

LED TROFFER LIGHT



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Power&CCT Tunable

APPLICATIONS: Education, healthcare and office.

PRODUCT SPECIFICATIONS

- Delivering up to 130LPW
- CRI: Ra≥80
- CCT Tunable: 3000K / 3500K / 4000K / 5000K / 6500K
- 5 different power tunable
- Dimmable: 0-10V
- Smooth and comfortable light,no glare
- Estimated Lifetime @ 25°C: >54,000 hours
- Power Factor: > 0.95
- Total Harmonic Distortion: < 20% at full load
- Limited Warranty: 5years
- Microwave induction and Bluetooth control are optional
- Operating Temperature Range: -22°F to 104° F (-30°C to 40°C)

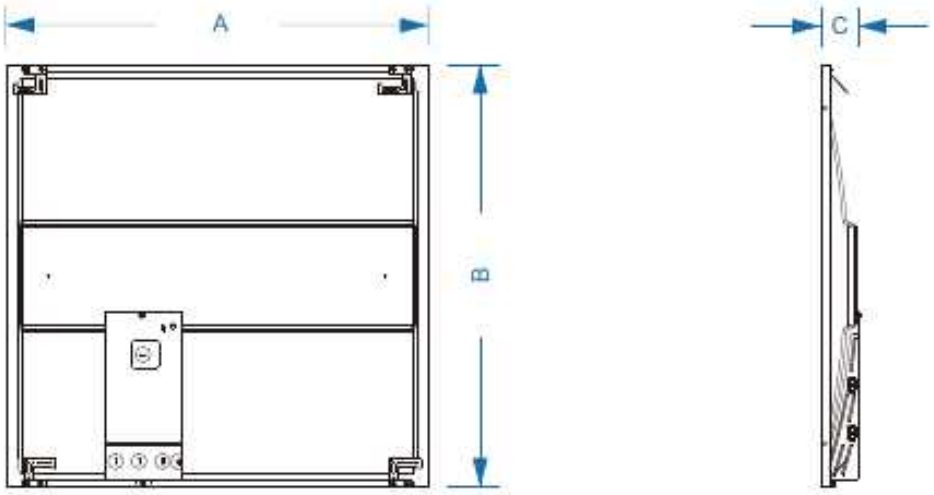
ORDERING INFORMATION

MODEL	SIZE	INPUT VOLTAGE	POWER (TUNABLE)	CCT (TUNABLE)	CRI	LUMINOUS EFFICIENCY	DIMMABLE	LIMITED WARRANTY
TTR5-22-40W-L-H	2x2 FT	120-277VAC	20W/25W/30W/35W/40W	3000K 3500K 4000K 5000K 6500K	Ra>80	130lm/W	0-10V	5 years
TTR5-24-72W-L-H	2x4 FT		30W/40W/50W/60W/72W					

FIXTURE SPECIFICATIONS

HOUSING	White high-strength metal frame,seamlessly
LENS ASSEMBLY	Polycarbonate diffuser prevents shadows and glare, while providinguniform illumination
MOUNTING	Recessed Installs into conventional grid ceilings
RECOMMENDED USE	Offices / Educational & Retail / Commercial & Institutional

PRODUCT DIMENSIONS

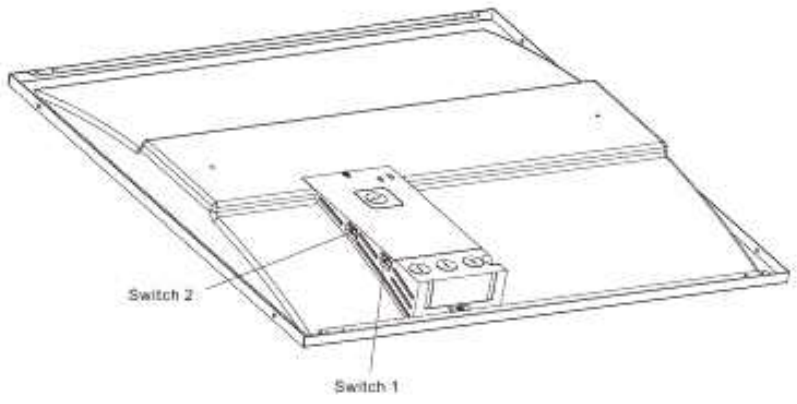


MODEL	SIZE	A(inch)(mm)	B(inch)(mm)	C(inch)(mm)
TTR5-22-40W-L-H	2x2 FT	23.74"(603mm)	23.74"(603mm)	1.97"(50mm)
TTR5-24-72W-L-H	2x4 FT	47.75"(1213mm)	23.74"(603mm)	1.97"(50mm)

LUMINAIRE AND ELECTRICAL PERFORMANCE

OPERATING TEMPERATURE RANGE	ESTIMATED LIFETIME @ 25˚C (77˚F)	POWER FACTOR	TOTAL HARMONIC DISTORTION	DIMMABLE
-22°F to 104°F (-30°C to 40°C)	54,000 hours	>0.95 at full load	<20% at full load	0-10V Dimming

POWER&CCT TUNABLE



POWER TUNABLE(SWITCH1)
2x2FT / 2x4FT

20W 25W 30W 35W 40W

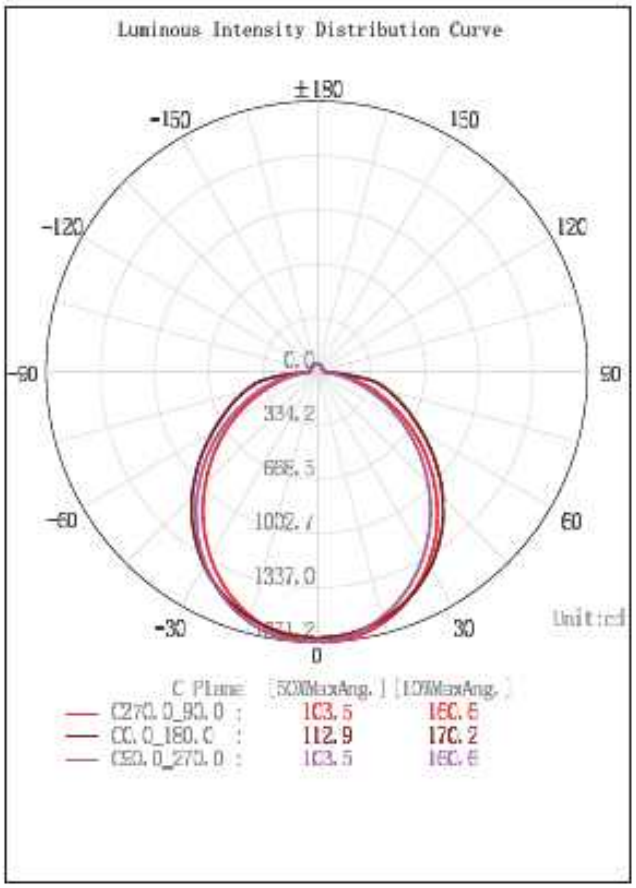
POWER TUNABLE(SWITCH1)
2x4FT

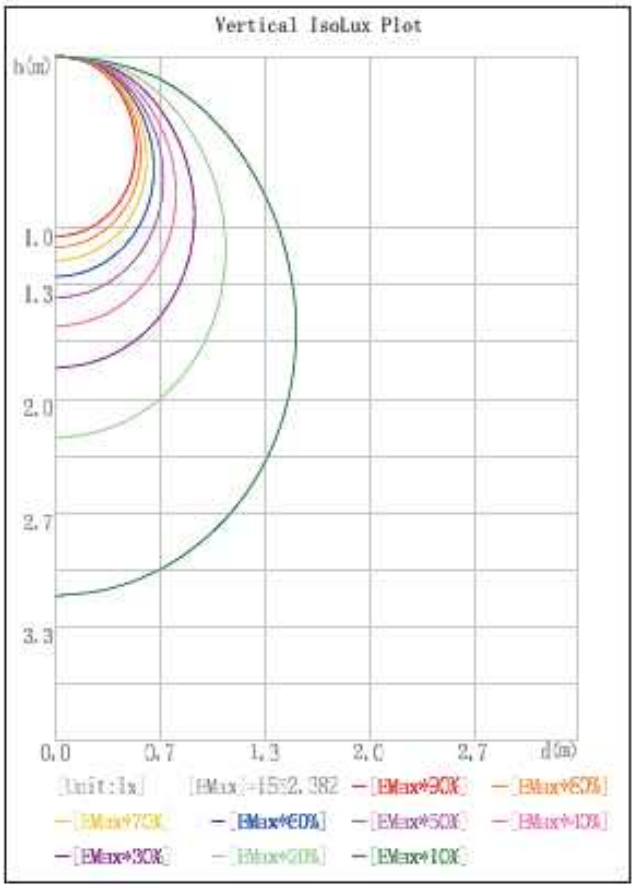
30W 40W 50W 60W 72W

CCT TUNABLE(SWITCH2)
2x2FT / 2x4FT

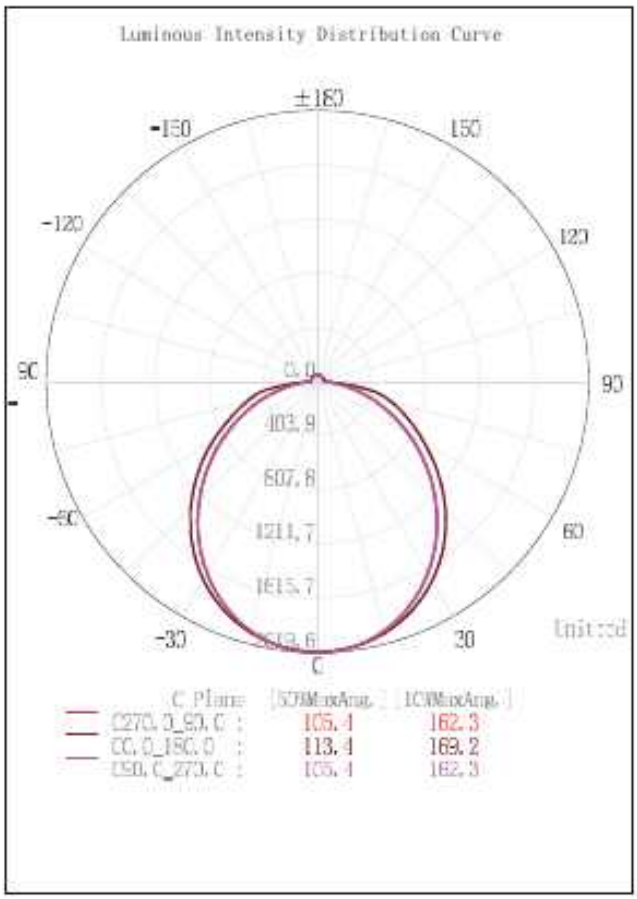
3000K 3500K 4000K 5000K 6500K

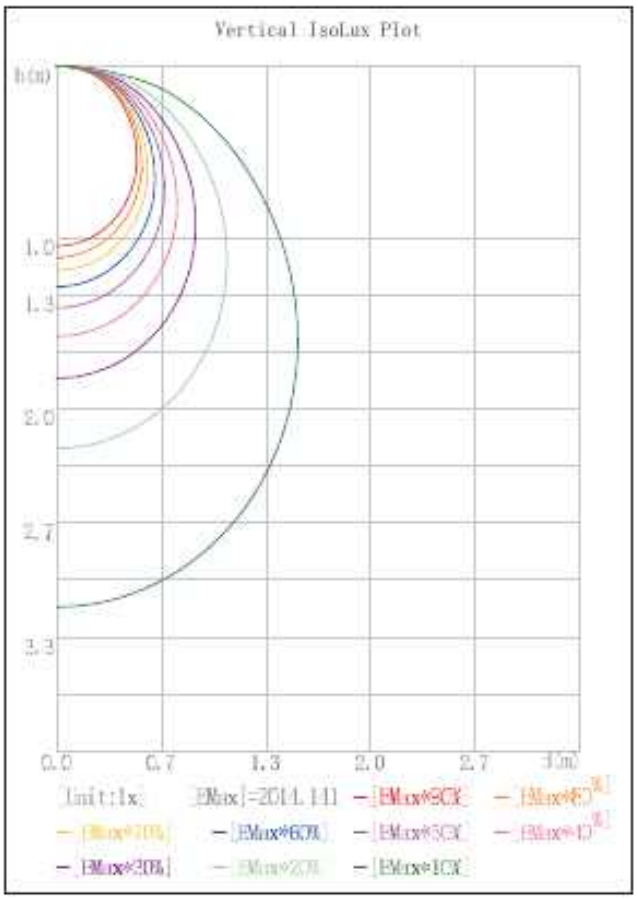
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM(2x2FT)





LUMINOUS INTENSITY DISTRIBUTION DIAGRAM(2x4FT)





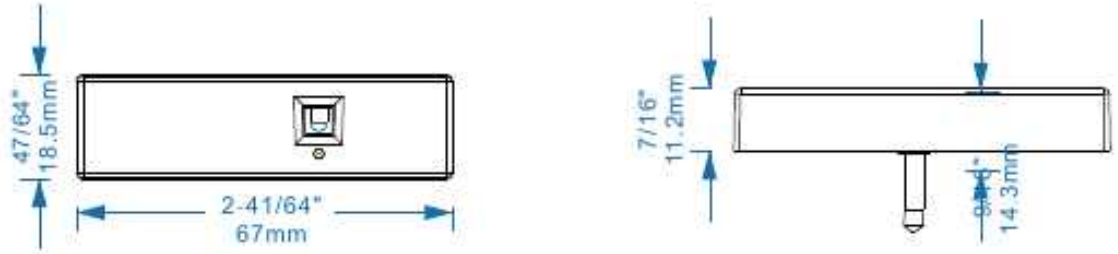
ACCESSORIES (OPTIONAL)

	**MICROWAVE MOTION SENSOR | PLUG & PLAY** Model: HD08VR-MA-1 **INFRARED REMOTE CONTROL** Model: HD05R
	**MICROWAVE MOTION SENSOR | PLUG & PLAY** Model: HD08VR-MB-1(APP CONTROL)

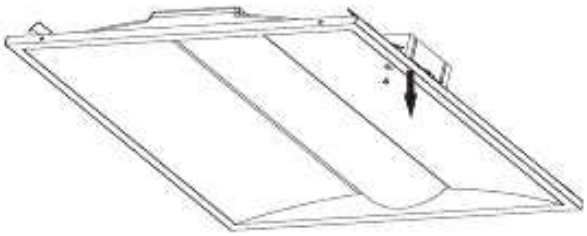
MICROWAVE MOTION SENSOR PARAMETERS

FREQUENCY	5.8GHz±75MHz
MICROWAVE POWER	<0.3mW
INSTALLATION HEIGHT	6m/19.68ft Max
DETECTION DISTANCE	≥3m/9ft
DETECTION ANGLE	30-150°
DETECTION AREA	25% / 50% / 75% / 100%
HOLDTIME	*Remote control Options*: 5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min *APP Control Options*: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/25min/ 30min/ 45min/ 60min/ 90min/ 120min
DAYLIGHT THRESHOLD	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux/10Lux/2Lux
STANDBY DIMMING LEVEL	10% / 20% / 30% / 50%
STANDBY PERIOD	*Remote control Options*: 0s/ 10s/ 30s/ 1min/ 5min/ 10min/ 30min/ 60min/ + ∞ *APP Control Options*: 0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/25min/ 30min/45min/60min/ + ∞
DUSK/DAWN SENSING/PHOTOCELL	Daylight threshold as 30lux/50lux/80lux/120lux/200Lux/250Lux/300Lux/350Lux/400Lux
	Standby period as + ∞
	Standby dimming level as 10% / 20% / 30%
DUSK/DAWN SENSING/PHOTOCELL	1. Adjust "daylight" value higher than 50lux
	2. Preset "standby period" 0S
	3. press MW/PIR button 3 times till MW/PIR icons both blickingon LCD screen, daylight harvesting function enabled.(With BLE verison, press DH button, daylight harvesting function enabled.)
WIRELESS CONTROL RANGE	>20m/65ft(bluetooth)
APP DOWNLOAD	Supported in both APP Store and Google play market
WORKING TEMPREATURE	-40°F—140°F(-40°C—60°C)
STORAGE TEMPREATURE	-40°F—176°F(-40°C—80°C) Humidity:85%(non-condensation)

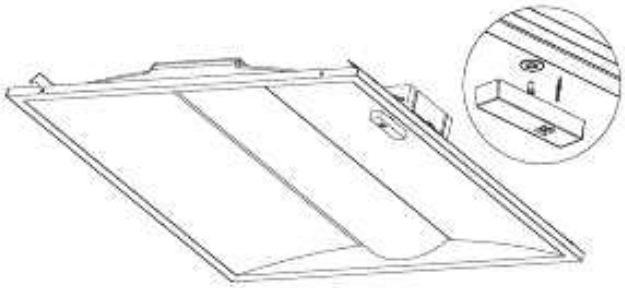
MICROWAVE MOTION SENSOR DIMENSIONS



MICROWAVE MOTION SENSOR INSTALLATION



Step1: Remove the plastic plug



Step2: The sensor can be inserted into the aligned base

REMOTE CONTROL BUTTON FUNCTION INTRODUCTION



ON/OFF	Turn ON or OFF the sensor
NW/PIR	Exchange from Microwave detection to PIR detection, for future use
Reset	Press it to start detection programming; before pressing any otherbuttons, the screen shows default programming (Detection Area 100%,Holdtime 5S, Daylight Disable, Standby Dimming 10%, Standby Period 0S)
Start	Press it before you try to memorize program into the remote, Afterpressing it, S on the screen will blink and keeping blinking while makingthe program
Memory	Press it after programming, the blinking S will become a solid M, thatmeans the program has been well memorized
Apply	Press it to deliver the preset program to the specific sensors; every presswill make the whole screen blink gently
Detection area	Also known as "sensitivity", 100% means the highest sensitivity andlongest distance. Press it, specific icon on the screen will blink and pressthe + - buttons to adjust
Hold time	The period that light will stay illuminated 100% after no motion'sdetected; Press it, specific icon on the screen will blink and press the +- buttons to adjust
Daylight Threshold	The preset lux level to compare with ambient brightness when motiongets detected; Press it, specific icon on the screen will blink and pressthe + - buttons to adjust
Stand-by period	The period after holdtime, during which the light keeps standbydimming level; Press it, specific icon on the screen will blink and pressthe + - buttons to adjust
Stand-by dimming level	After holdtime, the light will dim from 100% to optional standby dimminglevels; Press it, specific icon on the screen will blink and press the + -buttons to adjust
UP	The main functional buttons to adjust the factors to wanted level
DOWN	
POWER	Supports to manually change dimming output in detection mode; Pressit, specific icon on the screen will blink and press the + - buttons toadjust
Test mode	Supports to check if the sensor works correctly with a short 2S holdtime;Press it and the holdtime will change to 2S, and it can't be memorized

APP OPERATION INSTRUCTIONOF SMART SENSOR

APP DOWNLOAD

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

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





CREATE PROJECT

The app is specially designed forindustrial project application, not onlyto control the SMART SENSORs butalso HAISEN's Emergency Driver.It requires you to start a new project firstbefore going on add or control devices.





MANAGE PROJECT

Press the left top icon, all the projects willbe shown, you can select or manage them.

APP OPERATION INSTRUCTIONOF SMART SENSOR

ADDING



CREATE PROJECT

Adding New DeviceNew Group/Scenes.



ADDING NEW DEVICE

The app will automatically search the ready sensors inthe connection area, list themand wait for yourconfirmation on adding.



ADDING NEW GROUP

The app will show all the devices that canbe added into a group



ADDING SCENES

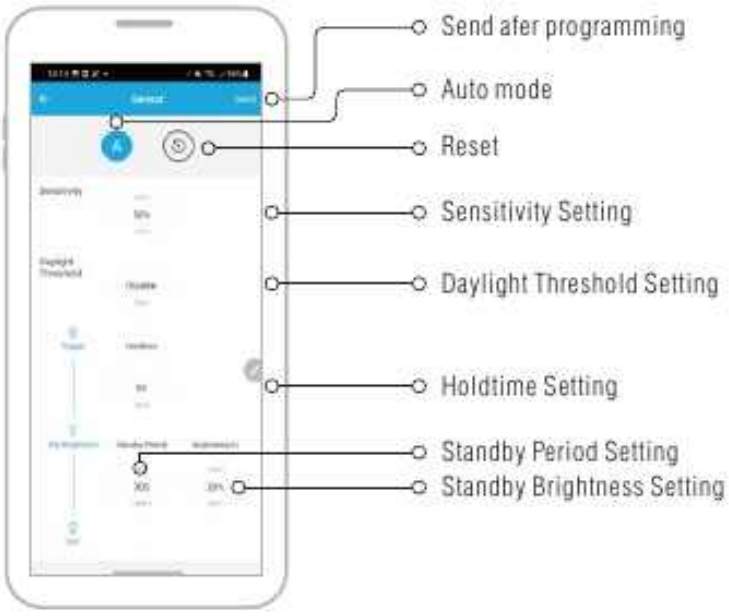
The app will lead you to edita scene with required taskand save it as a new name.

CONTROL

Select the sensor or group to control it



CONTROL PAGE -1



CONTROL PAGE -2

APP OPERATION INSTRUCTIONOF SMART SENSOR

HIGH-END TRIM

High-end Trimming is a very practical function for customers who prefer to have less than 100% brightness everytime the sensordetects 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

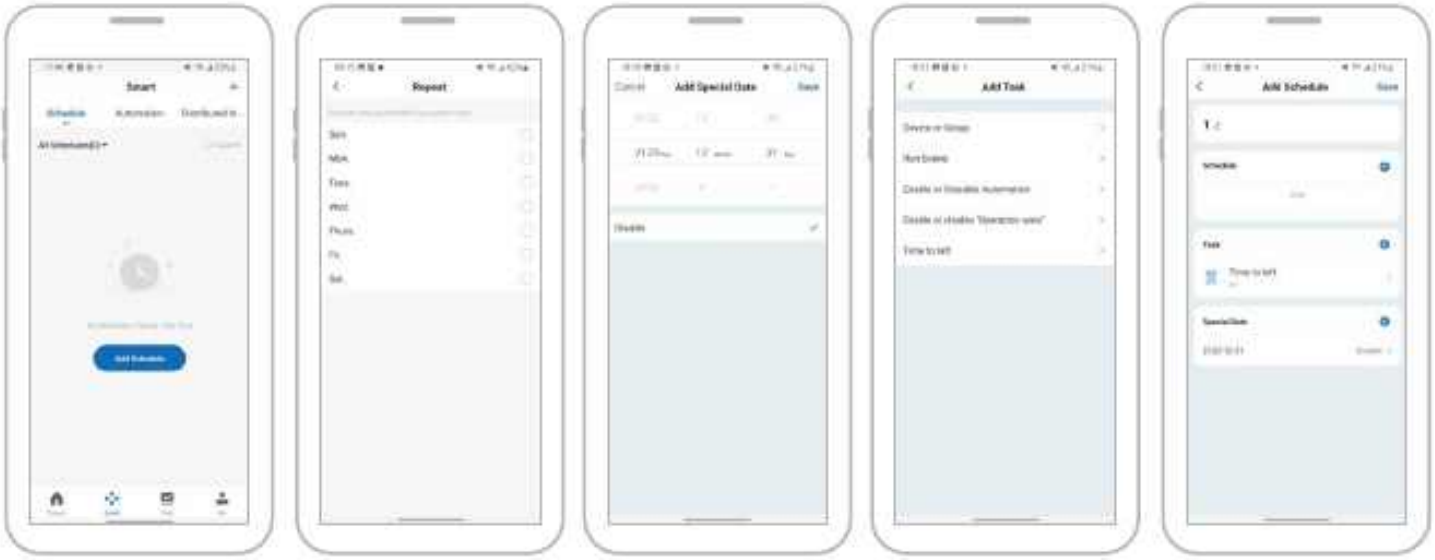
- Press "sensor" at the bottom center and start making a program, daylight must be chosen higher than 50lux, meanwell the standby period should be 0S
- After setting, the sensor works as dimming to only 76% everytime it detects motion

APP OPERATION INSTRUCTIONOF SMART SENSOR

SMART

This app allows customer to make different schedules,set necessary working conditions and work it automatically.

Please follow below steps.



ENERGY MONITORING

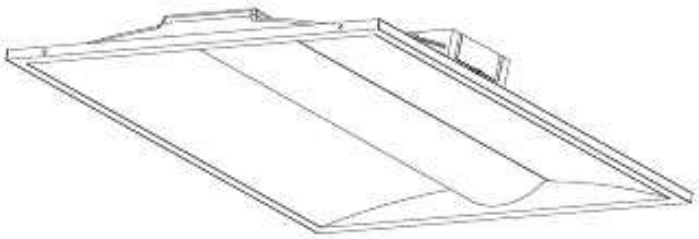
This app supports to monitor energy consumption andautomatically generates data in "DATA" arae.

Please follow below steps.



INSTALLATION INSTRUCTIONS

CAUTIONS



IMPORTANT SAFEGUARDS

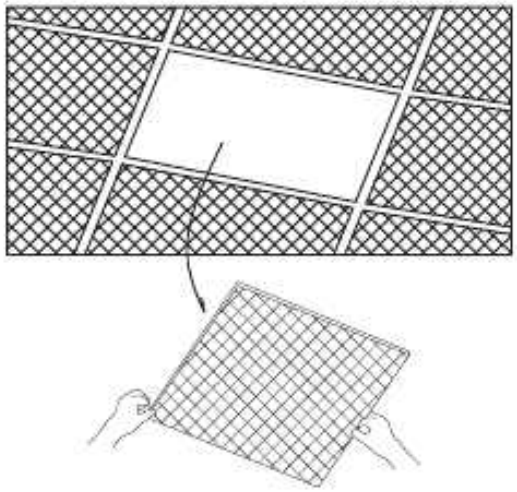
When working with electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALLSAFETY INSTRUCTIONS

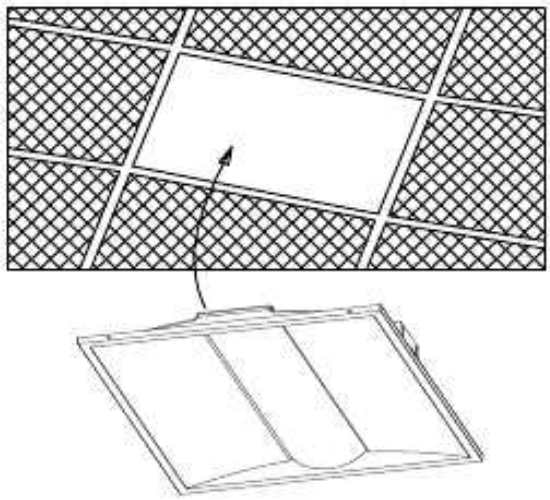
1. DANGER- Bisk of shock- Disconnect power before installation.
2. This luminaire must be installed by the NEC or your local electrical code.
   If you are not familiar with these codes and requirements, please consult a qualified electrician.
3. Suitable for conventional grid ceilings.
4. Make certain power is OFF before starting installation or attempting any maintenance.
5. Do not touch the LEDs or wires coming from the circuit board during the installation process. Damage may occur.

Installation Procedure

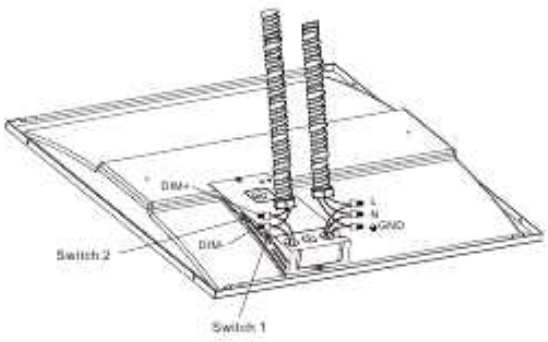
Step1: Remove 2x2 or 2x4 or 1x4 the from celling



Step2: Place fixture into ceiling grid

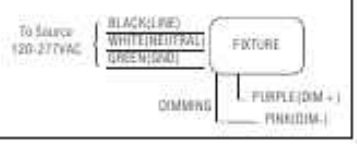


Step3: Follow the luminaire wiring diagram to wire the appliance correctly

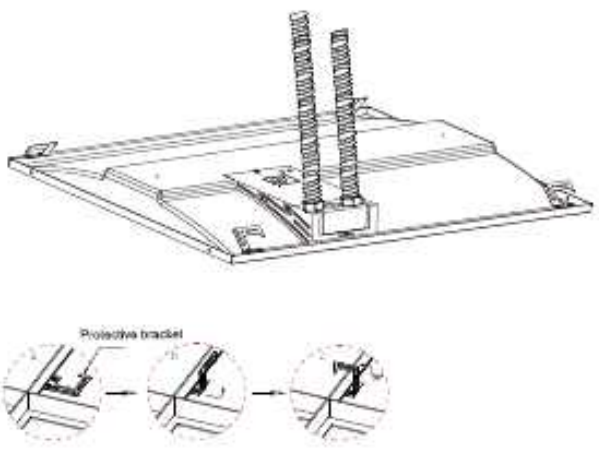


Wall Tunable Switch1
5 different power:
2*2FT: 20W-25W-30W-35W-40W
2*4FT: 30W-40W-50W-60W-72W

CCT Tunable Switch2
3000K-3500K-4000K-5000K-6500K



Step4: Pull the switch to the appropriate gear,Fixed wire hose on the panel, Theninstallation is completed



PACKAGING INFORMATION

PACKAGING/WEIGHT

PART NO.	SIZE	OUTER CARTON SIZE (L*W*H)	QTY/CARTON (PCS)	NET WEIGHT (KG)(LBS)	GROSS WEIGHT (KG)(LBS)	20GP (PCS)	40HQ (PCS)
TTR5-22-40W-L-H	2x2FT	613*220*625mm 24.13"*8.66"*24.6"	4 pcs	8.1kg 17.86lbs	10kg 22.05lbs	1308	3040
TTR5-24-72W-L-H	2x4FT	1223*220*625mm 48.15"*8.66"*24.6"	4 pcs	17.5kg 38.58lbs	20.5kg 45.19lbs	600	1544

PACKAGING

