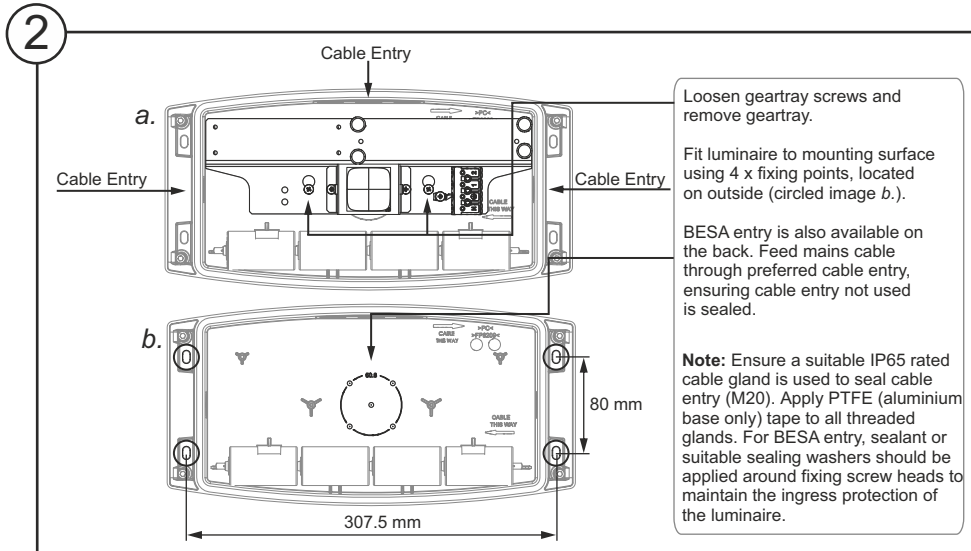
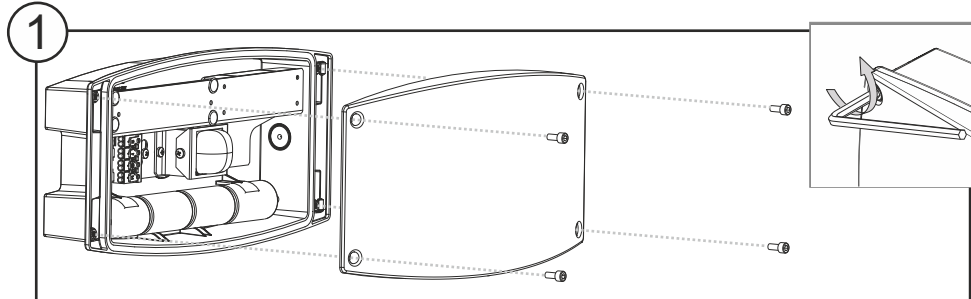


# i-P65 Plus



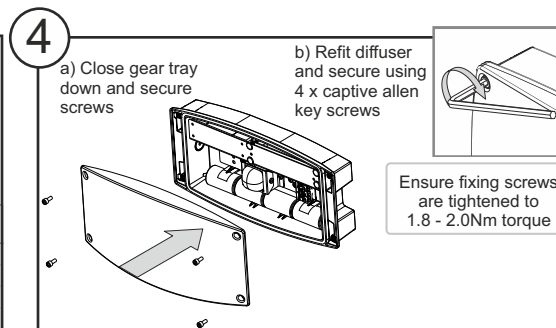
- Product luminaires comply with EN60598 and are suitable for use in normal interior and exterior conditions.
- For self contained variants - This luminaire has an ambient temperature range of 5°C to 40°C
- For slave variants - This luminaire has a ambient temperature range of -15°C to 40°C



**3** Ensure mains supply is turned off

3 - way      4 - way

	Self - Contained		Slave
	Non-Maintained	Maintained	
Earth	⊕	⊕	⊕
Neutral	N	N	N
Unswitched Live	L	2	L
Switched Live	-	1	-



**Testing Self-Contained Variants:**

The unit should be connected to an unswitched live supply, which should be connected to the normal lighting sub-circuit in that location. The LED indication should be checked to ensure that it is illuminated, this indicates that the batteries are charging. Check that the lamp illuminates when the switched live is turned on. A short discharge should be performed to check that the units are operating correctly. This is carried out by interrupting the unswitched supply at the distribution board or by isolating the appropriate unswitched supply sub-circuit. The supply should then be restored and the LED indication checked. After 24hrs carry out a full rated discharge test. The testing regime as defined in EN 50172 should then be implemented. If the unit no longer meets the emergency duration the battery must be replaced with a battery of the same type. Nominal lamp lumen output: 1 Lumen (NOTE: This figure is obtained after safety cycling tests). This value is provided to permit checking of correct operation, determination of the lighting level on an escape route can only be made with full photometric data. When used as intended this product complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU. Date of commissioning to be entered in the space provided on the battery label by either the installer or commissioning engineer.

**Safe Operation**

1. Check the rating label for voltage and frequency before connecting this luminaire to the electrical supply.
2. Ensure that the mains supply is switched off when working on this luminaire, whether installing or carrying out any other servicing.
3. Do not mount luminaire on or close to readily flammable materials.
4. To prevent damage to driver, do not mix with conventional magnetic ballasts on the same electrical circuit.
5. Where use in more onerous situations is required, e.g. In part-completed buildings before "drying-out" is completed, or areas where ambient temperatures are outside the normal temperature range, then consult our Sales Office.
6. Ensure the fixing is adequate for the luminaire weight.

**Servicing and Disposal**

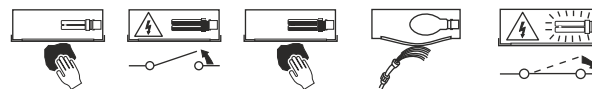
1. At commissioning and handing over of installation ensure that a copy of these instructions is presented to the authority responsible for the operation and maintenance of the luminaires.
2. Servicing, e.g. cleaning, must only be carried out after the electricity supply has been switched off. It must not be assumed that luminaires with lamps not lit are switched off-always check before servicing.
3. Cleaning should be carried out at regular intervals to ensure that dirt does not accumulate to an extent that will impair the thermal safety or optical performance of the luminaire. Regular cleaning will also ensure that the optical performance of the luminaires is maintained.
4. Avoid touching the LED strip. To clean - Blow surface with either dry air or nitrogen gas.
5. At the end of life the luminaire is classed as WEEE under directive 2012/19/EU and should be disposed of in accordance with local legislation.

**Battery Life**

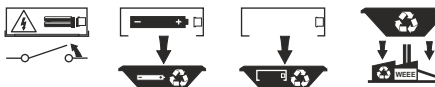
Performance of the luminaire is dependent on the use of the correct type of high temperature NiCad battery. Battery life may be impaired if the luminaire is mounted in an ambient temperature greater than 25°C. Store the luminaire or battery between 0°C and 25°C. Replace with high temperature nickel-cadmium battery to the manufacturer's recommended part number. Take care not to damage the sleeving. The battery should be replaced when the rated duration is no longer achieved.

**Warning:** When disposing of the battery do not pierce, incinerate or short circuit. The battery contains cadmium and should therefore be disposed of in accordance with recognised disposal methods. Note: The LEDs are non-replaceable but the batteries can be replaced.

**Luminaire Cleaning**



**End of Life and Components Disposal**



**Eaton**  
Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB

**Sales**      **General**      **International Sales**

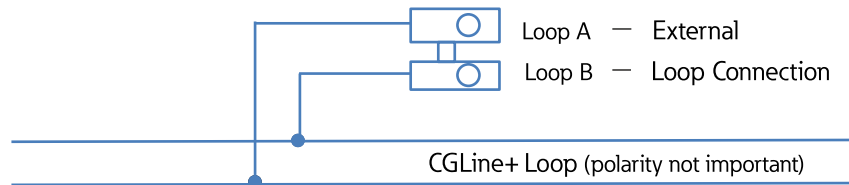
T: +44 (0)1302 303303      +44 (0)1302 321541      +44 (0)1302 303250  
 F: +44 (0)1302 367155      +44 (0)1302 303220      +44 (0)1302 303251  
 E: sales@cooper-ls.com      technical@cooper-ls.com      export@cooper-ls.com

# LED Luminaire fitted with CGLine+ Interface

## Commissioning

Refer to the main luminaire instruction leaflet for details of mains supply connection

1. Connect the loop connections to the CGLine+ Bus (see below)
2. Connect battery
3. Power-up Mains Supply
4. Check that the charge LED lights on permanent green to show charging OK
5. Configure the luminaire using the CGLine+ Controller



## Overview of CGLine+ System

When connected to the CGLine+ loop, the luminaire will execute functional and duration tests when initiated by the CGLine+ Controller. The CGLine+ Controller will also perform continuous monitoring of the luminaire emergency operation and allow emergency control functions to be performed. Please refer to the CGLine+ Controller documentation for full details.

Alternatively the luminaire may be operated in standalone 'Auto-Test' mode by disconnecting from the CGLine+ bus. In this mode functional and duration tests will be performed periodically at default test intervals. See Test Scheduling section below.

## Addressing

The luminaire is pre-programmed with a 24-bit unique ID number. When an 'Address Search' is performed at the CGLine+ Controller, the luminaire will be automatically programmed with an address (1 – 400) which is used to identify the luminaire on the loop. To enable addresses to be mapped to physical luminaire locations, a label is attached to the luminaire with the 24-bit unique ID number.

## Test Scheduling

Test Type	Test Time	Default Test Interval*
Functional	2 minutes	7 days
Duration	3 hours	52 weeks

\* When not connected on the CGLine+ Bus

## Test Scheduling (cont)

Use the CGLine+ Controller to schedule tests such that adjacent luminaires test at least 24 hours apart. This prevents a total loss of emergency coverage in the event of a genuine mains failure.

## Test Postponements

In the event of a loss of charge for > 15 minutes within 24 hours of a scheduled test, the test will be postponed. If the luminaire is connected on the CGLine+ bus, the Controller will re-schedule the test, otherwise the test will be postponed by 24 hours.

## Main CGLine+ Control Features

Rest Mode*	Put luminaire into Rest Mode. Cancelled by Mains or 'Re-light' command.
Inhibit (Block) Mode *	Stop emergency operation when mains is lost. Cancelled by 'Release'.
Start Functional Test	Start an immediate Functional Test.
Start Duration Test	Start an immediate Duration Test.
Maintained On/Off	Switch Maintained Mode On/Off **

\*Not applicable for UK emergency operation

\*\* If supported . Switched Live connection must be hardwired.

For a full list of Control Features please refer to the CGLine+ Controller documentation.

## Charge LED Indication

Luminaire Status	Luminaire with Bi-colour LED	Luminaire with Single Green LED
Mains on – system OK	Permanent Green	Permanent Green
Mains off – emergency	OFF	OFF
Inhibit Mode	Amber/ Green Medium Flash (1/sec)	Green Medium Flash (1/sec)
Lamp/LED Fail	Amber Fast Flash (2 per sec)	Green Fast Flash (2 per sec)
Charge /Test Fail	Amber Slow Flash (1 every 2 sec)	Green Slow Flash (1 every 2 sec)
In Test	Green Medium Flash (1/sec)	Green Medium Flash (1/sec)
Power-save Mode	Single Green flash per minute	1 Green flash per minute

Refer to CGLine+ Controller documentation for details of status and faults reported by the CGLine+ Controller.