Owner Manual

Important safeguard measurements

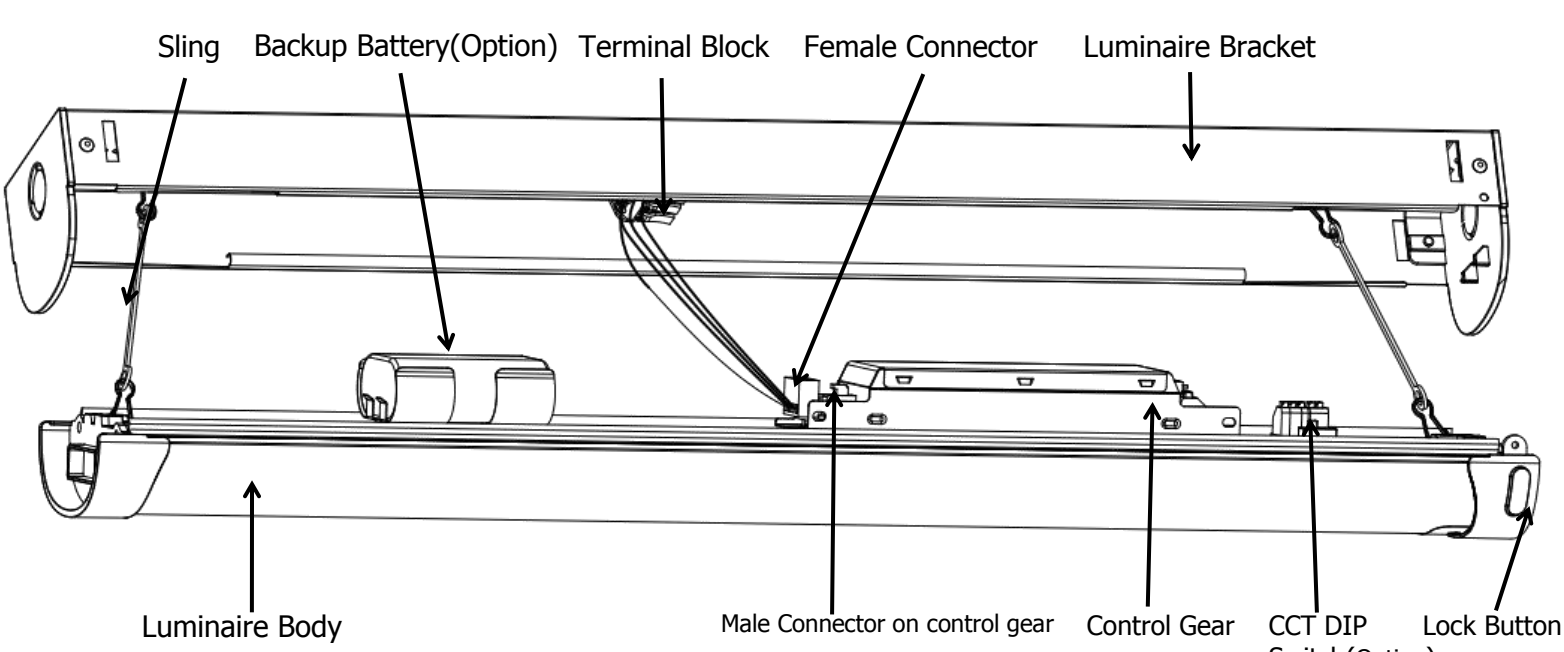
Precautions :

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.

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.



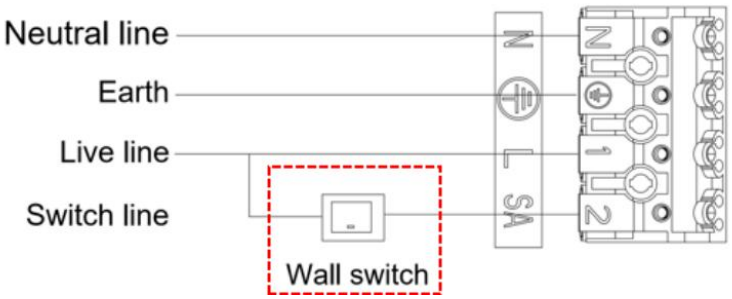
Installation accessories : M4 flat Screws*2 M4 Screws*6 M6 Wall Plugs*6 Remote controller *1(Option) Hanging Rope*2 Cover for 4" Junction box *2(for US market only)

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)

Installing instruction :

Three installation methods: Surface Mount, Junction box Mount and Suspend Instalation.

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

1.Surface Mount :

Step 1: Take out the luminaire,press and hold the lock button,pull the luminaire body down,the luminaire body will separate from the luminaire bracket,disconnect female connector from male connector on control gear,then take off the luminaire body(Figure 1).

Step 2: Drill holes on the ceiling in the corresponding positions according to fix distance of luminaire bracket,insert M6 wall plugs into the holes,pull the power cable into the luminaire bracket from cable entry hole in the middle,secure the luminaire bracket onto the ceiling with provided M4 screws (Figure 2).

Step 3: Connect the power cable to terminal block on luminaire bracket according to right wires sequence(Figure 3)

Step 4: Suspend the luminaire body with the slings which prefixed,insert female connector into male connector on control gear(Figure 4).

Step 5: Insert the end of luminaire body without button diagonally into the luminaire bracket,and then push and press the luminaire body upwards to lock the luminaire body with the luminaire bracket,secure them with provided M3 screw(Figure 5).

Figure1

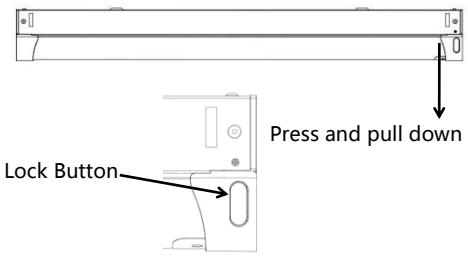


Figure2

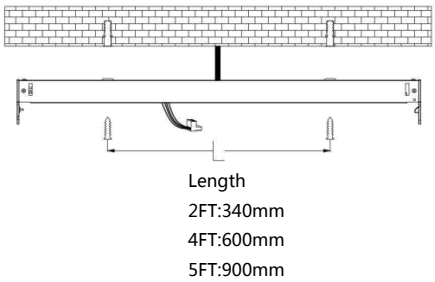


Figure3

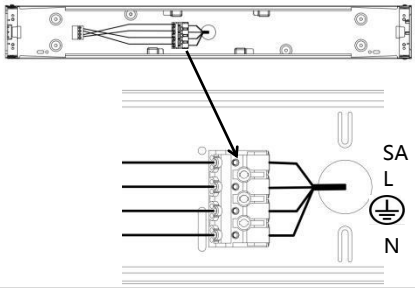


Figure4

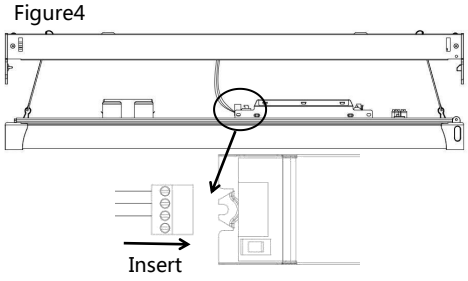
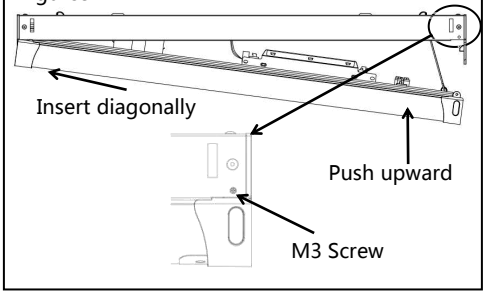


Figure5



2. Junction box Mount(For US market only) :

Step 1 : Slide the junction box covers into the luminaire bracket (Figure 6).

Step 2: Fix M4 screws onto the 4" junction box .(Figure 7)

Step 3: Pull the power cable into the luminaire bracket from cable entry hole in the middle,fix junction box cover with keyholes onto junction box , then rotate the luminaire bracket and tighten M4 screws(Figure 8) .

Step 4: Refer to the 3,4,5 steps of Surface Mount.

Figure6

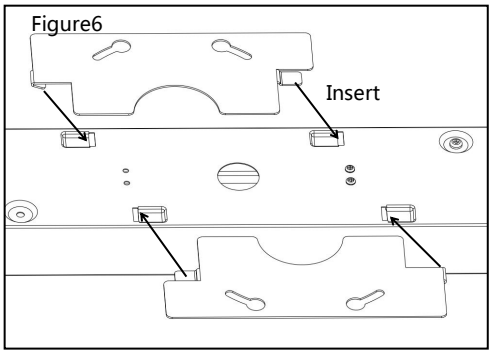


Figure7

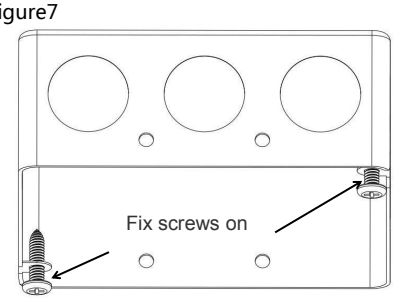
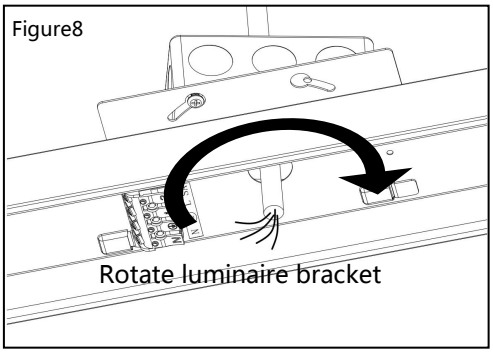


Figure8



3. Suspend Mount :

Step 1:Separate the luminaire body from the luminaire bracket,refer to the step 1 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(Figure9).

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(Figure10).

Step 4:Refer to the 3,4,5 steps of Surface Mount.

Figure9

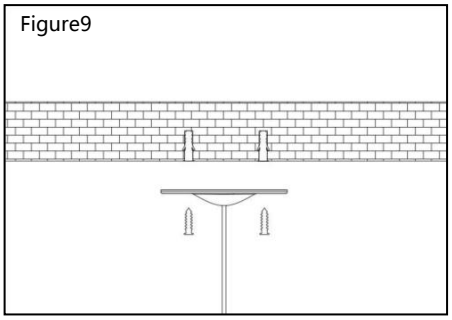
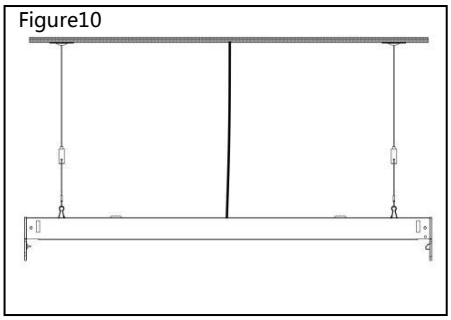
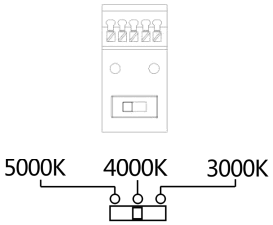


Figure10



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

Separate the luminaire body from the luminaire bracket, refer to the step 1 of Surface Mount.The CCT DIP switch with three positions on the luminaire body(near control gear) can adjust CCT of the luminaire in three choices. (Figure 11)



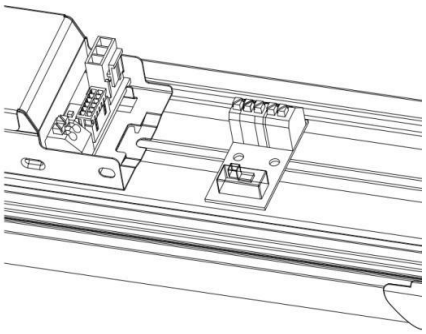


Figure11

Control gear setting :

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.

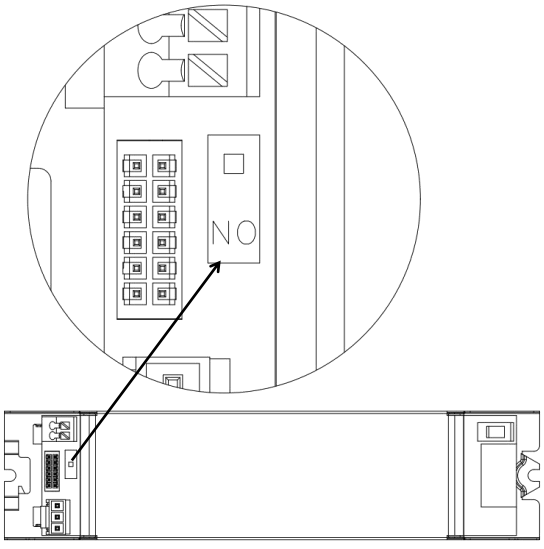


Figure 12

Emergency instruction (Figure 13)

(For Partial Models Only , See Model Description)**:**

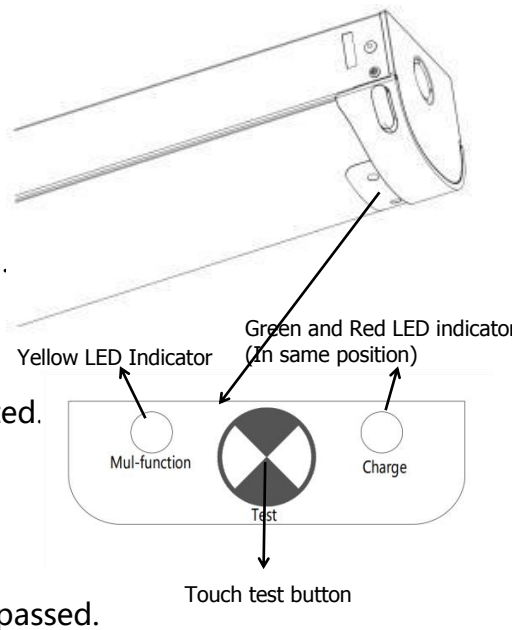


Figure13

1, Green LED Indicator

LED On: Main supply on and battery was full charged.

LED Off: Main supply off or battery is in charging or battery disconnected.

2, Red LED Indicator

LED On: Main supply on and 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.

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 touch 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 touch 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 touch test button 3 times within 3 seconds, all three LED indicators will flash 3 time synchronously and the luminaire enter into default pre-settings mode.Yellow and Red LED indicators will flash synchronously.

Flash Pattern as below.Each flash pattern will keep 3 times,if no touch test button pressed then back to normal mode. If press touch 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, 1 seconds OFF) :

Parameters ①be reset to: a) Disable self-test ; b)Discharge time standard 90 minutes;
c)Yellow LED Indicator continuously on.

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

Parameters ②be reset to : a) Every 6 months do self-test once; b) Discharge time standard 90 minutes;
c) Yellow LED Indicator Continuously On.

Flash three times (2 seconds ON, 1 seconds OFF):

Parameters ③be reset to : a) Every 1 month do self-test once; b) Discharge time standard 3 minutes;
c) Yellow LED Indicator Continuously On.

7, Switch off luminaire when under emergency mode:

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

8, Other test button functions for factory use only.

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)

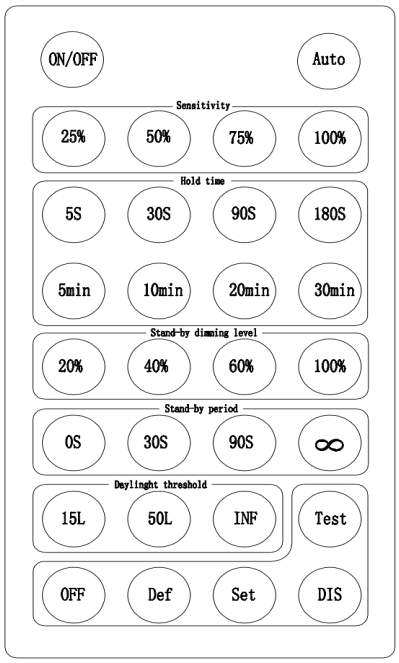


Figure14

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
ON/OFF	Turn on/off luminaire function(constant on or off mode)
Auto	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;Light sensor threshold 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.
25%	Set the sensitivity of the sensor to 25%,detection area around 0.5m-1m from luminaire.
50%	Set the sensitivity of the sensor to 50%,detection area around 1m-2m from luminaire.
75%	Set the sensitivity of the sensor to 75%,detection area around 3m-4m from luminaire.
100%	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.
5S	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).
30S	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).
90S	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).
180S	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).
5min	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).
10min	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).
20min	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).
30min	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.
20%	Set the twilight brightness percentage to 20% of full brightness when dim to twilight.
40%	Set the twilight brightness percentage to 40% of full brightness when dim to twilight.
60%	Set the twilight brightness percentage to 60% of full brightness when dim to twilight.
100%	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.
Light sensor threshold setting zone	Light sensor threshold value setting The value of light sensor detecting ambient lumen when the 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.I means disable the light sensing function.
TEST OFF DEF SET DIS	For different models products,not used in this luminaire.
Note:	Only models with corresponding functions can be set by the corresponding setting buttons.