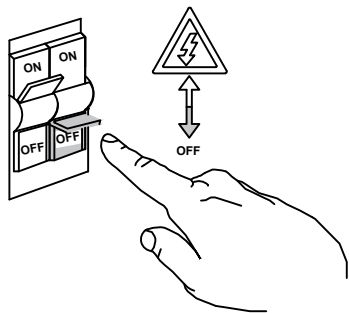
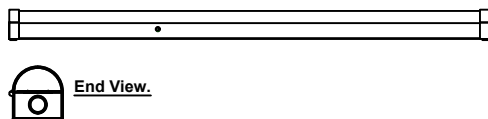


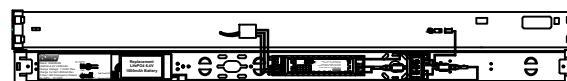
1 Isolate mains supply.



2 Separate the Top diffuser from the Base of the fitting by pulling apart by hand (Hinged Body) Do not use any tools for this.



3 Pass supply cable through one of the entry points and ensure incoming cables are protected. Fix to wall, ceiling or Besa Box using adequate fixings with regard to the type of surface.



if using surface conduit ensure the besa boxes are at 600mm centres.

4 Terminate wiring as below - Loop in & Loop Out / Through Wiring Possible - Ensure Earth is connected from terminal block to underside of the diffuser.

Neutral - Blue			N - Blue
Green & Yellow - Earth			Earth
Switch Live - Brown			SL- Brown
Permanent Live			PL- Black

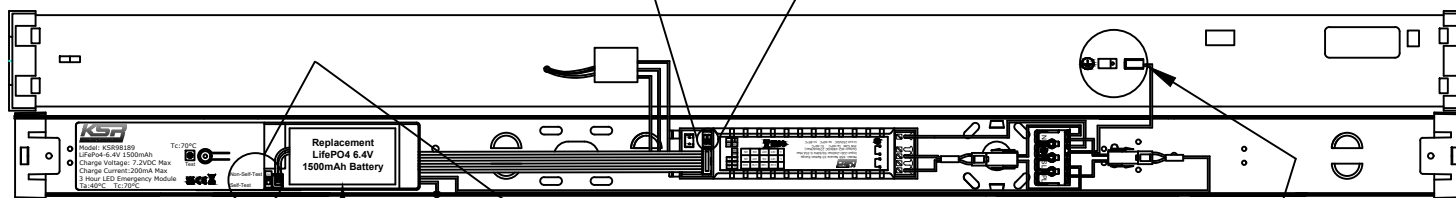
6 Once fitted & the mains cable is connected - Select the desired wattage via the dip switches on the LED Driver - Note - This will always be set on the highest wattage (never do this with the power on) (KSR98310 shown as example).

KSR98310 shown as example.

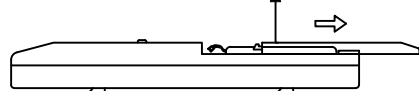
	11W	14W	17W	20W
1.	OFF	ON	OFF	ON
2.	OFF	OFF	ON	ON

Both Dip Switches in the Up / ON position will mean 20W.

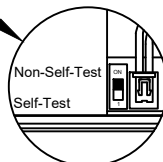
Exploded View Rotated.



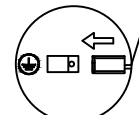
7 Slide off Battery cover to reveal - Battery Plug IN - to be plugged in by the installer.



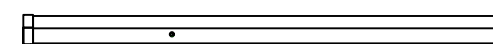
AND Non-Self-Test (ON) or Self-Test (1) selection switch



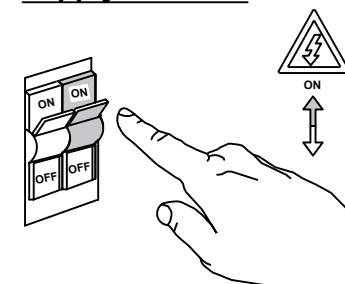
8 Ensure the Earth cable from the base is fitted correctly onto the Earth tag on the top part of the luminaire.



9 Ensure the LED Indicator is located in the side of the fitting, then close the LED top Diffuser ensuring it is properly located along the whole length and that no cables are trapped, ensuring it is properly closed.



10 Turn on mains supply and test.



Install Information

It is recommended that these luminaires are installed and fitted by a qualified electrician ensuring the installation complies with current 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 0 ~ +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. If this luminaire is suitable for indoor use only it should not be fitted to damp or wet surfaces such as freshly plastered or painted walls or ceilings. Do not use Megger or similar high voltage instruments. Due to the fact LED luminaires 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.

Please note: Depending on the amount of fittings on a circuit you may have to upgrade the breaker type due to the way electronic LED drivers start up with higher inrush currents compared to halogen lighting. If a dimmable fitting see the recommended dimmers list @ www.ksrlighting.com as well as available LDT Files. For any other questions please call our After Sales on 02392 674343

External Products

All of our external fittings must be installed by a qualified electrician and adhere to the regulations required for the installation. It is also recommended a quarterly cleaning schedule for products to be wiped down with a soft cloth, a petroleum based protective substance similar to WD40 can be used for extra protection against the elements. It is also recommended that all fixings and moving parts are greased prior to installation and again quarterly if required. Do not try to seal any exterior product yourself.

Waste Electrical and Electronic Equipment (W.E.E.E.)

Under the Waste Electrical and Electronic Equipment (WEEE) Regulations, any KSR Lighting product displaying the crossed-out wheeled bin symbol must not be disposed of with general household or commercial waste. KSR Lighting does not charge customers any additional fees for the collection, treatment, recycling, or disposal of WEEE-compliant products. To help protect the environment and human health, end-of-life electrical products should be separated from other waste streams and disposed of through appropriate recycling facilities. Correct disposal enables valuable materials to be recovered and reused while reducing the environmental impact of waste. Customers are encouraged to contact their local authority, recycling centre, or retailer for information on available collection and recycling services in their area. Where a WEEE disposal charge was included by the supplier at the time of purchase, customers should contact that supplier directly regarding any take-back arrangements and the appropriate disposal of the product.

Warranty

All products carry at least a 1 year warranty, some items are 3 years and the majority of the range is 5 years, please go to www.ksrlighting.com for full warranty details - Should a product fail within the warranty period, KSR will repair or replace. KSR will not accept any responsibility for costs associated to the replacement of the product.

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 / fitting returned to KSR Lighting for any reason.

Performance Indicators - Self Test	
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 Testing - Can only be completed under mains conditions	
Manual Simulated Power Failure	Hold test button until Green LED Flashes Once
Manual 30 Day Test	Hold test button until Green LED Flashes Twice
Manual 180/360 Day Test	Hold test button until Green LED Flashes 3 Times
Manual Fast Test (24 minutes)	Hold test button until Green LED Flashes 4 Times
Abort Test	Hold test button for 1 second
Reset Inbuilt Timer	Hold Test Button for more than 15 Seconds, when the load illuminates then goes off, release the test button. The inbuilt timer is now reset.

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

Fault Indicators - LED FLASHING RED OR SOLID RED

This could also mean the batteries have been totally depleted and will require a hard reset - This is done by, with the unit still fully powered, unplug the battery connector and plug back in. If this does not resolve the issues, please call KSR Aftersales.

This fitting requires a 24 hour initial charge period prior to any Emergency Testing.
Write on the battery in permanent ink the date of commissioning & all results must be recorded.



Self-Test Emergency Inspection Test Record Table.

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

Product Code:	Product Description:
Product Location:	
Commissioning Date:	Commissioned By:

Month	Test	Year:		Year:		Year:		Year:		Year:	
		Sign	Date	Sign	Date	Sign	Date	Sign	Date	Sign	Date
01	Function										
02	Function										
03	Function										
04	Function										
05	Function										
06	Duration										
07	Function										
08	Function										
09	Function										
10	Function										
11	Function										
12	Duration										

All tests must be undertaken at times of least risk and in accordance with the latest Standards as indicated below :

Daily:

LED charge indicators shall be visually inspected for correct operation.

Monthly :

(in addition to the daily check) If automatic testing devices are used, the results of the short duration tests shall be recorded.

Test shall be carried out as follows :

1. Switch the luminaire over to Emergency mode to operate from the batteries by simulating a failure of supply to the emergency circuit for a period sufficient to ensure correct luminaire operation.

Note : The period of simulation failure should be sufficient for the purpose of this clause whilst minimising damage to the system components e.g lamps.

During this period, all luminaires shall be checked to ensure that they are present, clean & functioning correctly. At the end of this test period, the unswitched supply

should be restored and any indicator lamp or device should be checked to ensure that it is showing that the supply has been restored.

Annually :

If automatic testing devices are used, the results of the short duration tests shall be recorded. For all other systems the monthly inspection shall be carried out and the additional tests made.

1. Each luminaire shall be tested monthly as above but for its full duration in accordance with the manufacturers information.
2. The unswitched supply for the luminaire should be restored and any charge indicator lamp or device should be checked to ensure that it shows the unswitched supply has been restored. The charging arrangements should be checked for proper functioning.
3. The date of the test and its results shall be recorded in the system logbook.

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

This fitting requires a 24 hour initial charge period prior to any Emergency Testing. Write on the battery in permanent ink the date of commissioning & all results must be recorded.

[illegible]

This image shows a blank sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Contact KSR After Sales :-
02392 674343
aftersales@ksrlighting.com