

Spartan Intelligent Emergency Operation Guide

Operation

The light fitting will carry out the following function **automatically** after installation:

- Commissioning Cycle
- Function test
- Self-test

A tri-colour LED indicator displays the light fitting status. The indication colours are shown in table 1.

a. Commissioning Cycle

- Starts automatically 24 hours after installation.
- 3 charge/discharge cycles to maintain battery's full capacity.
- Battery is charged for 24 hours before each discharge cycle.
- No need for manual commissioning

b. Function Test

- Carried out every 7 days.
- Checks the function of the battery, lamp and power supply.
- Lasts for few minutes only.

c. Self-test

- Carried out at a random time every 3 month.
- Checks the battery's capacity and lamp's condition.
- Performs self-recovery for the battery if not at peak capacity.
- Is carried out at 100% load
- Discharges only 2/3 of the battery's capacity.

LED indication

LED Indication		Condition
	Blinking amber	Commissioning
	Static Amber	Function Test
		Self-test
	Blinking Red	Battery defective/Fuse blown
		PSU error
		Battery not at peak capacity
		Light engine failure
	No light	Emergency mode activated
	Static Green	Battery charged and PSU OK

Table 1. LED indication colours

Notes

- The luminaire will switch off momentarily (<0.5sec) during the transition between a test and normal operation.
- If a test was interrupted by a mains failure, the test will be halted, and the unit will enter emergency mode. Once the mains supply is back, the unit will allow 24 hours to recharge the battery before continuing the tests.
- The self-test is carried out at a random time to eliminate the possibility of having more than one unit undergoing the test at the same time.