

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.

The diffuser will require removal to gain access to the Test/Status Switch and LED.

Maintained fittings cannot be scanned with a camera using the CleverSparky App as the maintained light source interferes with the camera scanning function. To register the fitting manually enter the serial number from the QR code and visually read the test result and enter manually into CleverSparky.

Zoneworks, HIVE and DATA Monitored Options

Fittings with part numbers -ZW, -HV, -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, HV, DATA	Commissioned	LED on Solid (Green)
ZW, DATA	Un-commissioned	Batt plugged-in: yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HV	Un-commissioned With network connectivity	Batt plugged-in: yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HV	Un-commissioned Without network connectivity	Batt plugged-in: yellow 250mS, green 250mS, yellow 250mS, green 250mS, green 1s
		Batt unplugged: red 250mS, off 250mS, red 250mS, off 250mS, off 1s
ZW, DATA	Emergency Light Test In Progress	LED flashes at yellow 5s , Off 1s
HV	Emergency Light Test In Progress	LED flashes at yellow 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 3rd Party Lighting Control Systems. Before installing the -DALI luminaire, 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 (Yellow) & 1s Off
"IDENTIFY COMMAND"	Lamp and Status LED Flash for 30 seconds

A 2-way "figure 8" cable and terminal block facilitates the connection to the DALI network. DALI connections are marked as Da Da.



LED Emergency Bulkite Installation & Maintenance Instruction Leaflet



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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.

Models: CBULKy-xx-vv

Testing:

Manual Test xx = Blank
Zoneworks xx = ZW
Z/W DATA xx = DATA
Zoneworks HIVE xx = HV
DALI Registered. xx = DALI 

Options:

Switched Active vv = SA
Maintained y = M

Spare Parts:

1550231 BATT:LP 3.2V 6400mAh.200mm lead, No Brkt
8002963 PCA: CT10142-L9 6C150 CTP DALI HV ZW AU 250mA Batt
8050790 HWSUB: CT10754-D2 LED Strip - 2835 LP/L10

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 Australian and International Standards.

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 battery in this fitting has been selected to give excellent long-life performance in a controlled AS2293 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.

Installation:

This CBULK Surface Mount Emergency Luminaire can be installed on solid or T-BAR ceilings/surfaces or used to replace an existing unit.

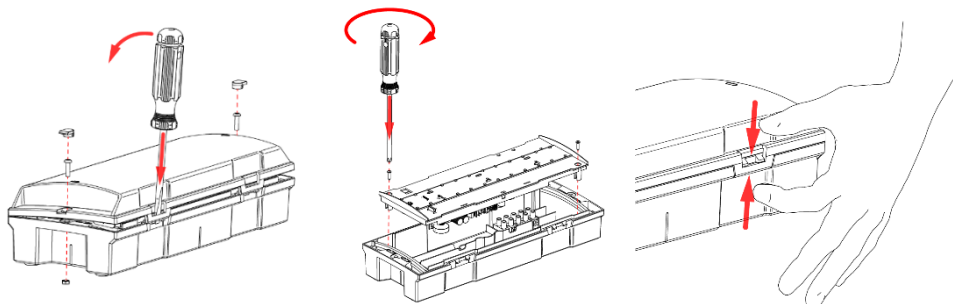
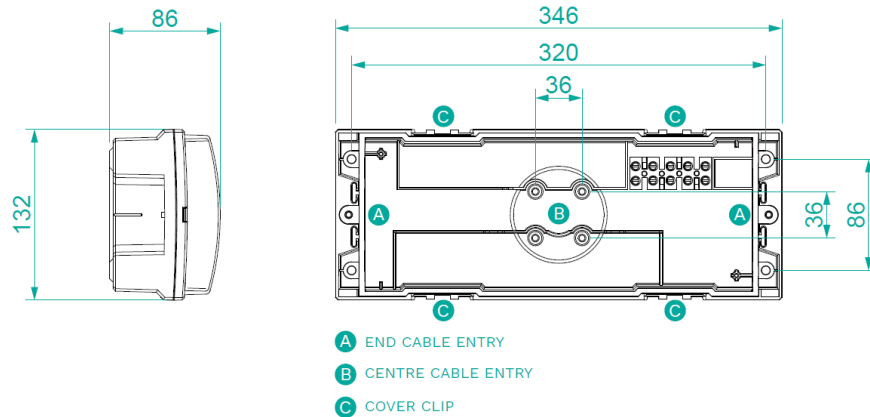
- Locate the installation position.
- Remove the diffuser by levering the 4 clips holding the diffuser (see Below image on how to do this).
- Remove gear tray by undoing the 2 screws holding it in place (using a suitable screwdriver)
- Pre-drill mounting holes (Image showing it below).
- Mount base plate and use suitable fixings to secure the base plate into the pilot holes (including consideration of maintaining the IP rating)
- Bring in supply cables via the rear entry hole **(B)** or via the ends **(A)** of the base you will need to drill a suitable hole where cable entry is required. Consult the Cable Gland datasheet for correct size of the hole.
- The product is designed to take a Maximum M25 Cable Gland. A suitable cable diameter will need to be selected depending on Gland used, consult Manufacturer datasheet.
- Terminate the supply cables to the unswitched Live, Neutral & Earth Loop terminals (in the case of the –DALI or –DATA fittings terminate the DALI or DATA cable to the terminals marked Da or DATA).
- Ensure the Battery is connected.
- Push the gear tray back into position and secure in place using the two screws.
- Install the diffuser by pushing it down and squeezing the clips together. Verify that all 4 clips are properly engaged. This is to ensure the IP seal is compressed. (image below)

If the CTP capabilities are activated, please affix the CTP status label to a visible surface and Four Segment Marking on the product will include an “F” in third segment block.

Networking:

When installing the product on a monitored network, (ZONWORKS, HIVE, DATA, DALI) simply insert the relevant Smart Node PCA.

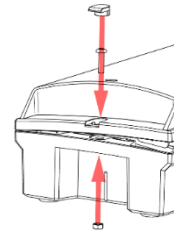
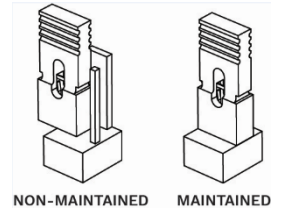
Dimensions:



Non-Maintained/Maintained Mode selection

To Change the mode of operation from Non-Maintained to maintained place the jumper across the J4. Image to the right.

NOTE: If you change the product from Non-Maintained to Maintained update the Four Segment Marking on the product to include an “1” in Second segment block.



Securing the Diffuser

To secure the diffuser you can add the provided screw and nut. To do this add the nut into the slot provided in the base then use the screw to fix in place.

Battery Replacement:

1. Prior to any work, isolate the power to the luminaire that requires battery replacement
2. Open the fitting by removing the diffuser, see images in installation instruction.
3. Remove the gear tray. Support gear tray while removing the screws
4. Remove the Battery Connector from the Emergency PCA.
5. Remove the battery from the gear tray by removing mounting screws.
6. Replace battery, re-install screws and connect to Emergency Driver.
7. Refit gear tray and diffuser.

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:

- For the first test, the emergency lamp must remain illuminated for at least 2 hours after disconnection from the mains supply.
- Subsequent tests require the unit to illuminate for at least 90 minutes. The results of all tests are required to be recorded in a service logbook, which is to be kept on-site at all times. If the unit fails to remain illuminated for the requisite time, remedial action must be taken to repair the situation and once completed, the unit must pass a subsequent test. For more specific information, please refer to the current edition of the AS 2293.3 Standard.

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.

Rated Emergency Lumen Output in accordance with AS2293.1 (refer to spacing tables for installation positions):

Refer to the Technical Label for classification information.

Warranty:

For Product Warranty information and Terms and Conditions of Sales please refer to our website

<http://clevertronics.com.au/terms-conditions-sale-australia-nz/>