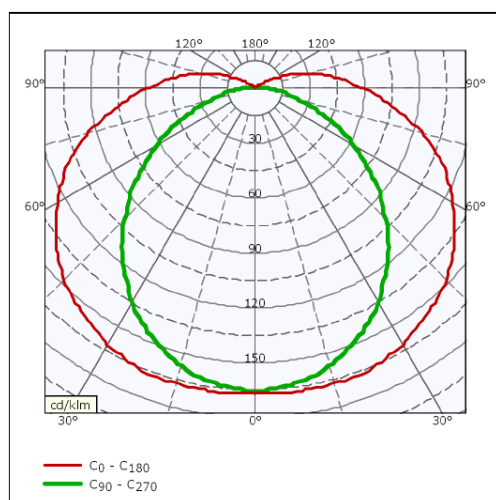


LIFT PRO
IP65 LED LIGHT**CE IP65 IK10****FEATURES**

CHARACTERISTICS

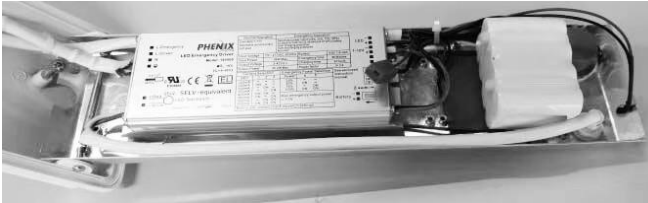
Product name	LIFT PRO ST	LIFT PRO EM	LIFT PRO EH
Item No.	LL03H115	LL03I115	LL03J115
Description	Light, LED, standard, SW/CW	Light, LED, Emergency backup, SW	Light, LED, Emergency backup, Heating system, SW/CW
Input voltage	230 VAC 50/60Hz		
Input power	15W	15W	15W (Lighting)
			2W (Charging)
			20W (Heating)
Input current	0.13A	0.13A	0.07A
			0.01A
			0.09A
Operation temp.	-30~55°C	0~55°C	-30~55°C
Survival temp.	-40~60°C	-15~60°C	-40~60°C
Emergency module	N/A	Integrated LED AC + Emergency Driver 184500, 250mA Battery Dip: 4, 5 Down	Integrated LED AC + Emergency Driver 184500, 250mA Battery Dip: 4, 5 Down
Battery pack	N/A	9.6V/1.5Ah Ni-Cd (Low temp.)	9.6V/1.5Ah Ni-Cd (Low temp.)
Heating system	N/A	N/A	Separate
Lamp type	LED SMD, 4000-6000K		
Normal lumen output	1500LM	1500LM	1500LM
Emergency lumen output	N/A	500LM	500LM
Emergency time	N/A	90 Minutes	90 Minutes
Battery life time	N/A	7-10 years	7-10 years
Battery full charge	N/A	24 Hours	24 Hours
Meas. mm [inch]	L390 [15.35] x W110 [4.33] x H94 [3.70] Mounting center: 240 [9.45]		

TECHNICAL DETAILS

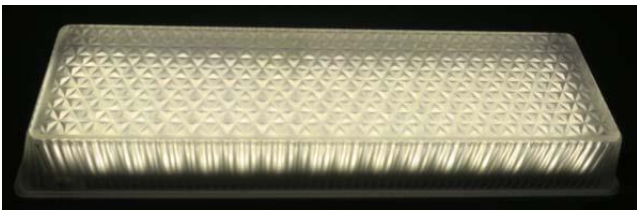
The light is with LED light source

Emergency Lighting:

For the light with battery (emergency kit), under emergency mode, the light will be 30% luminous flux for over 90 minutes. One full charging is 24 hours.

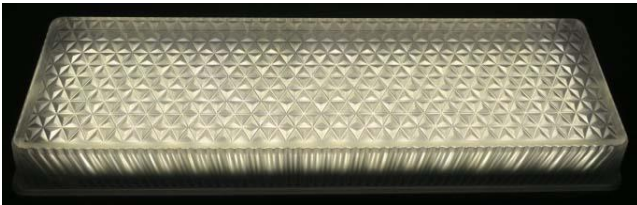


Normal mode:



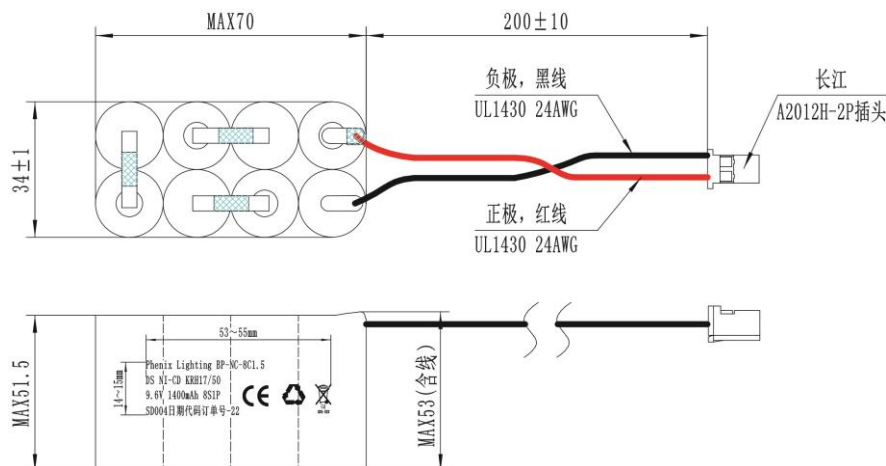
Emergency mode:

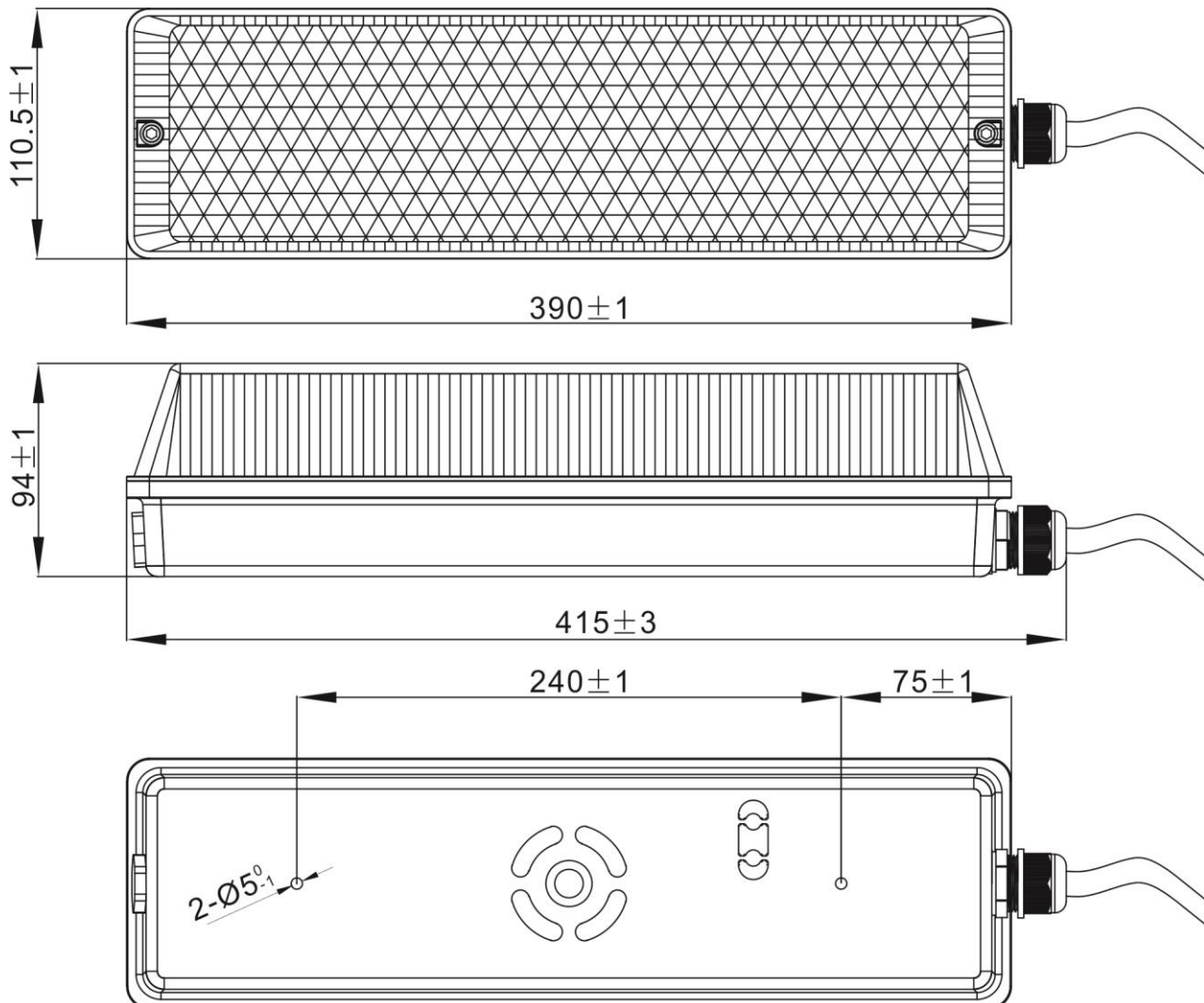
Light switches to emergency mode within 0.3 seconds when the mains power fails.



LED test switch indicates the status automatically (Details refer to Testing and Maintenance)

Battery pack





Complete lighting with junction box: (cable glands, quick connector or other auxiliary elements included):

L 500 mm x W 110.5mm x H 94mm

Complete lighting without junction box: L 390mm x W 110.5mm x H 94mm

Mounting distance (LF): 240mm

The light will be provided with 2 fixation points for M5 bolting separated by 240mm.

Cable Inputs:

Both ends of the light has the cable entries



M20 cable gland



M20 chock plug

One end is with M20 cable gland, the other end is a M20 hole with a chock plug that can be removed if necessary.

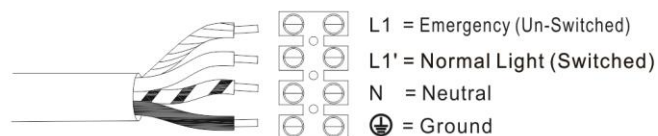
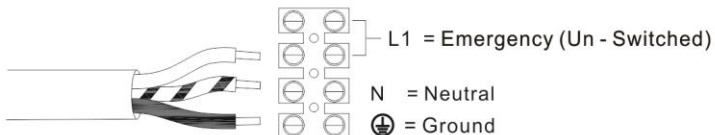
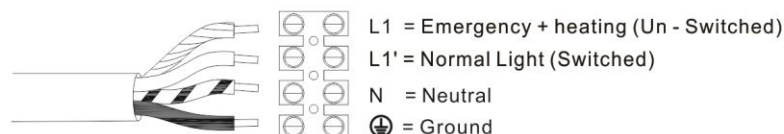
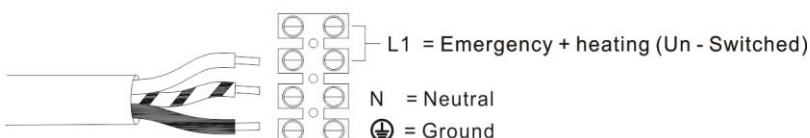
The connection will be identified as below to help the connection of the cable:

L1' = Normal Light (Switched)

L1 = Emergency (Un-Switched)

N = Neutral

⊕ = Ground

Wiring Diagram Input voltage: 230V**For LL03H115****For LL03I115
With wall switch****For LL03I115
Without wall switch****For LL03J115
With wall switch****For LL03J115
Without wall switch**

LED TEST SWITCH

For emergency (or emergency + heating) luminaires, the following testing and maintenance shall be executed:

Press the LED Test Switch (LTS) to interrupt the power to led emergency driver and to force the luminaire into emergency mode, LEDs are now being lit at a reduced light; the LTS turns off in emergency mode. After releasing the LTS, the luminaire returns to normal operation after a momentary delay, LEDs are lit with full power, and the LTS turns on.



LED Test Switch (LTS)

Note: If the end user needs the luminaire to go into the emergency mode only when the mains power is failed, an external switch should be added on the input terminal.

After installing the external switch, the luminaire need to be tested (both on and off status) if it complies the below situations:

When the mains power is on:

Turn on the external switch, the luminaire is in normal mode: All LEDs are lit, and the LTS is lit, and the battery is being charged.

Turn off the external switch, the luminaire is in normal mode: all LEDs are off, the LTS is lit, and the battery is being charged.

When the mains supply is failed:

No matter if the external switch is turned on or off, the luminaire goes into the emergency mode. All LEDs are lit at a reduced output. The LTS is blinking slowly and the battery is being discharged. When the battery is full charged, the LTS stop blinking and is lit up.

TESTING/MAINTENANCE**1. Instant Auto Test**

When the system is connected well and powered on, the luminaire will auto test if the load and battery pack are connected well and if the battery is being charged normally. If there is any abnormal situation, the LED Signal Lamp (LSL) is flickering. When the abnormality is removed, the LSL indicates normally.

2. Preprogrammed scheduled Auto Test

- Carry out first monthly Auto Test after Initial power on for 24 hours to 7 days, afterwards, carry out a monthly Auto Test every 30 days.

- Carry out an annual Auto Test every 52 weeks after first powered on.

- Auto Test timing

To reduce the conflict that Auto Test is executed when the lighting is in use, the preprogrammed scheduled Auto Test will be executed 2 hours later than the normal operation is disconnected (switched off). For applications where lightings remain illuminated, the module will postpone the scheduled test accordingly, but should not later than the preprogrammed scheduled latest test time.

- Monthly Auto Test

The Monthly Auto Test shall be executed every 30 days, and will test;

Normal to emergency transfer function, emergency, charging and discharging conditions are normal.

Monthly test time is approximately 30 seconds.

- Annual Auto Test

Annual Auto Test will occur every 52 weeks after the initial 24 hours full charge, and will test;

Proper initial battery voltage, 90-minute emergency operation and acceptable battery voltage at the end of the full 90-minute test.

If the Auto Test is interrupted by a power failure, a full 90-minute Auto Test will occur again 24 hours after the power is restored. If the power failure causes the battery to fully discharge, the product will restart the Initial Auto Test and Preprogrammed Scheduled Auto Test.

3. Manual Test

- Press LED test switch (LTS) one time, then go into emergency mode and back to normal mode rapidly .

- Press LTS 2 times continuously within 3 seconds, then go into monthly test. After finish, the next monthly test will count from this date.

- Press LTS 3 times continuously within 3 seconds, then go into annual test. After finish, the next annual test will count from this date.

- During the manual test, press LTS 3 times within 3 seconds, then the manual test can be terminated.

(The preprogrammed scheduled Auto Test time will not change)

4. LED Test Switch (LTS) indication

- LTS slow blinking: Normal charging

- LTS on: Battery fully charged – Normal condition

- LTS off: Power failure

- LTS gradual change: In testing mode

- LTS quick blinking: Abnormal condition – Corrective Action

➤ **Wind power system**



➤ **Ships**



➤ **Freezers**



➤ **Any other harsh indoor and outdoor locations**

