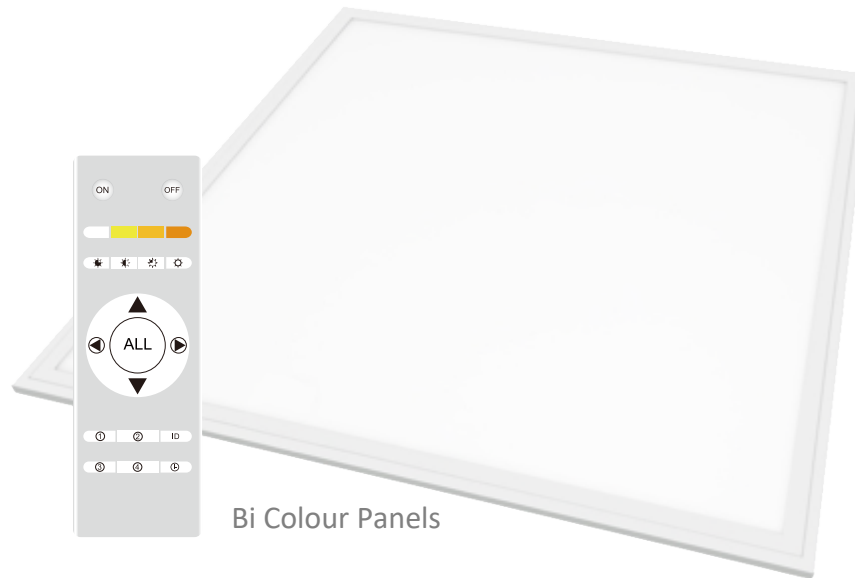




**NORTHERN  
LIGHTING**

# Northern Lighting

Commercial and Industrial LED lighting applications

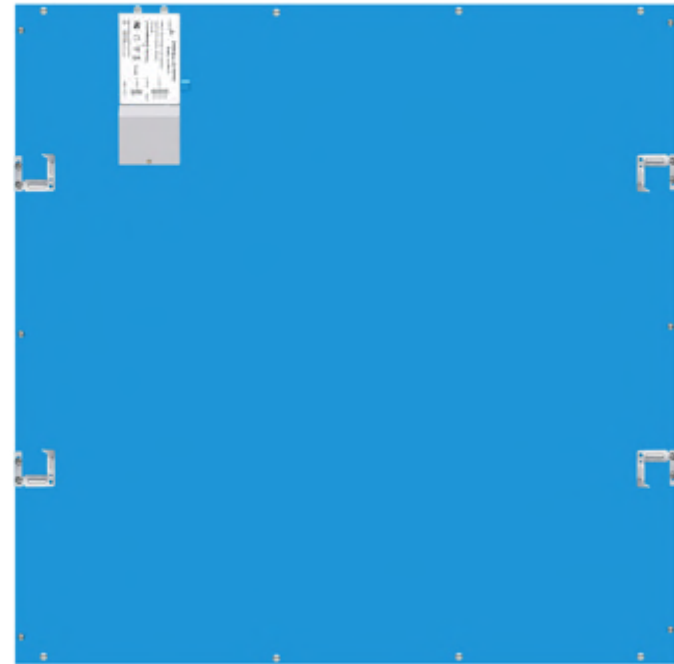


Northern Lighting +1 800 8941 LED (533) [info@northernled.ca](mailto:info@northernled.ca) [www.northernled.ca](http://www.northernled.ca)

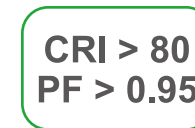
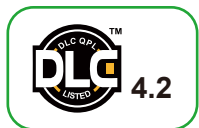
11191 Horseshoe Way Unit 13 Richmond BC V7A 4S5

# BI COLOUR LED PANEL

Change the lighting colour according to your mood!  
CCT ,Brightness Adjustable LED Panel Lights



**Applications:** Offices / Classrooms / Malls / Hotel / Lobbies / Back of house / Restaurants / Bus Stations / Medical Facility



# SPECIFICATION

## Technical Specification

### Features & Benefits:

- 0-10V dimmable and 2.4G Wireless & CCT dimmable LED Flat Panel
- CCT adjustable from 3000K-3500K-4000K-5000K
- No need for any wire connections
- UL/cUL DLC 4.2 with isolated external power supply
- LED Source: SMD2835 0.5W, CRI>80, LM80 report
- PMMA LGP, imported from Taiwan, Anti-Yellow
- 5 years warranty

Input Voltage: AC100V~277V 50Hz~60Hz

THD: ≤ 15 %

PF: >0.95 Non-flicker

Power Efficiency: >90 %

Beam Angle: 120°

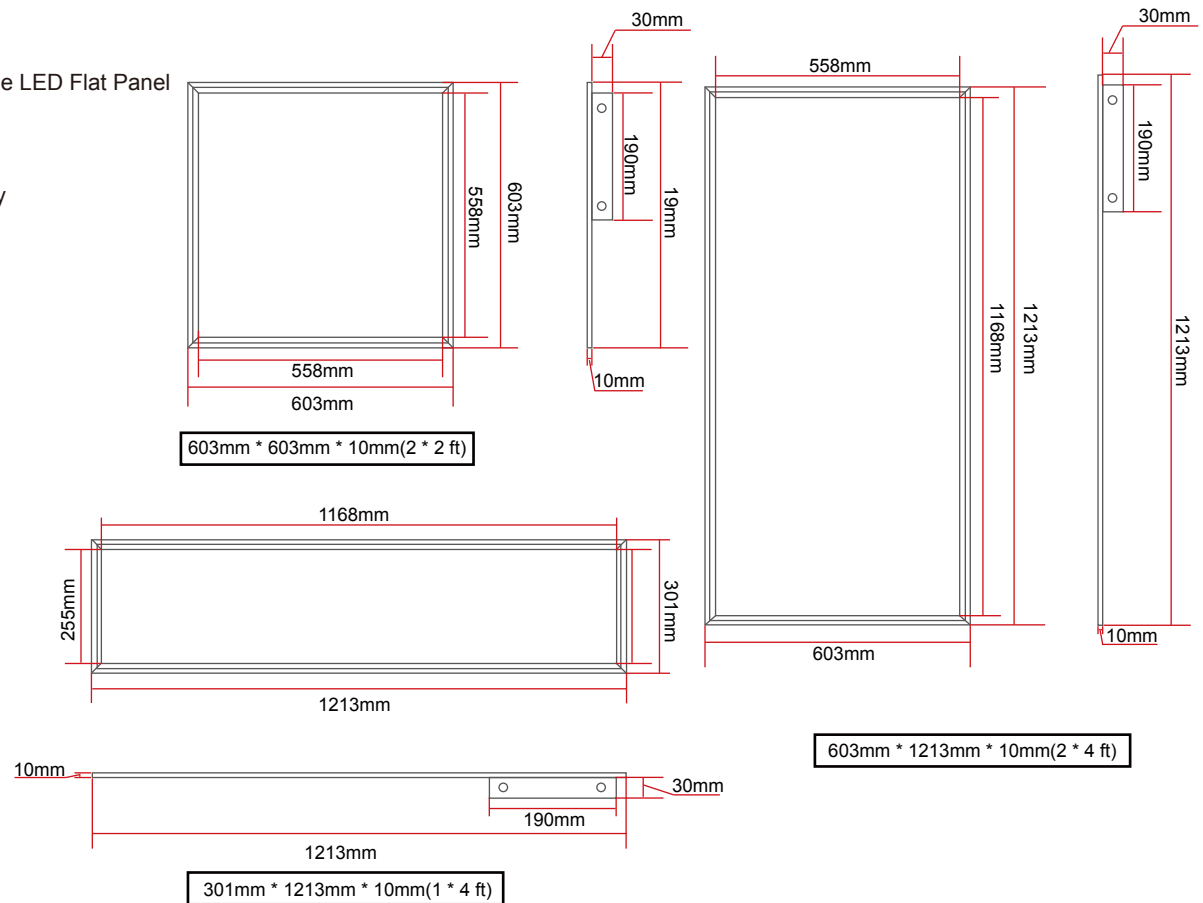
Material: AL+PMMA+PS

Working Temperature: -20°C ~ +45°C

Storage Temperature: -25°C ~ +65°C

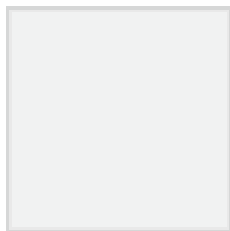
IP Grade: IP40

Working Life-span: 50,000H

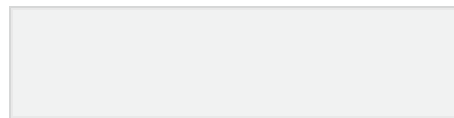


# PARAMETER

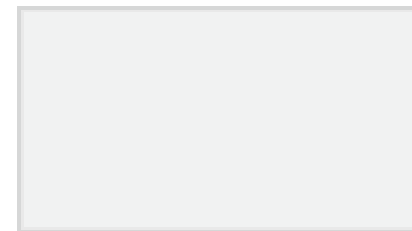
Model	Watt	Input Voltage	Lumens	LEDs	Size(mm)	CCT	N.W
NLBIC-40W-2x2	40W	AC 100-277V	110-120 lm/W	SMD 2835	2 * 2 ft	3000K-5000K	3.7 kg/pc
NLBIC-40W-1x4	40W				1 * 4 ft		3.8 kg/pc
NLBIC-50W-4x2	50W				2 * 4 ft		7.2 kg/pc
NLBIC-60W-2x4	60W						



2 \* 2 ft



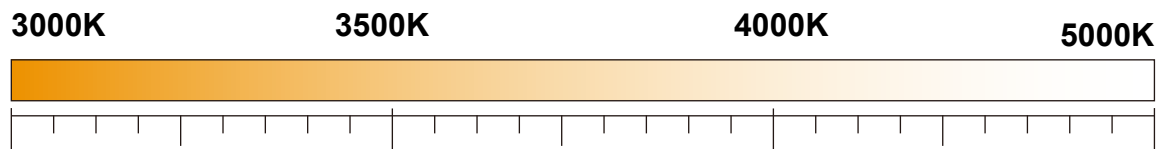
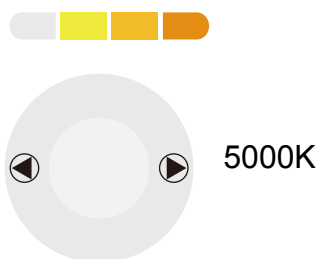
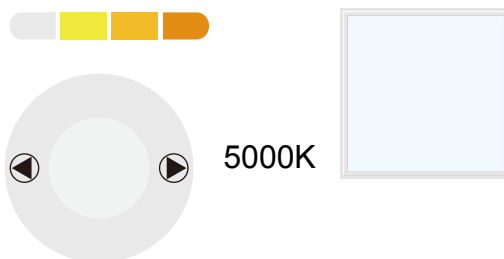
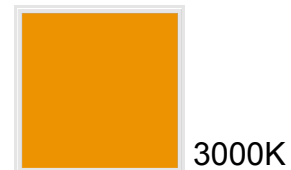
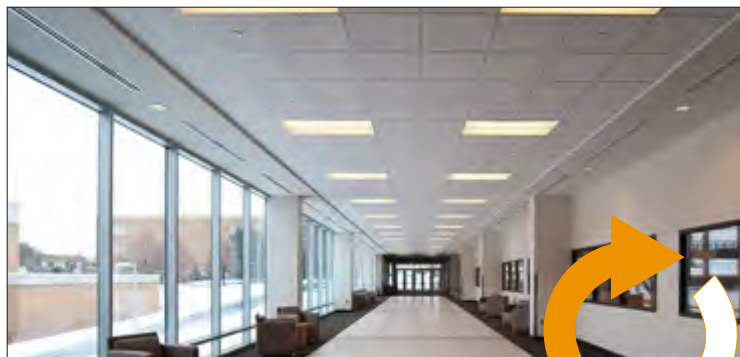
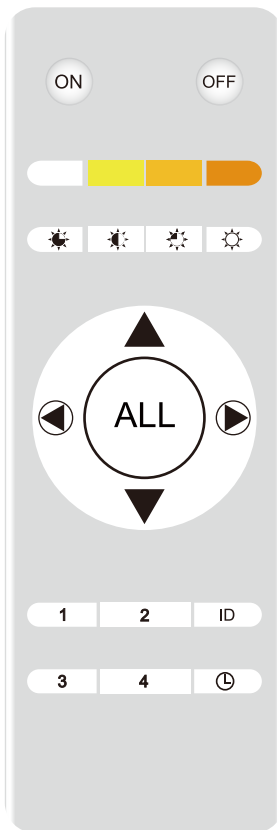
1 \* 4 ft



2 \* 4 ft



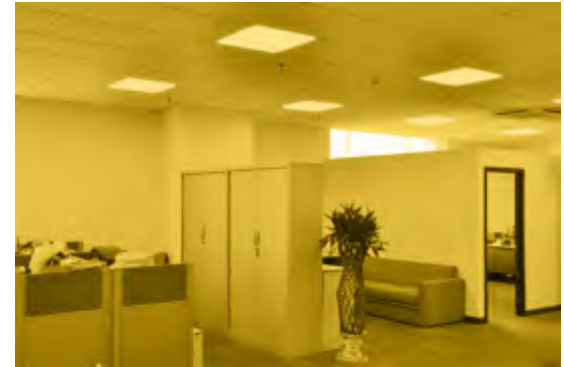
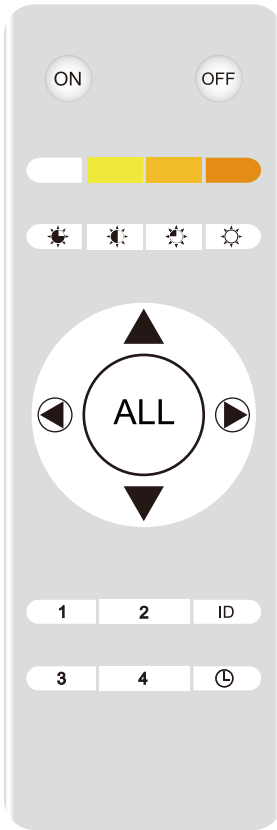
# CCT ADJUSTABLE



CCT can be adjusted between 3000K-5000K as per your liking.



# BRIGHTNESS ADJUSTABLE

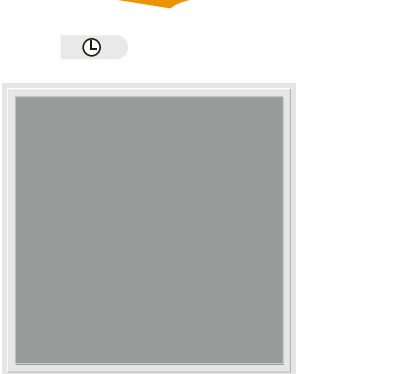
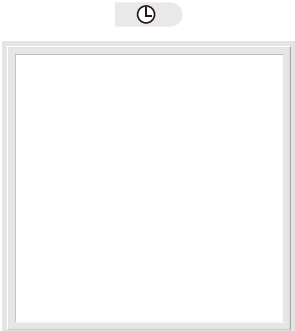
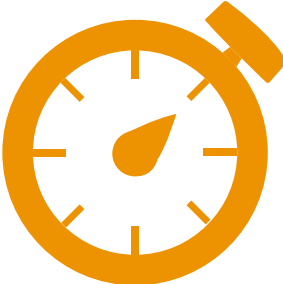
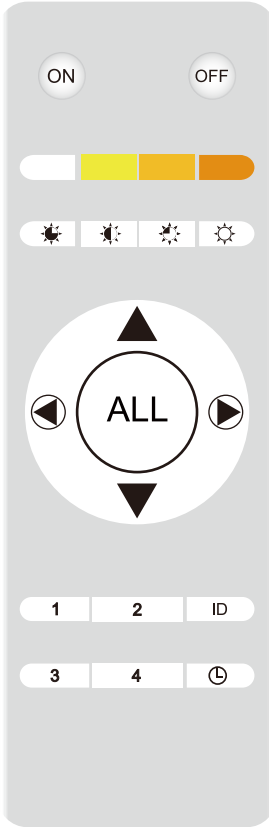


Brightness Dimming:

- ① Step Dimming
- ② Continuous Dimming



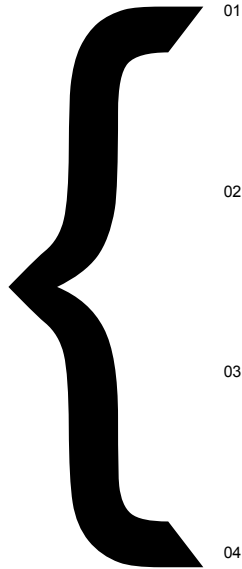
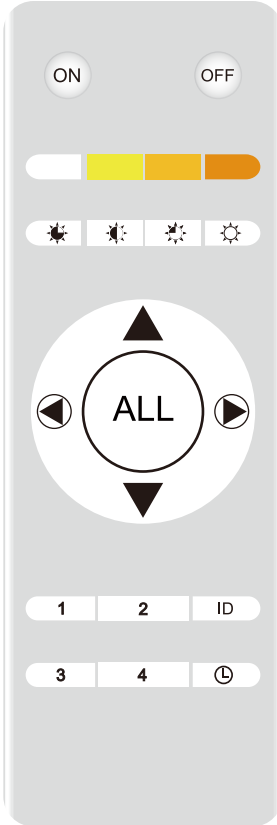
# DELAY TURN-OFF



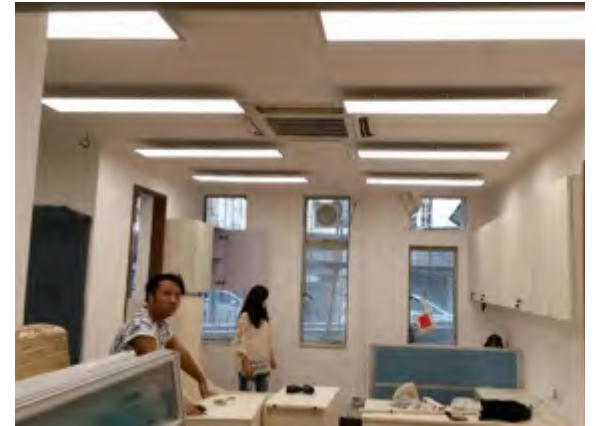
After 10 Seconds of each operation, it will enter the standby power saving mode. If you need to adjust again, please press the ON button, indicator light flashes is OK.



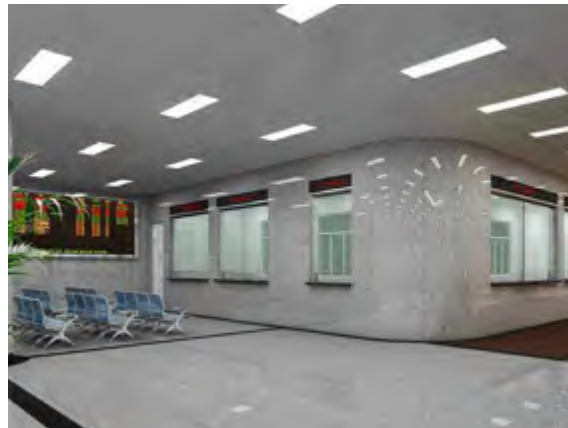
# GROUPING CONTROL



01



02



03



04

A remote-controller maximum can control 4 groups of lamps , but the numbers of lamps of each group is unlimited



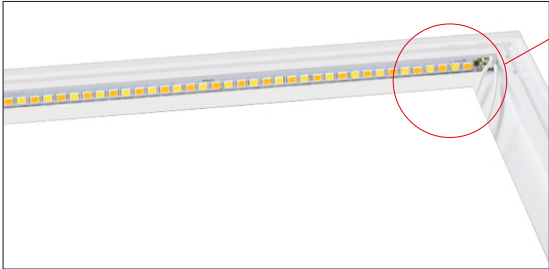


# LED LIGHT SOURCE

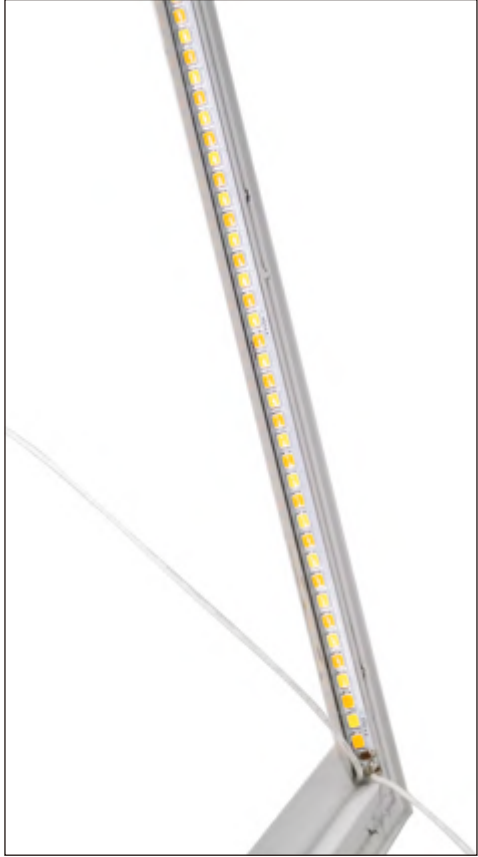
## LED CHIPS



SMD 2835 0.5W 3000K



SMD 2835 0.5W 5000K

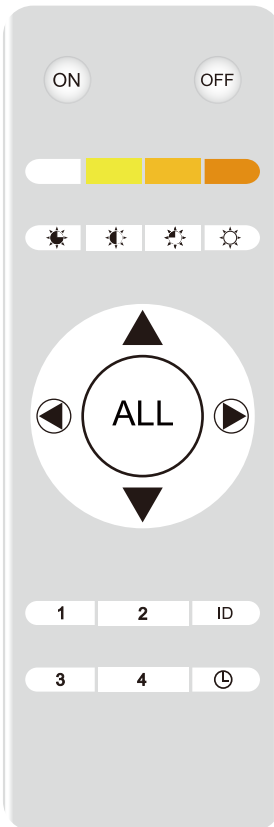


The circuit board uses special single PCB but double leds, color temperature can be adjusted from 3000K to 5000k, no glare and no flicker.



# REMOTE CONTROLLER

## THE HANDHELD REMOTE CONTROLLER










ON OFF	ON Turn on OFF Turn off		
ID	<b>Matching code for light</b> Hold the button "ID" to keep remote controller's indicator always on, then turn on the light and release the button "ID" after the light flashes twice. Matching code is finished. Matching code for several lights at the same time is available.		
ID + ▼	<b>Release the code and disconnect light from the remote controller</b> Pressing the button ID ▼ together, then turn on the light, the light will flash to finish releasing the code on the lights.		
1 2 3 4	<b>Group selecting button</b> Grouping Lights(need to finish matching code firstly)Turn off lights, keep pressing the group selecting button for 3s, then turn on light to finish grouping.		
⌚	<b>Delay turn-off</b> Press the button, ⌚ the delay function works after the light flash once, and the light will be turned off after 10s. Press the button ON could cancel the delay function.		
ALL	All Groups are selected		
<b>Color temperature selecting/saving</b> After selecting the color temperature, press the button "OFF" then turn on the light to save the color temperature.			
5000K	4000K	3500K	3000K
25% brightness	50% brightness	75% brightness	100% brightness
▲ Increase brightness	▼ Decrease brightness	◀ Decrease color temperature	▶ Increase color temperature

- \* After turned on, the light will automatically detect the 0-10v dimmer to set brightness,it will get 100% brightness if no dimming signal to input the light.
- \* If use 0-10V dimmer to control, light brightness will convert to 0-10V dimmer's current setting brightness.
- \* If using remote controller to control, light brightness will only change from its current brightness rather than remote controller's current setting brightness.



# WALL SWITCH

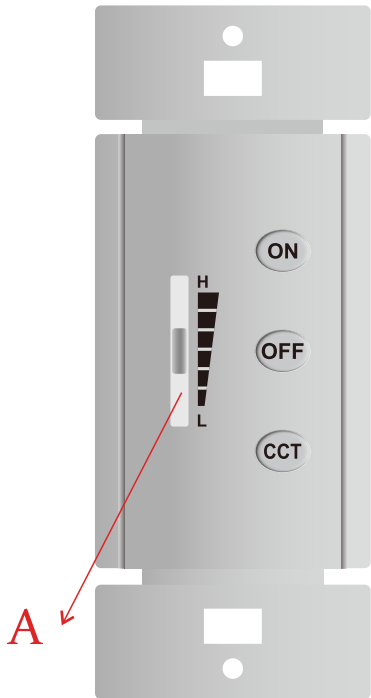
## THE WALL MOUNTED REMOTE CONTROLLER

 	 Turn on  Turn off
	<b>Lights code matching combination keys</b> Press the buttons "ON" + "OFF" simultaneously to keep remote controller's indicator light always on, trun on the light for 2 Seconds then loosen the combination keys, matching code is done. Matching code with many lights at the same time is available.
	<b>Brightness adjustment</b>
	Press the CCT button,color temperature will change between 3000K/3500K/4000K/5000K. After shutting down it will save the current color temperature.

### The matching method of hand-held remote controller and wall-mount remote controller

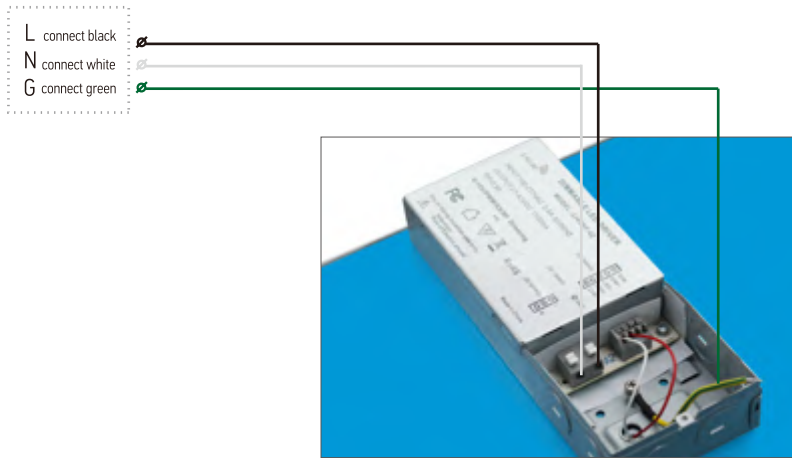
NO	Grouping	Hand-held controller	Wall-type controller
1	1	1 + ID	ON+CCT
2	2	2 + ID	ON+CCT
3	3	3 + ID	ON+CCT
4	4	4 + ID	ON+CCT
5	ALL	ALL + ID	ON+CCT

\* After 10 Seconds of each operation, it will enter the standby power saving mode. If you need to adjust again, please press the ON button,it works after the indicator flashes.

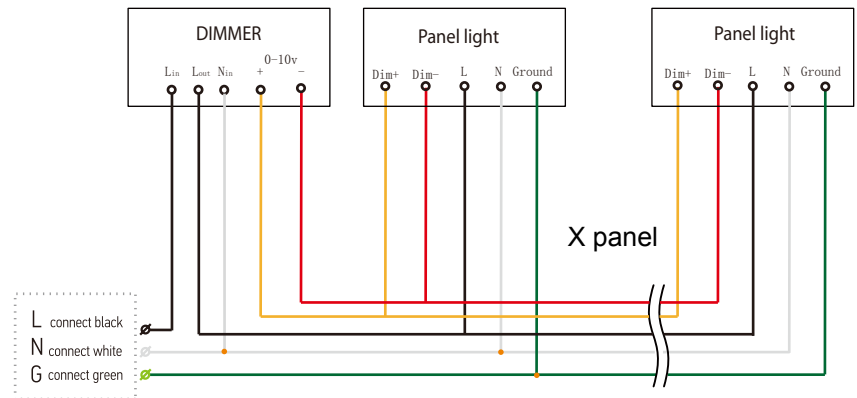
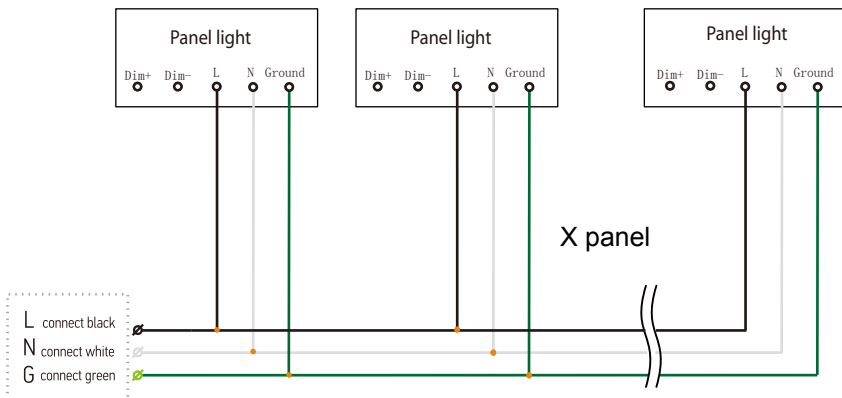
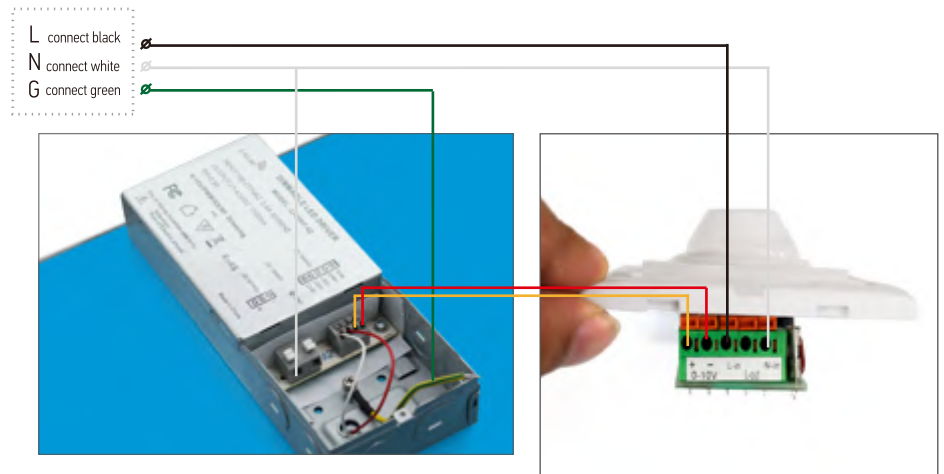


# WIRE CONNECTION

## Wire Connection

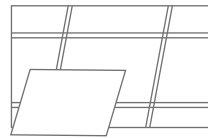


## Wiring of panel light with 0-10V dimmable driver

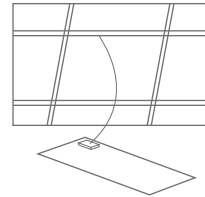


# INSTALLATION

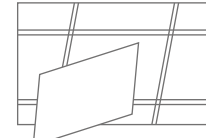
Ceiling recessing



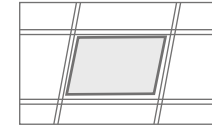
1. Remove ceiling plaster slab



2. Connect power supply

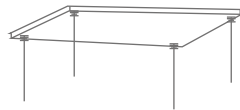


3. Fix the panel light into right place

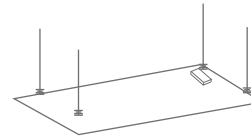


4. Stabilize the panel

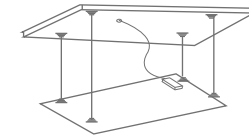
Suspending



1. A. Fix the anchor into target place on the ceiling.  
B. Fix the installation mount on the ceiling with plastic anchor.

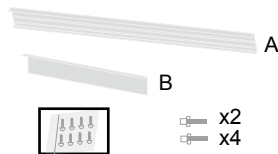


2. Hang the panel to ceiling suspending installation kits

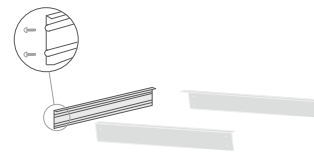


3. Adjust the length of steel wire. Connect the power supply

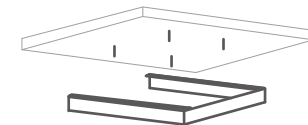
Surface mounted



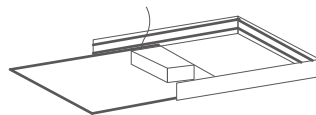
1. take both profile A and B from accessory pack.



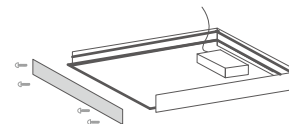
2. Assembling 3 pieces aluminum profile together with screw.



3. Fix semi-finished frame onto ceiling with screw (Plastic anchor for concrete ceiling only).



4. Slide panel into frame properly.



5. Fix the last piece of aluminum profile with screw after panel is well placed.

