unless otherwise stated. Please note that the emergency packs and batteries come with a 36 month fixed warranty. Should any claim be made against battery failure within the warranty period, full and complete maintenance test reports must be provided.



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Self Test Emergency Inspection/Testing Instructions

All full duration tests should be where possible be undertaken at times of low risk adjacent emergency luminaires we recommend that you you reset the inbuilt timer or run a manual 30 day test on alternate emergency luminaires to stagger testing times. Once commissioned fill in the date of the first test/install date this will allow the end user to monitor and record subsequent test information on the supplied report. All tests with the exception of the visual inspection will be completed automatically at the relevant times including battery charge condition and lamp status.

Daily:

Visual inspection of the battery charge LED.

Automatic Monthly (Every 30 Days):

(in addition to the daily check) The results of the short duration test shall be recorded.

Automatic Annually (Every 180 & 360 Days):

(in addition to the daily check) The results of the full duration tests shall be recorded.

A copy of this report must accompany any emergency pack returned to KSR Lighting for any reason.

Performance Indicators	
Normal Operation	Red LED off, Green LED Solid
Automatic 30 Day Test	Red LED off, Green LED flashing once a second
Automatic 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Simulated Power Failure	Red LED off, Green LED off
Manual 30 Day Test	Red LED off, Green LED flashing once a second
Manual 180/360 Day Test	Red LED off, Green LED flashing twice a second
Manual Fast Test (24 minutes)	Red LED off, Green LED four times a second

Manual Testing - Can only be completed under mains conditions	
Manual Simulated Power Failure	Hold test button until you hear 1 beep
Manual 30 Day Test	Hold test button until you hear 2 beeps
Manual 180/360 Day Test	Hold test button until you hear 3 beeps
Manual Fast Test (24 minutes)	Hold test button until you hear 4 beeps
Abort Test	Hold test button for 1 second
Reset Inbuilt Timer	Hold test button for 15 seconds long beep

Fault Indicators	
Battery/Charging Fault	Red LED flashing once a second, Green LED off, Beeps twice every minute until fault rectified
Lamp Fault	Red LED flashing twice a second, Green LED off, Beeps twice every minute until fault rectified
Failed Duration Test	Red LED solid, Green LED off, Beeps twice every minute until fault rectified



