

Delay time to initial function test randomly generated value between 0 and 7 days
Delay time to initial duration test randomly generated value between 4 and 52 weeks

Subsequent function and duration tests occur after the test interval settings as follows:
Function test interval 7 days
Duration test interval 52 weeks

DALI/Self-test luminaires will respond to DALI commands from a suitable control unit, and these commands can be used to initiate function and duration tests at prescribed times. The status flags for the luminaire are set after a test, for reporting and logging of the results.

DALI /Self-test luminaire local bi-colour LED indicator status

Green LED	Permanently on	System OK/mains operation mode
	Slow flash	Duration test/commissioning
	Fast flash	Function test
Red LED	Permanently on	LED luminaire fault
	Slow flash	Battery/test failure
	Fast flash	Battery charging failure

Slow flash – a flash every 2 seconds, Fast flash – a flash every 0.5 second

GENERAL INFORMATION

1. A qualified electrician, in accordance with IEE wiring regulations, should carry out connection to mains wiring.
2. Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
3. Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid.
4. Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
5. Must be switched off during maintenance.

SAFETY INFORMATION

Batteries have a typical life expectancy of four to five years. Old batteries should be handled by specialist waste disposal experts. Under no circumstances should they be pierced or incinerated.

NB. This product must be mounted at or above 2.5m above floor level.

TECHNICAL SUPPORT

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Whitecroft
lighting



Twin Spot LED Installation Leaflet

PK/LEAF/TSL2NM

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INTRODUCTION

Twin Spot emergency projector luminaires are designed to be wall mounted for use indoors. They are available with 3 hour non-maintained emergency operation, and there is a DALI / Self-Test option.

SPECIFICATION

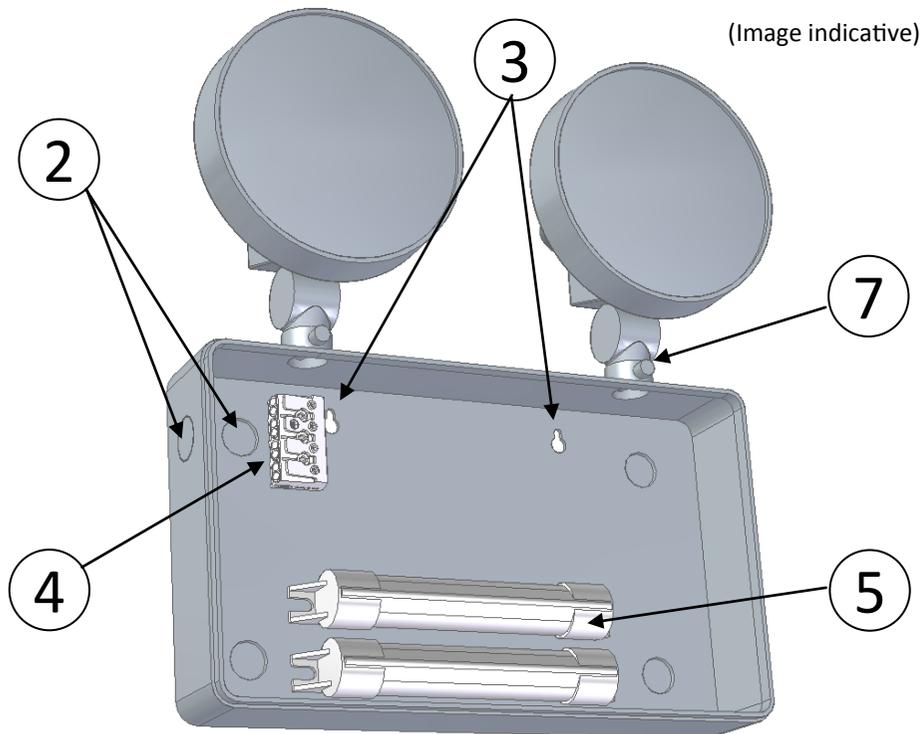
Supply Voltage:	220 - 240VAC, 50Hz
Supply Current:	<30mA
Ambient temperature range:	0°C to 25°C
Environmental protection:	IP40
Battery:	3.6V D Nickel Cadmium 4.5Ah (EM) 7.2v D Nickel Cadmium (COMEPS)

Twin Spot luminaires use long life white LED's for illumination, so the LED PCB's are a non-replaceable part.

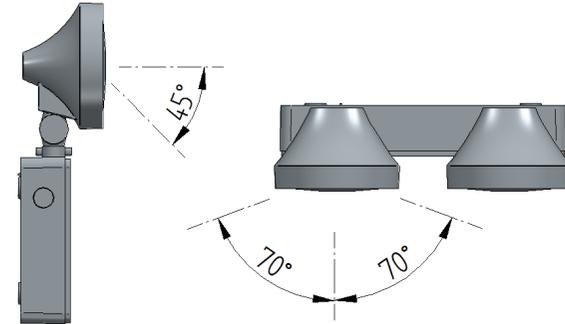
INSTALLATION

The luminaire must be installed in accordance with current building and wiring regulations by a qualified person and suitable tests on the completed luminaire must be carried out to ensure compliance to relevant standards.

1. Put slight pressure on the top or bottom of the main case and use a small screwdriver to remove the front panel.
2. Drill a suitable cable entry in the end or back
3. Fix the main case to the mounting surface using screws through the keyhole slots or drill fixing holes appropriate to the specific installation.



4. Bring the supply cables through the cable entry and connect to the terminal block as follows:
 - L, N & E are for the permanent mains supply
 - DALI luminaires connect the DALI bus wires to the Da terminals.
5. Connect the battery lead, and fill in the commissioning date on the battery label.
6. Replace the front panel ensuring it 'clicks' back into place.
7. Release the securing screws and aim the LED projector heads to illuminate the escape routes. Retighten to secure the lamp heads.



OPERATION

The luminaire should be connected to the mains supply for a minimum of 24 hours before operating in emergency mode as the batteries need to be fully charged before they will provide their full rated duration. (NOTE DALI/Self-test luminaires have a self-commissioning mode which charges the battery, does a full duration test and then re-charges the battery).

TESTING

BS5266 requires that all emergency lighting installations should be regularly tested and the results recorded. An appropriate test schedule is detailed below which will cover the recommended minimum assessments:

Monthly - luminaires should be put into emergency lighting operation for a period not exceeding one quarter of the rated duration. Each luminaire should be inspected for satisfactory LED starting and stable operation. When the normal mains supply is re-instated the luminaire battery charge indicator should be on.

Annually - the monthly test should be carried out, but the luminaire should be operated for its full rated duration.

NOTE:

Ideally tests should be carried out at times where the building will not be re-occupied until the batteries have fully re-charged. Alternative methods can be used for automatic testing luminaires (see over for details).

Failure to achieve rated duration indicates that the batteries have reached the end of their useful life and they should be replaced immediately.

DALI/SELF-TEST LUMINAIRES ONLY

The luminaire will adopt a self-test (automatic test) mode if it is not connected to a DALI bus, or the DALI communication is missing. On completion of the self-commissioning check, the self-test program starts with the first function and duration tests being carried out after randomly generated delay times which will occur as shown below.