

# TYKE880 SERIES

Emergency Downlighter Recessed Ceiling

Class  
2

IP  
20

IP  
65\*

Philip Payne

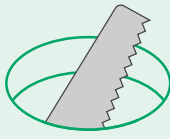
## FEATURES

Model	Downlighter features	Supply voltage	Maximum luminaires on a Type B, 10A circuit breaker	Part No.
SPECTO-XT	SPECTO-XT	220-240V AC 50/60 Hz	90 Luminaires	TYKA880XT TYKC880XT TYKE880XT TYKP880XT* TYKP885XT* TYKT885XT



\*TYKP880 and TYKP885 IP65 rated below ceiling only. Contactor must apply silicone sealant between bezels and underside of ceiling to achieve IP65 below ceiling. (All other TYKE variants are IP20 above and below ceiling).

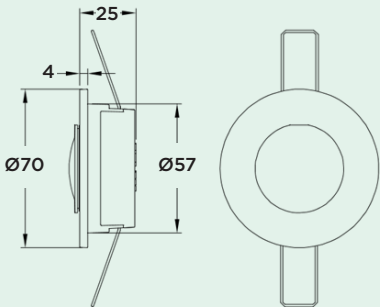
## CEILING CUT-OUTS



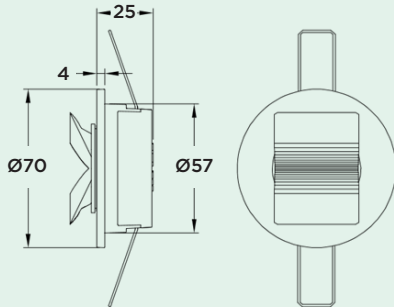
Ø60mm

## LAMPHEAD DIMENSIONS

TYKA880XT, TYKE880XT, TYKP880XT,  
TYKP885XT, TYKT885XT



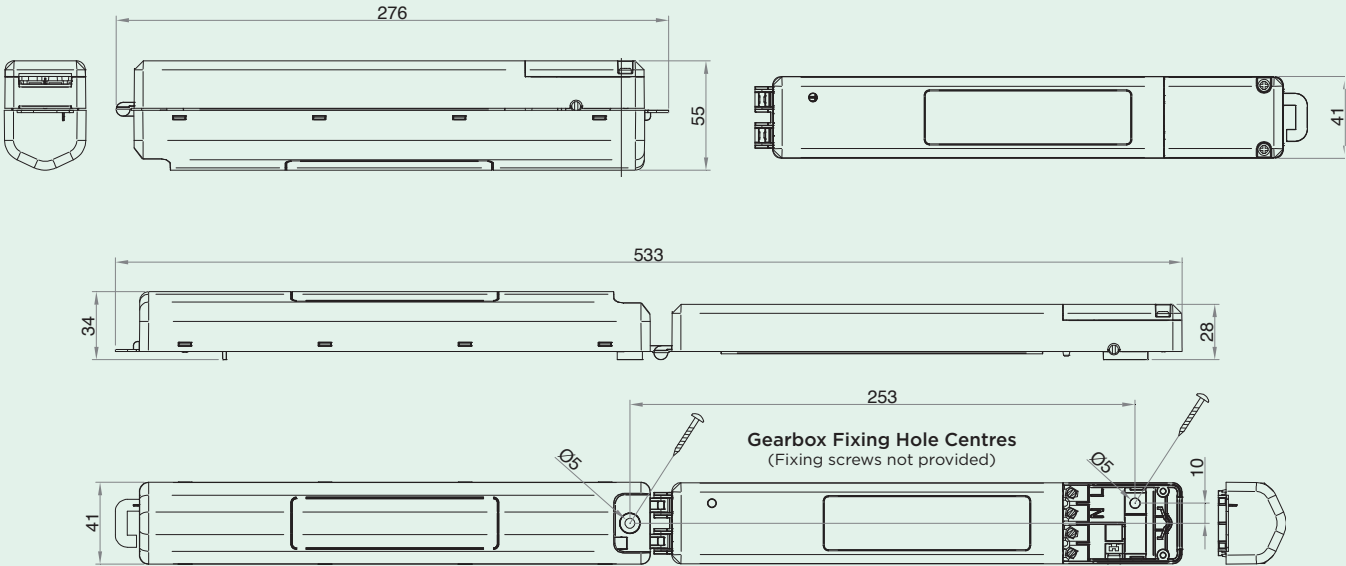
TYKC880XT



## IMPORTANT-SAFETY

Before carrying out any servicing on this luminaire, ensure that the mains supply is fully isolated. Disconnect luminaire before insulation testing of the installation.

## GEARBOX DIMENSIONS

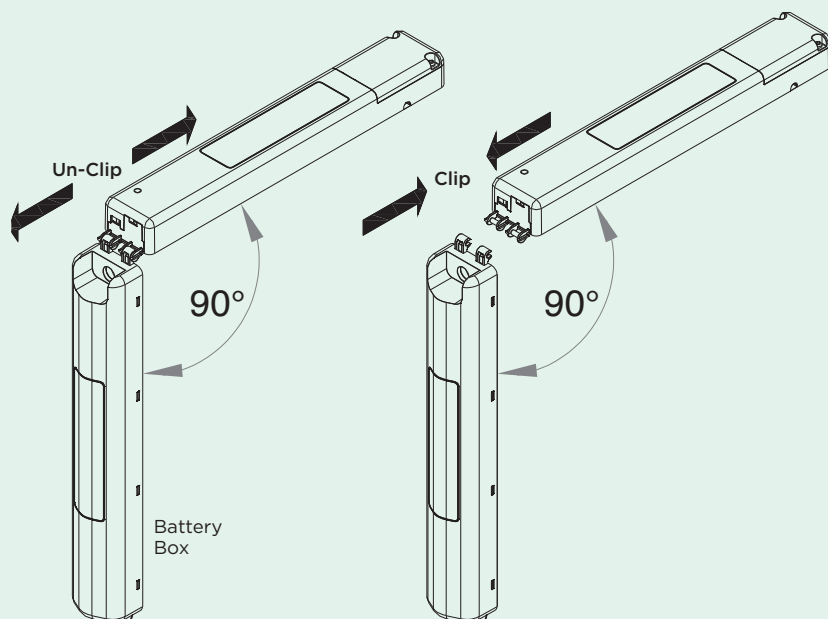


**WARNING**

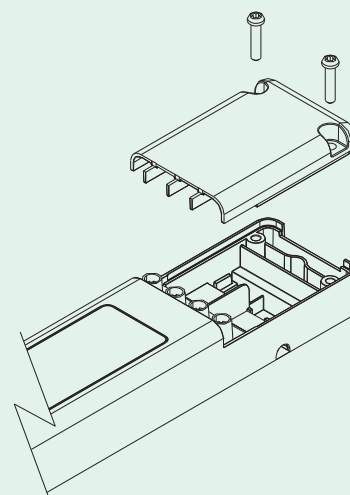


Do not stare at operating lamp. It may be harmful to the eyes.

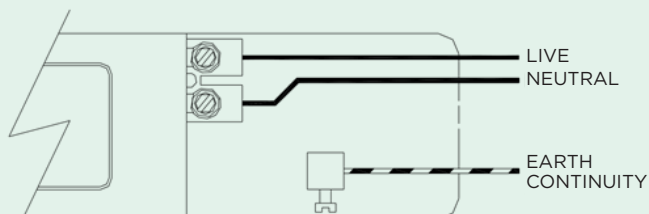
## RECYCLABLE BATTERY BOX - SELF-CONTAINED



## ACCESS TO SUPPLY TERMINALS

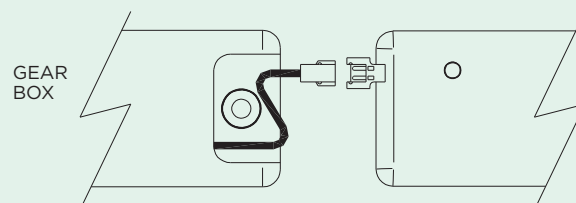


## SUPPLY CONNECTIONS



BASIC INSULATION IS MAINTAINED BETWEEN THE LV SUPPLY AND CONTROL CONDUCTORS ON THIS LUMINAIRE.

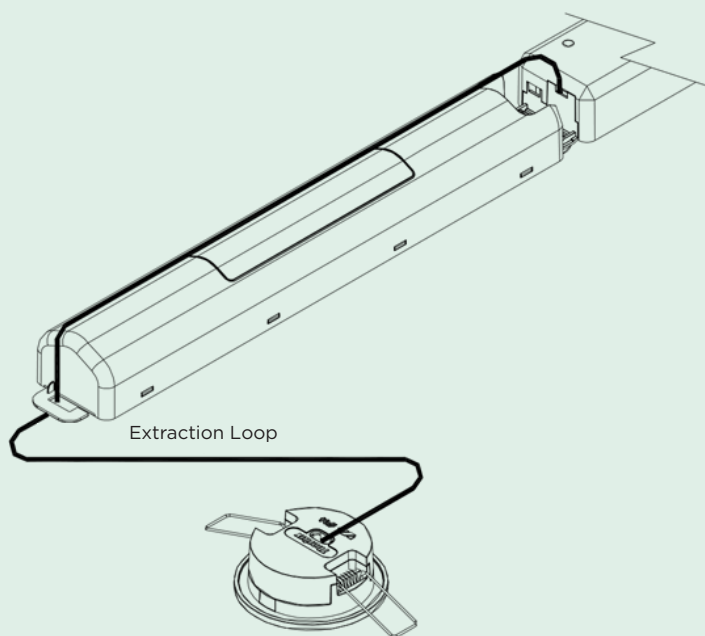
## BATTERY CONNECTION



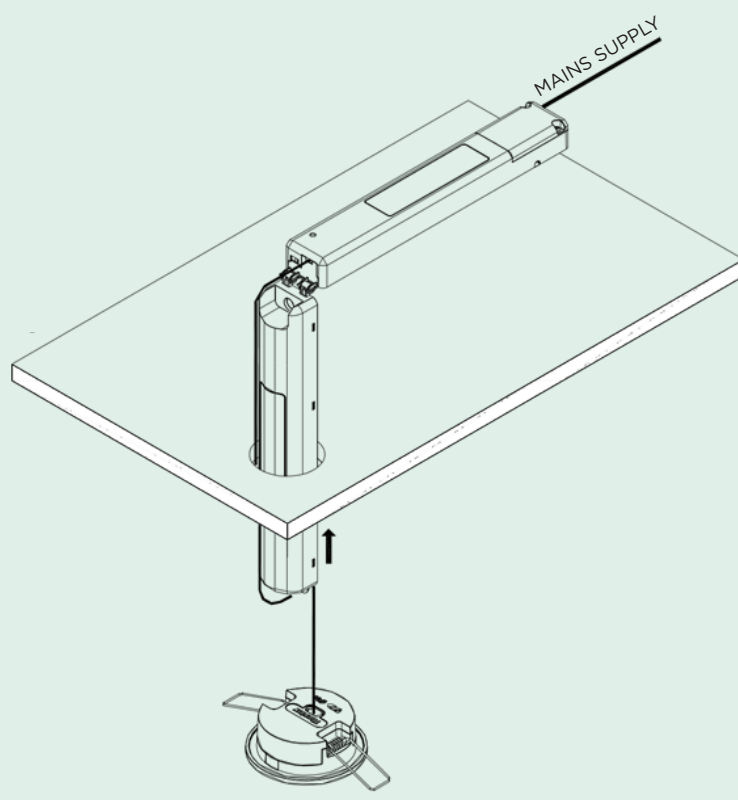
**IMPORTANT**  
DO NOT CONNECT BATTERY BEFORE INSTALLATION IS COMPLETE & READY TO BE COMISSIONED

## SPECIAL PREPERATION FOR INSTALLATION THROUGH LAMP-HEAD CUT-OUT

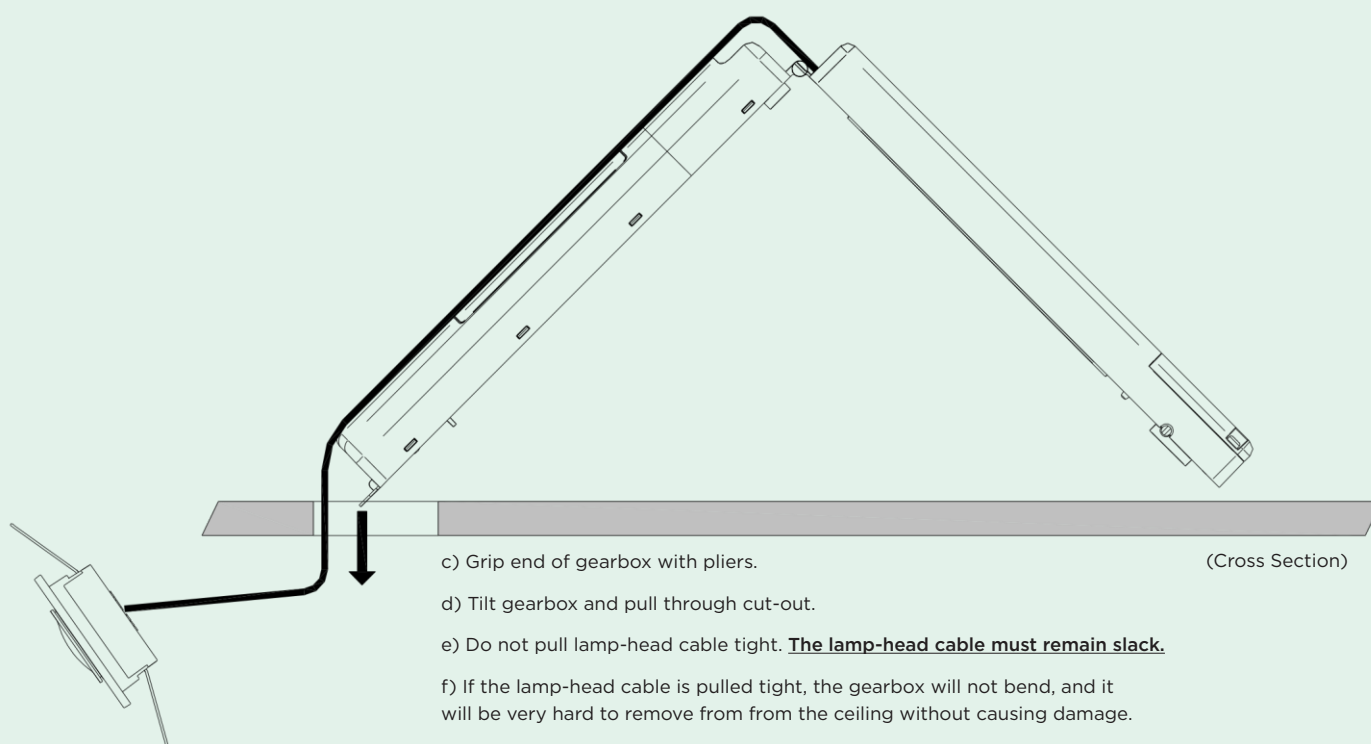
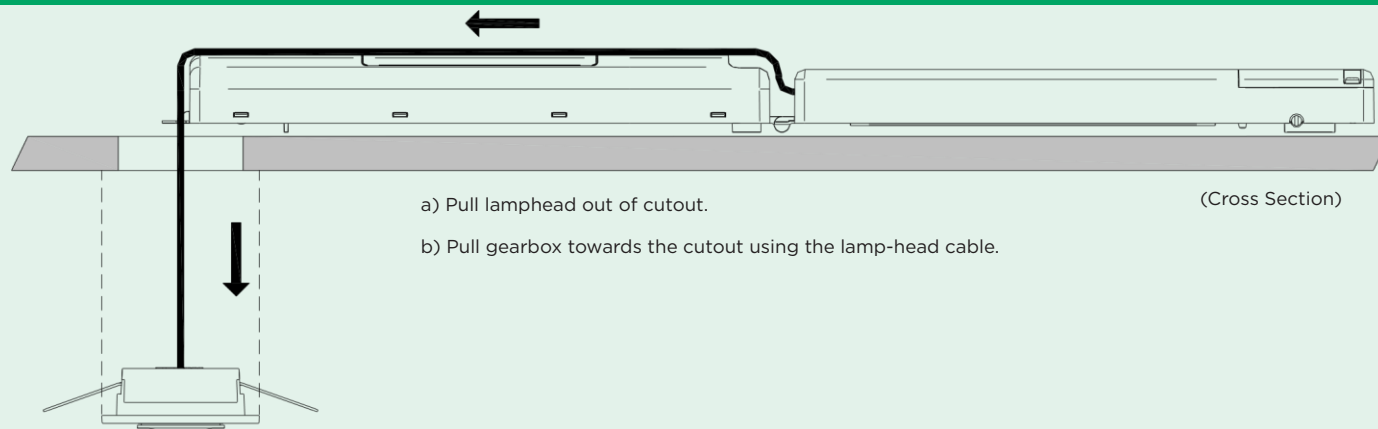
- 240mm void depth required (measured from underside of ceiling).
- 60mm cut-out required.
- Feed lamphead cable through the extraction loop on the battery box. If this is not done, extraction of the luminaire for maintenance will be very difficult.



## GENERAL INSTALLATION METHOD



## TYKE DOWN-LIGHTER EXTRACTION INSTRUCTIONS



## IMPORTANT INFORMATION

**IMPORTANT**

SPECTO-XT LUMINAIRES ARE SUPPLIED WITH RADIO (RF) COMMUNICATIONS DISABLED (AN AMBER LED WILL BLINK ONCE EVERY EIGHT SECONDS WHEN RF IS INHIBITED). SPECTO-XT LUMINAIRES MUST BE COMMISSIONED BY APPROPRIATELY TRAINED PERSONNEL. PLEASE CONTACT PHILIP PAYNE TECHNICAL +44 (0)121 7052384 FOR MORE DETAIL

## GENERAL

-Specto-XT adds wireless communication to the Philip Payne lighting control systems.

-Specto-XT uses 868MHz wireless mesh technology to provide unrivalled wireless performance (922MHz Australasia).

## DEFAULT SETTINGS

Each Specto-XT luminaire is delivered without its addresses set and radio (RF) communications disabled.

-It is important to set addresses correctly

-RF transmission **MUST** be enabled for Specto-XT luminaires to communicate.

**PLEASE NOTE:**

SPECTO-XT EMERGENCY LUMINAIRES MAY SELF-TEST AT ANY TIME. CONSEQUENTLY, CAUTION SHOULD BE EXERCISED IN SITUATIONS WHERE THIS MAY BE INCONVENIENT (SUCH AS HOTEL ROOMS OR HOSPITAL WARDS). SPECIFIC TESTING TIMES CAN BE SET VIA THE SPECTO-XT WEBSITE (SPECTO-XT GATEWAY REQUIRED).

LED STATUS INDICATION

Operation	Led Status
Normal mode	Green LED- ON
Commissioning	Green LED- ON
Function test	Green LED- Fast Flash
Duration test	Green LED- Slow flash
Lamp fault/open circuit/short circuit	Red LED - ON
Battery fault	Red LED - Slow flash
Charge fault/Circuit fault	Red LED - Fast flash
Emergency mode	LED OFF
Identification	Red/Green LED - Slow flash

FAULT RECTIFICATION SEQUENCE

1.Fault Identification	Lamp Fault	Battery Fault	Charge Fault
2. Take Remedial Action	Check Lamp/ Replace Lamp	Check Battery/ Replace Battery	Check Module/ Replace Module
3. Check Status	Use the Specto-XT Programmer to check status of luminaire.		
4. Reset	Use the Specto-XT Programmer to initiate function/duration test. The luminaire will pend the test until the battery is sufficiently charged. The test status can be retrieved using the Specto-XT Programmer (please leave at least 60 seconds between test initiation and reading status).		

IMPORTANT

- To prevent lamp damage and false triggering of fault status please note the following :-
- Ensure LED's are connected correctly to the luminaire prior to applying power.
  - Do not interrupt unswitched supply during self-commissioning period.
  - Please allow 51 hours for charge, discharge, charge cycle.

**IMPORTANT SPECTO-XT INFORMATION**

SPECTO-XT LUMINAIRES ARE SUPPLIED WITH RADIO (RF) COMMUNICATIONS DISABLED (AN AMBER LED WILL BLINK ONCE EVERY EIGHT SECONDS WHEN RF IS INHIBITED). SPECTO-XT LUMINAIRES MUST BE COMMISSIONED BY APPROPRIATELY TRAINED PERSONNEL. PLEASE CONTACT PHILIP PAYNE TECHNICAL +44 (0)121 7052384 FOR MORE DETAIL.

**GENERAL**

- SPECTO-XT ADDS WIRELESS COMMUNICATION TO THE PHILIP PAYNE LIGHTING CONTROL SYSTEMS.
- SPECTO-XT USES 868MHZ WIRELESS MESH TECHNOLOGY TO PROVIDE UNRIVALLED WIRELESS PERFORMANCE (922MHZ AUSTRALASIA).

**DEFAULT SETTINGS**

- EACH SPECTO-XT LUMINAIRE IS DELIVERED WITHOUT ITS ADDRESSES SET AND RADIO (RF) COMMUNICATIONS DISABLED.
- IT IS IMPORTANT TO SET ADDRESSES CORRECTLY
  - RF TRANSMISSION MUST BE ENABLED FOR SPECTO-XT LUMINAIRES TO COMMUNICATE.

**DEFAULT SETTINGS**

**INSTRUCTIONS**

A MAINTAINED LUMINAIRE CAN BE SWITCHED IN THE USUAL WAY WHEN MAINS ARE HEALTHY. UPON MAINS FAILURE THE NOMINATED EMERGENCY LAMP WILL OPERATE AT A REDUCED BRILLIANCE, FOR A PERIOD OF 3 HOURS UNLESS NORMAL MAINS IS RESTORED.

A NON-MAINTAINED LUMINAIRE WILL ONLY OPERATE ON MAINS FAILURE AND THEREFORE NEEDS TO BE FED FROM THE LOCAL LIGHTING CIRCUIT.

THE POWER IS A SET OF RECHARGEABLE NICKEL-CADMIUM / NICKEL METAL HYDRIDE / LITHIUM IRON PHOSPHATE CELLS. ALL THE ELECTRONIC CIRCUITS EMPLOYED HAVE THE ADDED FACILITY OF DEEP DISCHARGE PROTECTION, WHICH WILL PREVENT POSSIBLE DAMAGE TO CELLS CAUSED BY OVER DISCHARGE. THE LUMINAIRE CONTAINS AN AUTOMATIC CHARGING UNIT AND BATTERIES SHOULD BE CHARGED FOR A MINIMUM OF 24 HOURS TO ACHIEVE THE SPECIFIED DISCHARGE PERIOD.

THIS TYPE OF LUMINAIRE IS GENERALLY RESTRICTED TO AN AMBIENT TEMPERATURE RANGE BETWEEN 0°C AND 25°C. MAINS VOLTAGE TOLERANCE IS ±6%.

**IMPORTANT**

- TO PREVENT FALSE TRIGGERING OF FAULT STATUS PLEASE NOTE THE FOLLOWING:-
- ENSURE THE LIGHT SOURCE IS FITTED CORRECTLY TO THE LUMINAIRE PRIOR TO APPLYING POWER.
  - DO NOT INTERRUPT UNSWITCHED SUPPLY DURING SELF COMMISSIONING PERIOD. PLEASE ALLOW 51 HOURS FOR CHARGE, DISCHARGE AND CHARGE CYCLE.

**WHAT IS THE SPECTO-XT EMERGENCY SYSTEM**

SPECTO-XT IS THE SAME AS ANY SELF-CONTAINED EMERGENCY LUMINAIRE BUT THE ELECTRONIC MODULE HAS AN INTEGRAL MICROPROCESSOR TO MONITOR AND AUTOMATICALLY TEST. THE NORMAL LED INDICATOR WILL SHOW WHEN FAULTS ARE FOUND. STATUS IS THEN WIRELESSLY TRANSMITTED THROUGH THE SPECTO-XT MESH NETWORK BACK TO THE SPECTO-XT GATEWAY.

**PLEASE NOTE :**

SPECTO-XT EMERGENCY LUMINAIRES MAY SELF-TEST AT ANY TIME. CONSEQUENTLY, CAUTION SHOULD BE EXERCISED IN SITUATIONS WHERE THIS MAY BE INCONVENIENT (SUCH AS HOTEL ROOMS OR HOSPITAL WARDS). SPECIFIC TESTING TIMES CAN BE SET VIA THE SPECTO-XT WEBSITE (SPECTO-XT GATEWAY REQUIRED).

Fitting Reference:			Installation Date:				Location:			
MONTH	TEST	EXAMPLE	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	5TH YEAR	6TH YEAR	7TH YEAR	8TH YEAR
	1. Functional	PASSED								
	2. Functional	PASSED								
	3. Functional	PASSED								
	4. Functional	PASSED								
	5. Functional	PASSED								
	6. Functional	PASSED								
	7. Functional	FAILED- REPLACED LAMP HEAD								
	8. Functional	PASSED								
	9. Functional	PASSED								
	10. Functional	FAILED- REPLACED BATTERY								
	11. Functional	PASSED								
	12. 3-Hour Duration	PASSED								

Each month, or more frequently if a fault is identified, we recommend the installation is checked for status of L.E.D.'s. Corrective action if necessary should be taken and recorded on the above form.

Follow good practice as laid down in relevant legislation such as BS 5266.

EMERGENCY LIGHTING IS THERE TO SAVE LIVES

TO RESET AFTER A FAULT - SWITCH LUMINAIRE UNSWITCHED  
MAINS OFF / ON.  
SLOW RED LED FLASHING = BATTERY FAULT  
PERMANENT RED LED = LAMP FAULT

## CLEANING INSTRUCTIONS



## INFORMATION

**Operation and Maintenance**

Continual operation at mains voltages in excess of the rated voltage will reduce LED and expected gear life.

This luminaire uses plastic components in its construction and when installed in environments containing chemicals, degradation may occur.

Operation outside intended / stated parameters may cause a hazard, and in an extreme case, for example water ingress to electronic circuits, may cause a fire.

Please contact our Technical Department for advice.

**Modifications**

Philip Payne products should not be modified.

Any modification may render the product unsafe and will invalidate any Safety/Approval marks.

Philip Payne will not accept any responsibility for any modified products or for any damage caused as a result of their modification.

**Monthly and Annual Tests**

Monthly and Annual tests should be carried out in accordance with BS EN 50172:2004, 7.2.

Testing can be carried out by using a sub circuit isolator or by switching off the lighting circuit at the circuit breaker (not for AutoTest or DALI versions).

Battery pack shall be replaced if the specified 3 hour duration is not met.

For replacement battery pack contact Philip Payne Ltd.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.



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