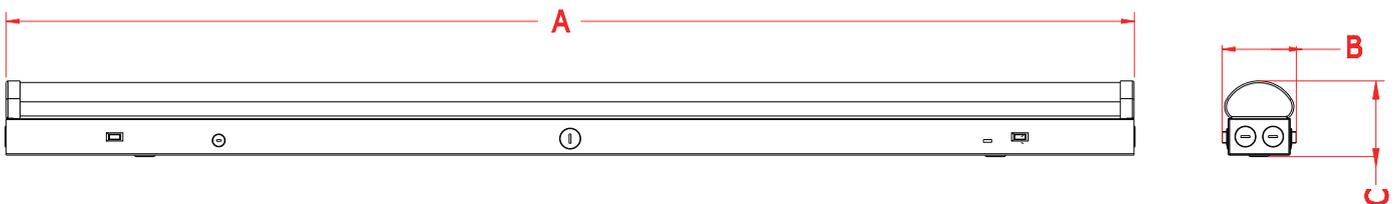# LED Linear Strip Light

Product Appearance

Product Features

- 1. ETL,CETL, DLC listed.
- 2. Power optional: 4FT 30W-35W-40W,8FT 60W-70W-80W.
- 3. Lumen efficiency: 140Im/w. ,
- 4. 0-10V dimmable driver.
- 5. Input voltage: 100-277VAC .
- 6. Installation: Surface mounted // Suspension .
- 7. Five years' warranty.
- 8. Customers can install microwave sensor and bluetooth by themselves.
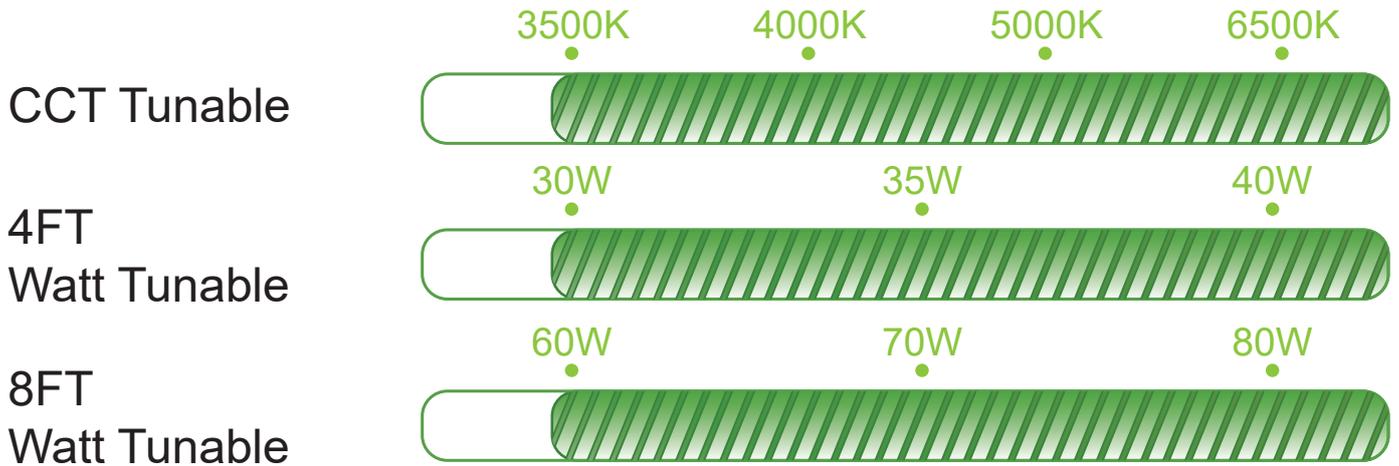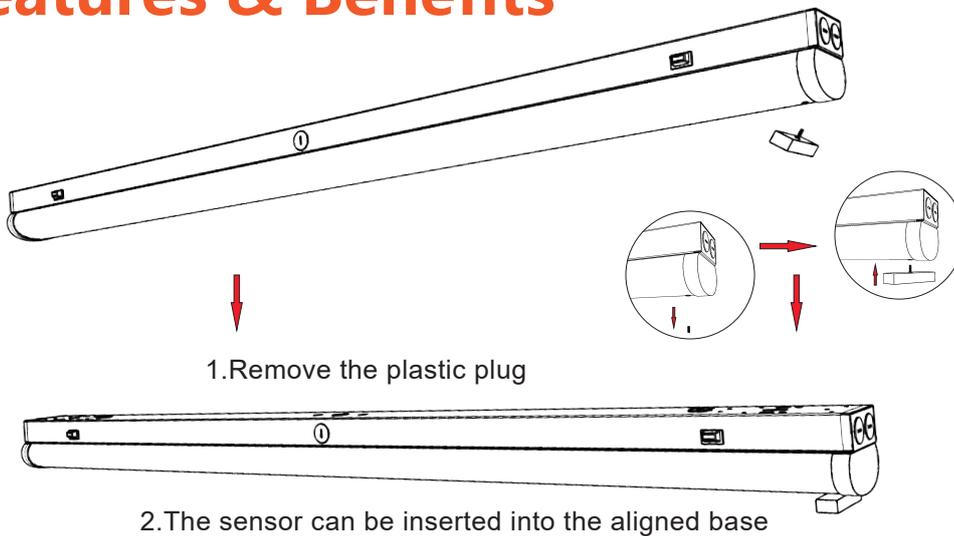
Product Dimension

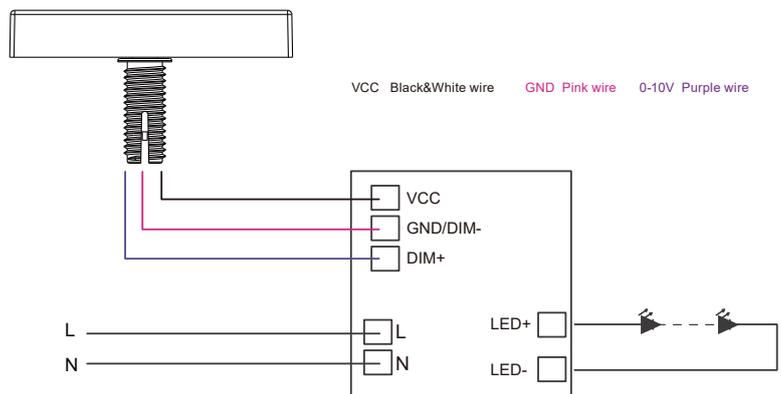| Model	size	A (inch)(mm)	B (inch)(mm)	C (inch)(mm)
ST-4FT-40W-L-H	4FT	48.03" 1220mm	2.95" 75mm	2.99" 76mm
ST-8FT-80W-L-H	8FT	95.98" 2438mm	2.95" 75mm	2.99" 76mm

Specification

Model	size	Power	Lnput Voltage	Dimmable	PF	Light Efficacy	Ra	CCT
ST-4FT-40W-L-H	4FT	30/35/40W	AC100-277V	0-10V	>0.9	140/lm	80	3500/4000/5000K/6500K
ST-8FT-80W-L-H	8FT	60/70/80W	AC100-277V	0-10V	>0.9	140/lm	80	3500/4000/5000K/6500K

CCT Tunable
3500K   4000K   5000K   6500K

4FT Watt Tunable
30W   35W   40W

8FT Watt Tunable
60W   70W   80W

Features & Benefits

1.Remove the plastic plug

2.The sensor can be inserted into the aligned base

Wirng Diagam

VCC   Black&White wire   GND   Pink wire   0-10V   Purple wire

VCC
GND/DIM-
DIM+

L   L   LED+
N   N   LED-

Parameters

Model NO.		HD08VR
MICROWAVE INFORMATION	Frequency	5.8GHz±75Hz
	Microwave Power	<0.3mW
	Installation Height	5m/16.4Max.
	Detection Distance	≥3m/9ft
	Detection Angle	30-150°（Without Glass Cover)
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	5s/ 30s/ 1min] 2min/ 3min/ 15min/ 20min/ 25min/ 30min/ 45min/ 60min/ 90min/ 120min
	Dayight Threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/ 80LUx/5OLUx/30Lux/10Lux/2Lux
	Standby Dinmming Level	10%/20%/30%/50%
	Standby Period	0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/ 25min/30min/45min/60min/+∞
	Dusk/Dawn Sensing/Photocell	Daylight threshold as 30lux/ 50lux/ 80lux/ 120|ux/ 200Lux/ 250Lux/300Lux/ 350Lux/ 400Lux Standby period as +∞ Standby dimming level as 10%/20%/30%
	Daylight Harvesting	1. Adjust "daylight" value higher than 50lux 2. Preset "standby period" 0S 3. press MW/PIR button 3 times till MW/PIR icons both blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, press DH button, daylight harvesting function enabled.)
BLUETOOTH INFORMATION	Wireless Control Range	≥20m/65ft
	APP Download	Supported in both APP Store and Google Play Market
INPUT	Lnput range	12VDC
	Voltage Range	10-15VDC
	Current	≥40mA
OUTPUT	Signal	DIM 0-10V
	Connection	TipDIM+、RingVCC、SleeveGND
	Stang-by Power	<0.5W
ENVIRONMENT	Working Temp	-25℃~+60℃
	Storage Temp	-40℃~+80℃ Humdlty:85% (non-xondensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP20

Parameters

Model	Sensor Type	Connector	Controller
HD08VR-M-1	Microwave	Audio Jack	Remote Control HD05R
HD08VR-MB-1 Bluetooth			HALSEN BLUE APP

Networked Lighting Controls: HAISEN BLUE

Detection Coverage

Ceiling Mounted

0.5-1.0M/S

Mounting Height

Wall Mounted
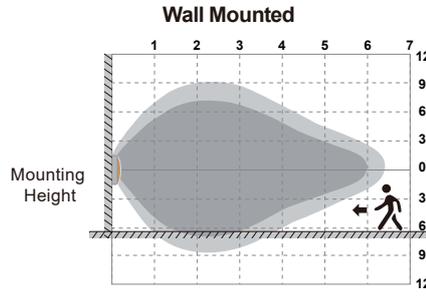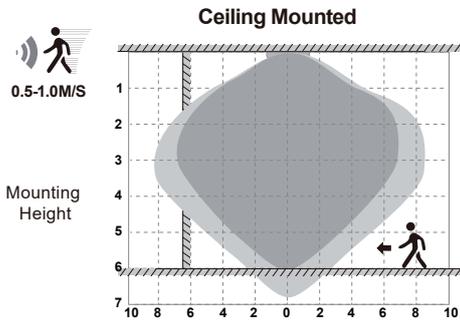
Mounting Height

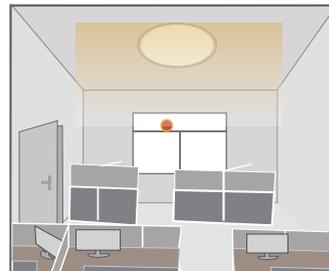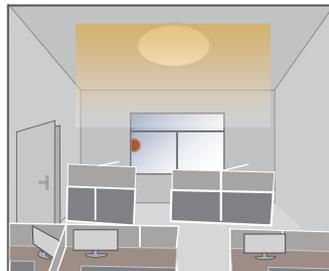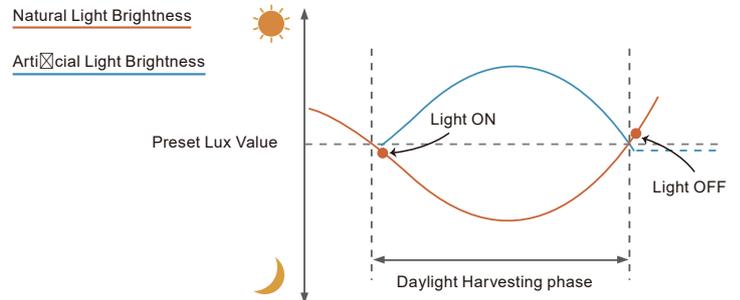## HD08VR-MA-1

Highest mounting height is 6m

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area   Possibly Detected Area

Performance

1.Daylight Harvesting

1. Adjust "daylight" value higher than 50lux
2. Preset "standby period" 0S
3. Press MW/PIR button 3 times till MW/PIR icons both blicking on LCD screen, daylight harvesting function enabled.

Natural Light Brightness

Artifcial Light Brightness

Preset Lux Value

Light ON

Light OFF

Daylight Harvesting phase

When ambient brightness is lower than preset lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness;
when outside is getting darker, the inside will be brighter, and brighter darker.

Light OFF when ambient brightness becomes higher
than the preset lux level.

2.Dusk/Dawn function

HD08VR is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Precondition of Dusk/Dawn function:

1. Standby period is +∞ ;

2.Standby dimming level is on 10%,20% or 30%;

3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux/ 200Lux/ 250Lux/300Lux/ 350Lux/ 400Lux
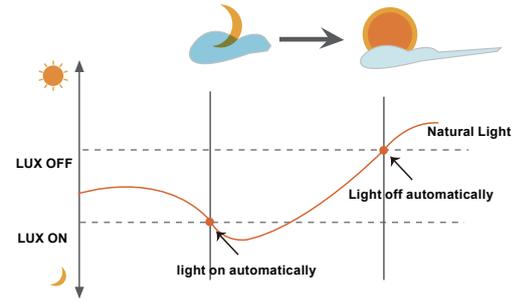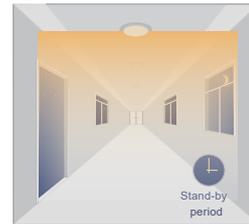

3. With Dusk/Dawn function

With insufficient ambient brightness，sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.
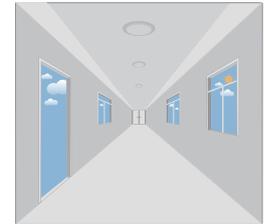
When sensor detects motion or presence it will bring the light level up to 100%.

After motion is no longer detected,fixture remains at 100% for hold time.

After pre-set hold time period it will dim light to standby dimming level again and always keep it.

With sufficient ambient brightness, sensor will turn OFF light automatically.
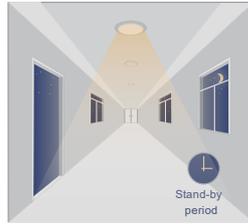
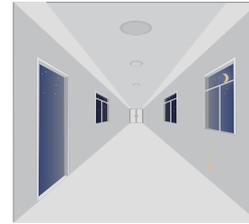## 4. Without daylight disabled

Sensor turns ON light when motion is detected.

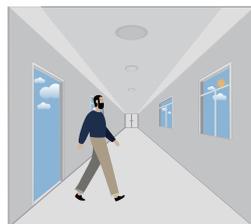Sensor keeps for a hold time period after motion leaves

Sensor dims light to standby dimming level after hold time if there is still no motion

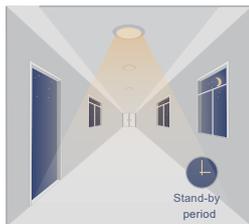Sensor turns OFF light after standby period

5. With Daylight Threshold

With sufficient daylight，the sensor keeps light OFF even motion gets detected

With insufficient daylight，the sensor turns light ON when motion gets detected

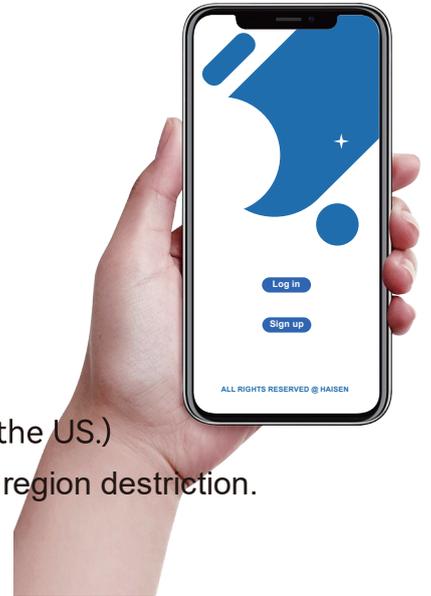After there's no motion detected，the sensor keeps light ON 100% for holdtime.

After holdtime，sensor dims light to standby dimming level for standby period. if the standby period has been set as Os，sensor turns light OFF automatical   -   ly after holdtime.
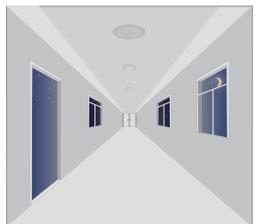
The sensor turns OFF light automatically after the standby period when there's no motion detected.

APP DOWNLOAD

Our app HAISEN BLUE has been uploaded onto APP Store & Google Market

ANDROID APP ON
Google play

Available on the
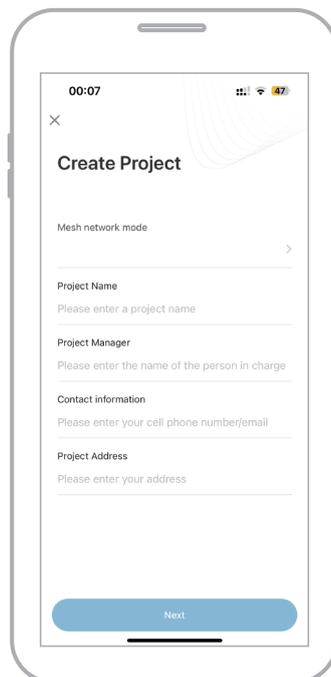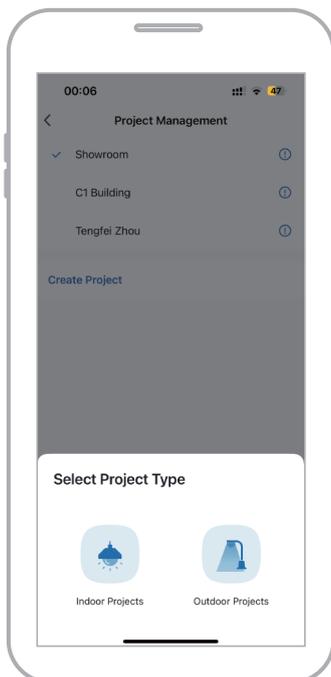**App Store**

Log in
Sign up

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SIGN UP/LOG IN

Please select the region as US (because the server is located in the US.)
if you signing up with phone number; or with mail address without region destriction.

Log in if you already have account.

PROJECT MANAGEMENT

00:06
Project Management
✓ Showroom
C1 Building
Tengfei Zhou
Create Project

Select Project Type
Indoor Projects   Outdoor Projects

00:07
✕
Create Project

Mesh network mode

Project Name
Please enter a project name

Project Manager
Please enter the name of the person in charge

Contact information
Please enter your cell phone number/email

Project Address
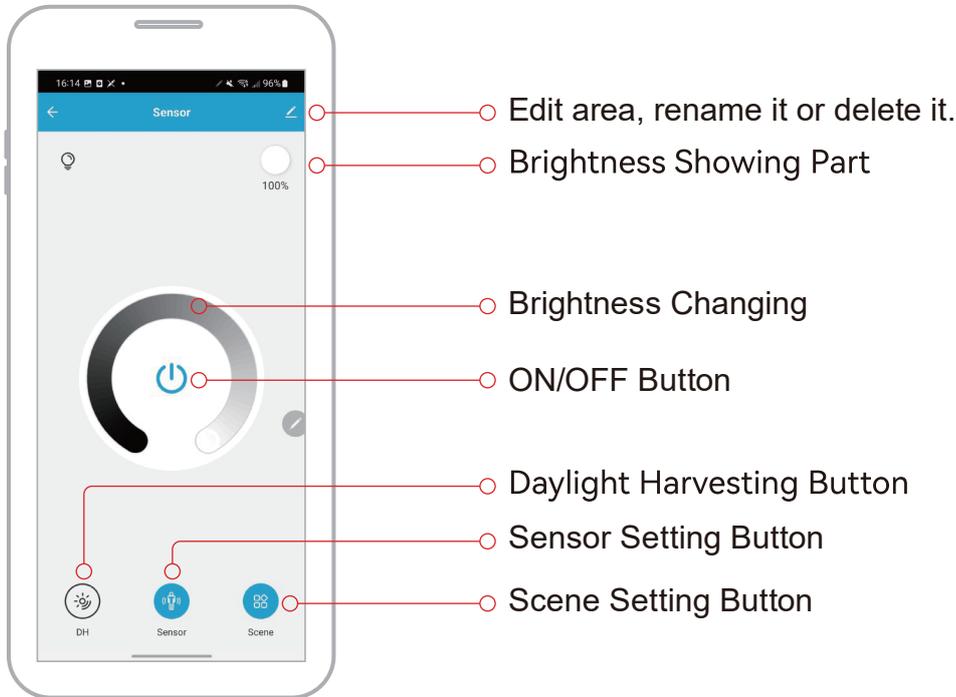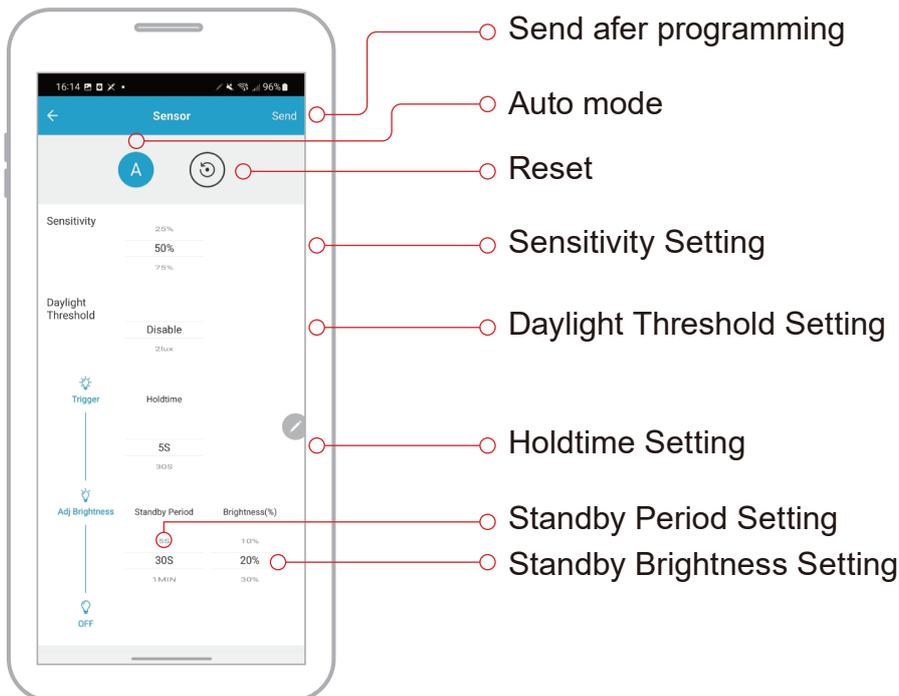Please enter your address

Next

CREATE PROJECT

The app is specially designed for
industrial project application, not only
to control the SMART SENSORs but
also HAISEN's Emergency Driver.
It requires you to start a new project first
before going on add or control devices.

CONTROL

Select the sensor or group to control it.

- Edit area, rename it or delete it.
- Brightness Showing Part
- Brightness Changing
- ON/OFF Button
- Daylight Harvesting Button
- Sensor Setting Button
- Scene Setting Button

CONTROL PAGE -1

- Send afer programming
- Auto mode
- Reset
- Sensitivity Setting
- Daylight Threshold Setting
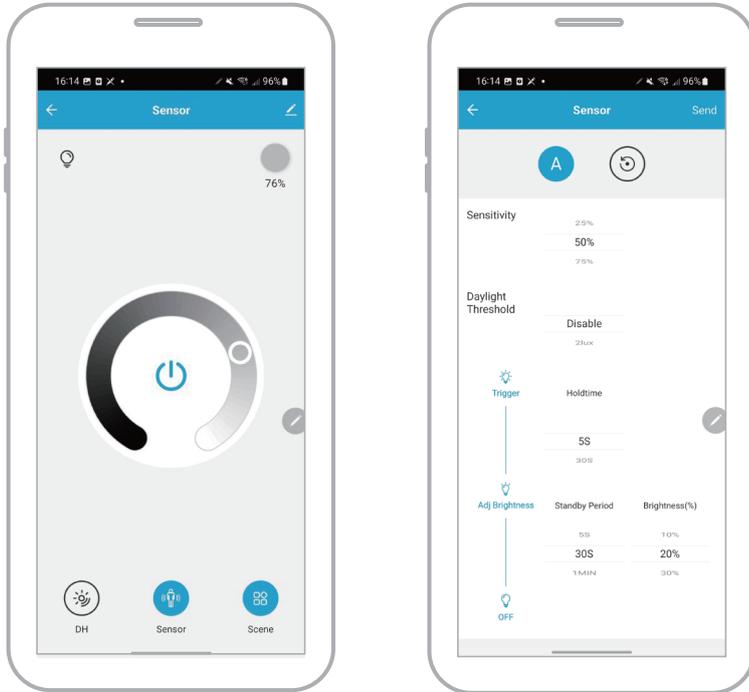- Holdtime Setting
- Standby Period Setting
- Standby Brightness Setting

CONTROL PAGE -2

HIGH-END TRIM

High-end Trimming is a very practical function for customers who prefer to have less than 100% brightness everytime the sensor detects motion, and our steps to approach it is very easy.

STEPS

- Dim the light to a level, for example 76%, simply by moving the block.
- Press "sensor" at the bottom center and start making a program
- Tthen press "A" means running automation.
- After setting, the sensor works as dimming to only 76% everytime it detects motion.

DAYLIGHT HARVESTING

Daylight Harvesting function offers the possibility to dim the light brightness along with the change of natural brightness; when outside gets darker, indoor environment should become brighter.
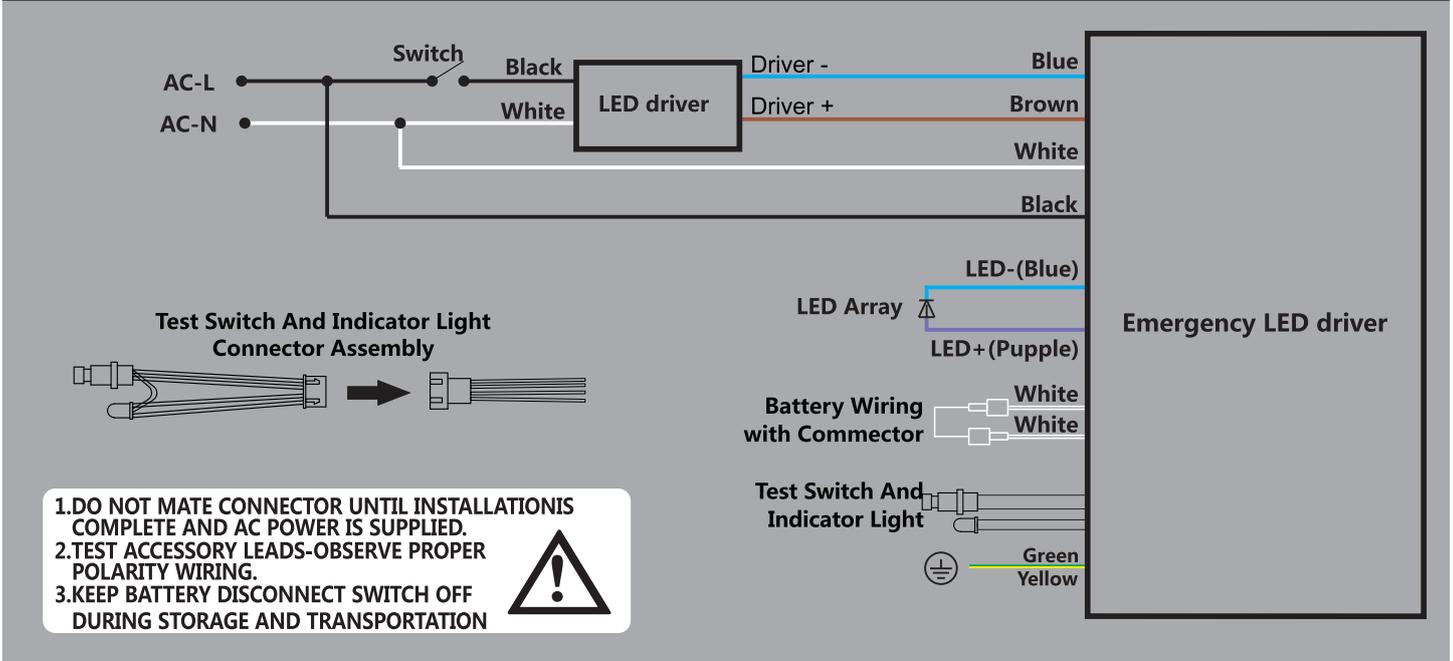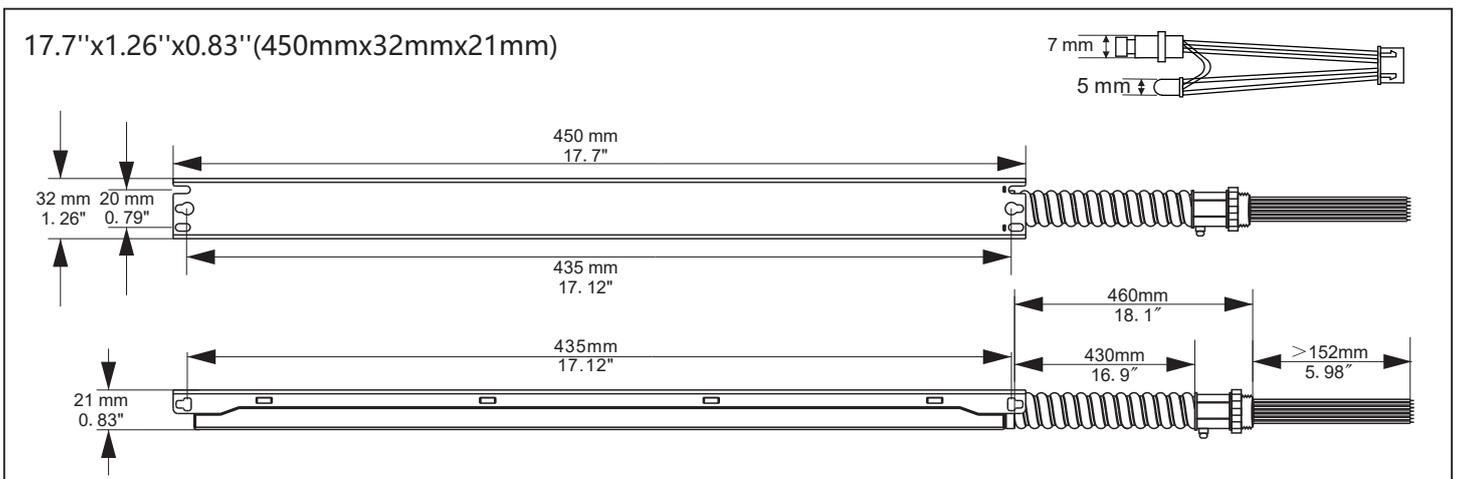

STEPS

- Press "sensor" at the bottom center and start making a program, daylight must be chosen higher than 50lux, meanwell the standby period should be 0S.
- Back to the mainpage and press "DH" button

Emergency LED Driver

Wiring Diagram

AC-L

AC-N

Switch

Black

White

LED driver

Driver -

Driver +

Blue

Brown

White

Black

Test Switch And Indicator Light Connector Assembly

LED Array

LED-(Blue)

LED+(Pupple)

Emergency LED driver

Battery Wiring with Commector

White

White

Test Switch And Indicator Light

Green
Yellow

1. DO NOT MATE CONNECTOR UNTIL INSTALLATIONIS COMPLETE AND AC POWER IS SUPPLIED.
2. TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.
3. KEEP BATTERY DISCONNECT SWITCH OFF DURING STORAGE AND TRANSPORTATION

⚠️

Dimensions

17.7''x1.26''x0.83''(450mmx32mmx21mm)

7 mm

5 mm

32 mm
1. 26"

20 mm
0. 79"

450 mm
17. 7"

435 mm
17. 12"

460mm
18. 1″

21 mm
0. 83"

435mm
17.12"

430mm
16. 9″

＞152mm
5. 98″

Operation

AC Operation:
AC power is present, The LED load from the LED driver is normal power supply, AC LED driver output current can not exceed 150W or 4A,the emergency driver is charging in a standby mode. The green LED light flashes indicates that it is charging. The green LED light on indicates that it is full charged. After the AC power supply working 48h, The emergency LED drive will automatically from AC power working switch into emergency working mode for 30S every month and then automatically backs to the working mode of the AC power supply, the AC power supply works per year for automatically from the AC power mode backs to the working emergency mode Until the emergency discharge is completed.
**Emergency operation:**
When the AC power goes out ,The emergency driver detects the AC power outage and automatically switch to the emergency mode.

AC Power on → Charging → Full-charged   AC Power OFF → Discharging → Emergency mode
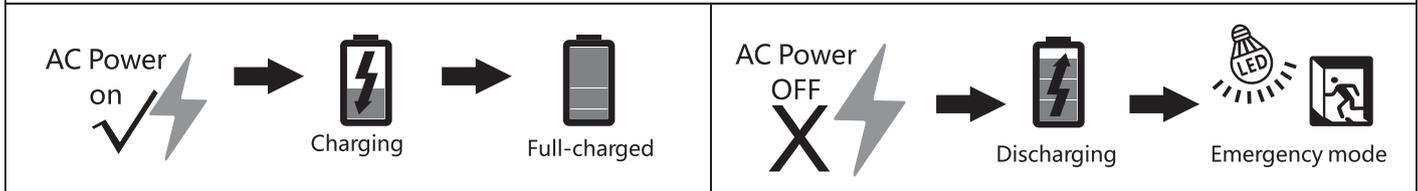
Indicator light introduction

① Green/flashing: Charging
② Green/on: Full-charged
③ Red/on: Discharging(emergency mode)
④ Red/flashing: Discharging(emergency mode) finished soon
⑤ Yellow/on: Error

Green Flashing — Charging ①
Green ON — Full-charged ②
Red ③ ON — Discharging(emergency mode)
Red Flashing ④ — Discharging(emergency mode) finished soon
Yellow ON — Error ⑤
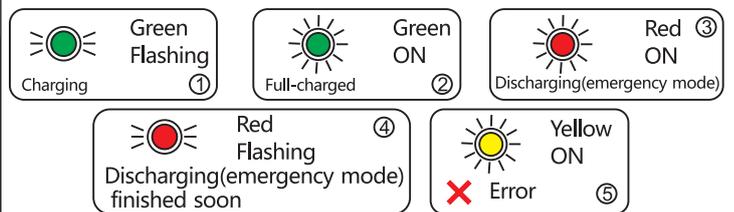
Test switch introduction

Press the test switch to confirm whether the emergency function is normal

Press the test switch Green turns Red Emergency function is normal

IMPORTANT SAFEGUARDS
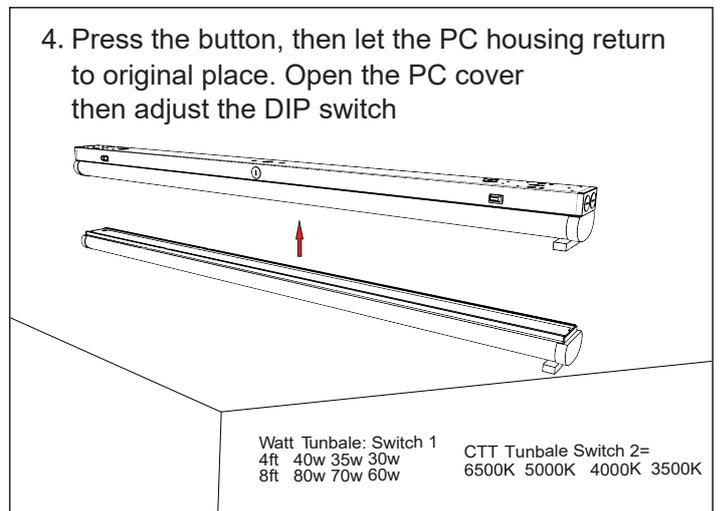**When using electrical equipment, basic safety precautions should always be followed including the following**
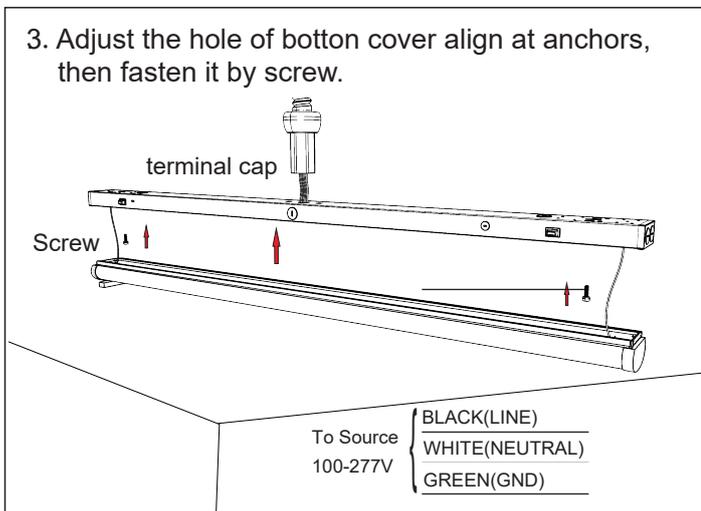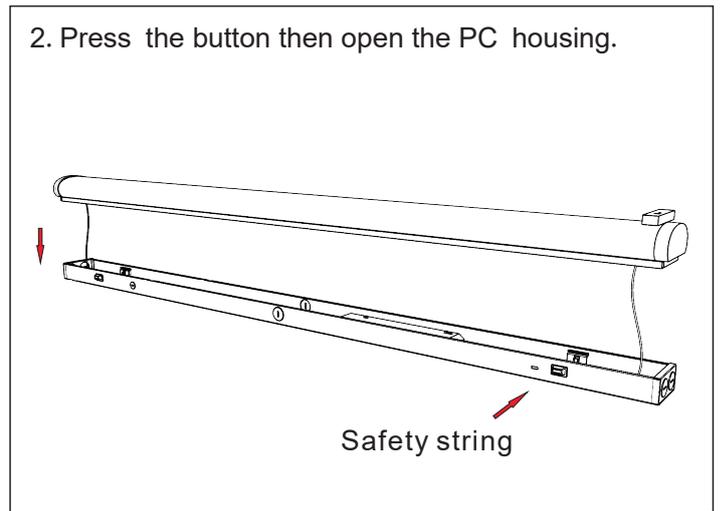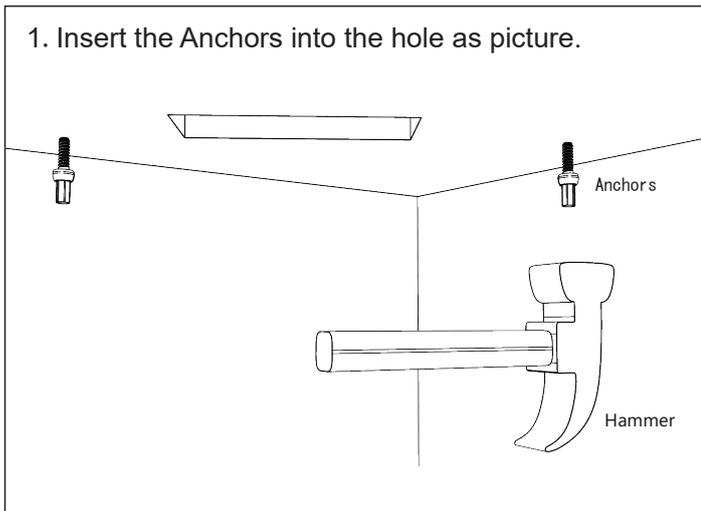**READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**

●Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Emergency Backup. Check for enclosed wiring and components.

●Risk of fire or electric shock.This LED Emergency Backup installation requires knowledge of luminaire. electrical systems. If not qualified,do not attempt installation.Contact a qualified electrician.

●Before installing,make certain the AC power to the fixture is off.

●The electrical rating of this product is 100-347Vac.Installer must confirm that there is 100-347Vac to the fixture before installation.

●To prevent electrical shock only mate unit connector after installation is complete and before the AC power to the fixture is back on.

●This LED Emergency Backup unit requires an un-switched AC power source of 100-347Vac,50/60Hz The AC driver must be on the same branch circuit as the LED Emergency Backup unit.

●Do not let power supply cords touch hot surfaces.

●Do not mount near gas or electric heaters.

●Do not use out doors

●Do not connect battery pack connector until all other wiring is complete and AC power is on.

●The emergency LED driver is for use with grounded,ULlisted LED luminaires,shall be enclosed by the LED luminaire and bonded to the grounding of LED luminaire.

●Verify that all replacement lamp types marked on the installed luminaire are also identified as suitable for use with this emergency battery pack.

●The battery pack is fixed by the screw and the indicator lamp is attached to the shell of the laminaria by3M tape

●Equipment should be mounted in locations and at heights where it is not be subjected to tampering by unauthorized personnel.

●The use of accessory equipment not recommended by the manufacturer and may cause an unsafe condition.

●Do not use this equipment for other than its intended use.

●Use with grounded, UL Listed, dry or damp location rated fixtures.

Installation

Surface Mounted Installation

1. Insert the Anchors into the hole as picture.

Anchors

Hammer

2. Press the button then open the PC housing.

Safety string

3. Adjust the hole of botton cover align at anchors, then fasten it by screw.

terminal cap

Screw

To Source
100-277V
BLACK(LINE)
WHITE(NEUTRAL)
GREEN(GND)

4. Press the button, then let the PC housing return to original place. Open the PC cover then adjust the DIP switch

Watt Tunbale: Switch 1
4ft   40w 35w 30w
8ft   80w 70w 60w

CTT Tunbale Switch 2=
6500K 5000K   4000K 3500K

Installation

Suspension installation

1.Drill two holes in the ceiling with electrodrill, put the hook into the hole.

ceiling

Hook

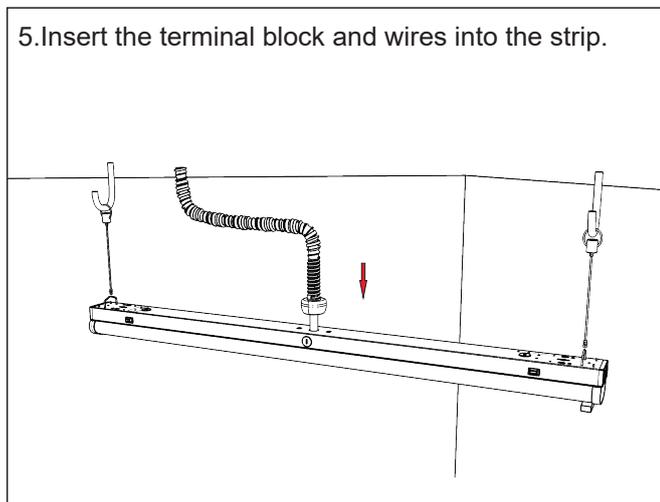electrodrill
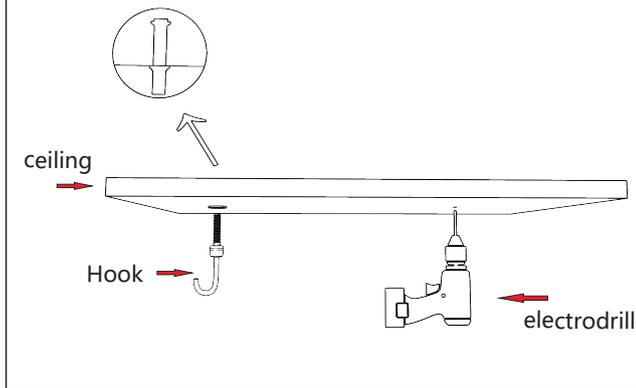
2.Put the hook into the holes as picture.
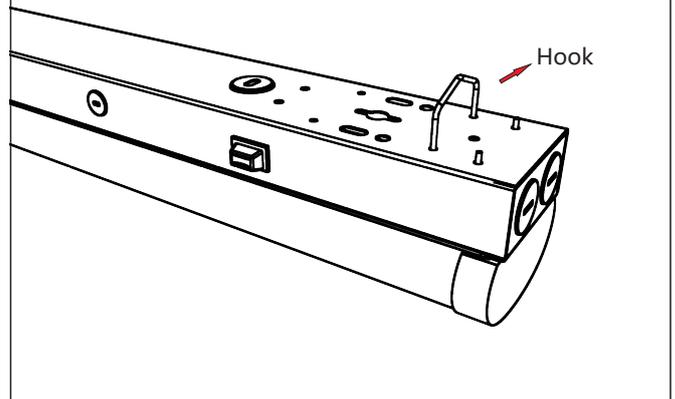
Hook

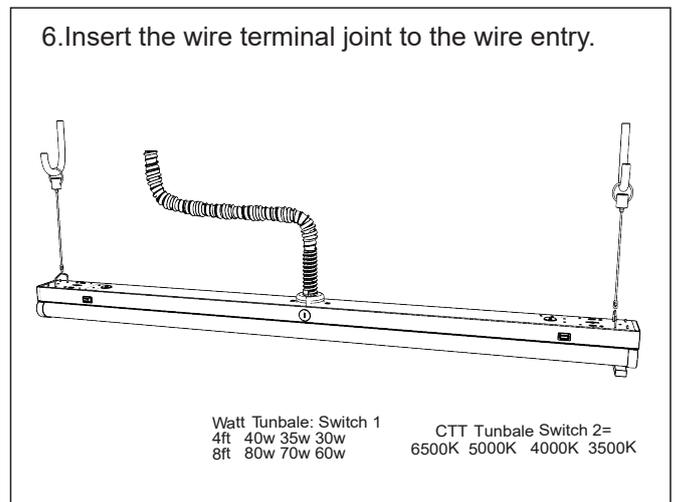3.One side of safety rope to connect the hook, the other connect the lifting hook.
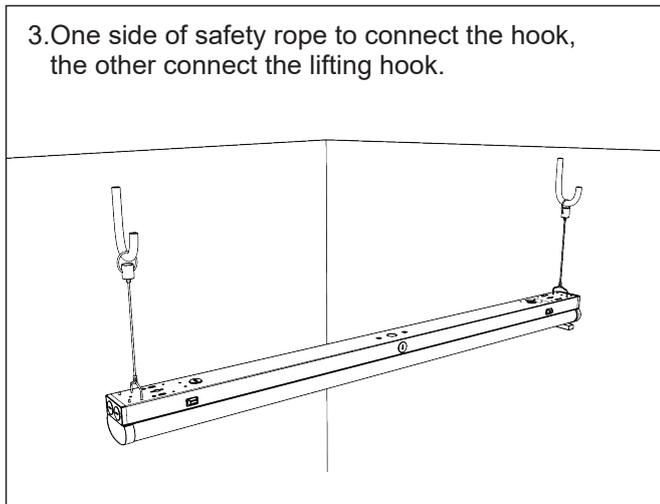
4.Turn off power, and make wiring connections with terminalcap.(see wiring instrucion below).

To Source
100V~277V

BLACK (LINE)
WHITE (NEUTRAL)   FIXTURE
GREEN (GRD)
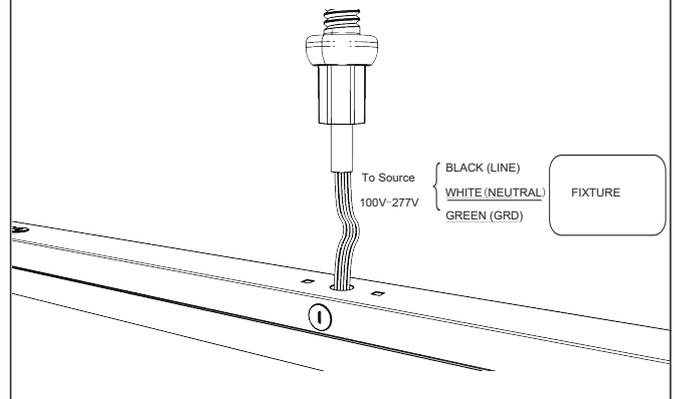
5.Insert the terminal block and wires into the strip.

6.Insert the wire terminal joint to the wire entry.

Watt Tunbale: Switch 1
4ft   40w 35w 30w
8ft   80w 70w 60w

CTT Tunbale Switch 2=
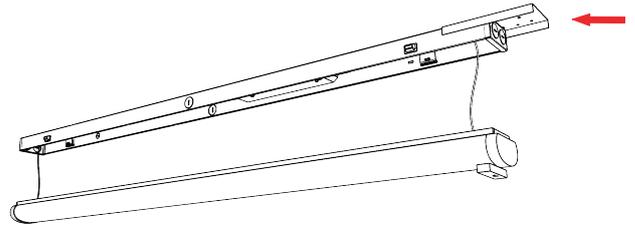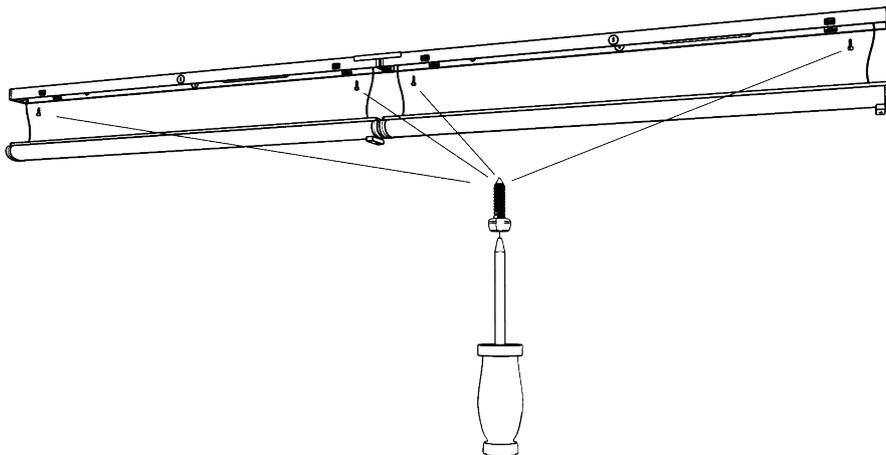6500K 5000K 4000K 3500K

Installation

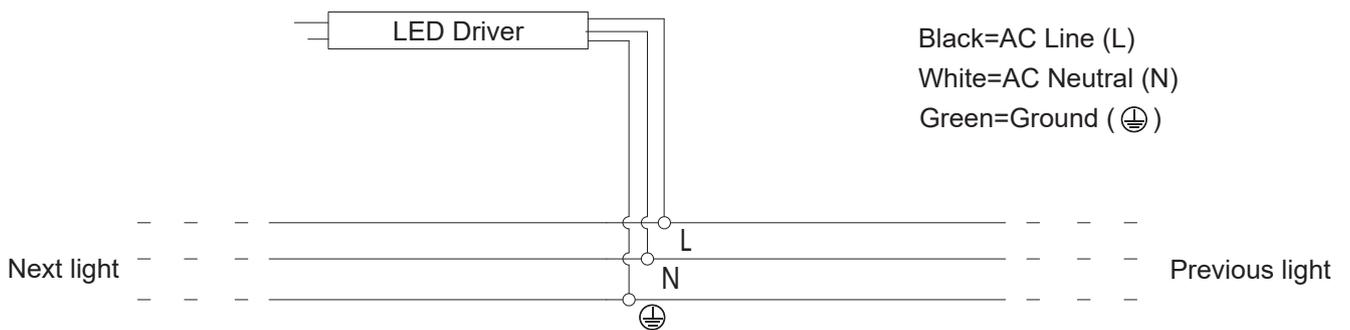## Connection for option

1.Fix the connection bracket on the wall.
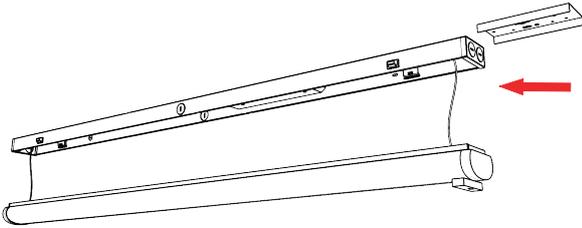
2.Insert the strip light into the connection bracket, then drill holes at a suitable position in the wall for installing the next strip light.

3.Fix the lamp body on the wall by screws, complete the installation; repeat the previous procedure to install the 3rd strip light,4th strip light etc.
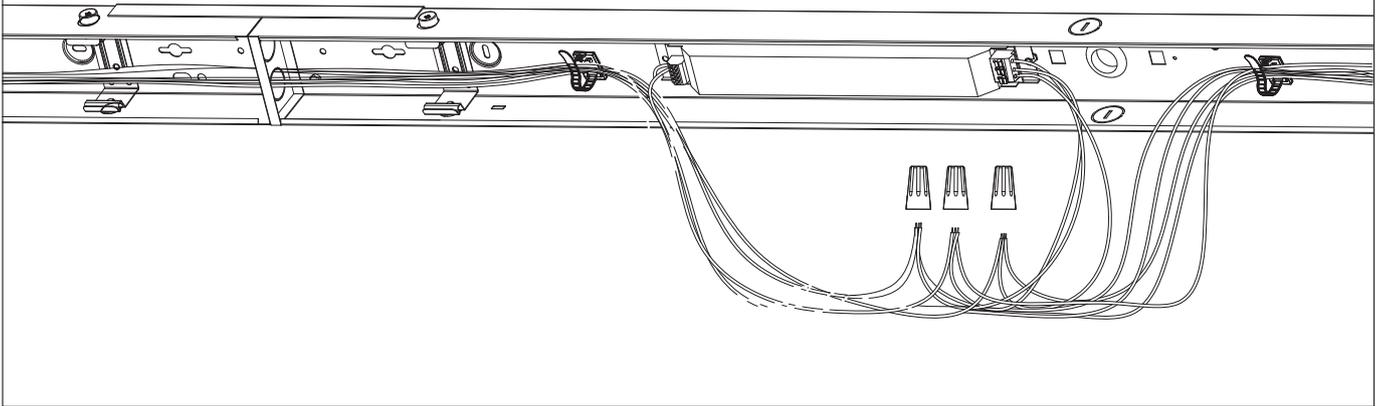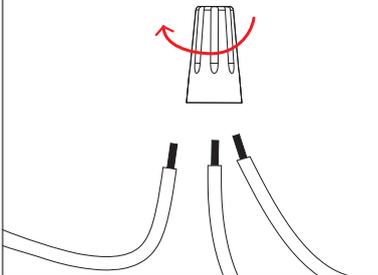
4.Wiring schematic as shown.

LED Driver

Black=AC Line (L)

White=AC Neutral (N)

Green=Ground (⏚)

Next light

L

N

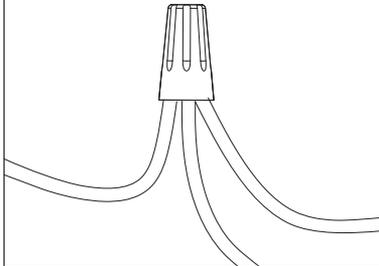Previous light

Installation

Connection for option

5.Pass wires through the knockout hole, fix the wires with 3M glue.

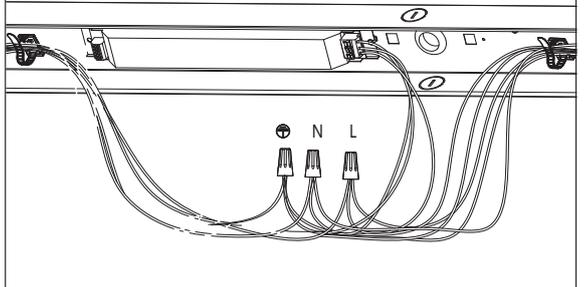

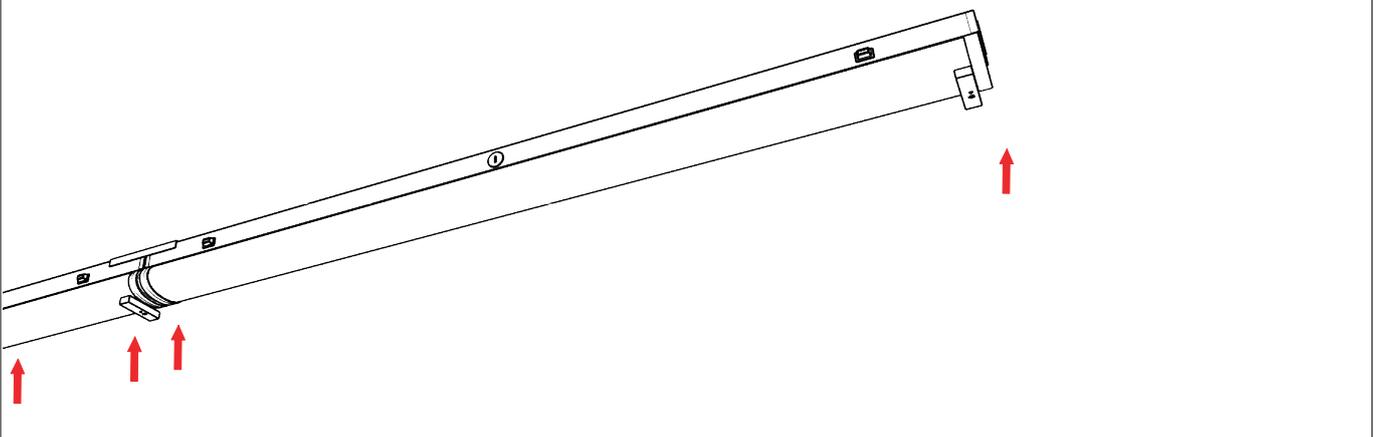6.The same type of electronic wires are inserted into the same quick connector and combined into a pqrallel circuit.

7.Tighten the wires in the quick connector, as the photo shows below.

8. As shown in the figure, it is the diagram of wiring completion.

N L

9.After finished wire connecting and install back the housing,Light up.
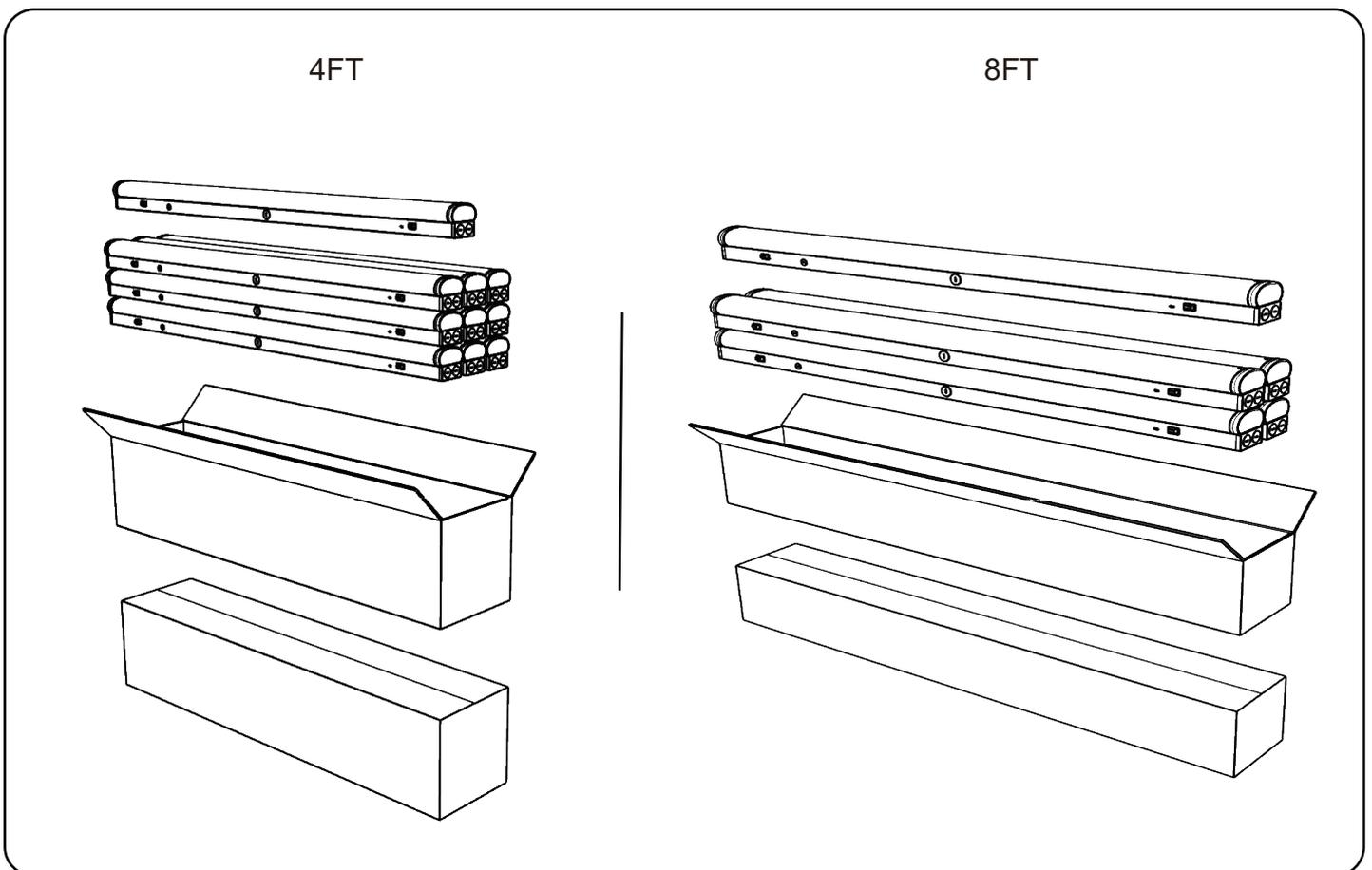

The Installation must be carried out by a qualified electrician.

Packing/weight

Part NO.	Outer Carton Size (LxWxH)	Qty/Carton (pcs)	Net weight (kg)(lbs)	Gross weight (kg)(lbs)	20GP (QTY)	40HQ (QTY)
ST-4FT-40W-L-H	(1230x234x242mm) (48.42"x9.21"x9.53")	9PCS	1.5kg 3.31lbs	15.3kg 33.73lbs	3600	8496
ST-8FT-80W-L-H	(2455x160x165mm) (96.65"x6.30"x6.5")	4PCS	2.8kg 6.17lbs	13.2kg 29.1lbs	1664	3928

Packing

4FT   8FT

1. The installation and maintenance must be completed by electricians or professionals.
2. Please cut off the power before installation and maintenance.
3. The fixture is not allowed to be covered by thermally insulating material.
4. Please keep away from the corrosive substance,and keep the fixture dry and clean.
5. Working tempe:-4°F~104°F,storage temperature:-22°F~140°F.

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