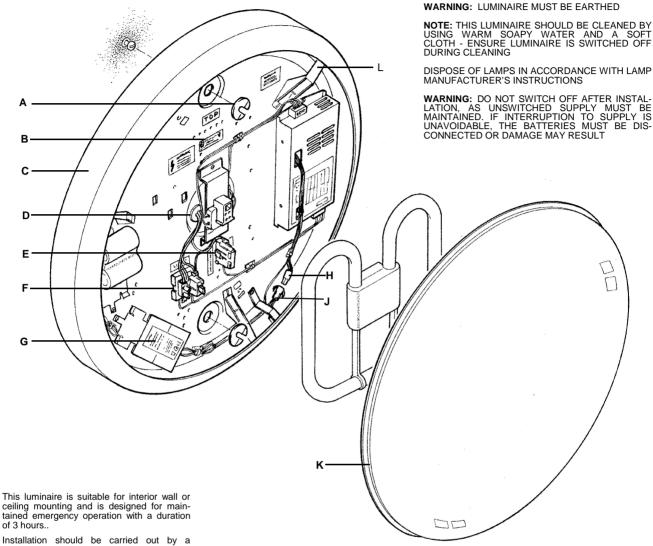
# PHILIPS

# INSTALLATION INSTRUCTIONS





of 3 hours..

Installation should be carried out by a suitably qualified person in accordance with good electrical practice and the appropriate national wiring regulations.

Switch off mains electrical supply before commencing installation.

# INSTALLATION PROCEDURE

Carefully remove diffuser (K) as shown.

Check rating marked on label (B) conforms with mains electrical supply.

Prepare suitable fixings in mounting surface at 310mm centres and partially screw in suitable round headed screws.

NOTE: For wall mounted applications, gallery (C) is marked TOP

Fit supplied grommets (D) in gallery (C).

Enter connection date on battery label (G).

Pass mains supply leads and unswitched live supply lead through grommets.

Locate gallery (C) over fixing screws, insert slip washers (A) under screw heads and tighten screws

Cover line, neutral and unswitched leads with supplied silicone sleeving.

Connect leads in respectively marked terminals in fused terminal blocks (E) and

Fit appropriate lamp as indicated on label (B) by pushing it firmly in lampholder.

Connect socket (J) and plug (H)

Fit diffuser (K) in gallery rim as shown ensuring it is held concentrically by retaining clips (L).

NOTE: Fused terminal block (F) = 3A and terminal block (E) = 1A

# **TESTING**

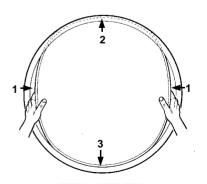
Switch on mains supply and check that charge indicator lamp is on.

Leave luminaire on continuous charge for 24 hours.

Simulate mains failure, and check that lamp operates for 3 hours. If full duration of 3 hours is not achieved, repeat charge/ discharge cycle as battery packs may have discharged in stock and will require conditioning.



REMOVING DIFFUSER 1. PRESS DOWN 2. PUSH TO SIDE 3. LEVER OUT



FITTING DIFFUSER 1. FLEX IN 2. INSERT UNDER RIM 3. CENTRALISE





Products offered for sale may differ from those described or illustrated in this leaflet due to later production changes in specifications, components or place of manufacture. The contents of this leaflet are therefore not to be treated as representations as to the current availability of products as described, or as to products actually offered for sale.



# Instructions for Installation and use of 3 hour duration switch-maintained Emergency Lighting Luminaires And Service Record Card

**CAUTION:** ENSURE ELECTRICAL SUPPLY IS DISCONNECTED AT MAINS DURING INSTALLATION AND SERVICING. IF IN DOUBT CONSULT A QUALIFIED PERSON.

THESE INSTALLATION DETAILS RELATE TO EMERGENCY LIGHTING VERSIONS AND SHOULD BE READ IN CONJUNCTION WITH THE INSTALLATION INSTRUCTION LEAFLET SUPPLIED WITH THE LUMINAIRE.

## ENSURE THIS INSTRUCTION LEAFLET IS PASSED ON TO THE END USER

#### **CAUTION:**

DO NOT MEGGA AFTER INSTALLATION.

IN ACCORDANCE WITH IEE REGULATION AND ECA/LIF RECOMMENDATIONS DISCONNECT LIVE AND NEUTRAL WIRES FROM UNIT BEFORE INSULATION RESISTANCE CHECK.

HIGH VOLTAGES CAN BE PRESENT EVEN WHEN THE LAMP IS NOT ILLUMINATED.

# A - LUMINAIRES WITH INTEGRAL EMERGENCY LIGHTING GEAR

WIRING - IN ADDITION TO THE STANDARD WIRING AN UNSWITCHED 240 VOLT SUPPLY MUST BE CONNECTED TO THE TERMINAL BLOCK MARKED 'UN-SWITCHED'.

# **B** - LUMINAIRES WITH REMOTE EMERGENCY LIGHTING GEAR

THESE ARE SUPPLIED PRE-WIRED WITH FLEXIBLE CONDUIT BETWEEN THE LUMINAIRE AND REMOTE BOX

**WIRING** - CONNECT AN UNSWITCHED 240 VOLT SUPPLY TO THE TERMINAL BLOCK INSIDE THE EMERGENCY CIRCUIT BOX MARKED 'UN-SWITCHED'.

# **C** - LUMINAIRES WITH EXTERNAL BATTERY BOXES

THESE ARE SUPPLIED WITH A SEPARATE BATTERY PACK.

SITE THE BOX IN A SAFE, CONVENIENT POSITION AND SECURE.

**WIRING** - FEED THE CABLE FROM THE BATTERY BOX COMPLETE WITH THE SMALL NON-REVERSIBLE WHITE PLUG INTO THE LUMINAIRE AND CONNECT IT TO THE SOCKET ADJACENT TO THE EMERGENCY MODULE. **NOTE: DO NOT REMOVE PLUG OR SHORTEN CABLE FOR ANY REASON.** 

WIRE THE LUMINAIRE AS IN 'A' ABOVE.

A REPLACEABLE FUSE IS HOUSED WITHIN THE BATTERY BOX.

## NOTES:

- 1. IF FEEDING WIRES THROUGH TRUNKING, PAST HOT BALLASTS OR SHARP EDGES; MAKE PROVISION FOR PROTECTION.
- 2. IP65 BATTERY BOXES:- PLEASE ENSURE IP SEALS ARE REPLACED IF REMOVED FOR FUSE CHANGE.



#### **ELECTRICAL TESTING**

ALL UNITS ARE TESTED PRIOR TO RELEASE FROM THE FACTORY. ON-SITE TESTS SHOULD BE LIMITED TO REGULAR FUNCTIONAL TESTS.

## COMMISSIONING

FILL IN THE DATE ON THE SPACE PROVIDED ON THE BOTTOM LABEL. THIS SHOULD BE DONE BY THE INSTALLER OR THE COMMISSIONING OFFICER.

CONNECT THE UNSWITCHED SUPPLY AND CHECK THAT THE RED LED INDICATOR IS ON. SWITCH ON NORMAL SWITCHED SUPPLY AND ENSURE THAT THE LAMPS OPERATES NORMALLY.

LEAVE CONNECTED TO THE UNSWITCHED SUPPLY FOR AT LEAST 24 HOURS. INTERRUPT THE SWITCHED AND UNSWITCHED SUPPLIES AS PER A NORMAL MAINS FAILURE. CHECK THE EMERGENCY LAMP ILLUMINATES (THIS WILL BE AT A REDUCED LEVEL). RESTORE THE SUPPLIES AND CHECK THAT LAMPS ILLUMINATE NORMALLY.

#### **ROUTINE TESTING - See BS5266 Part1 1988**

IT IS RECOMMENDED THAT EMERGENCY LIGHTING INSTALLATIONS ARE TESTED ON A ROUTINE BASIS AS FOLLOW.

- 1. REGULARLY CHECK THAT THE LED's ARE ON.
- 2. ONCE A MONTH, INTERRUPT BOTH SWITCHED AND UNSWITCHED SUPPLIES. CHECK THAT THE EMERGENCY LAMP ILLUMINATES FROM THE BATTERIES.

NOTE: TESTING BY INTERRUPTION OF UNSWITCHED SUPPLY ONLY (HIGH FREQUENCY CONTROL GEAR ONLY)

IT IS NECESSARY TO INTERRUPT THE UNSWITCHED SUPPLY FOR MORE THAN 5 SECONDS TO PREVENT ANY DAMAGE TO THE BALLAST. ONLY TEST IN THIS WAY IF TOTAL POWER FAILURE TEST IS UNSUITABLE DUE TO OCCUPATION OFPREMISES.

- 3. TWICE A YEAR INTERRUPT BOTH SUPPLIES AND OPERATE LAMP FOR 1 HOUR.
- 4. AT THE THIRD YEAR INTERRUPT BOTH SUPPLIES AND CHECK THAT FULL DURATION IS ACHIEVED i.e. 3 HOURS.

**NOTE:** TESTS 3 AND 4 SHOULD BE CARRIED OUT WHEN THE AREA IS UNOCCUPIED AND THE EMERGENCY LIGHTING CAN BE OUT OF ACTION FOR A FEW HOURS.

THE BATTERIES SHOULD BE REPLACED WHEN THE DURATION CANNOT BE ACHIEVED.

## **WARNING**

- 1. HIGH VOLTAGES CAN BE PRESENT EVEN WHEN A LAMP IS NOT ILLUMINATED.
- 2. THE EMERGENCY LIGHTING EQUIPMENT HOUSES ELECTRONIC COMPONENTS WHICH MAY BE DAMAGED BY MISUSE OR UNSUITABLE TESTS.
- 3. THE NICKEL CADMIUM BATTERIES ARE HIGH ENERGY DEVICES AND SHOULD NOT BE SHORT-CIRCUITED.
- $4.\,$  DISPOSAL OF LARGE QUANTITIES OF OLD BATTERIES MAY REQUIRE ADVICE FROM PROFESSIONAL WASTE DISPOSAL EXPERTS.
- 5. DO NOT DISPOSE OF NICKEL CADMIUM BATTERIES BY THROWING ON FIRE.
- 6. DO NOT PIERCE NICKEL CADMIUM BATTERIES.

FAULT	FINDING GUIDE
SYMPTOMS	COMMON FAULTS
A) LAMP WILL NOT LIGHT AT ALL	INCORRECT WIRING     UNSWITCHED LIVE NOT PRESENT AT LUMINAIRES     FAULTY LAMP
B) LAMP LIGHTS ON EMERGENCY BUT NOT ON MAINS	INCORRECT WIRING     SWITCHED LIVE NOT CONNECTED     FAULTY STARTER     FAULTY LAMP     FAULTY BALLAST
C) LAMP LIGHTS ON MAINS NOT ON EMERGENCY	BATTERY FLAT     LUMINAIRE NOT PROPERLY EARTHED OR WIRING NEEDS RE-ARRANGING     MODULE FAULTY
D) LED DOES NOT LIGHT	LED FAULTY     UNSWITCHED LIVE NOT SWITCHED ON     BATTERY NOT CONNECTED     FUSE NOT INSERTED
E) INTERMITTENT STRIKING	INTERMITTENT CONNECTION WITHIN WIRING     LUMINAIRE BADLY EARTHED     WIRING NOT CORRECT
F) LAMP IS AT VERY LOW OUTPUT ON EMERGENCY	1. ONE END OF LAMP OPEN CIRCUIT 2. AS 'E' ABOVE

# PLEASE NOTE

SHOULD THIS EMERGENCY PRODUCT MALFUNCTION
PLEASE CONTACT:THE AFTER SALES DEPARTMENT - PHILIPS LIGHTING - Telephone 020 8665 6655

JOB No.		LOCATION	NO		INSTALLER					
FULL RECHARGE TIME		DURATION	NO		DATE			INSTALLA (Full Charç	INSTALLATION ENGINEERS TEST (Full Charge and Discharge Cycle)	ST e)
ROUTINE TEST RECORD	ORD									
TEST	FIRST YEAR	~	SECOND YEAR	AR	THIRD YEAR	~	FOURTH YEAR	AR	FIFTH YEAR	
(MONTHLY)	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE
FUNCTIONAL										
FUNCTIONAL										
FUNCTIONAL										
FUNCTIONAL										
FUNCTIONAL										
1 HOUR DURATION										
FUNCTIONAL										
FUNCTIONAL										
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FUNCTIONAL										