Important safe guard measurements

Precautions:

1. Please comply with the laws and regulations of associated countries and regions when installing this luminaire.
2. Please turn off the power before installation or maintenance.
3. Proper grounding is required to ensure safety.
4. In order to prevent the risk of electric shock or fire, installation must be carried on professional operators with required electrical knowledge.
5. Please wear gloves before installing luminaires, avoiding injury.
6. Please contact with manufacturer/agent immediately if any damage happened during transportation.
7. Please carefully reading installation instruction and checking if no accessories is missing. Then following instruction steps to install the luminaire.
8. If smoke or spark are found during using, please immediately turn off the power and notify relevant personnel.
9. INGESTION HAZARD: If model contains a button cell or coin battery, please keep new and used batteries OUT OF REACH of CHILDREN. Death or serious injury can occur if ingested. Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

Model Description:

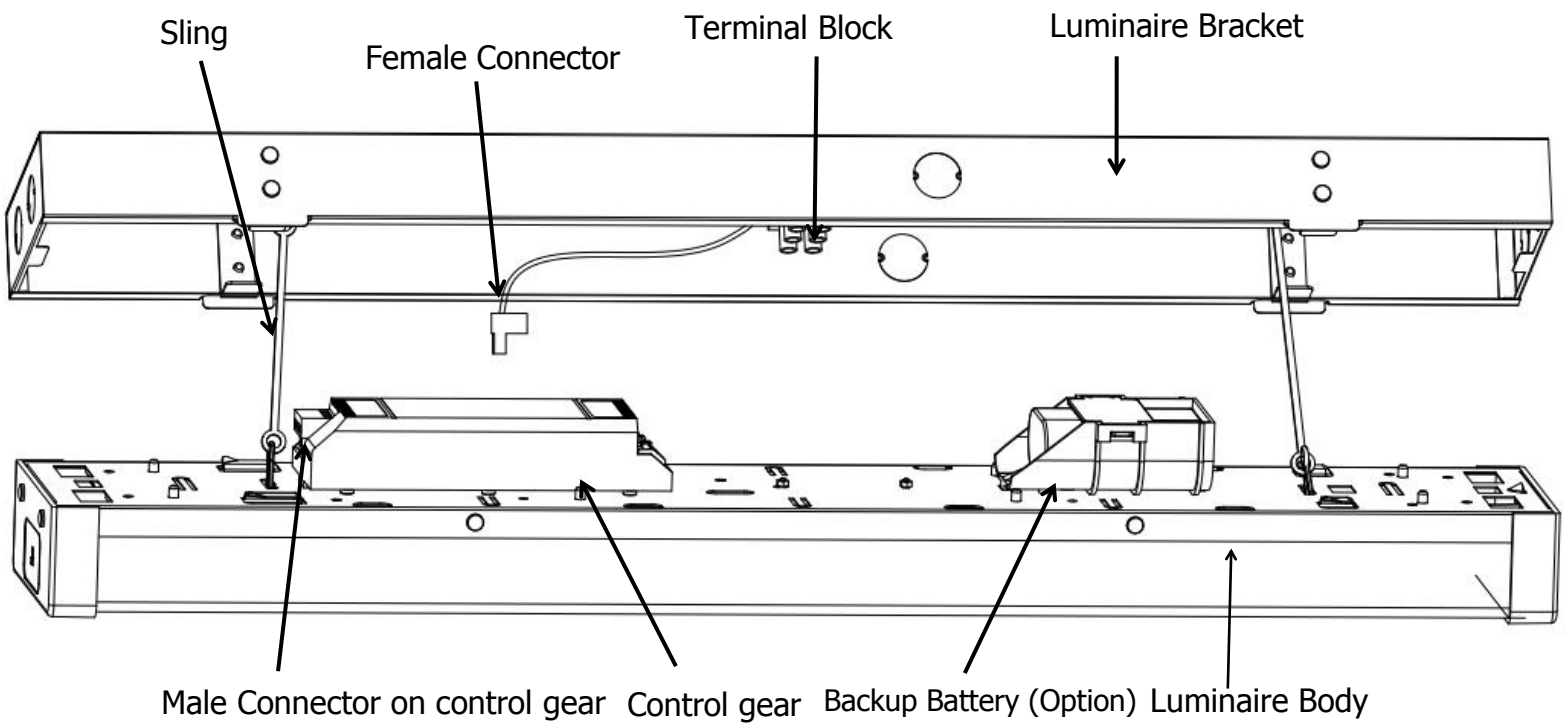
ZL-NSBLP36-4FT-CES-CCT-L

- ZL — Company Code
- NSBL — Series No.
- P36 — Power Watts Range
  - P44: 40-44W
  - P36: 36-40W
  - P18: 18-20W
- 4FT — Length
  - 2FT: 0.6m
  - 4FT: 1.2m
  - 5FT: 1.5m
- CES — Extra function
  - CN: Normal
  - CS: with sensor dimming function
  - CE: with emergency function
  - CES: with sensor dimming and emergency function
- CCT — CCT: with CCT changeable / None: without CCT changeable
- L — Extra function
  - L: with Photo sensor control
  - None: without Photo sensor control

Optional Functions (See Model Description)

1. Sensor dimming function
2. Color temperature changeable function
3. Emergency function
4. Light sensor control function

Only luminaires with "CS" or "CES" in the model number are equipped with sensor.
Only luminaires with "CE" or "CES" in the model number are equipped with Backup battery and Test panel.
Only luminaires with "CCT" in the model number are equipped with CCT DIP Switch.



Installation Accessories:



M4 Screws *6 wall plugs*6 hanging rope*2

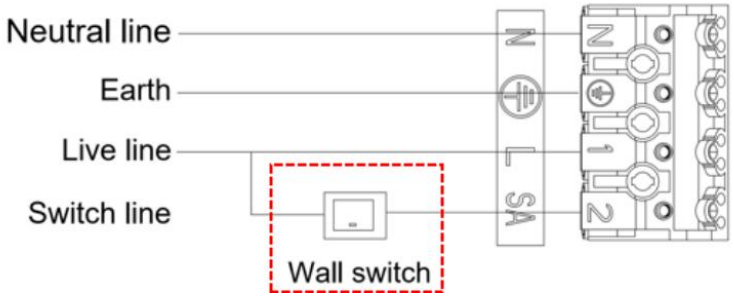
Additional purchase of accessories

Wiring instruction:

Live: L Neutral: N Switch Active: SA(for Emergency only) Earth: ⏚



Non-Emergency Luminaire wiring



Emergency Luminaire wiring ①
(Light will be control by external wall switch)

Installation accessories :



Short Wire



(Short-circuit *L and SA* with provided short wire)

Emergency Luminaire wiring ②
(Light will be 7 x 24h ON)

Installation instruction:

Two installation methods: Surface Mount and Suspend install.

(Please select the most suitable installation method according to your requirement).

1. Surface mount

Step 1: Rotate the iron plate (Figure 1) to the horizontal,check the OPEN--CLOSE mark on the side of the luminaire, then slide luminaire body along the OPEN arrow direction (→ OPEN) to move the position mark (▲) to the OPEN position which marked on the luminaire bracket, the luminaire bracket will separate from the luminaire (Figure 1).

Step 2: Drill Φ6mm holes on the ceiling in the corresponding positions according to different distance of luminaire bracket fix holes ,insert M6 wall plugs into the holes (Figure 2).

Step 3: Pull the power cable into the luminaire bracket from cable entry hole and secure the luminaire bracket to the ceiling with the provided M4 screws(Figure 3).

Step 4: Connect the power cable according to right wires sequence to terminal block on luminaire bracket.

Step 5: Secure the luminaire body to bracket with the slings which are reserved on the luminaire bracket and insert the female connector to male connector on control gear (Figure 5).

Step 6: Push the luminaire body upwards and align the position mark (▲) on the luminaire body with OPEN Position mark (▼OPEN Position) on the luminaire bracket, meanwhile slide luminaire body along the CLOSE arrow direction (CLOSE←) to move the position mark (▲) to CLOSE Position mark (▼ CLOSE Position) on the luminaire bracket, rotate the iron plate to the vertical and tighten screw, the luminaire body will be locked with the luminaire bracket (Figure 6).

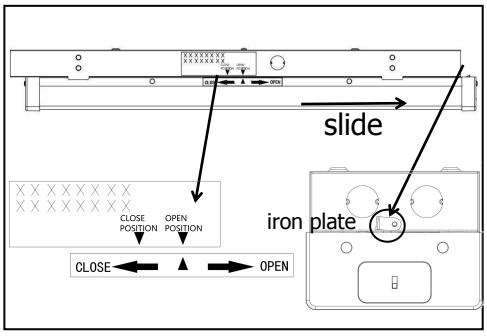


Figure 2

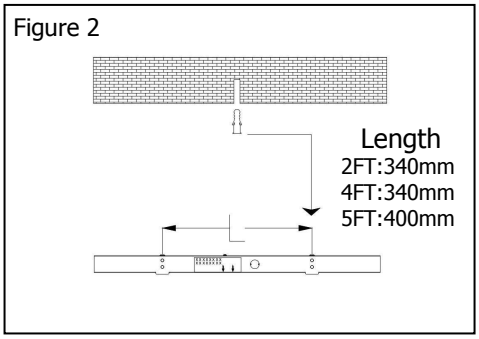


Figure 3

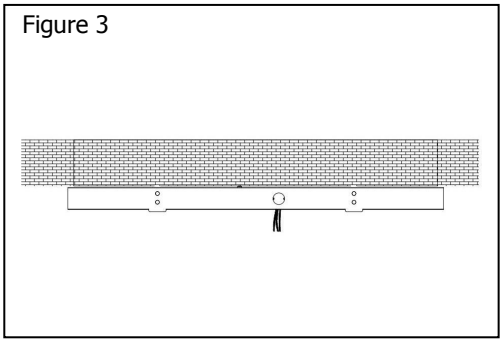


Figure 4

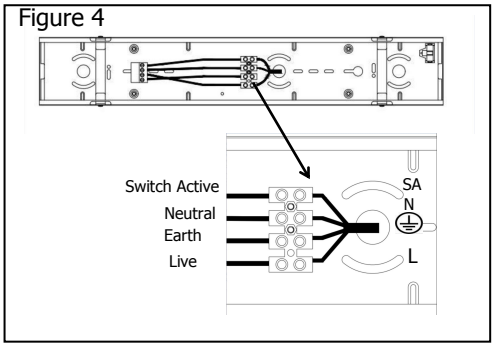


Figure 5

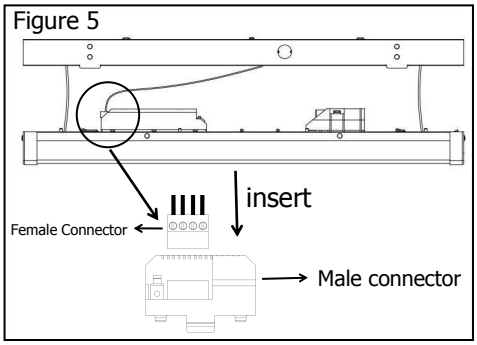
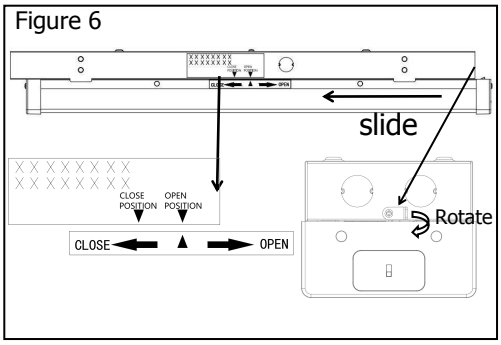


Figure 6



2. Suspend install (Additional purchase of accessories)

Step 1: Separate the luminaire bracket from the luminaire body, refer to the 1 step of Surface Mount.

Step 2: Drill Φ6mm holes on the ceiling in the corresponding positions according to disc holes position of hanging rope, insert M6 wall plugs into the holes, then fix hanging rope disc to ceiling with the provided M4 screws (Figure7).

Step 3: Suspend the luminaire bracket with hookers on the hanging ropes and pull the power cable into the luminaire bracket from cable entry hole (Figure 8).

Step 4: Refer to the 4，5，6 steps of Surface Mount.

Figure 7

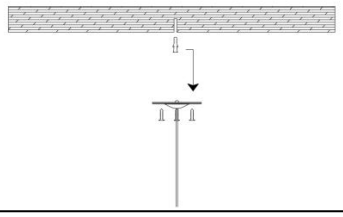
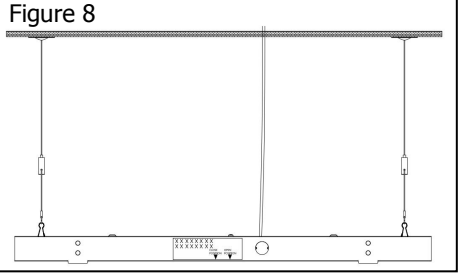


Figure 8



Color Temperature Change Instruction(For Partial Models Only, See Model Description):

The DIP switch with three positions on the luminaire body can adjust CCT of the luminaire in three choices. (Figure 9)

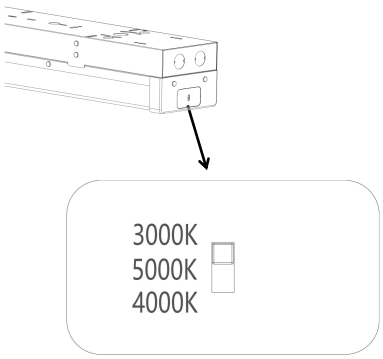


Figure 9

Driver setting

Dip switch on control gear allows luminaire working under Half Power Mode(Figure 10).

DIP switch at On position: half power Mode.

DIP switch at Off position: full power Mode.

Default: Off position

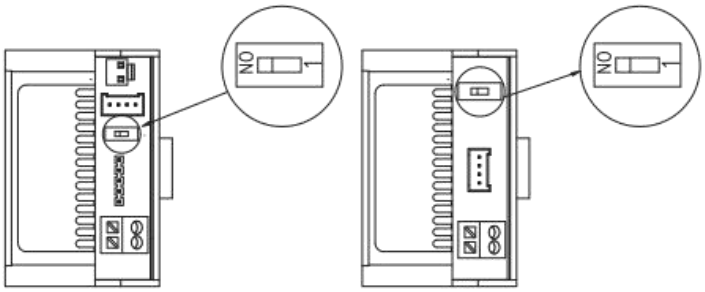
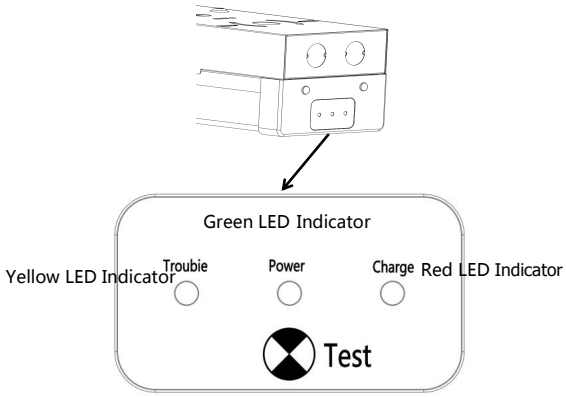


Figure 10

Emergency instruction(Figure 11)

(For Partial Models Only, See Model Description):



TEST button

Figure 11

1, Green LED Indicator
LED On: Main supply on
LED Off: Main supply off

2, Red LED Indicator
LED On: Battery is in charging
LED Off: Battery was full charged or Main supply off or battery disconnected.

3, Yellow LED Indicator(fault indication)
LED continuously on: indicates work normal.
LED slow flash: indicates self-test carried out recently within 6 days and passed.
LED fast flash: indicates latest self-test carried out recently and failed.
LED off: Main supply off.

1) Slow flash(4 seconds ON, 1 second OFF) indicates self-test carried out within 6 days and self-test passed.This state will keep 6days after last self-test finished. Then change to continuous on.
2) Fast flash(0.5 second ON, 0.5 second OFF) indicates latest self-test failed. This state will keep until next self-test passed.

4, Simulated emergency testing function:
Press the test button and hold on more than 1.5 seconds, the luminaire will simulate main supply failed and enter into emergency mode. Release test button, the luminaire will back to previous status.

5, Force self-test:
Press the test button and hold on more than 10 seconds, the luminaire will work under self-test mode. Release test button, the luminaire will back to previous status until self-test finished. Force self-test result will be indicated by Yellow LED indicator.

6, Reset to pre-settings:
(**operation with caution for non-specialists,default parameters was set by Parameters ①**)
Press the test button 3 times within 3 seconds, three indicators will flash 3 time synchronously and the luminaire enter into default setting mode. Green and Red indicators will flash synchronously.

Flash Pattern as below. Each flash pattern will keep 3 times, if no test button pressed then back to normal mode. If press test button one short time during any flash pattern, it will change to another next flash pattern. Different flash pattern shows different parameters was set.

Flash once(2 seconds ON, 1second OFF):

Parameters ①be reset to: a) disable self-test; b) Time standard 90 minutes; c) Yellow LED indicator continuously on.

Flash twice(2 seconds ON,1 second OFF):

Parameters ② be reset to: a) every 6 months do self-test once; b) Time standard 90 minutes; c) Yellow LED indicator continuously on.

7, Switch off luminaire when under emergency mode:

Within 30minutes after main power failed, press the test button 3 times in 3 seconds, the luminaire will switch off.

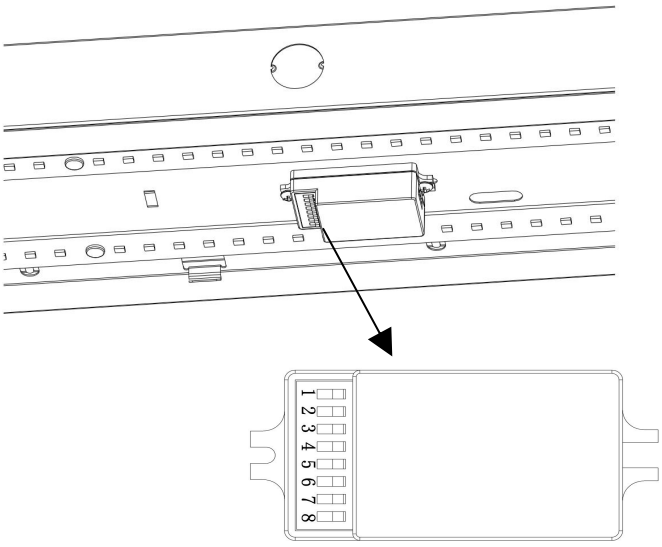


Figure 12

Sensor Setting(For Partial Models Only, See Model Description) **(Figure 12)**

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

Detection Area			
	1	2	
Ⅰ	ON	ON	100%
Ⅱ	OFF	ON	75%
Ⅲ	ON	OFF	50%
Ⅳ	OFF	OFF	20%

Detection area(Sensitive)
Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.
Default value(100%, 8-12m)

Hold Time			
	3	4	
Ⅰ	ON	ON	5S
Ⅱ	OFF	ON	30S
Ⅲ	ON	OFF	3min
Ⅳ	OFF	OFF	10min

Hold time(Delay time)
Refers to the time period the luminaire remain sat 100% illumination after no motion detected.
Default value(10min)

Twilight Ratio			
	5	6	
Ⅰ	ON	ON	20%
Ⅱ	OFF	ON	40%
Ⅲ	ON	OFF	60%
Ⅳ	OFF	OFF	100%

Twilight Ratio
Refers to the twilight illumination value after no motion detected.
Default value (20%)

Twilight Time			
	7	8	
Ⅰ	ON	ON	0S
Ⅱ	OFF	ON	90S
Ⅲ	ON	OFF	3min
Ⅳ	OFF	OFF	+∞

Twilight Time(Hold time)
This setting is for 2-step dimming sensor
100%-->twilight(default value 20%)--> Switch off 0%.
Refers to the time period the luminaire remains at twilight illumination after no motion detected.
Default value(+∞, always keep twilight)