LED EMERGENCY SPOTLIGHT
LUXON / LUXON PRO

Features

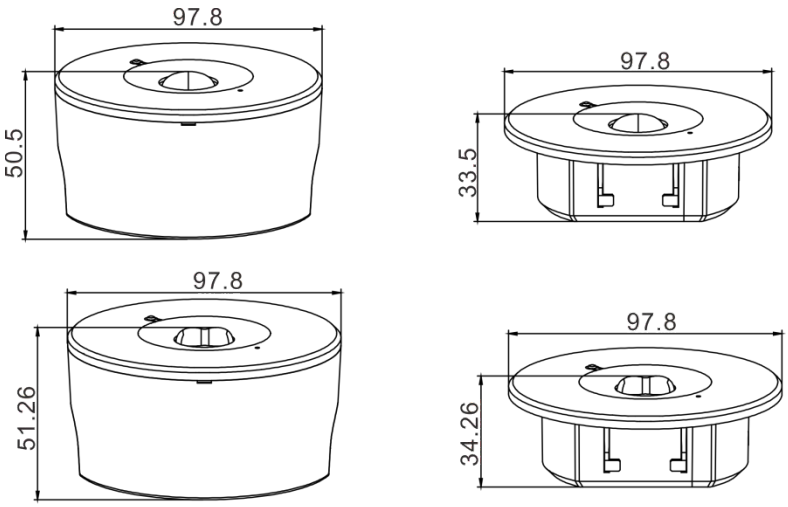
- LED emergency module suitable for direct installation in ceilings
- Complete set with integrated electronics, LED module, housing, and battery
- Polycarbonate white RAL 9016
- Very low stand-by power loss
- 5 years guarantee electronic

Functions

- Standard function and self-test function
- Self testing products can switch the self testing standard function through the dial switch
- Non-maintained mode

Dimensions

Unit: mm



Item Code	Carton size	QTY	Weight per pc.	Battery
LXN	525*310*335	75PCS	108.2g	18650 1cell
LXN-Surfacemounting			137.3g	

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Technical Data

Rated supply voltage	220-240VAC
AC voltage range	144-187VAC
Mains frequency	50/60Hz
Power factor	≥0.4
Starting time	0.5s
Ambient temperature ta	5-45℃
IP rating	IP20
In-rush current	1.5A
In-rush current duration	3.5ms
Mains surge capability (between L – N)	500V
CCT	6000-6500K

Item Code	Typical output emergency power	Mains input current, min	Mains input current, max	Input power in mains operation, min	Input power in mains operation, max
LXN	1W	7mA	20mA	0.5W	2W
	2W				

Item Code	LED module forward voltage range Min-Max	LED module forward current range Min-Max	LED module forward power range Min-Max	Fixture Luminous Flux	Self -test	Mode	Classification
LXN-NN1WOBS-3H-LI	2.7-3Vdc	300-375mA	0.8-1.1W	150lm±10%	○	Open	/
LXN-NN1WCBS-3H-LI				110lm±10%		Corridor	
LXNP-NN2WOBS-2H-LI				200lm±10%		Open	D40
LXNP-NN2WCBS-2H-LI				160lm±10%		Corridor	/
LXNP-NN2WOBS-3H-LI				200lm±10%		Open	D40
LXNP-NN2WCBS-3H-LI				160lm±10%		Corridor	/
LXN-NN1WOST-3H-LI				150lm±10%	●	Open	
LXN-NN1WCST-3H-LI				110lm±10%		Corridor	
LXNP-NN2WOST-2H-LI				200lm±10%		Open	D40
LXNP-NN2WCST-2H-LI				160lm±10%		Corridor	/
LXNP-NN2WOST-3H-LI				200lm±10%		Open	D40
LXNP-NN2WCST-3H-LI				160lm±10%		Corridor	/

Note:

1.All specifications are typical at 25°C unless otherwise stated.
2. All specifications are typical on the 230VAC unless otherwise stated.
3.○Means “No”. ●Means "Yes".

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Testing/Commissioning(self test)

Functionality of the test button
1) A short press (>1s) on the button start a function test lasting 5 seconds (The battery's capacity should be more than 5%=charging 30mins
2)Holding down the button(>10s) resets the timer(System-reset)

Function test
The 5 second long, each 7 days' function test serves to check the functionality of the emergency unit, the batteries and LED module.

Duration test(Europe)
-First test: After 24 hours of AC mains power input, the emergency lighting unit will enter into a 3-hour duration test.
-Half year duration test: Conduct 3-hour duration test every 180-182 days to check the battery capacity.

Duration test(Australia)
-First time test: After 16 hours of AC mains power input, the emergency lighting unit will enter into a 2-hour duration test.
-Half year duration test: The test will be carried out on each 180-182days to check the capacity of batteries. The 2-hour duration test will be carried out at the first time; 1.5-hour duration test will be carried out in the following duration tests.

Notice.
-A function test&duration test shall only be started when the battery supply is fully charge if a mains supply failure occurs while a function test& duration test is in progress, the test shall be postponed and the system shall enter emergency operation. Following restoration of the mains supply , a postponed duration test shall re-commence automatically when the battery supply is fully re-charge,function test bettery≥3V,duration test bettery ≥3.55V
-The indicator will be slow flashing Green within 5 days if the duration test be carried out successfully.

Indıcator LED System status is locally by a bi-color indicator LED

LED Indication	Status	Description
Permanent Green	Standby ,System OK	Mains Operation ,battery is charged
Fast flashing Green (0.25s on 0.25s off)	Function test underway	Function test underway
Slow flashing Green (1s on 1s off)	Duration test underway	Duration test underway
Permanent Red	Lamp failure	Open Circuit or Short circuit or LED failure
Fast flashing Red (0.25s on 0.25s off)	Battery capacity failure	Battery failed duration test
Slow flashing Red (1s on 1s off)	Battery fault	Incorrect battery voltage or Short circuit or Open Circuit
Green and Red off	Battery Operation	Emergency mode:Mains disconnected or Mains failure
Slow flashing Red (1s on 3s off)	Battery temperature error	When power on and battery temperature is above 55(+2)℃ or below 0(+2)℃

Notice
Fault status:
If an error is detected, the indicator LED switches to RED. If the error has been corrected please re-connecting the battery after the mains power off, the indicator LED immediately switches back to GREEN when mains power on.

Notice
Battery failed duration test:
After an exchange of the battery and holding down the button(>10S) reset the timer, the indicator LED switches to GREEN.

Notice
Before power on, self-test and standard function can be switched through dial switch. When it is detected that the battery capacity is insufficient, power off and unplug the battery and power on again, which can be reset. The BS and ST function can be switched through the dial switch only after the power is completely cut off. When switching from BS to ST or ST to BS, the program will refresh automatically.

Notice.

Instructions for entering the life inspection for the first time:
1.After the first power on, continuous charging for 24 hours will enter the first inspection. If additional operations are performed during the continuous charging process, it will cause a deviation in the time to enter the first inspection.

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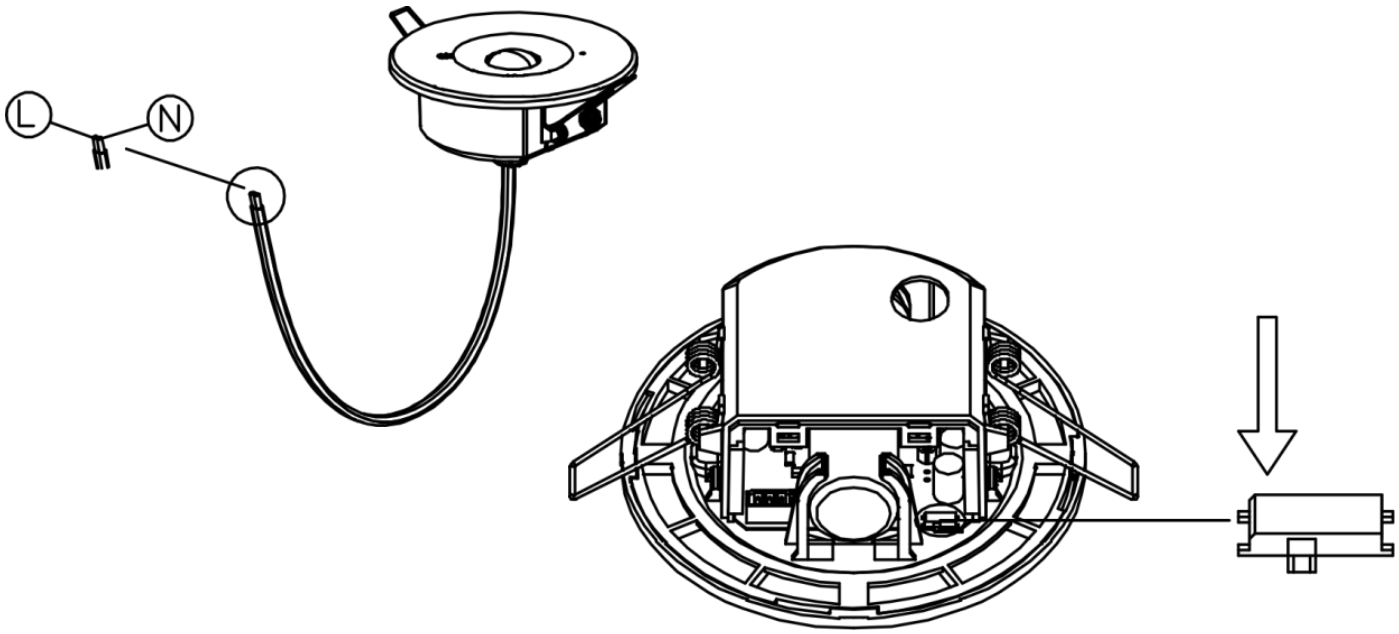

Function switching mode:

Step 1: Switch the product mode through the dial switch shown by the arrow.
Step 2: Turn to the left and switch the product mode to standard.
Step 3: Turn to the right and switch the product mode to self-test.

Note:

Please noted that only the self-test version product can switch functions by the dial switch, which is not available for the standard version.
Please noted that functions switching by dial switch would only be available when all the wiring is disconnected, including the AC input, DC output and the battery.

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Battery Data

Emergency power	Batteries	Emergency Duration	Battery discharge current Min-Typ-Max	Battery output power Min-Typ-Max	Battery output power Min-Typ-Max	Battery discharge voltage Min-Typ-Max	Charge Current	Battery fully charged time
1W	18650/3.2V/1500mAh LiFePO4	3h	350-375-400mA	1-1.1-1.2W	1-1.1-1.2W	2.7-3.2-3.65V	140mA± 10%	24h
2W	18650/3.2V/1500mAh LiFePO4	2h	450-500-530mA	1.2-1.4-1.6W	1.2-1.4-1.6W			
	18650/3.2V 2000mAh LiFePO4	3h						

Note.
Automatically charge when the voltage of a single battery drops below 3.4V. When the voltage of a single battery exceeds 3.65V, the charger turns off (0mA).
If the battery temperature is above 55 (± 2°C) or below 0 (+2°C), the battery will stop charging.
The emergency lighting LED driver will recharge the battery normally after running the test of 61347-2-7 CL22.3 (abnormal operating conditions).
When the voltage of a single battery is below min 2.6 V, the battery will not enter an emergency state.
The minimum charging environment temperature of the battery is 5°C , to ensure that the battery can be charged.

Capacity	1.5 Ah
International designation	IFpR 18/65
Battery voltage/cell	3.2V
Cell type	18650
Case temperature range to ensure	
4 years design life	+5°Cto+55°C
5 years design life	+5°Cto+45°C
6 years design life	+5°Cto+35°C
Max. short term battery case temperature (shorter than 1 month over the battery lifetime)	70°C
Max. number discharge cycles	50 cycles total
Max. storage time	6 months

Notice: Storage condition
Batteries should be stored within the specified temperature range in low humidity conditions.
Optimal storage conditions are
- Temperature:-20℃ to +40℃
- Humidity: 45%- 85%
Avoid atmosphere with corrosive gas
It is recommended to disconnect the battery before storage or delivery
Battery should be charged every three months in order to keep it's initial performance

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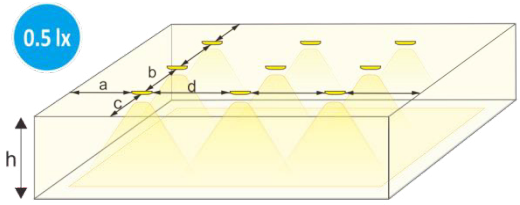
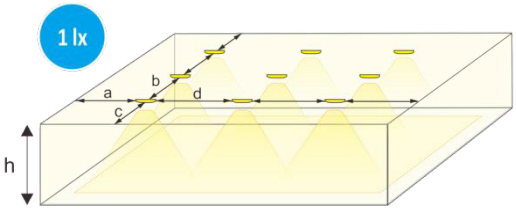
Photometric

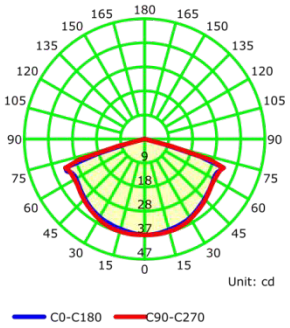


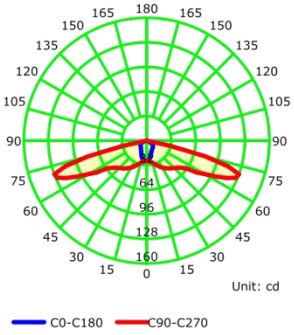


LXN-NN1W

Open Area | 150lm | 0.5/1lux — **Corridor | 110lm | 0.5/1lux**

Height(m)	(a)	(b)	(a)	(c)	(b)	(d)
2.5	4.8/3.5	12.8/9.6	7.9/6.3	2.8/2	7.5/5.7	18.3/15.7
2.8	4.8/3.5	13/9.7	8.3/6.2	2.9/1.9	7.8/5.7	19.6/16.5
3	4.9/3.5	13.2/9.8	8.5/6	2.8/1.8	7.9/5.6	20.3/17
4	4.9/3.2	13.8/9.9	8.8/4.3	2.6/1.4	8/5.2	23.5/17.7
6	4.4/0.7	14/8.8	5.9/0	1.8/0	7.1/3.7	24.6/14.9
8	2.4/0	13/5	/	/	5.5/0	17.5/0
10	/	10.6/0	/	/	2.5/0	12.9/0
12	/	3.7/0	/	/	/	/

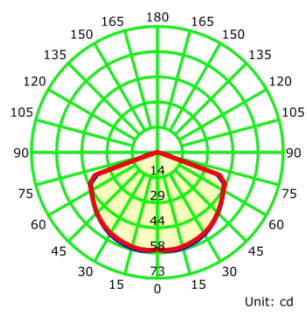


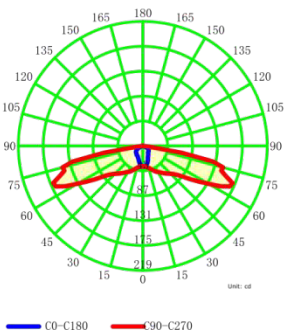


LXNP-NN2W

Open Area | 200lm | 0.5/1lux — **Corridor | 160lm | 0.5/1lux**

Height(m)	(a)	(b)	(a)	(c)	(b)	(d)
2.5	5.4/4.2	13.5/10.9	8.6/6.9	3.3/2.3	8.4/6.5	21.3/17.3
2.8	5.6/4.2	14.3/11.2	9/7.2	3.3/2.3	8.7/6.6	22.4/17.9
3	5.7/4.3	14.6/11.4	9.2/7.3	3.3/2.2	8.9/6.6	23.1/18.4
4	6/4.3	15.9/11.9	10.2/7.2	3.2/1.9	9.4/6.4	25.5/20.4
6	5.9/3.4	16.9/11.9	9.6/0	2.5/0	8.8/5	29.6/19.1
8	5.2/0	16.9/10.3	/	/	7.6/2.6	19.2/10.8
10	3/0	15.9/6	/	/	6.1/0	19.4/0
12	/	14.4/0	/	/	1.2/0	12/0
15	/	3.8/0	/	/	/	/





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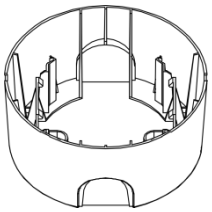
Standard

This product meets the following standards:

- EN IEC60598-1
- EN IEC60598-2-1
- EN IEC60598-2-22
- AS/NZS 60598-1
- EN IEC61347-1
- EN IEC61347-2-7
- EN 61000-3-2
- AS/NZS 60598-2-1
- EN 61000-3-3
- EN 61547
- EN 62034
- AS/NZS 60598-2-22
- EN 55015
- ROHS 2.0
- AS/NZS 61347-1
- AS/NZS 61347-2-7

Mounting Accessories

Item Code	Surface mounted accessories
Accessories' Images	

Service Life

Average life-time 50,000 hours under rated conditions with a failure rate of less than 10% for the emergency converter as rated power.
Average failure rate of 0.2% per 1000 operating hours.

Important

The electric source for safety service is not a user serviceable item and shall only be replaced by the manufacturer service agent or a similar qualified person.

The company accept no responsibility for incorrect installation, incorrect operation or improper maintenance.

After installation of the fitting, the battery must be charged for 16/24 hours for duration test.

Battery should be charged every three months in order to keep it's initial performance.

When the lamp reaches the rated life, the whole lamp needs to be replaced. The drawing in the fitting may vary to the actual product, connect as per label on fitting.

When fitting a flush fitting, refer to installation instruction, including any ceiling manufacturer's instructions.

The drawing in the fitting may vary to the actual product, connect as per label on fitting.

The recharging device will recharge the battery ESSS normally after removal the short circuit link and reconnecting the ESSS.

Double or recinforce insulation between supply and battery/ESS circuits and based on a working voltage of 250V;