

Clevertest and Clevertest Plus



The Clevertronics Clever-test units (LLIFE-PRO-SPOT-CT) can be programmed to perform 90 minute discharge tests at 6-month intervals. A manual test is initiated by pressing the test switch 3 times within a 5s period (immediate discharge test). A 24 hour delayed test (to allow batteries to fully charge before a test) can be initiated by pressing the test switch and hold for 10 seconds (i.e., until LED Test Switch indicator flashes rapidly). Refer Clever-test Operation Guide for more information. Once the test has been completed, maintenance personnel then view the Status Indicator of each fitting to determine a pass or failure:

SOLID GREEN (not flashing)	NORMAL – The luminaire is in a normal state charging and awaiting next discharge test.
SLOW YELLOW FLASH (2s Yellow, 2s Off)	TESTING – The luminaire is currently performing a test.
VERY SLOW YELLOW & GREEN (4s Yellow, 1s Green)	RECENTLY PASSED – The luminaire has previously tested and passed. This indication remains for 5 days after the completion of the test and then changes to SOLID GREEN to indicate a normal state.
FAST YELLOW & GREEN FLASH (0.5s Yellow, 0.5s Green)	FAILED LAST TEST – The luminaire has previously tested and failed to remain illuminated for the required duration. This indication will remain until the required maintenance work has been completed and the luminaire passes a subsequent discharge test.

Zoneworks and DATA Monitored Options

LLIFE PROs with part numbers LLIFE-PRO-SPOT-ZW, LLIFE-PRO-SPOT-DATA are fitted with Zoneworks communications modules (nodes). These fittings are monitored using either Powerline Carrier Technology that utilises the power cable to provide data communication 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 Lifelight. Zoneworks LLIFEs can be commissioned by a single push of the test switch, or scanning of the supplied barcode. The LED Test Switch indicator provides a multifunction indication of the status of the Lifelight during testing and normal operation:

State	LED Operation
Commissioned	LED on Solid (Green)
Un-commissioned	LED flashes at 0.5Hz (0.5s Green, 0.5s Yellow)
Emergency Light Test In Progress	LED flashes at 3s On (Yellow) & 0.5s Off

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 LW system, please refer to the Zoneworks Users Guide and Commissioning Guide (incl. DATA version)

DALI EM Option

LLIFE PROs with part number LLIFE-PRO-SPOT-DALI are fitted with DALI modules (nodes) that facilitate connection and integration to 3rd Party Lighting Control Systems. Before installing the LLIFE-PRO-SPOT-DALI, please confirm that the Lighting Control System has the capability to monitor DALI Emergency Luminaires. The LLIFE-PRO-SPOT-DALI 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"	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™ LIFELIGHT PRO Surface Mount Spotlight Emergency

Installation & Maintenance Instruction Leaflet



Designed in Australia to comply with the requirements of AS2293.3: 2005 and AS/NZS CISPR15: 2017

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:

LLIFE-PRO-SPOT, LLIFE-PRO-SPOT-DATA, LLIFE-PRO-SPOT-DALI, LLIFE-PRO-SPOT-ZW, LLIFE-PRO-SPOT-CT (Note: also applies to the four hour, -4HR, variants)
240V, 50Hz

Spare Parts:

1530230 Battery, 3.3 Volt 5000mAh Li-ion (Note: 2 battery packs used on the -4HR versions)
1100869 Lifelight Pro Head Assembly, Ld:280mm,Rnd,LT,Gen 2
LLIFE-PRO-CKIT Lifelight Pro, Control Only, L10 Lithium

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.

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Installation:

This LLIFE-PRO-SPOT Surface Mount Non-maintained Spotlight Emergency Luminaire can be installed on any solid surface.

- Locate the installation position.
- Refer Images and Dimensions below for the Cut-out Hole and other dimensions.
- Pre-drill mounting and cable access holes.
- Route the LED cable from the head through the surface access hole.
- Mount the LED head using suitable fixings.
- Connect the LED cable to the control gear pack
- Ensure the Battery is connected.
- Apply power to the unit and test per instructions.

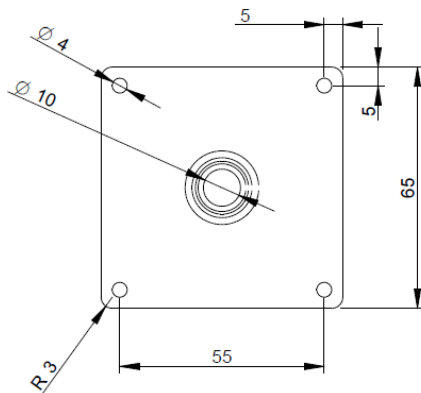
Upgrading a LLIFE-PRO to Clever-test, Zoneworks (incl. DATA) or DALI EM

All LP Lifelight PRO Emergency Luminaires (LLIFE-PRO-SPOT) can be upgraded to Clever-test, Zoneworks, Zoneworks DATA or DALI EM.

When upgrading simply insert the relevant smart node board.

Unlike previous versions of product **DO NOT** remove or alter the configuration of jumpers. There is **NO** need to remove any jumper for the correct operation of the plugin node.

Images and Dimensions: Mounting plate



Testing:

When the LLIFE-PRO-SPOT unit is connected to the un-switched active, it must be allowed to charge the battery for at least 24 hours. The emergency lamp only illuminates during a power fail. Conduct the following tests:

- The emergency lamp must illuminate for at least 2 hours after disconnection from the mains. 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 illuminate for the requisite time, remedial action must be taken to repair the situation and once completed, the unit must pass a subsequent test.
- Press and hold Test Button or switch Off Mains Supply, check that the emergency lamp is On.
- Release the Test Button or Switch On Mains Supply, check that the emergency lamp is Off (Non-maintained operation).

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

Fault: The Green LED 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):

N/A

Caution:

On many building sites, power circuits may be cut off in an uncontrolled and repetitive basis during construction. As a result, any Lifelight Units, on these circuits, will have their batteries discharged or "cycled". The Li-ion battery in the Lifelight 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 <http://clevertronics.com.au/terms-conditions-sale-australia-nz/>