

8 Maintenance

The entire Emergency Lighting installation requires regular preventive maintenance and scheduled tests, as stipulated in the security regulations. Our advice is to regularly clean the bowl and reflector whenever the devices are given preventive maintenance. In the event that the unit does not meet the duty service time (1 hour), the rechargeable battery cells must be promptly replaced. The performance characteristics of the rechargeable battery cells are specified under the "performance characteristics" section heading.

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 "Professional Waste Electronic and Electrical Equipment ("WEEE pro"), along with any Nickel-Cadmium, lead-based or Nickel-Metal Hydride rechargeable battery cells they are equipped with, represent an environmental and public health hazard". They must be selectively collected, reprocessed, and recycled.

In order to minimize your installation's environmental footprint while at the same time cutting your energy and maintenance bills, you should run your in-room emergency lighting in a non-maintained mode.

9 Technical Features

References	Order code	Approval number	Rated voltage	Electrical class	Max. consumption (W)	Light output - Flux (lms)*	IP rating	IK rating	Type (M/NM/ij)**	Reference standards					NiCd batt.cells	Emergency lamps	
										NFEN60598.1	NFEN60598.2.22	NFC71800	NFC71801	NFC71820			NFC71805
ULTRALED 45	LUM16025	T09001	230 V / 50-60 Hz	2	1.4	45	43	08	M	x	x	x	x	x	x	x	x
ULTRALED 45ES	LUM16005	T09058	230 V / 50-60 Hz	2	1.4	45	66	08	M	x	x	x	x	x	x	x	x

* Measurements done in emergency mode without any pictogram.

** Light output in mains operation is min. 3 lms.

10 Warranty

General warranty terms

COOPER SÉCURITÉ SAS (Groupe EATON) warranties these luminaires for a 2-year period (date of manufacture as proof), under the general terms set out below.

- Full warranty on parts and workmanship.
- Any defective luminaires shall be returned carriage paid to
COOPER SÉCURITÉ SAS (Groupe EATON)
Parc Européen d'Entreprises II
Rue Beethoven - BP 184
63204 RIOM Cedex FRANCE.

Self-contained luminaires replaced or repaired under the terms of this warranty shall be shipped back carriage paid.

The warranty is void:

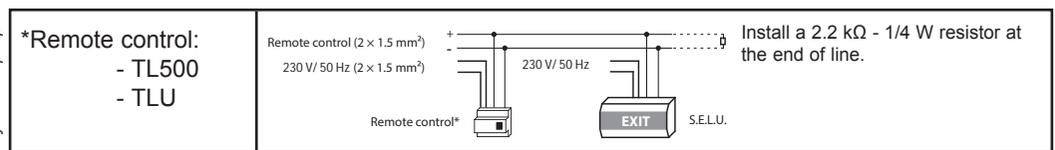
- if the material has been transformed, modified or repaired outside of COOPER SÉCURITÉ SAS (Groupe EATON) workshops;
- if the defectiveness is due to misuse or inappropriate connection.

USER GUIDE
Self-contained luminaires
ULTRALED 45 (LUM16025) and ULTRALED 45ES (LUM16005)

1 General Information

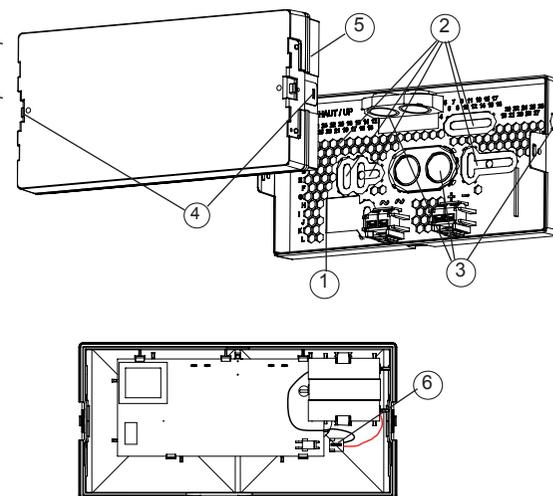
These self-contained luminaires feature non-polarized remote control inputs to facilitate installation and set-up. This device can be put on regulatory standby using the TL500 or TLU remote control (to be added, where appropriate, to the legacy installation).

2 Connection Diagram



Ambient temperature = 25 °C

3 Fixture and Connection - Ultraled 45

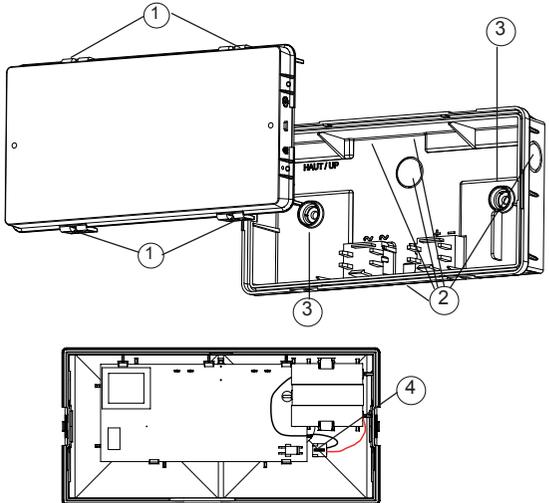


Note: The self-contained luminaire needs to be cabled using 1.5 mm² rigid wire.

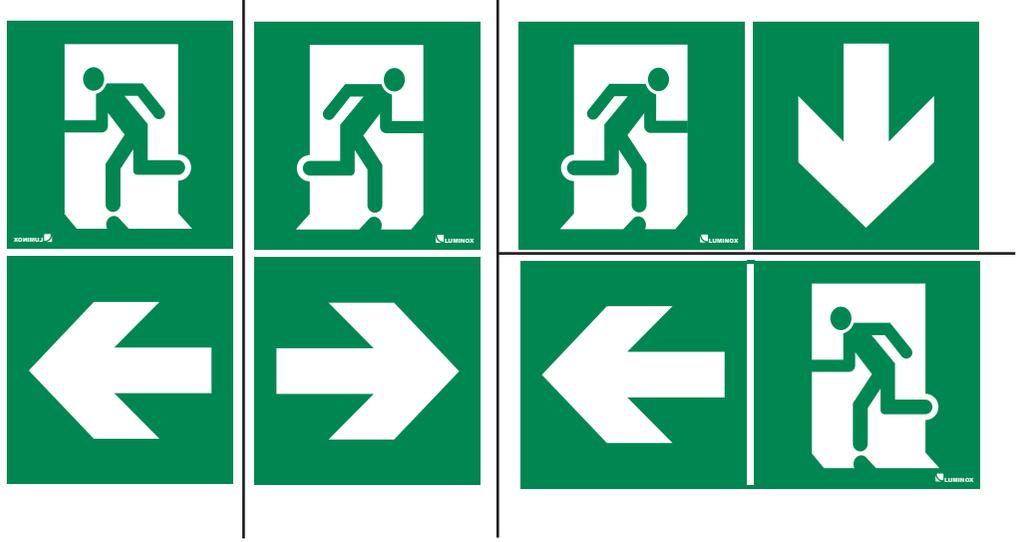
1. Remove cover-reflector ensemble from the base fixture.
2. Break through the needed cable entry tap (3) on base fixture.
3. Use this new opening to lead the cables through to the connector(s).
4. Fix the device base with 2 screws Ø 5 mm (not supplied) using the existing fixation holes or the honeycomb (2).
5. Cable up the device, following the indications engraved into the base fixture (1).
6. If the initial configuration of the pictogram is not satisfactory, remove the top cover (4) from the reflector (5) and choose the desired orientation (cf. individual packaging).
7. Plug in the battery connector (6).
8. Mount the cover-reflector ensemble onto the base fixture to close the device.

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4 Fixture and Connection - Ultraled 45ES

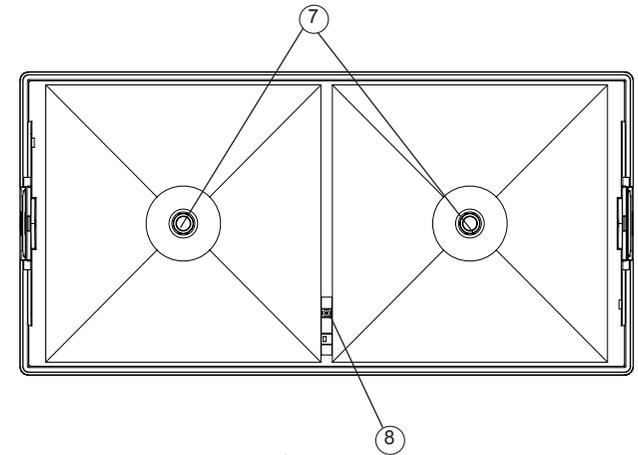


- Note: The self-contained luminaire needs to be cabled using 1.5 mm² rigid wire.**
- To remove cover-reflector ensemble from the base fixture, lever up on the small slots ① using a screwdriver.
 - Break through the needed cable entry(ies) tap ② using a screwdriver, then install the gland(s).
 - Check if the fiber washer ③ is in its place and fix the device base with 2 screws Ø 5 mm (not supplied).
 - Plug in the battery connector ④.
 - Mount the cover-reflector ensemble onto the base fixture to close the device.



6 System Power-up and Installation

When powering-up the self-contained luminaire, check the restmode LED and the status LED light up (in green or yellow: cf. results table).



- Principle / Scheduling**
Each device is equipped with a microprocessor that executes, as follows:
- **Continually:** Battery charge and charging lamp tests.
 - **Every 7 days:** Same tests as previous + check on the emergency LEDs + check on mains/emergency-mode changeover switching.
 - **Every 10 weeks:** Same tests as previous + duration test.

- Test configuration**
- The timing of the tests can be programmed in different ways:
 - ♦ either by disconnecting the battery for 10 seconds then reconnecting it; or
 - ♦ via the TLU unit remote control using the reset function (see the TLU unit user guide).
 Programming process input is signalled by the emergency lamps lighting up.
- Note:** The TLU remote control can also be used to:
- execute a one-time reschedule of the duration test;
 - launch the manual-mode test.

Test results

Status LED ⑦	S.E.L.U. status	Type of fault
Solid green	Conform	Fault-free
Slow blinking yellow	Fault mode	Faulty battery or charging lamps
Fast blinking yellow	Fault mode	Faulty emergency lamp(s)
Blinking green	Test-in-progress	Fault-free
Flashing between green and yellow	Receiving input from the remote control	Fault-free

7 Operation

Simulation of a normal power cut-off
This simulation can be run mains power connected by launching a duration test from the central control panel or from the TLU remote control box (autotest mode only).

If mains failure occurs during a test, SECURITY REMAINS PRIORITY: the test will restart once mains power is restored.

Rest mode
As a measure to prevent drain on the rechargeable battery cells and save battery capacity during a planned mains cut-off of over 10 minutes, the installation should be put into rest mode.
Setting to rest mode can only be done in emergency mode (mains OFF). Rest mode order is sent to all self-contained luminaires using "Extinction" push button of TLU or TL500 remote control box (see the user guide). Rest mode order can also be sent individually to a self-contained luminaire using BIP remote programmer (see the user guide).

Emergency mode
If power is off, the two emergency lamps of the luminaire turn on.