

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.
10. Emergency luminaire should be installed and powered within a reasonable time frame after purchased(within 6 months) as longtime storage without recharging may shorten inside backup battery lifespan, even damage battery.
11. Leaving emergency luminaire backup battery in fully discharged state for long time will damage battery.

Optional Functions (See Model Description)

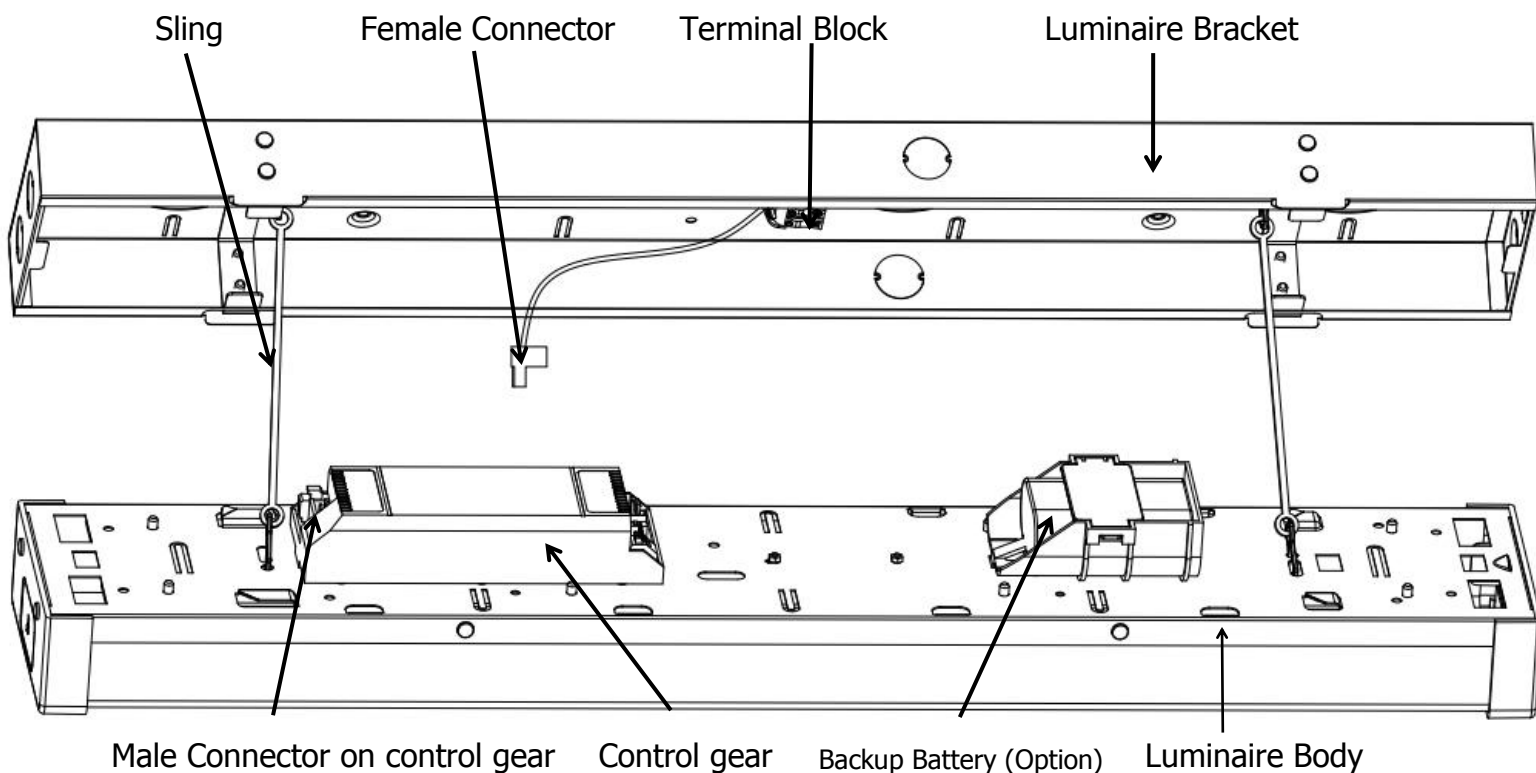
1. Sensor dimming function
2. Color temperature changeable function
3. Emergency function
4. Photo-sensor control function
5. 0-10V dimming function

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.

Only luminaires with "CE" or "CN" in the model number are equipped with 0-10V dimming function.



Installation accessories:

M4 flat Screws*2



M4 Screws *6



wall plugs*6



hanging rope*2



Remote controller *1(Optional)

Additional purchase of accessories

Wiring instruction:

Live: L

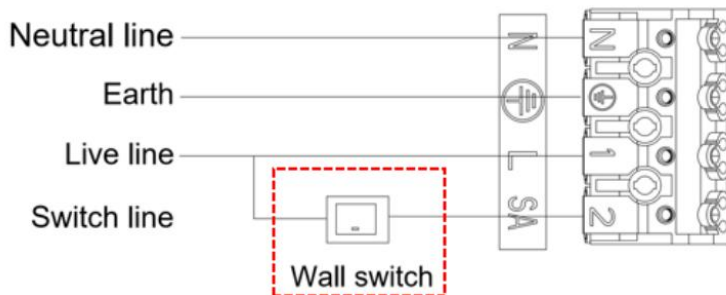
Neutral: N

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) at one end of luminaire bracket to the horizontal, check the OPEN-CLOSE mark on the side of the luminaire after taking out, 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 body (Figure 1).

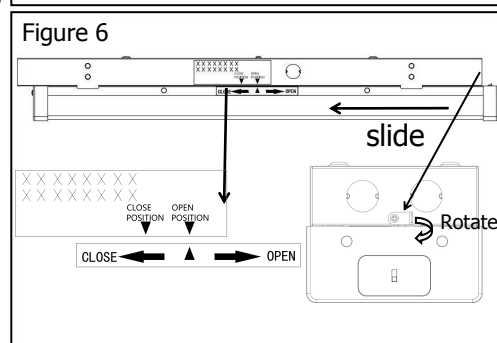
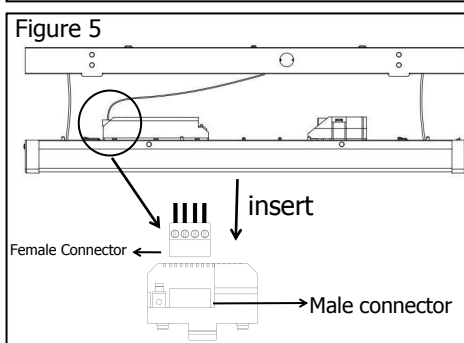
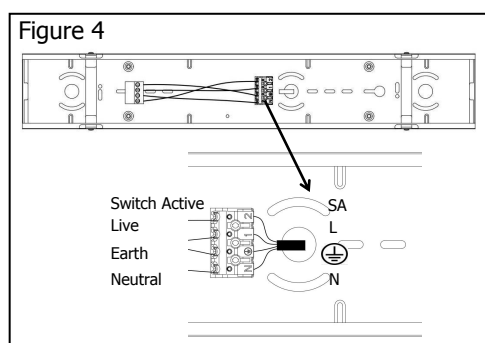
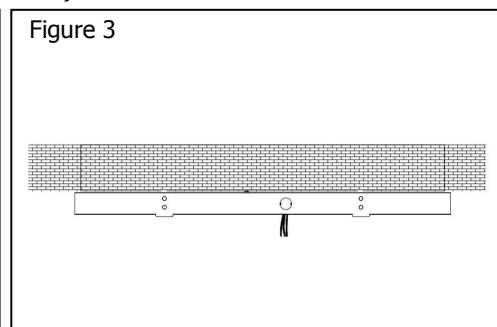
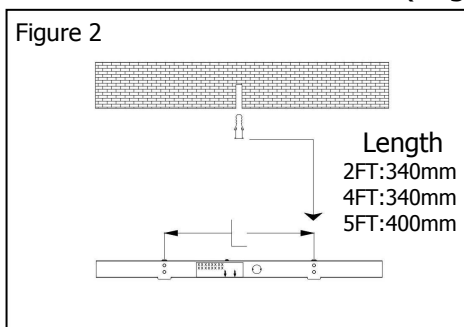
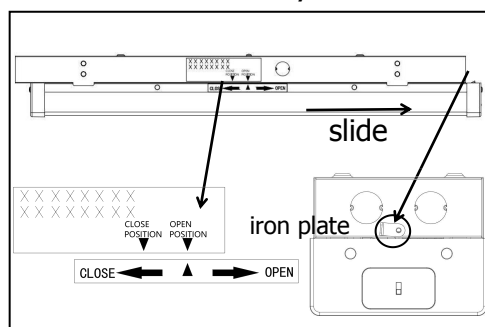
Step 2: Drill $\Phi 6\text{mm}$ holes on the ceiling in the corresponding positions according to different distance of luminaire bracket fix holes, insert M6 wall plugs into the holes (Figure 2).

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 luminaire 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).



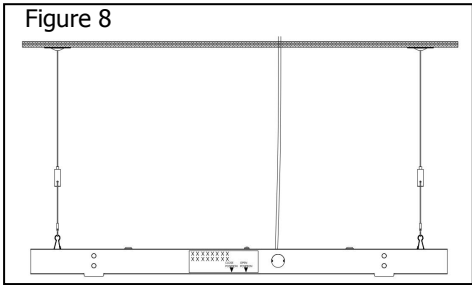
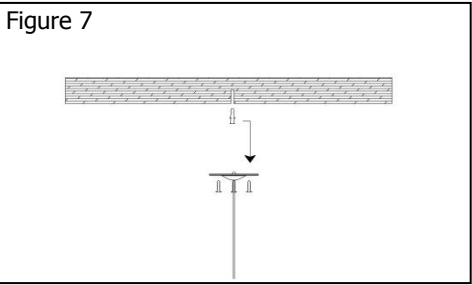
2. Suspension mount (Additional purchase of accessories)

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

Step 2: Drill $\Phi 6\text{mm}$ 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 (Figure 7).

Step 3: Suspend the luminaire bracket with hooks 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.



Color Temperature Change Instruction:

(For Partial Models Only, See Model Description)

The DIP switch with three positions on the control gear or luminaire body can adjust CCT of the luminaire in three choices. (Figure 9、10)

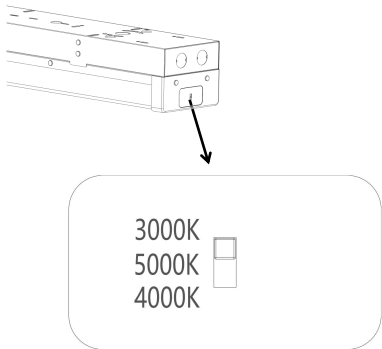


Figure 9

The DIP switch with three positions on the luminaire body

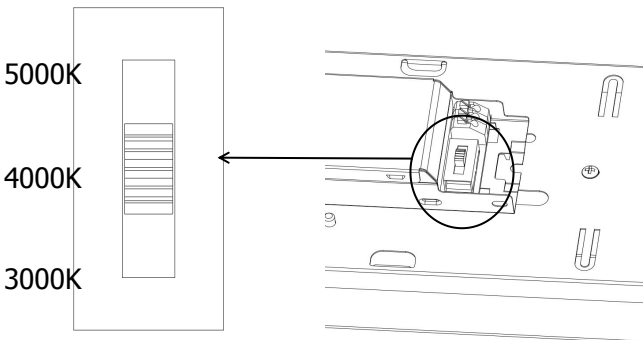


Figure 10

The DIP switch with three positions on the control gear

0-10V Dimming Instruction(Figure11):

(For Partial Models Only, See Model Description)

The luminaire compatible with most external 0-10V wall dimmer.

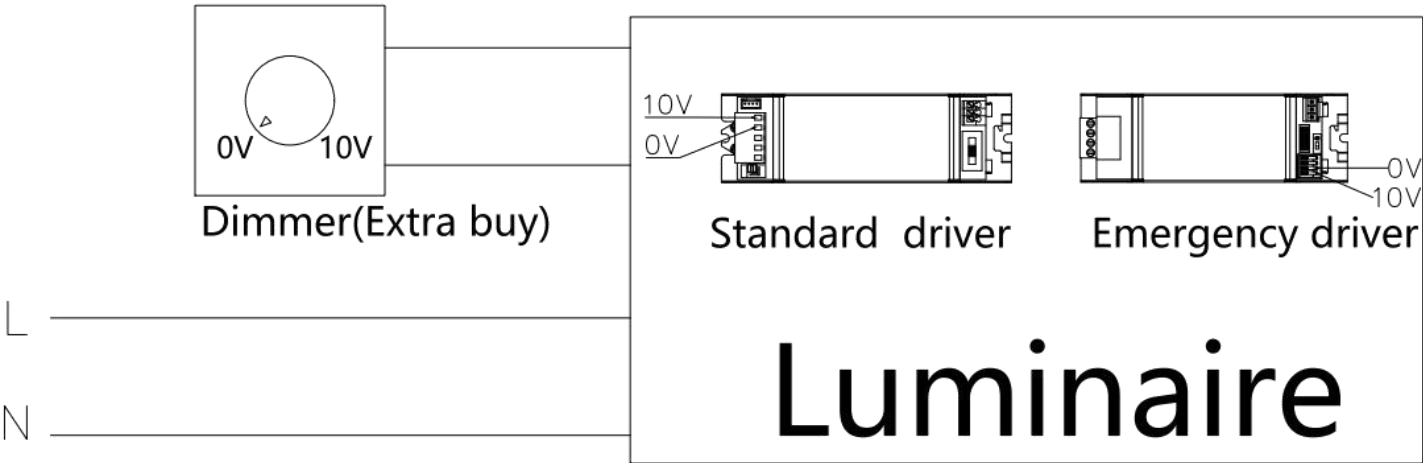


Figure 11

Driver setting

(For Partial Models Only, See Model Description)

DIP switch on control gear allows luminaire working under Half Power Mode (Figure 12).

DIP switch On: Half power Mode.

DIP switch Off: Full power Mode.

Default: Off.

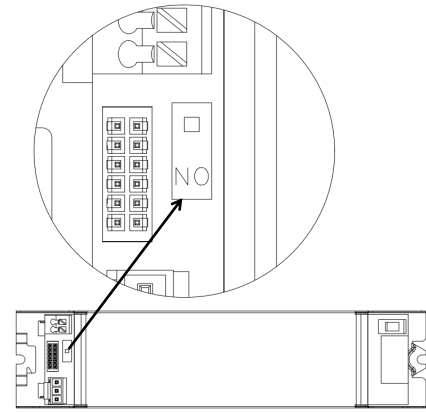


Figure 12

Emergency instruction(Figure 13)

(For Partial Models Only, See Model Description)

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 6days and passed.

LED fast flash: indicates latest self-test carried out recently and failed.

LED off : Main supply off.

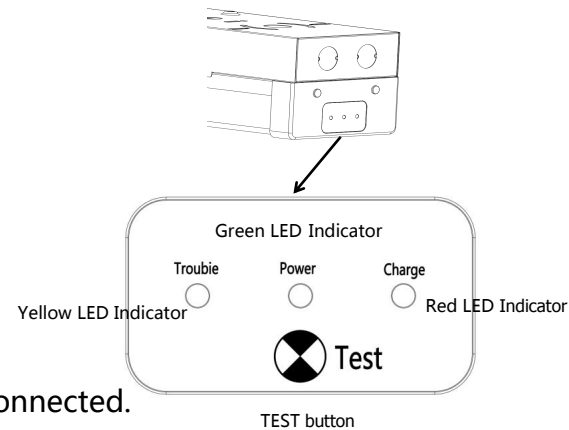


Figure 13

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 6 days 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 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.

Sensor dimming parameters setting:

(For Partial Models Only, See Model Description)
By pressing different buttons on the remote controller as bellow, sensor dimming parameters can be precisely set by users for each specific application.(Figure14)

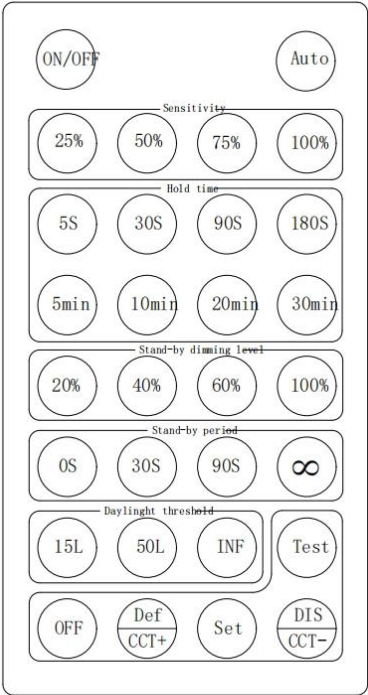


Figure14

Note: Parameter was successfully set if observing the luminaire flashing once after corresponding button on remote controller be pressed.

Remote controller size: 84.5*51.5*7.5mm
Powered with CR2025/3V Battery

Instruction of Remote controller

Remote control zone	Instruction
	Turn on/off luminaire function(constant on or off mode)
	Automatic Setting(press this button to set default parameters to sensor) (Default Parameters: Sensitivity of the sensor is 100%; Hold time is 180 seconds; Twilight brightness percentage is 20%; twilight Stand-by time is infinity; Photo sensor control function is infinity.)
Detection sensitivity setting zone	Detection sensitivity setting For setting the sensitivity of sensor detection, the lower of the sensitivity set, the short distance of sensor can detect.
	Set the sensitivity of the sensor to 25%, detection area around 0.5m-1m from luminaire.
	Set the sensitivity of the sensor to 50%, detection area around 1m-2m from luminaire.
	Set the sensitivity of the sensor to 75%, detection area around 3m-4m from luminaire.
	Set the sensitivity of the sensor to 100%, detection area around 4m-6m from luminaire.
Hold time setting zone	Hold time setting The time of luminaire remain 100% brightness when moving objects leave.
	Set the hold time to 5 seconds, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 30 seconds, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 90 seconds, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 180 seconds, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 5mins, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 10mins, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 20mins, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
	Set the hold time to 30mins, if no movement detected during this time, the luminaire will switch to the twilight or switch off(depend on Stand-by period setting).
Twilight brightness level setting zone	Twilight brightness percentage setting Set percentage of full brightness when luminaire dimming to twilight.
	Set the twilight brightness percentage to 20% of full brightness when dim to twilight.
	Set the twilight brightness percentage to 40% of full brightness when dim to twilight.
	Set the twilight brightness percentage to 60% of full brightness when dim to twilight.
	Set the twilight brightness percentage to 100% of full brightness when dim to twilight.

Twilight Stand-by time setting zone	Twilight Stand-by time setting The time of luminaire remain twilight before switch off.
0S	Set twilight stand-by time to 0 seconds, it means the luminaire will directly switch off without entering into twilight step.
30S	Set twilight stand-by time to 30 seconds, the luminaire will switch off from twilight if no movement detected during this time.
90S	Set twilight stand-by time to 90 seconds, the luminaire will switch off from twilight if no movement detected during this time.
∞	Set twilight stand-by time to infinity, it means the luminaire will always keep twilight if no movement detected.
Photo-sensor threshold setting zone	Photo sensor threshold value setting The value of Photo-sensor detecting ambient lumen when the luminaire is off. (Note: Photo sensor function just valid when luminaire is OFF.)
15L	Set 15lux as threshold value of ambient illuminance, the luminaire will switch off when actual ambient illuminance is above 15lux even if the movement was detected.
50L	Set 50lux as threshold value of ambient illuminance, the luminaire will switch off when actual ambient illuminance is above 50lux even if the movement was detected.
INF	Set infinity lux as threshold value of ambient illuminance. It means disable the Photo-sensing function.
TEST OFF DEF CCT+ SET DIS CCT-	For different models products, not used in this luminaire.
Note:	Only models with corresponding functions can be set by the corresponding setting buttons.

Example applications setting:

Luminaire brightness Mode	Setting Operation
Luminaire brightness Always 100% ON mode	Press Detection sensitivity setting zone: 100% --->press Hold time setting zone: 30S --->press Twilight brightness level setting zone: 100% ---> press Twilight Stand-by time setting zone: ∞ Luminaire will always keep 100% brightness whatever movement detected or not. (disable sensor dimming)
Luminaire brightness at 100%--twilight mode	Press Detection sensitivity setting zone: 100% --->press Hold time setting zone: 30S --->press Twilight brightness level setting zone: 20% ---> press Twilight Stand-by time setting zone: ∞ Luminaire will always keep 20% brightness after 5 seconds if no movement detected.
Luminaire brightness at ON--OFF mode	Press Detection sensitivity setting zone: 100% --->press Hold time setting zone: 30S --->press Twilight brightness level setting zone: 20% ---> press Twilight Stand-by time setting zone: 0S Luminaire will always keep OFF after 5 seconds if no movement detected.
Luminaire brightness at 100%--twilight--OFF mode	Press Detection sensitivity setting zone: 100% --->press Hold time setting zone: 30S --->press Twilight brightness level setting zone: 20% ---> press Twilight Stand-by time setting zone: 30S The luminaire will switch to 20% brightness after 5 seconds when no movement detected, then luminaire will switch OFF after 30 seconds if still no movement detected at 20% brightness state. If any movement was detected, luminaire will switch to 100% brightness.