

## Clevertest and Clevertest Plus

Refer to the supplementary operation guide supplied with the Product.

After Power ON, the Status LED on a Clevertest Plus enabled fitting will display a rapid Green or Red flashing for a period up to 2 minutes.

Note: To scan Status LED on the fitting, ring and lid at the front of Bunkalite needs to be removed.

## Zoneworks, HIVE and DATA Monitored Options

Fittings with part numbers -ZW, -HVG, -DATA are fitted with Zoneworks communications modules (nodes). These fittings are monitored using either Powerline Carrier Technology that utilize the power cable to provide data communication, RF transceiver modules operating in the ISM band or a dedicated data cable to/from data routers installed on a dedicated data trunk connected to a central Server (can also be connected via Ethernet/Internet/Fibre). Zoneworks software on the server is used to monitor, coordinate testing and collate test data from each fitting. Zoneworks Fittings can be commissioned by a single push of the test switch or by scanning the supplied barcode. The LED Test Switch indicator provides a multifunction indication of the status of the fitting during testing and normal operation:

Option	State	LED Operation
ZW, HVG, DATA	Commissioned	LED on Solid (Green)
ZW, DATA	Un-commissioned	<b>Batt plugged-in:</b> red & green 1s, green 1s
		<b>Batt unplugged:</b> red 1s, off 1s
HVG	Un-commissioned With network connectivity	<b>Batt plugged-in:</b> red & green 1s, green 1s
		<b>Batt unplugged:</b> red 1s, off 1s
HVG	Un-commissioned Without network connectivity	<b>Batt plugged-in:</b> red & green 1s 250mS, green 250mS, red & green 1s 250mS, green 250mS, green 1s
		<b>Batt unplugged:</b> red 250mS, off 250mS, red 250mS, off 250mS, off 1s
ZW, DATA	Emergency Light Test In Progress	LED flashes at red & green 1s 5s , Off 1s
HVG	Emergency Light Test In Progress	LED flashes at red & green 1s 1s , Off 1s

In the case of the DATA version a 2-way "figure 8" cable and terminal block facilitates the connection to the DATA network via a multi-drop bus (daisy chain connection). For further information of installation of a Zoneworks system, please refer to the Zoneworks Users Guide and Commissioning Guide (incl. DATA version)

## DALI EM Option

Luminaires with part numbers having -DALI are fitted with DALI modules (nodes) that facilitate connection and integration to 3<sup>rd</sup> Party Lighting Control Systems. Before installing the -DALI fitting please confirm that the Lighting Control System has the capability to monitor DALI Emergency Luminaires. The -DALI fitting will be addressed and configured into the control system by the Lighting Control System Commissioning Technicians and not Clevertronics.

State	LED Operation
Commissioned/ Un-commissioned	LED on Solid (Green)
Emergency Light Test in progress	LED flashes at 1s On (red & green) & 1s Off
"IDENTIFY COMMAND"	Fitting goes into emergency mode for 10 seconds

A 2-way "figure 8" cable and terminal block facilitates the connection to the DALI network OR a 5/6way "structured wiring system" lead and plug facilitating the power and DALI connection. DALI connections are marked as Da Da.



# L10™ Disc (Circular) LED Emergency Luminaire

## Installation & Maintenance Instruction Leaflet



NOTE: Standard product codes with this symbol  are enabled with Clevertest Plus capability. Please refer to the operation guide supplied with the product for details.

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### Models:

#### Testing:

Manual Test xx = Blank  
 Zoneworks xx = ZW  
 Z/W DATA xx = DATA  
 DALI Registered. xx = DALI  
 Hive xx = HVG

### LDISC-yy-xx

#### Options:

DALI Driver yy = DD



### Spare Parts:

1530260 BATT:L10 6.6V 2500mAh.200mm lead, SBS  
 8002826 PCA: CLE 315mm 4000lm 840 ADV4 EM  
 1330053 LED Driver - LC 25W 350-1050mA flexC C EXC  
 UKM01370120001 UKM01370120001 LED Power Pack, 2.4W, L10, OWC, CTP

### Important:

It is illegal for anyone, except for a licensed electrician to install or maintain this product. Before installation, ensure that the electricity supply has been switched off and isolated. Installation must be carried out in accordance with the relevant British Standards.

## Installation:

The Disc Circular can be installed either Ceiling or Wall Mounted.

- Remove the diffuser from the base.
- Remove the gear-tray by loosening the 4 screws holding it in place and then slightly rotating the gear-tray anti-clockwise to release it from the keyhole slots.
- The power cable entry to the luminaire is via the rear surface of the base through the existing hole. Ensure appropriate cable entry provisions are made on the installation surface for this purpose.
- The base of the luminaire can be mounted to the installation surface with the use of suitable fasteners (Not provided). These fasteners should be placed through the mounting feet of the base of the luminaire. If the luminaire is to be wall mounted, ensure that the test switch and status LED is downward facing.
- Route the power cable into the base via the existing hole at the rear of the base during the installation of the base.
- Secure the gear-tray to the base by connecting the lanyard extending from the base to the gear-tray.
- Connect the 240VAC (⊕, L<sub>SW</sub>, L<sub>EM</sub>, N) supply to the terminal block of the gear tray.
- Secure the gear-tray to the base via the keyhole slots on the gear-tray and by tightening the 4 screws.
- Fit the diffuser to the base.
- Apply power to the luminaire and test as per the instructions.
- If the CTP capabilities are activated, please affix the CTP status label to a visible surface and update the Four Segment Marking on the product to include a "F" in third segment block.

## Dimensions:

Complete luminaire outer dimensions: **425mm (Diameter) x 116mm (Height)**  
Base Diameter: **330mm**



## Note:

This luminaire (with reinforced insulation between control/LED terminal and AC supply) contains non-user replaceable light source and battery - to be replaced (if required, refer installation instructions for battery replacement) by Clevertronics service personnel/agents or a registered electrician.

## Maintenance:

Prior to any work, **isolate the power to the luminaire** that requires Battery or Lamp replacement

### Battery Replacement:

1. Obtain access to the base of the fitting. Do this by removing the diffuser, then removing the gear-tray by loosening the 4 screws holding it in place and then slightly rotating the gear-tray anti-clockwise to release it from the keyhole slots.
2. Disconnect the battery connector from the Emergency Driver.
3. Cut the cable tie to remove the battery and then replace it with the new battery. Use a new cable tie to secure the battery in-place similar to how it was prior to the removal of the existing battery.
4. Fit the battery connector to the Emergency Driver.
5. Refit the gear-tray and diffuser by following the above process in reverse.

### Lamp Replacement:

1. Remove the diffuser. If the battery continues to power the LED Module, then remove the gear-tray by loosening the 4 screws holding it in place and then slightly rotating the gear-tray anti-clockwise to release it from the keyhole slots. Disconnect the battery connector from the Emergency Driver. Then refit the gear-tray to the base.
2. Gently push into the top of the wiring terminals and pull out the wires from the LED Module.
3. Un-do the 6 Philips head screws to disengage the LED module from the gear-tray.
4. Fit the new LED Module to the gear-tray by following the above process in reverse. Ensure the battery connector is refitted, if it was removed during the lamp replacement process

## Testing:

Once connected to the 240V mains supply, the unit must be allowed to charge the battery for at least 24 hours. Conduct the following tests:

5. The emergency lamp must illuminate for at least 180 min after disconnection from the mains. If the unit fails to illuminate for the requisite time, remedial action must be taken to repair the situation and once completed, the unit must pass a subsequent test.
6. Press and hold Test Button or switch Off Mains Supply, check that the emergency lamp is On.
7. Release the Test Button or Switch On Mains Supply, check that the emergency lamp is Off (Non-maintained operation).

## Trouble Shooting:

Below are a list of common problems and their possible causes.

**Fault: The Green LED Test Switch indicator is not illuminated.**

Check: A.C. is connected and is turned on.  
Battery is connected

Test Switch for damage.

**Fault: Lamp does not illuminate in emergency mode.**

Check: A.C. is connected.  
Lamp is correctly inserted.  
Battery is connected

**Fault: Lamp illuminates in emergency mode, but only stays on for a short period.**

Check: Battery has been allowed to charge for at least 24 hours.  
Battery for damage.

## Caution:

On many building sites, power circuits may be cut off in an uncontrolled and repetitive basis during construction. As a result, any Exit & Emergency Units, on these circuits, will have their batteries discharged or "cycled". The Li-ion battery in the luminaire has been selected to give excellent long life performance in a controlled IEC 60598-2-22 testing environment. Excessive battery cycling will reduce through-life performance and may lead to premature battery failure. Battery warranty claims, as a result of such abuse, are specifically EXCLUDED from Clevertronics warranty terms.

## Warranty:

For Product Warranty information and Terms and Conditions of Sales please refer to our website <https://clevertronics.co.uk/product-warranty-statement/>