Safety Information

> All electrical work must be undertaken by a qualified contractor to ensure compliance with latest edition BS7671 and IEE/IET wiring regulations.

> Before installing a Bulkhead or doing any maintainance, ensure power supply is turned off at the circuit breaker or fuse box.

> This product is designed for permanent connection to fixed wiring; the circuit should be protected with the appropriate MCB or fuse.
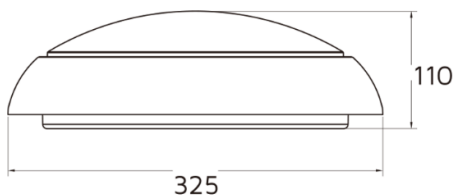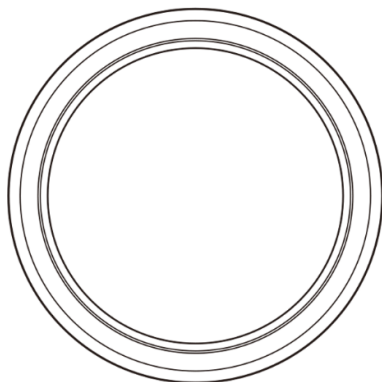
Environment

> Please DO NOT dispose of electrical items or packaging as unsorted waste. Use the recycling facilities provided by your local authorities.

Installation (Non-user replaceable light source)

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

PRODUCT DIMENSIONS

110

325

All units are in mm

theLIA

MEMBER

LED Luminaires
and Retrofit Bulbs
Licensing Program

Member
NET LED Ltd

ENABLED

bsi. **ISO 9001** Quality Management

Certificate No. FS 571788

bsi. **ISO 14001** Environmental Management

Certificate No. EMS 571787

NET LED® LIGHTING

LED BULKHEAD INSTALLATION GUIDE

LED BULKHEAD NET-33-06-XX

KEY DATA

Light Source	LED
Power	16W
Luminous Flux (3000K)	1300lm
Luminous Flux (4000K)	1550lm
Luminous Flux (5500K)	1400lm
Luminous Efficacy	86lm/W / 105lm/W / 91lm/W
Colour Temperature	3000K / 4000K / 5500K
Colour Rendering	>80 CRI
Housing Material	Polycarbonate
Diffuser Material	Polycarbonate
IP Rating	IP65
Manufacturer	NET LED Lighting

SUPPLY/EARTH CLASS

220-240V AC 50/60 Hz   Class I

Fig.1 Mains Input Termination

Luminaire		Mains Supply
(L)		Unswitched Live (Black)
(SL)		Switched Live (Brown)
		Earth (Green)
(N)		Neutral (Blue)
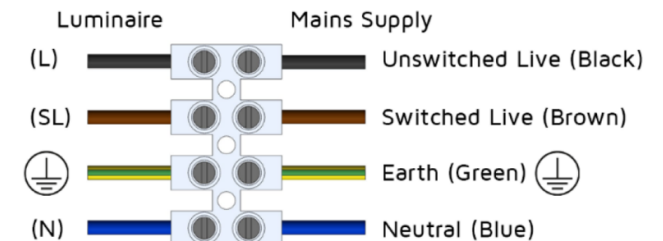
UK CA   CE

Installation procedure: Carefully read the installation instructions and ensure the mains supply is isolated before installation. Please read the safety information overleaf before carrying out any installation. Please retain this leaflet for future reference.
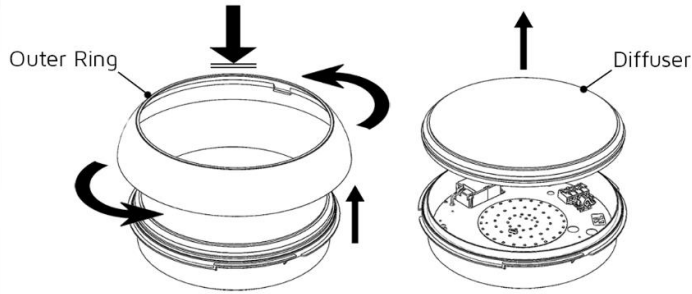
Bulkhead installation:

Replaceable control gear by professional

Replaceable (LED only) light source by professional

Step 1: Hold down the Bulkhead and rotate the Outer Ring anti-clockwise to remove it. Then remove the Diffuser.
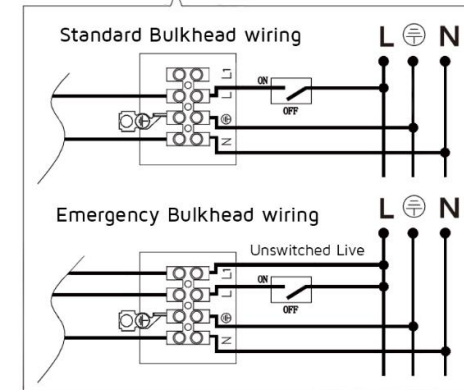
Outer Ring

Diffuser

Step 2: Remove the Gear Tray from the housing by loosening the quick release screws. Drill out the screw holes in the housing and screw it into a solid surface using suitable wall plugs and screws.

Quick release screws
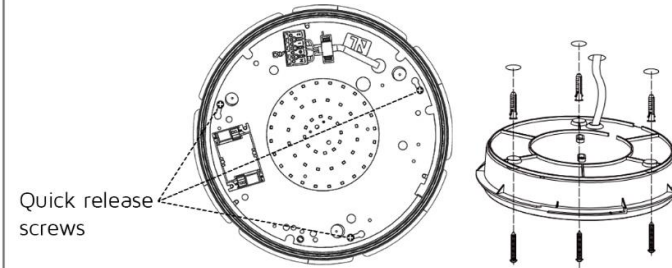
**Step 3**: Wire the Gear Tray as per the diagram below.
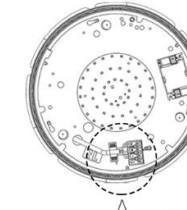
Note: A qualified electrician is required to carry out the electrical wiring.
All wiring must be double insulated where there is a possibility of coming in contact with live wires.

Standard Bulkhead wiring L ⏚ N

Emergency Bulkhead wiring L ⏚ N

Unswitched Live

Step 4: Re-insert the Gear Tray into the housing and secure the power cable.

Power Cable

Tri-colour Switch (If applicable)

Step 5: Replace the diffuser by aligning it with the Gear Tray housing then align the Outer Ring and rotate it clockwise. Switch on the mains supply.
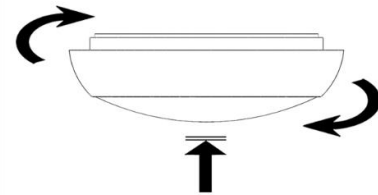
Daylight Sensor Configuration (Only for units with the Daylight Sensor option:

Night/Light Sensor Function

	1	2	3	4	open	close
I	ON	ON	ON	ON	5Lux	25Lux
II	ON	ON	ON	-	10Lux	50Lux
III	ON	ON	-	ON	25Lux	75Lux
IV	ON	ON	-	-	50Lux	100Lux
V	ON	-	ON	-	100Lux	200Lux
VI	ON	-	-	-	150Lux	300Lux
VII	-	ON	-	-	200Lux	400Lux
VIII	-	-	-	-	Disable	

← Default Settings

ON ↑

When ambient light level is below the open lux level, the sensor automatically switches on luminaire at 100% brightness. When ambient level is over close lux level, the luminaire switches off.

Important Battery Warranty information
The Battery has a 1 Year Warranty.
To claim, you must provide the product part number and date of manufacture, which can be found on the label attached to the Luminaire housing along with the original purchase invoice.

X 1 A 180

STREAMER

Microwave Motion Sensor Configuration: These settings are only for the LED Gear Tray with Microwave Sensor option.

ON

1 2 3 4 5 6 7 8

Please note: Dip switch in the 'Up' position is ON.

Detection area can be changed by selecting the combinations below on the DIP switches. Maximum detection area 12m.

Refers to the time period the lamp remains at 100% illumination after no motion is detected.

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absense of people. When set to '+∞', the low light is maintained until motion is detected. When set to '0s', the light will turn off after hold time.

Detection Area			Full Brightness Hold Time			Daylight Sensor			10% Corridor Function Time		
ch1	ON		ch3	ON		ch5	ON		ch7	ON	
ch2	ON	100%	ch4	ON	5S	ch6	ON	Disable	ch8	ON	Off/0S
ch1	-		ch3	-		ch5	-		ch7	-	
ch2	ON	75%	ch4	ON	90S	ch6	ON	50Lux	ch8	ON	30S
ch1	ON		ch3	ON		ch5	ON		ch7	ON	
ch2	-	50%	ch4	-	3min	ch6	-	15Lux	ch8	-	10min
ch1	-		ch3	-		ch5	-		ch7	-	
ch2	-	25%	ch4	-	10min	ch6	-	5Lux	ch8	-	Always On/+∞

Default Set Up On Delivery

NET LED LIGHTING

SELF TEST EMERGENCY INSPECTION GUIDE

About:

Initial Test
Connect LED load, emergency module, battery and LED driver, then connect mains supply, this emergency conversion module will automatically start to do an initial test.
If the components are not functioning correctly, the LED indicator will flash RED. If everything is correct, then it will go into charge mode.

Functional Test
Functional tests are carried out for 10 seconds automatically every 30 calender days.

Duration Test
Emergency conversion module will automatically make a full duration test every 180 calender days to check capacity of battery.

Note
If the mains supply is off during the self-test period, emergency conversion module would terminate self-test immediately and go into emergency mode.
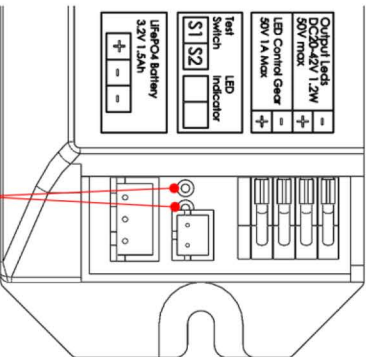
Timer reset functionality
The timer for function and duration test can be set to a particular time of the day by cycling the un-switched line supply 3 times within 1 minute.

LED STATUS INDICATOR

	Colour	LED indication	Status	Comment
🟢 (flashing)	Green	Slow flashing green (3sec on, 1sec off)	Charging mode	
🟢	Green	Permanent green	Fully Charged & Operational	
🟢 (fast flashing)	Green	Fast flashing green (0.1sec on, 0.1sec off)	Function test underway	
🟢 (flashing)	Green	Slow flashing green (1sec on, 1sec off)	Duration test underway	
🔴	Red	Permanent red	Load failure	Open circuit / Short circuit / LED failure
🔴 (flashing)	Red	Slow flashing red (1 sec on, 1 sec off)	Battery failure	Battery failed the duration test or function test / No battery

Reset instructions:

Reset points

Reset points

Test Switch
S1 S2

LED Indicator

Output Leds DC26-42V 1.2W 50V max
LED Control Gear 50V 1A Max
LiFePO4 Battery 3.2V 1.5Ah

If faulty status is triggered, the LED indicator will flash RED. To reset the emergency kit, touch the two reset points for 5-10seconds with a piece of wire, or a short-circuit needle.

NET LED® LIGHTING

Part Number:	Installation Date:
Luminaire Ref/Location _____	**In case of difficulty, contact the Installation Engineers:** _____ Tel: _____
Full Recharge Time 24 Hours	Duration 3 Hours	Lamp Type - LED

ROUTINE INSPECTION TEST RECORD
(ENSURE SELF-TEST LED INDICATOR IS DISPLAYING PERMANENT GREEN STATUS)

Monthly Check	Year 1		Year 2		Year 3		Year 4		Year 5	
	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
Inspection										
Inspection										
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