hykolity

LEO SERIES
LED LINEAR HIGH BAY LIGHT

BRIGHT   TRUSTED   HIGH-QUALITY

LEO series LED Linear High Bay Light

Linear High Bay Fixture, x2 V Hook, x2 Linked Chain

DIMENSION(2ft&4ft)

L*W*H: 23.98*11.81*1.57 in

1.57 in

11.81 in

23.98 in

L*W*H: 46.06*11.22*1.57 in

1.57 in

11.22 in

46.06 in
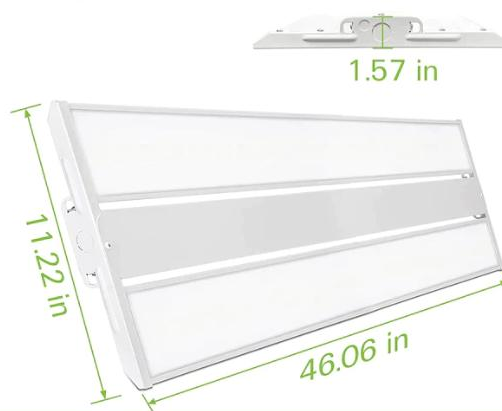
ADVANTAGE

➢ UL cUL certificate.
➢ Lumileds Chip, high CRI.
➢ Input voltage 120-277VAC.
➢ Output constant current lever can be adjusted through output cable with 0-10V.

➢ No UV or IR in the beam.
➢ Easy to install and operate.
➢ Energy saving, long lifespan.
➢ Light is soft and uniform, safe to eyes.
➢ Instant start, NO flickering, NO humming.
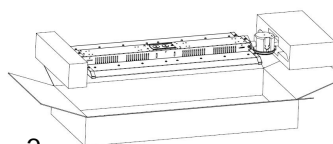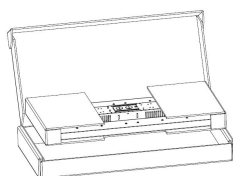➢ Green and eco-friendly without mercury.

APPLICATION

➢ Warehouse, factory and workshops;
➢ Exhibition hall and supermarkets, etc.

PACKAGE

2FT-150W	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor)	26*12.6*2.6IN	1 PC	5.3LBS/PC	7.5LBS

Tolerance of Carton Size: ±0.6in, Tolerance of Weight: ±10%.

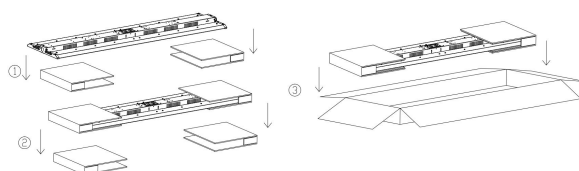# LEO series LED Linear High Bay Light

4FT-250W	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor)	47.4*13.2*3.15IN	1 PC	10.4LBS/PC	14.8LBS

4FT-300W	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Outer box (No Sensor)	47.4*13.2*3.15IN	1 PC	10.6LBS/PC	15LBS

Tolerance of Carton Size: ±0.6in, Tolerance of Weight: ±10%.

SPECIFICATIONS

Color Temperature	5000K		
Wattage	150W	250W	300W
Lumen	19500 LM	31250 LM	37500 LM
Efficacy	130 LM/W	125 LM/W	125 LM/W
CRI	>80		
Color Consistency	＜6 Steps (or ＜6 SDCM)		
UGR	＜30 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%)		
Diffuser Type	Frosted Lens		
Beam Angle	105 Degree		
Input Voltage and Frequency	120-277VAC, 50/60Hz		
PF (Tolerance : -3%)	≥0.9		
THD (Tolerance : +5%)	≤20%		
Flicker Percent	≤5%		
Mount Type	Hanging		
Driver Surge protection	L/N-PE: 6kV, L-N: 6kV		
Dimming	0-10V continuous dimming (min. Dimming range <10%)		
Sensor Type	Daylight Sensor,Occupancy Sensor,Multifunction Sensor		
Optional Accessory	AC Motion Mircowave sensor; Emergency Power(9W/90min)		
Included Components	Linear High Bay Fixture, x2 V Hook, x2 Linked Chain		
LED Type	SMD 2835		
Housing	IRON		
Housing Color	White		
Waterproof Rating	DAMP		
Operating Temperature	-22°F ~ 122°F		
Certification	UL listed		
Lifespan	>50,000 Hours		
Warranty	5 Years		

LED Linear High Bay
Installation Instruction

Cautions:

1. Do not use any electric generator to test the LED light.
2. Please abide by related country, regional and local law and regulations when installing this fixture.
3. Please turn off the power before installation or maintenance.
4. Proper earth grounding is required to ensure safety.

Notice:

1. To avoid possibility of electrical shock or fire, the installation personnel must have professional electric knowledge.
2. Please wear gloves to avoid injury before installation.
3. If any smoke or spark of the wire happened, please turn off the power immediately and notify relevant personnel.
4. Please use listed strain relief bushing when connecting the supply cord to the outlet box.

Attention:

1. Please check if there is any damage during shipping. If so, please contact manufacturer timely.
2. Please read the installation instruction carefully to check whether all the accessories are complete. After confirmation, install the fixture according to installation steps.
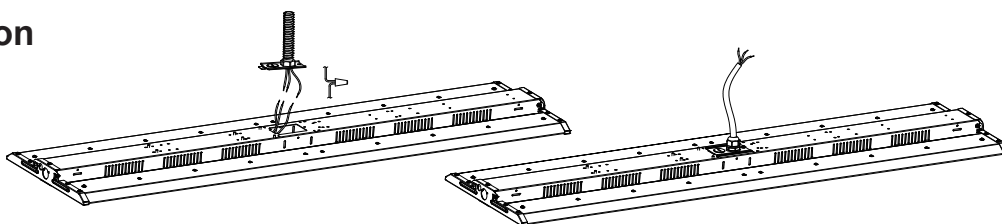
Wiring Diagram & Instruction:

3 dimming functions are available in this high bay light:
1. Constant current can be achieved by 0-10VDC dimming;
2. PWM signal dimming;
3. Variation of resistance unit dimming.

Description:
This product is 0/1-10V dimming,below dimmers are recommended:

Brand	Model
LUTRON	NTSTV-DV
LEVITON	DS710/ IP710
LEGRAND	RH4FBL3PTC

Wiring Instruction

L:Black,
N:White,
⏚ : Green/Yellow
DIM +
DIM -
(As for the wire color of DIM+ and DIM-, pls check the light label.)

Please choose the appropriate dimming way according to your needs. You can also choose not to use this function.
*The product can not be connected to a dimming device when it's equipped with Motion Sensor.

Three Installation：Chain/Cable Iinstallation，3/4"NPT Installation，Surface Mounting
(Please choose the most suitable installation method for the purchased product as per your needs)

LEO series LED Linear High Bay Light

A.Hanging Installation: (Chain/Cable)

Step1.Hook up the chain(Figure 1);
Step2.Connect the chain with fixture(Figure 1);
Step3. Fix the chain on the rail, adjust the chain length as per need(Figure 1);
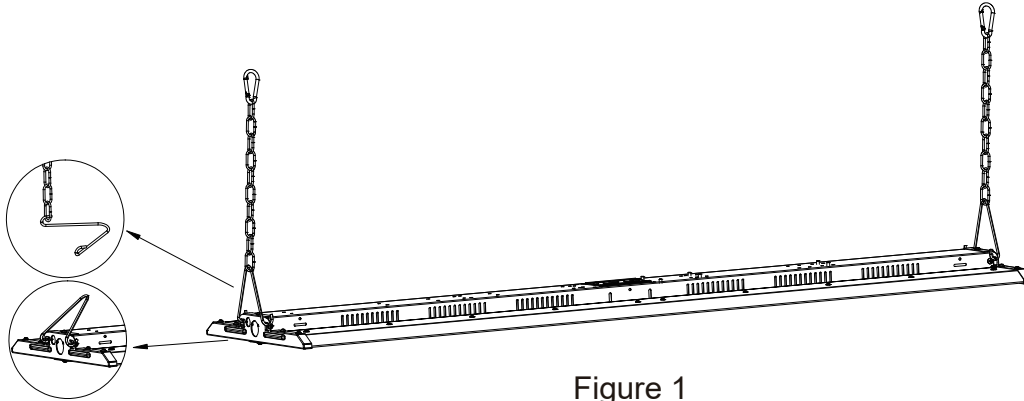Step4.After fixed , choose suitable wiring knock out, connect the wires according to local standard and code;

Figure 1

B.3/4"NPT Installation:

Step1.Mount the bracket on 3/4"NPT (Figure 2);
Step2. Lock fixture on the bracket (Figure 3);
Step3. Connect the wires according to local standard and code;
Step4 Lock side brackets with screw driver (Figure 4).
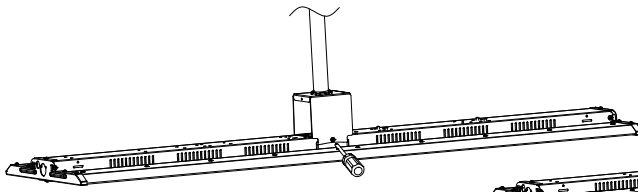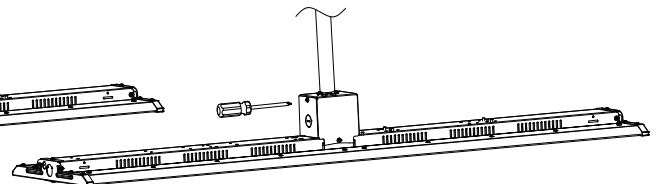
Figure 2   Figure 3   Figure 4

C.Surface Mounting:

Step1.Mount the bracket on the rail or ceiling (Figure 5);
Step2. Assemble the lamp on the bracket and fix it with screws (Figure 6);
Step3. After mounting, choose suitable wiring knock out and connect the wires according to local standard and code.
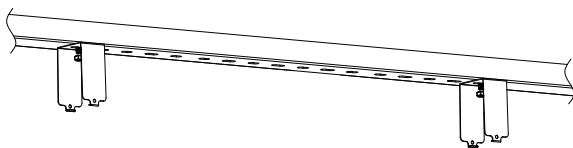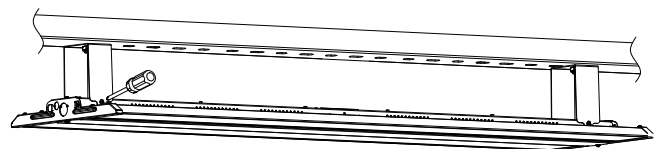
Figure 5   Figure 6

LEO series LED Linear High Bay Light

Extra Accessory Option Installation: 1:Wire Guard, 2:Motion Sensor / PIRSensor, 3: Backup driver

1.Wire Guard:(Purchase the correct size wire guard from manufacturer)

Step1. Unscrew the two screws on the front of the lamp(Figure 7);

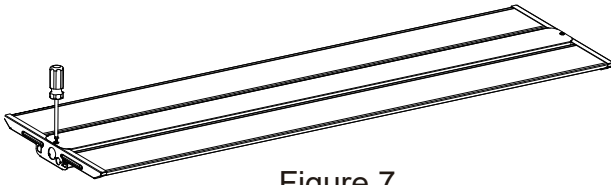Step2. Place the wire guard on the lamp and fix it with screws (Figure 8).
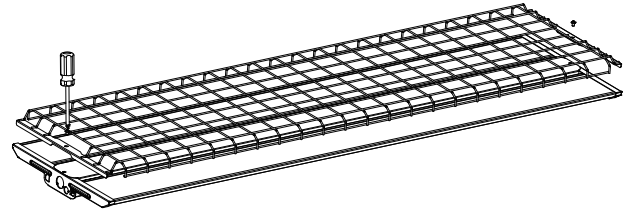

Figure 7

Figure 8

2. Motion Sensor / PIR Sensor:(Both sensor are with same installation)

Step1.Open the face cover with screw driver (Figure 9);

Step2.Knock out the side cover, mount the sensor on the side, do wiring accofing to instruction on sensor (Figure 10);

Step3.Put face cover back with screw driver (Figure 11).
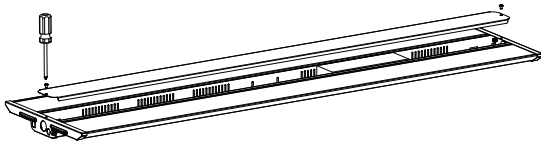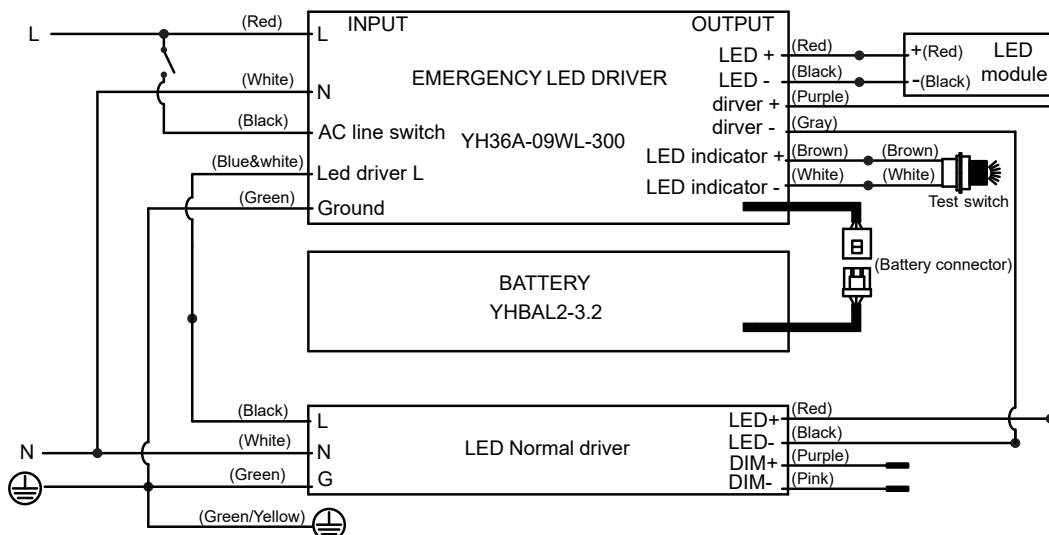

Figure 9
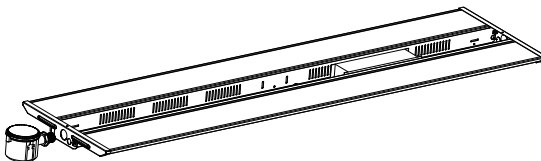
Figure 10
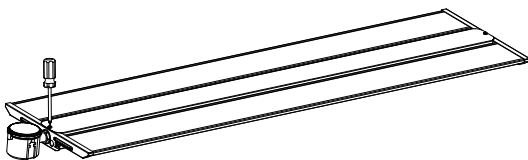
Figure 11

Wiring Instruction
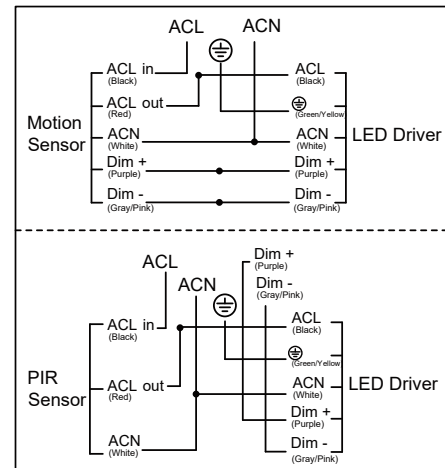
3: Backup driver

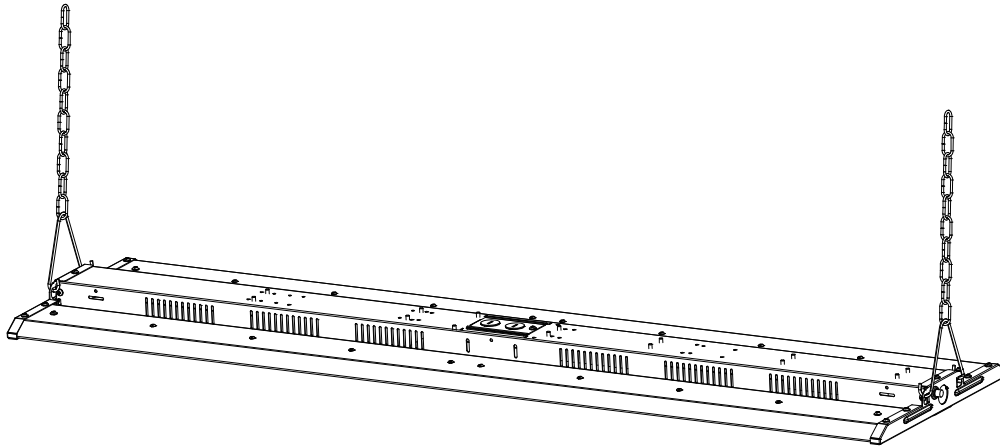Connect the wires according to the wiring diagram(Figure 12).

Figure 12

Warning / Avertissement

MIN 90 °C SUPPLY CONDUCTORS
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICA
BLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUC
TION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED
CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH
CIRCUIT CONDUCTOR

LES FILS D'ALIMENTATION 90 °C MIN
CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION
PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON
FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS
CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES
CONDUCTEURS DE LA DÉRIVATION SONT ADÉQUATS

CE ᶜ(ᵁᴸ)ᵤₛ FC

IP65 High altitude installation   DIP Switch

HD406VRH-D

- •5.8GHz microwave motion sensor with dimmable function.
- •Supporting different installation and applications, for surface mounting, traditional LED high bay with aluminium reflector, UFO highbay or linear/triproof high bay.
- •Max. installation height is 15m/49.21ft. •1-10V Dimming.
- •Remote control. •5 years warranty.

On/Off Control	Detection Area	Daylight Sensor	Hold Time
5 years Warranty	Stand-by period	Stand-by dimming level	

Technical Data

Operating Voltage	Detection Area	Motion Detection
120-277VAC,50Hz/60Hz	50%/100%	0.5~1.5m/s
Operating Temperature	Hold Time	Safety Standard
-35°C~+60°C	5s/30s/1min/5min/10min/20min/30min	EN61347-1 EN61347-2-13 EN60598-1
Stand-by power	Daylight Threshold	Mounting Height
≤1W	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable	Max.15m (49.21ft)
Microwave Frequency	Stand-by Period	Detection Range
5.8GHz±75MHz	0s/10s/30s/1min/5min/30min/+∞	Max.ø14m (45.93ft)
Microwave Power	Stand-by dimming level	IP Rating
<0.3mW	10%/20%/30%/50%	IP65
Switching Capacity		Warranty
Max,3.0A@120Vac,50/60Hz; Max,2.0A@277Vac,50/60Hz		5 Years
Control Method		
DIP Switche		

Factory Default Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/Stand-by period 0s/Stand-by dimming level 10%. Can be customized default programming.
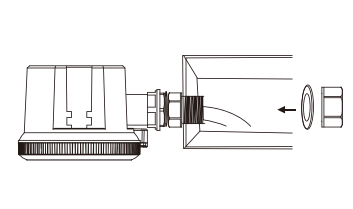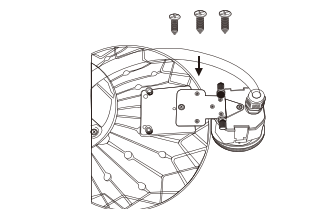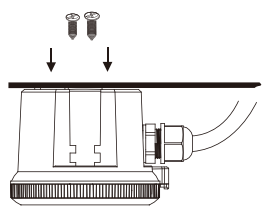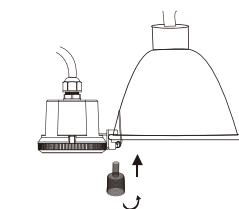
HAISEN®

Mechanical structure
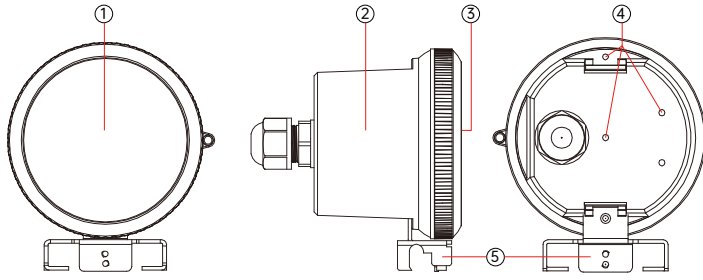
① Microwave Module
② Bottom Case
③ Upper Cover
④ Installation Hole
⑤ Mounting Bracket

Wiring Diagram

Shown-part length about **2.7FT**

L

N

N   L'   -   +
          1-10V
1-10V   LED   Driver

Load

Black	L
White	N
Red	L'
Pink	1-10V-
Purple	1-10V+
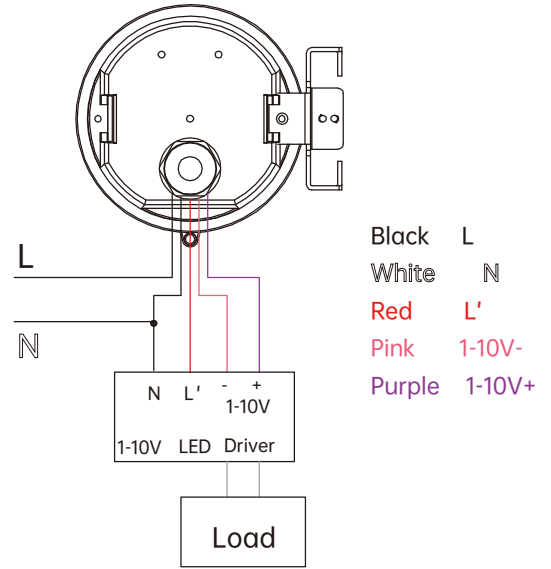
Installation Method

Unit:mm

A

B

C

D

ø21.5
2xø2.3
ø18
53.3
1.5

63.1
ø21.5
ø18
1.2
44

2*ø2.3
ø21.5
ø18.5
3*ø2.5

61.9
44
29

A

9.4

B
3xø2.5
2xø6
18   70   6
94

Screw		
	M6x25mm	x2

C
38   4xø3
6
25   44
77

Screw		
	M3x25mm	x3

D
ø80
0.8
1.2
M20
21
41

screw nut	Rubber pad	
		x2

90°

2xø6

Sensor & Intelligent Control

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Detection Patterns

Ceiling Mounted

0.5-1.0M/S

Wall Mounted
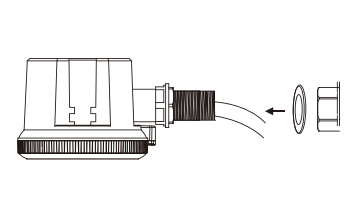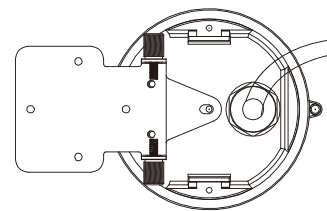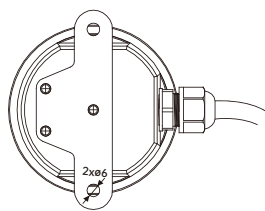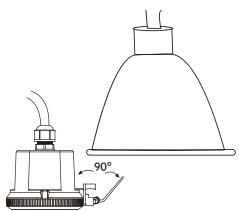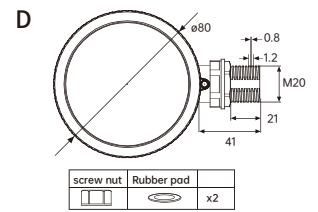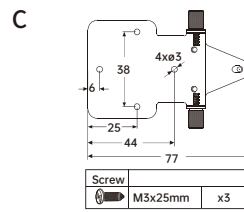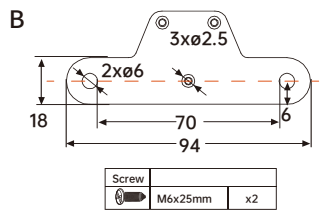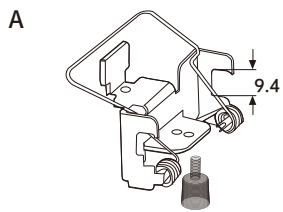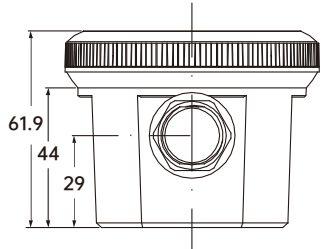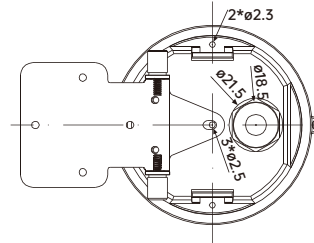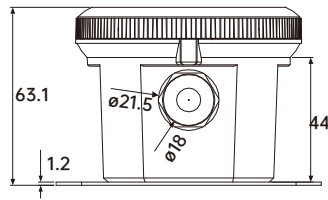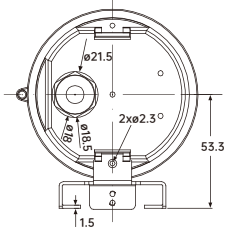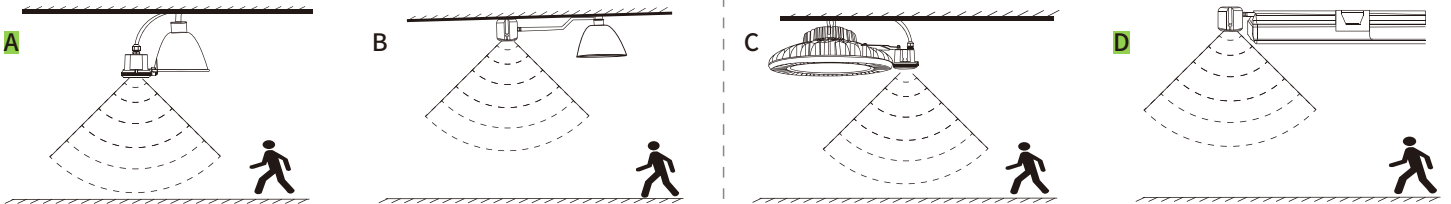
Highest mounting height is 15m

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

■ Well Detected Area   ■ Possibly Detected Area

DIP Switch Setting

● Switch UP
○ Switch DOWN

Stand-by dimming level

●	●	10%
●	○	20%
○	●	30%
○	○	50%

The definition of low output in the standby period.

Stand-by period

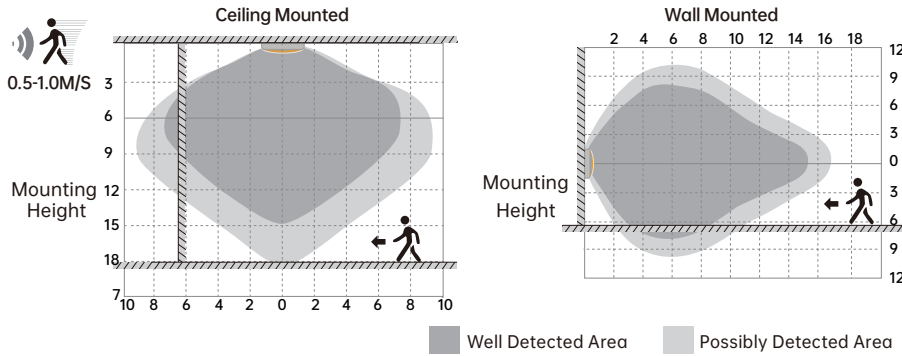|			
●	●	●	0s
○	●	●	10s
●	●	○	30s
○	○	●	1min
○	●	○	5min
●	○	○	30min
○	○	○	+∞

The period of light keeping low output before it's completely switched off. When it's preset as"∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

Daylight Threshold

●	●	●	Disable
○	●	●	120lux
●	●	○	80lux
○	○	●	50lux
○	●	○	30lux
●	○	○	10lux
○	○	○	2lux

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable",the sensor works everytime it detects motion regardless the ambient brightness.

Hold-Time

●	●	●	5s
○	●	●	30s
●	●	○	1min
○	○	●	5min
○	●	○	10min
●	○	○	20min
○	○	○	30min

The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

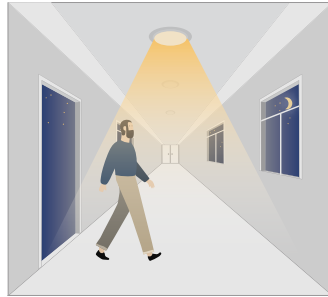|	
●	100%
○	50%

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitvity.

Sensor & Intelligent Control

Performance

1.Automatically ON/OFF function
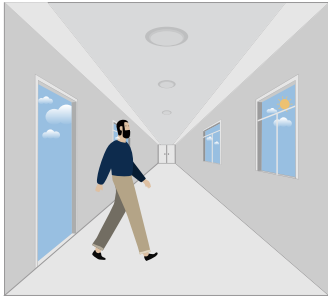
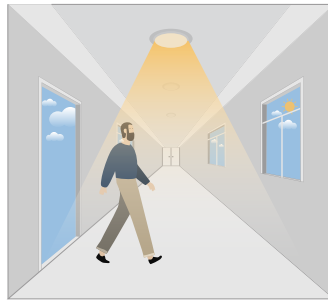With sufficient daylight, even when motion detected, light remains OFF.

With insufficient daylight, the sensor turns light ON when motion gets detected.
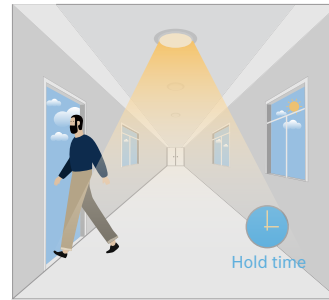
The sensor turns OFF light automatically after the holdtime when there's no motion detected.
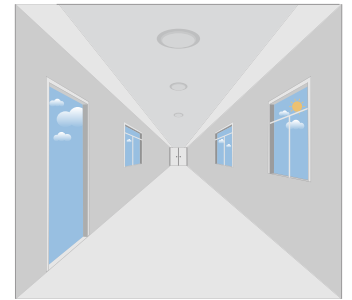
2.Daylight Disable

When daylight threshold is preset as "disable", the sensor turns light ON when motion gets detected, and OFF after holdtime.
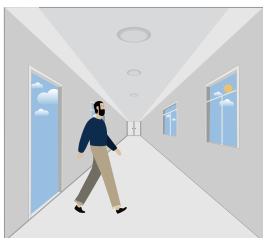

The sensor turns light ON when motion gets detected.

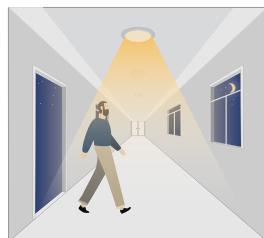The sensor keeps light ON for holdtime period after motion leaves.

The sensor turns OFF light automatically after the holdtime.

3.Corridor Function, Bi-level Dimmable

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

With insufficient daylight, the sensor turns light ON when motion gets detected.
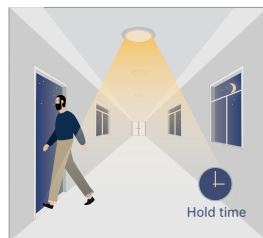
After there's no motion detected, the sensor keeps light ON 100% for holdtime.
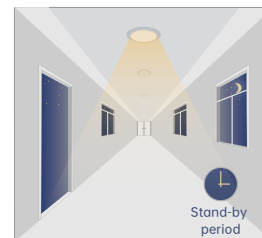
After holdtime, sensor dims light to standby dimming level for standby period.

The sensor turns OFF light automatically after the standby period when there's no motion detected.

Sensor & Intelligent Control

HAISEN®

Attention

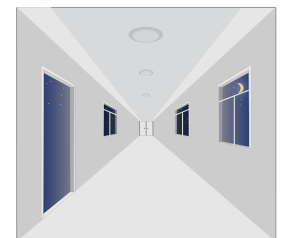1. Please read the instructions carefully before using this product and keep it well for all users to read at any time.

2. The sensor should be installed by qualified electrician and ensure power is off before the installation.

3. We reserve the right to modify any incorrect text, image and necessary technical parameters.

4. Any unauthorized modification is forbidden, otherwise all guarantees will be immediately invalid.

Installation precautions

1. Microwave sensor can be installed in any lamp except the one with full metal shell.

2. The detected surface cannot be shielded by metal objects.

3. Make sure the microwave module is completely exposed outside.

4. The detection surface of the sensor module shall be installed facing the detection area.

5. Should be kept away from the driver to avoid interference generation and lamp flashing.

6. Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.

Application Environment

1. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.

2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof).

3. Shall note be mounted installation, so as to avoid false trigger caused by the lamp itself shaking.

4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.

User Notes

1.Microwave can penetrate walls or glass thinner than <20mm and attenuate if thicker than <20mm.

2. The driver voltage shall be stable and float within 10%.

3. Detection area will be affected by speed of motion, mounting height and movement volume.

4. Conduct test on sunny days without the lampshade which will affect the tested lux value.

Sensor & Intelligent Control