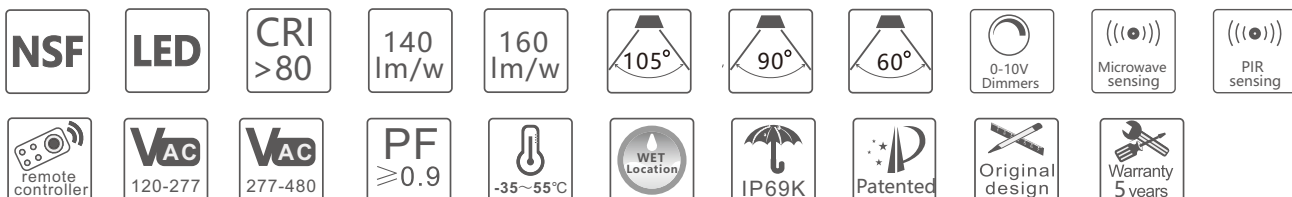# Cibay-F High Bay Light -UL Type

Description

Cibay-F series meets the NSF design requirements, the surface is smooth, convenient to wipe and clean.

It is IP69K protection, can be washed with water, meet the requirements for food factories, and can also

use in the places where require dust and water resistance. This series products have reserved sensor socket

that can install the sensors in 3 seconds, plug and play, no need wiring, hugely save labor costs. You can

easily get the function you need by insert the correspond sensors like Microwave, PIR, Bluetooth sensor etc.

Customers can easily install and replace sensors themselves, very convenient and practical.
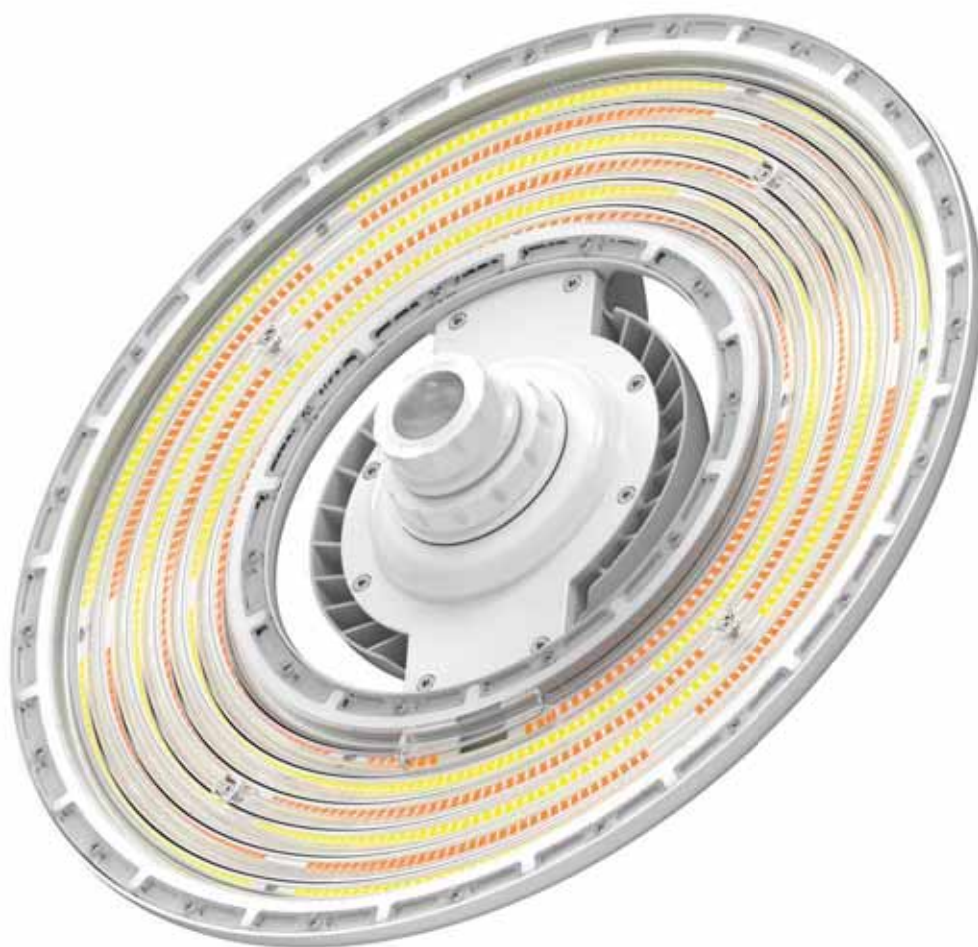
Feature:

1. Meet NSF design, can be used in food factory

2.IP69K protection design, suitable for more harsh environments that require dust and water resistance

3. Multifunctional and expandable interface, plug&play module, no need wiring, save labor costs.

4. High efficiency LED, multiple brightness levels optional.

5. UV-resistant PC material optics, IK08 impact resistance grade.

6. The LEDs are arranged symmetrically in a circle, so that heat source can be evenly distributed, have high

efficient heat conduction.

7. Working temperature: -40 ℃ ~ + 55℃.

8. Suitable for damp environment, slight corrosion-proof grade indoors.

9. Power tunable and CCT tunable.

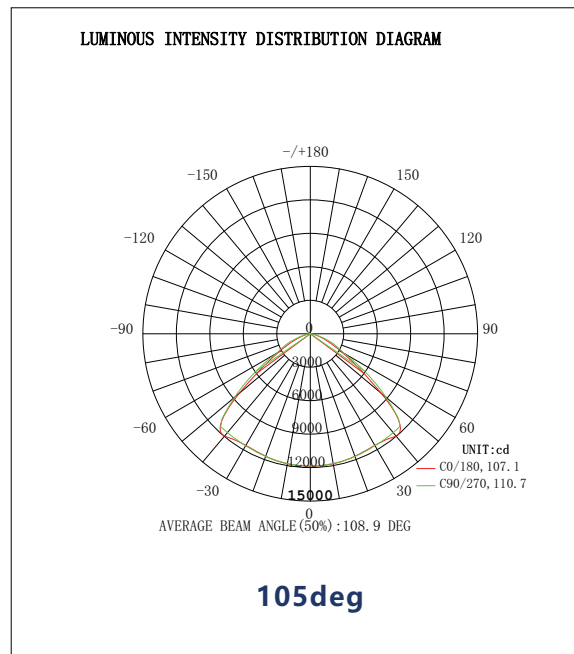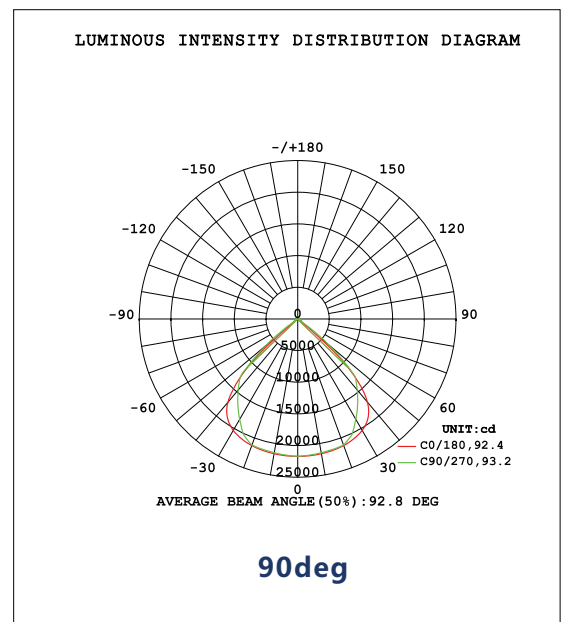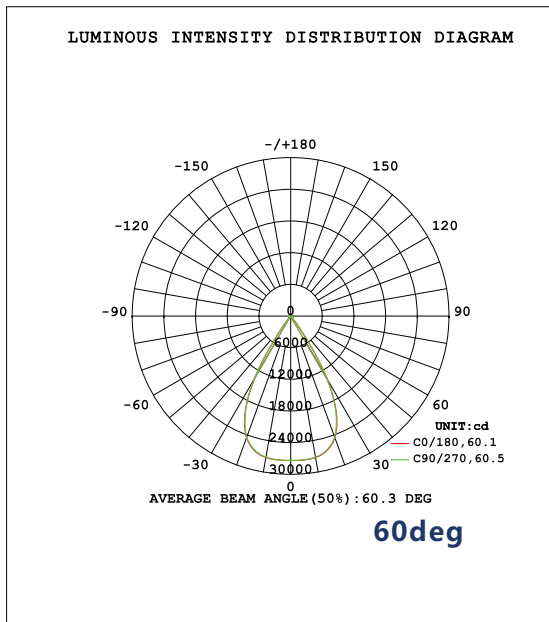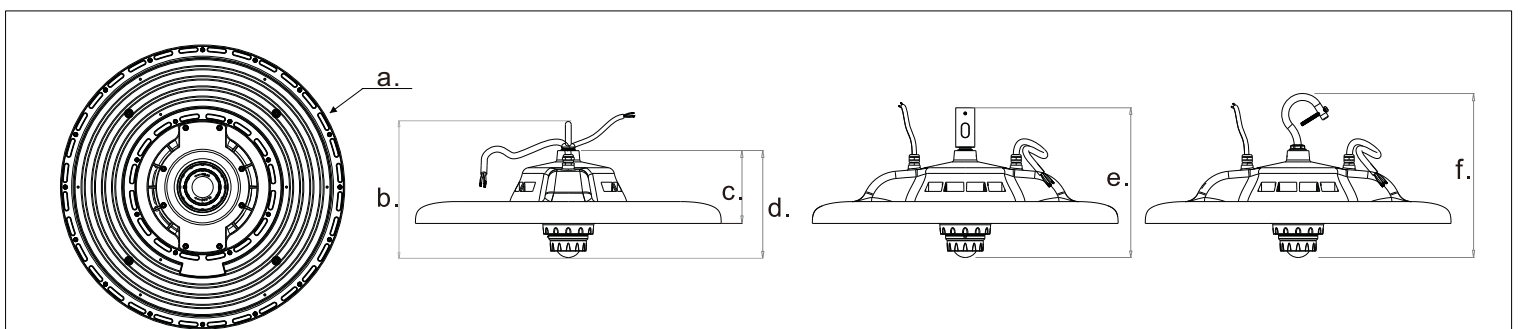| NSF	LED	CRI >80	140 lm/w	160 lm/w	105°	90°	60°	0-10V Dimmers	Microwave sensing	PIR sensing
remote controller	V AC 120-277	V AC 277-480	PF ≥0.9	-35~55℃	WET Location	IP69K	Patented	Original design	Warranty 5 years	

Application

Cibay-F high bay is applicable to food factory and other application where need to be waterproof, dustproof. This lamp is also be applied for large workshop, warehouse, parking lot, airport, basement.

Distribution Diagram

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180,60.1
C90/270,60.5
AVERAGE BEAM ANGLE(50%):60.3 DEG

60deg

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180,92.4
C90/270,93.2
AVERAGE BEAM ANGLE(50%):92.8 DEG

90deg

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180,107.1
C90/270,110.7
AVERAGE BEAM ANGLE(50%):108.9 DEG

105deg

Dimension(Unit:mm/inch)

Identification	150W	240W
a.	348mm,13.7"	421mm,16.57"
b.	190mm,7.48"	192mm,7.56"
c.	98mm,3.86"	100mm,3.94"
d.	150mm,5.90"	151.8mm,5.98"
e.	203mm,7.99"	204.8mm,8.06"
f.	230mm,9.05"	231.8mm,9.13"

Technical parameters

Model	CCT	Lumen(lm) 10%	Beam(angle°) 10%	LEDs type CRI	Power(W)	Voltage Frequency	Notes
CBF-150W-AW-50K-XXXX		21000	105°				
CBF-150W-AW-50K-XXXX	5000K	20700	90°				
CBF-150W-AW-50K-XXXX		20400	60°				
CBF-150W-AW-40K-XXXX		20700	105°			AW：120-277Vac 50-60Hz, Max1.8A	
CBF-150W-AW-40K-XXXX	4000K	20400	90°	SMD2835 CRI>80	150W		
CBF-150W-AW-40K-XXXX		20100	60°				
CBF-150W-AW-30K-XXXX		19500	105°				
CBF-150W-AW-30K-XXXX	3000K	19200	90°				
CBF-150W-AW-30K-XXXX		18900	60°				140Lm/W
CBF-240W-AW-50K-XXXX		33600	105°				
CBF-240W-AW-50K-XXXX	5000K	33300	90°				
CBF-240W-AW-50K-XXXX		32900	60°				
CBF-240W-AW-40K-XXXX		33200	105°			AW：120-277Vac 50-60Hz, Max2.7A	
CBF-240W-AW-40K-XXXX	4000K	32900	90°	SMD2835 CRI>80	240W		
CBF-240W-AW-40K-XXXX		32600	60°				
CBF-240W-AW-30K-XXXX		31200	105°				
CBF-240W-AW-30K-XXXX	3000K	30900	90°				
CBF-240W-AW-30K-XXXX		30300	60°				
CBF-150W-AW-50K-XXXX		24000	105°				
CBF-150W-AW-50K-XXXX	5000K	23700	90°				
CBF-150W-AW-50K-XXXX		23400	60°				
CBF-150W-AW-40K-XXXX		23700	105°			AW：120-277Vac 50-60Hz, Max1.8A	
CBF-150W-AW-40K-XXXX	4000K	23400	90°	SMD2835 CRI>80	150W		
CBF-150W-AW-40K-XXXX		23100	60°				
CBF-150W-AW-30K-XXXX		22500	105°				
CBF-150W-AW-30K-XXXX	3000K	22200	90°				
CBF-150W-AW-30K-XXXX		21900	60°				160Lm/W
CBF-240W-AW-50K-XXXX		38400	105°				
CBF-240W-AW-50K-XXXX	5000K	38100	90°				
CBF-240W-AW-50K-XXXX		37800	60°				
CBF-240W-AW-40K-XXXX		38000	105°			AW：120-277Vac 50-60Hz, Max2.7A	
CBF-240W-AW-40K-XXXX	4000K	37700	90°	SMD2835 CRI>80	240W		
CBF-240W-AW-40K-XXXX		37400	60°				
CBF-240W-AW-30K-XXXX		36000	105°				
CBF-240W-AW-30K-XXXX	3000K	35700	90°				
CBF-240W-AW-30K-XXXX		35400	60°				

CBF−XXX−XX−XXK−ZYYYY

Color * 1: Sand black; 2: Sand white; 3: Bright black; 4: Bright white
Power * 1-2: LIFUD (Wide voltage); 3-4: FAHOLD (Ultrahigh pressure)
Angle * 0: 105deg; 1: 90deg; 2: 60deg
Luminous efficiency * 0: 140lm/w level; 1: 160lm/w level;
Function * D: dimming; S: sensing; Blank: Nonfunctional
CCT * 30K(3000K)；35K(3500K)；40K(4000K)；50K(5000K)；60K(6000K)
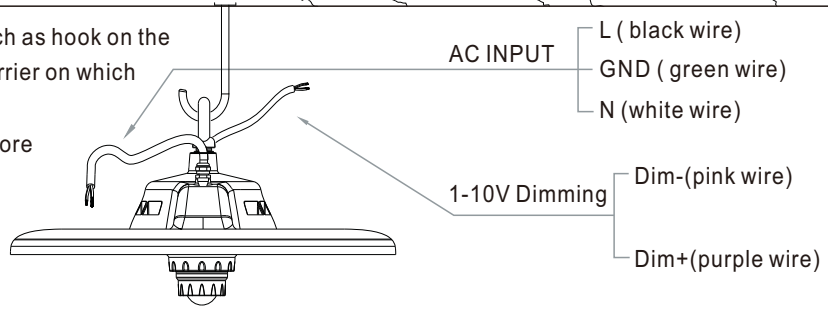Voltage * AW(120-277VAC);HV(277-480VAC)
Power * 150W；240W
Category * CBF HighBay Light

Product Installation

The lifting ring is applicable to pendant with opening such as hook on the ceiling, climbing button carabiner as well as pendant carrier on which an opening may be made.

1. Screw the lifting ring into the interface on light top before installation.
2. Tighten the auxiliary anti-falling screws at side of the interface.
3. Make the hook on the ceiling thread through the lifting ring and hang the light stably.
4. If the pendant has lock catch or anti-off device, they should be at effective state.

AC INPUT
L (black wire)
GND (green wire)
N (white wire)

1-10V Dimming
Dim-(pink wire)
Dim+(purple wire)

hook installation

pipe installation

Hook is applicable to be installed on sealed ring structure or pipes such as sealing hook, U-shaped circle hook, steel pipes or other carriers.

1. Screw the hook into the interface on light top before installation.
2. Tighten the auxiliary anti-off screws at side of the interface.
3. Loosen the sealing screws of the hook (the hook has an opening about 30mm).
4. Make the hook thread through the sealing ring and hang the light stably.
5. Tighten the sealing screws of the hook.
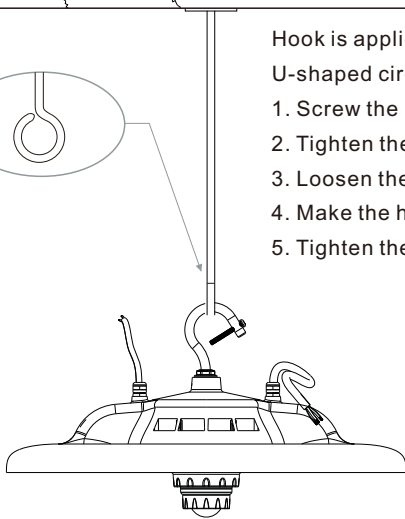
There are two types of adaptors for installation of corrugated pipe including 1/2NPT or 3/4NPT corrugated hose adaptors. As the installation mode of corrugated pipe is special, the supporting hose should meet the following characters :
a. reach the bearing requirements no matter it is hard pipe or flexible pipes.
b. The pipe opening has 1/2NPT or 3/4NPT threads.
c. The thread length of pipe should be <25mm. It is suggested about 20mm.
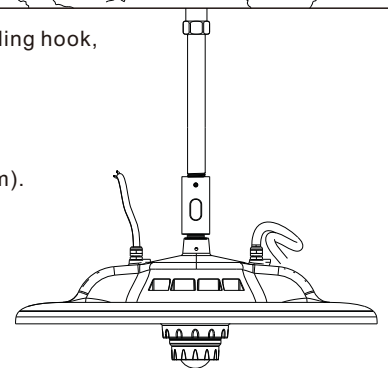
1.Use M10 hexagon socket head cap screws to fix the adaptor at top interface of the light.
2. If the wire goes through the pipe, thread the cable into pipe cavity from side hole of the adaptor.
3. Tighten the auxiliary anti-off screws at side of the interface.
4. Perform spiral connection between the threaded pipes and adaptor.
5. Tighten the auxiliary anti-slide screws on the adaptor.

NPT Screwed pipe
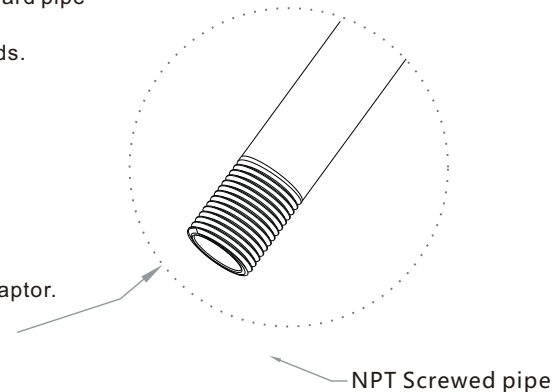
The power supply should be cut off during installation. If it is used in environment with vibration, the safety rope should be provided. In case of installation with lifting ring and hook, Can be extended by chain.Any installation mode should ensure that the carrier reaches effective bearing. The bearing capacity is four times or above of the total hung weight at least.
The disconnection of power supply should be kept for 30 minutes at least for maintenance to prevent scalding by high heat.
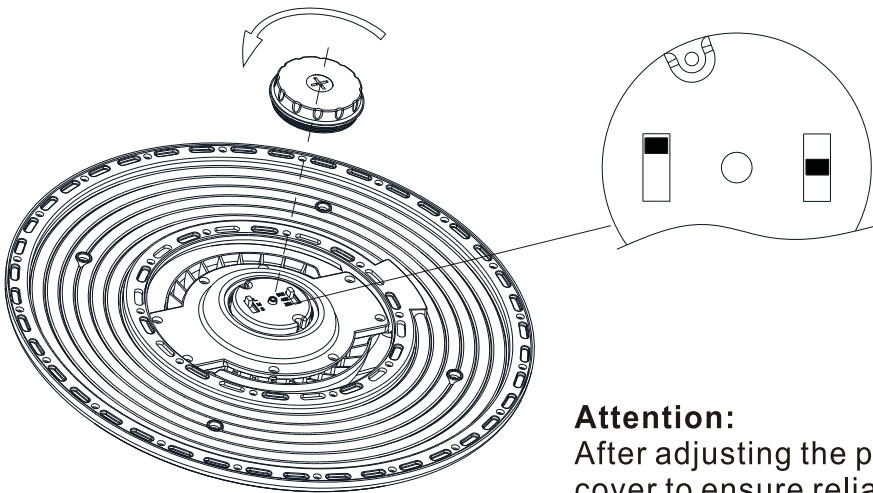
Sensor installation

MICROWAVES CANNOT PASS THROUGH METAL OR BRICK WALLS IF THICKER THAN 20CM. THEY WILL PASS THROUGH THINNER WALLS BUT THERE WILL BE SOME ATTENUATION.
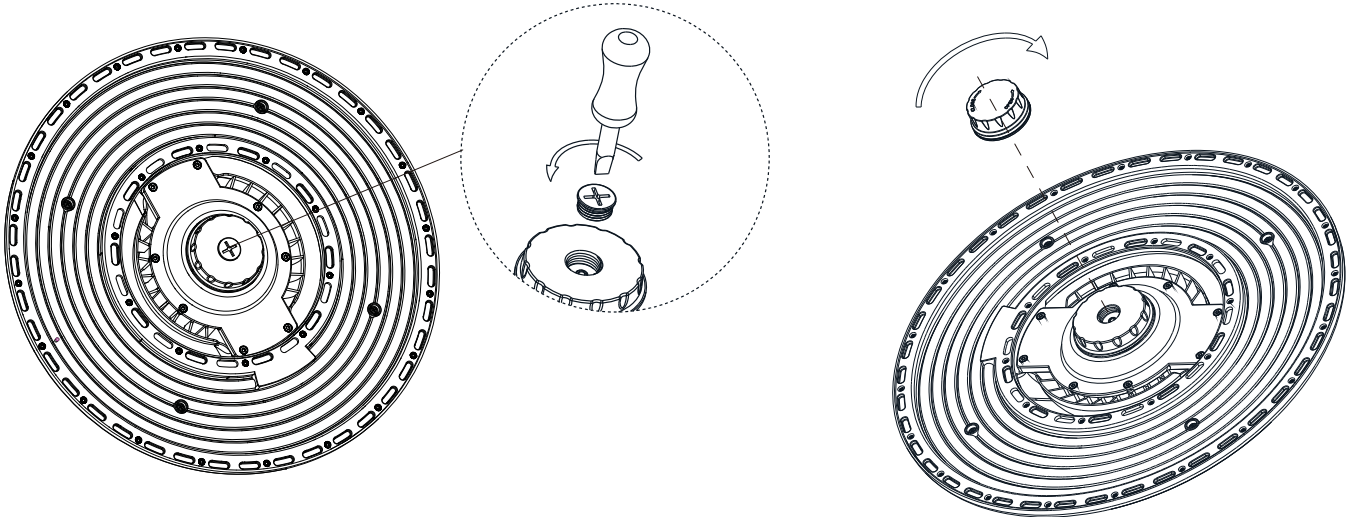
1.Unscrew the plug counterclockwise.

2.Tighten the sensor clockwise
(make sure the sealing ring is present)

Power and CCT tunable
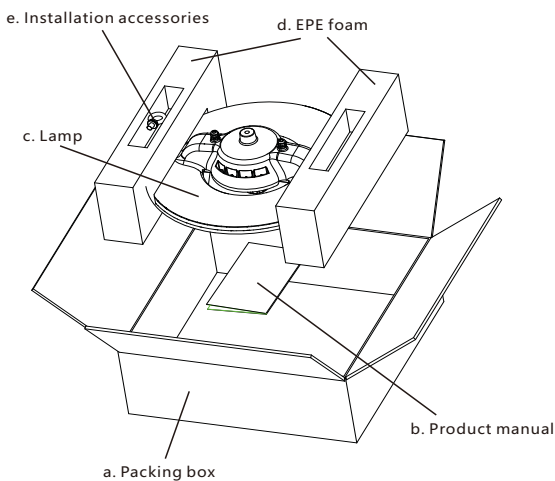
Power tunable:

L :100%

M :customizable

S :customizable

CCT tunable:

CW:5000K

NW:4000K

WW:3000K

Attention:
After adjusting the parameters, don't forget to install the cover to ensure reliable waterproofing.

Package information

e. Installation accessories

d. EPE foam

c. Lamp

b. Product manual

a. Packing box

Standard product- AC Input Wire 0.4m
Standard product- Dimming Wire 0.4m

Power	240W	150W
Net weight	3.9Kg	3.0Kg
Box dimension	500*500*165mm	430*430*165mm
Pack Quantity	1pcs	1pcs
Gross Weight	5.00Kg	4.0Kg

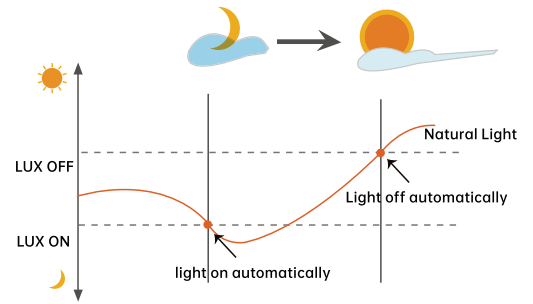| Identification	Quantity
a. Packing box	1pcs
b. Product manual	1pcs
c. Lamp	1pcs
d. EPE foam	2pcs
e. Installation accessories	1pcs

Motion-sensing Function

These sensor is able to differentlate artificial light brightness from natural light after installed inside the fixture,and oumatically turn off light when ambient britness 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

LUX OFF
LUX ON
Natural Light
Light off automatically
light on automatically

1. With Dusk/Dawn function

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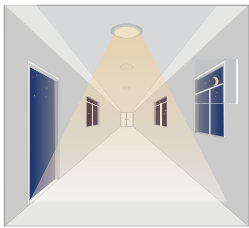
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.
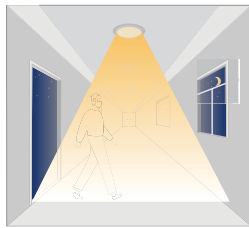
When sensor detects motion or presence it will bring the light level up to 100%.

After motion is no longer detected,fixture remains at 100% for hold time.
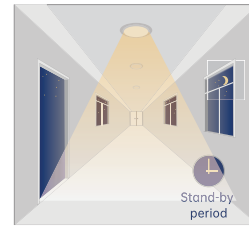
After pre-set hold time period it will dim light to standby dimming level again and always keep it.
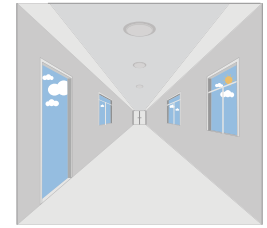
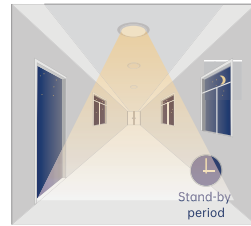With sufficient ambient brightness, sensor will turn OFF light automatically.

2. With daylight disabled
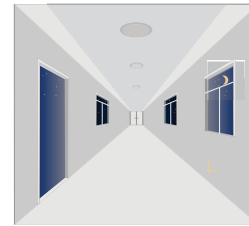
Hold time
Stand-by period

Sensor turns ON light when motion is detected.

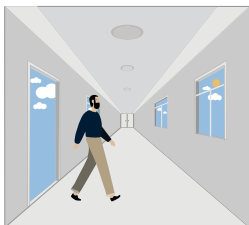Sensor keeps for a hold time period after motion leaves

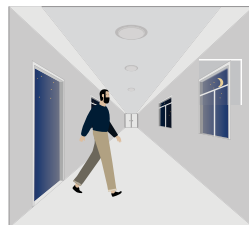Sensor dims light to standby dimming level after hold time if there is still no motion

Sensor turns OFF light after standby period

3. With Daylight Threshold
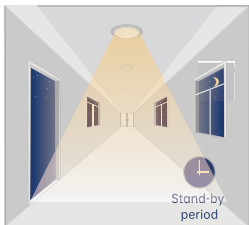
Hold time
Stand-by period

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 automatically after holdtime.

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

Attention

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.

2. Please read the instruction carefully before using the product and keep it well for other users to read any time.

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

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

5. Product could be optimized without prior notice.
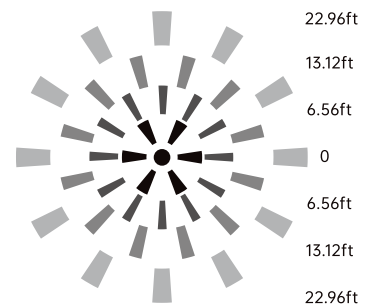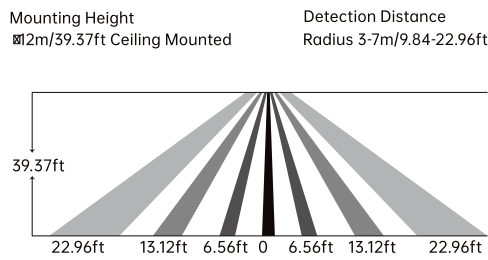
Technical parameter

Operating voltage	12V
Microwave frequency	5.8GHz
Transmitting power	<1mW
Mounting height	12m Max.
Detection speed	0.5~1m/s
Working temperature	-20°C~+60°C

MW sensor detection coverage

Ceiling Mounted

Wall Mounted

0.5-1.0M/S

Mounting Height

Mounting Height
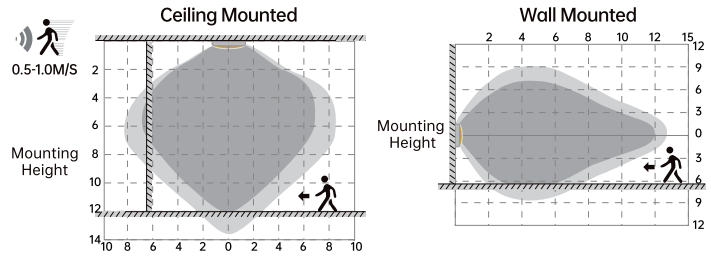
NOTE:

1. Make sure the sensor not close to or be blocked by high density material, such as metal, glass, concrete walls etc. The materials will reduce or block microwave and cause false trigger.

2. Make sure there are no fans or other vibrating objects in installation area. The movements will trigger sensor as well.

PIR sensor detection coverage

Mounting Height
⊠12m/39.37ft Ceiling Mounted

Detection Distance
Radius 3-7m/9.84-22.96ft

39.37ft

22.96ft   13.12ft   6.56ft   0   6.56ft   13.12ft   22.96ft

22.96ft
13.12ft
6.56ft
0
6.56ft
13.12ft
22.96ft

1. Make sure the sensor not be blocked by material, infrared radiation cannot pass through the shelter.

2. Make sure the temperature of worker's activity area is not higher than 60°C.

Difference description

It's commonly known Microwave and Infrared are main detecting technologies in lighting controls. Both have the advantage and disadvantage for industrial applications.

Advantage

* sensitive to minor motion.
* sensitive to radial movement.
* can be reflected by objects hence covering big detection area
* resilient to heat source, smoke and and air conditioner.

Disadvantage

* penetrates walls, picks up motions outside of the office area;
* back wave detection, false trigger by motions at the back.
* can be false triggered by ventilation fans, water pipe, elevators etc. in industrial application.

Microwave Motion Sensor

Advantage

* no penetration, confined detection area.
* sensitive to tangential movement.
* resilient to motion object which has no heat radiation.

Disadvantage

* can be false triggered by air conditioner, smoke and other heat sources.

Motion Sensor

Electric Parameters

Working Voltage: AAA battery * 2pcs (2.2-3V)

Screen OFF Duration: 60S

Icon Flicking Duration: 5S

S(start) button ON Duration: 10S

M(Memory) button Flicking Duration: 3S

Carrier Frequency: 38KHz±2KHz

Operation Distance Max. 15M/49ft (3V)

Emission Angle: < 30 degree

Standby Current: <1.2uA

Working Current: <5mA

Peak Current: <30mA

Working Temp: -20℃~+60℃
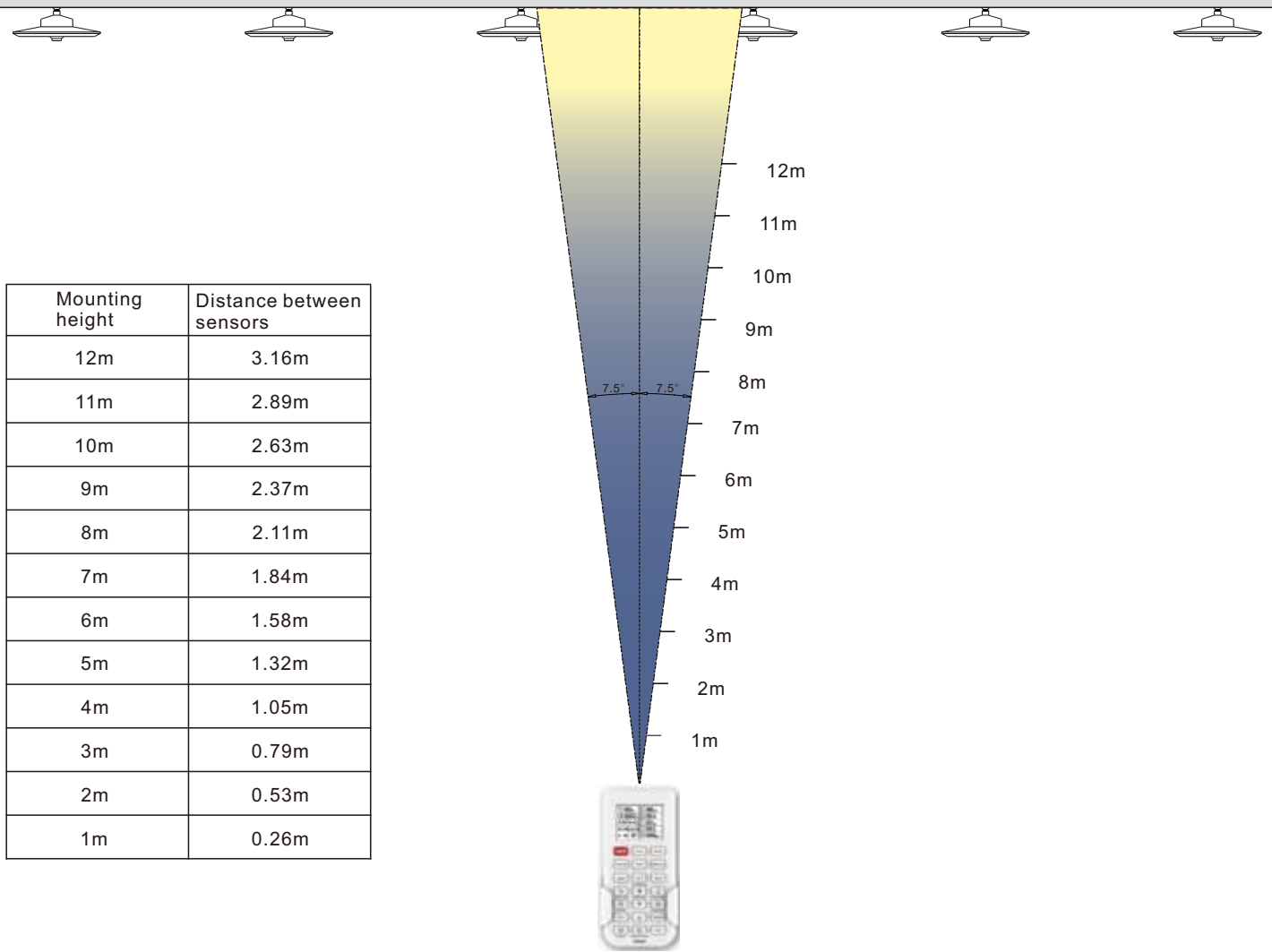
Storage Temp: -30℃~+85℃

⚠ WARNING

Remove the batteries from compartment if the remote will not be used in 30 days.

Sensor Remote Programmer

As the control angle of the Infrared Remote Controller is fixed (15°),
If the distance between sensors is too close, the sensors in the signal range will be set at the same time Please refer to the below chart for the distance of the installation of the sensor.There may have slight deviations between dimension in the diagram and the real one!
Infrared remote control can not only transmit in a straight line, but also be reflected by objects., Different environments have different effects, The following is only for reference.

Mounting height	Distance between sensors
12m	3.16m
11m	2.89m
10m	2.63m
9m	2.37m
8m	2.11m
7m	1.84m
6m	1.58m
5m	1.32m
4m	1.05m
3m	0.79m
2m	0.53m
1m	0.26m

7.5° 7.5°

12m
11m
10m
9m
8m
7m
6m
5m
4m
3m
2m
1m

User LCD Screen Display

⚡100%	Detection Area		K 2700k	CCT Selected
⏱01m	Holdtime		AM	AM means "Auto Mode", AM not showing means "manually control mode"
💡50%	Standy Dim Level		DH OFF	Daylight Harvesting enabled or disabled
⏱00S	Standby Period		S M	"Start" or "Memory" scene parameters
☀200lux	Daylight Threshold		SK-02	Reserved area for the future
☀100%	Brightness		HP	Mounting Height

Briefing of Button Functions

Buttons	Function	Function Performance
ON/OFF	ON/OFF	Turn ON or OFF light and keep the sensor in ON/OFF mode.
Auto	Auto	Enter into SENSOR MODE and peform the last time setting.
Reset	Reset	Go back to default program; Enter into SENSOR MODE and perform the default program.

Function Programming Buttons ▾

Buttons	Function	Function Performance
Scenes	Scenes	Keep favorable program(Detection area, holdtime, daylight threshold, standby dim level and standby period) into different scenes and apply them quickly.
Start	Start	Press this button to start programming, S icon on LCD screen display started to blink; after programming press MEMORY button, S icon keeps being.
Memory	Memory	Press this button to memorize program and saved it into SCENEs; after pressing it, M icon's bright then off after 3S.
Apply	Apply	Press this button to send the program(detection area, holdtime, daylight threshold, standby dim level and standby period) and sensor works in SENSOR mode.
M H	Mounting Height	Adjust detection area/sensitivity levels according to real installation situations, higher or lower.
Send	Send	Memorize and send out the last time setting of individual parameters(detection area, holdtime, standby dim level, standby period, daylight threshold, power, CCT, Daylight Harvesting, ON/OFF, Auto, Reset, Mounting Height, test)
⚡	Detection Area	Adjust from detection area options 25%, 50%, 75% and 100%.
☀	Daylight Threshold	Adjust from daylight threshold options, there are "---"(disable), 2lux, 10lux, 30lux, 50lux, 80lux, 120lux, 200lux, 250lux, 300lux, 350lux, 400lux, LEN(daylight learning).
💡	Standy Dim Level	Adjust from standby dim levels, 10%, 20%, 30% and 50%.
⏱	Holdtime	Adjust from holdtime options: 5S, 30S, 1min, 3min, 5min, 10min, 20min and 30min.
⏱	Standby Period	Adjust from Standby Period options, 0S, 10S, 30S, 1min, 5min, 10min, 30min, 60min and "--" as infinite.
CCT	CCT Selectable	(To work with CCT supported sensors)Adjust from CCT options, 2700K, 3500K, 4000K, 5000K, 5700K, 6500K.
POWER	Brightness Adjustable	Adjust brightness in both ON/OFF mode & SENSOR mode, minimum 10%, max 100%, each pressing makes 5% change.
O	Reserved Button	This remote control works for the next years, we keep this reserved button for the future reference.
⚡	Daylight Harvesting	Daylight harvesting function enabled or disabled.
Test	Test Button	Quick testing button for only 2S ON then OFF.
+	+	Choose higher parameters. Tips: 1. Press POWER button then keep pressing + button get you directly to 100%
−	−	Choose lower parameters. Tips: 1. Press POWER button then keep pressing - button get you directly to 10%

Installation requirements

1.Disconnect power supply, and read product instructions carefully;

2.Ensure installation accessories and installation environment conform to bearing requirement;

3.Check whether the installation accessories are damaged or not, and install accessories to lamp reliably;

4.Different installation environment match corresponding installation accessories,

do not use or change at will;

5.If the installation fittings has auxiliary parts such as skidproof screw, notice how it works,

please do not ignore it;

6.If the light is installed in vibration environment,

please add anti-falling safety rope to ensure reliability of installation;

7.Connect power supply wire reliably according to specified polarity; I-type lamp with grounding

line shall be earthed reliably and the connection points must have insulation measures;

8.When the installation is completed, check whether all parts is reliable and can work properly.

Notice

1.Please first read the product specification carefully,

make sure the using environment conform to specification, then it can be used;

2.Please confirm the input voltage and frequency before use;

3.This product must be installed by professionals;

4.If there is any damage to the power wire or shell of the product,

it shall be taken as defective product and do not use it;

5.Dangerous high voltage, non-professionals are not allowed to maintain the product;

6.If external soft cable or soft wire of the light is damaged,

it shall be replaced by manufacturer or service agent or personnel with similar qualification to avoid danger;

7.Corrosivity in the using environment can't exceed the specified anti-corrosion grade,

if you have special requirement, please first consult with our company.

8.Without sensor, Cibay-I is IP69K. With sensor, Cibay-I is IP65.