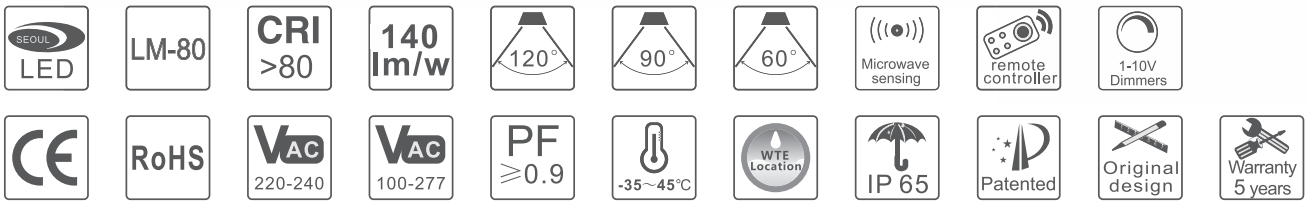
عناية الطاقة
energycare

# Cibay-S High Bay Light CE Type

## ECC-100/150/200/240-AH/AW-30K/40K/60K-SZYY






## Feature:

1.Built-in microwave sensor optional, do not need wiring, save labor time.

2.High temperature series optional, applicable to special environment in temperature no more than 60℃.

3.Adopt LED of high lighting effect, lighting effect of luminaire reaches up to 140LM/W.

4.Optical device with PC lens, IK08, anti UV.

5.CRI>80, good color rendering performance.

6.LEDs are circularly arranged in symmetric, heat source are efficiently distributed in balance, high-efficient thermal conduction.

7.IP65 design.

8.Can operate in -35℃~+45℃ environment.

## Application

**Suitable for large workshop, airport, warehouse, parking lot, basement, gymnasium ect.**



## Description

**Cibay-S High Bay Light adopt built-in microwave sensor developed by Signcomplex, which adopts patent design and can save over 90% of labor time as it do not need wiring.**

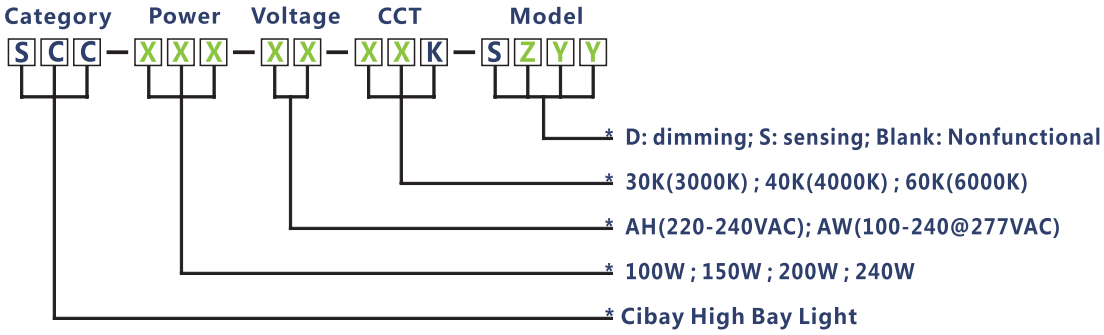
**In the meanwhile, it reduces user inventory greatly. Using together with this intelligent microwave sensor, all traditional Cibay-S High Bay Light can realize both functions of motion sensing and light sensing.**

**Cibay-S High Bay Light can choose super high temperature series and maximum using environment temperature is 60℃, which is applicable to use in environment under particularly high temperature.**

**Three types of lens optional, 60°, 90°, 120°. End user can change as they like, convenient and practical.**

## Technical parameters

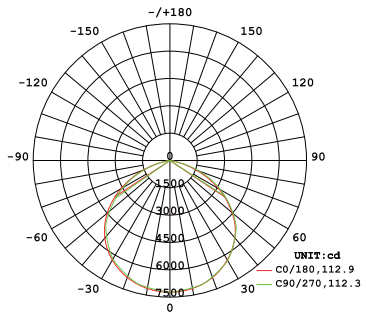
| Model | CCT | Lumen(lm) ±10% | Beam (angle°) ±10% | LEDs type CRI | Power(w) ±10% | Voltage Frequency |
|---|---|---|---|---|---|---|
| ECC -100-AH/AW-60K-SDYY/SSYY | 5500-6500K | 13400 | 120° 90° 60° | SMD Ra > 80 | 100W | AW:100-240@277VAC AH:220-240VAC 50-60Hz |
| ECC -100-AH/AW-40K-SDYY/SSYY | 3700-4300K | 13270 | | | | |
| ECC -100-AH/AW-30K-SDYY/SSYY | 2700-3200K | 12300 | | | | |
| ECC -150-AH/AW-60K-SDYY/SSYY | 5500-6500K | 20190 | 120° 90° 60° | SMD Ra > 80 | 150W | AW:100-240@277VAC AH:220-240VAC 50-60Hz |
| ECC -150-AH/AW-40K-SDYY/SSYY | 3700-4300K | 19830 | | | | |
| ECC -150-AH/AW-30K-SDYY/SSYY | 2700-3200K | 18480 | | | | |
| ECC -200-AH/AW-60K-SDYY/SSYY | 5500-6500K | 27260 | 120° 90° 60° | SMD Ra > 80 | 200W | AW:100-240@277VAC AH:220-240VAC 50-60Hz |
| ECC -200-AH/AW-40K-SDYY/SSYY | 3700-4300K | 26840 | | | | |
| ECC -200-AH/AW-30K-SDYY/SSYY | 2700-3200K | 24810 | | | | |
| ECC -240-AH/AW-60K-SDYY/SSYY | 5500-6500K | 32340 | 120° 90° 60° | SMD Ra > 80 | 240W | AW:100-240@277VAC AH:220-240VAC 50-60Hz |
| ECC -240-AH/AW-40K-SDYY/SSYY | 3700-4300K | 32170 | | | | |
| ECC -240-AH/AW-30K-SDYY/SSYY | 2700-3200K | 29850 | | | | |




*** Traditional product can't be used outdoors**
*** Suitable for damp environment, slight corrosion-proof grade indoors**
*** "YY" maybe 00 TO 99.**

## Distribution Diagram

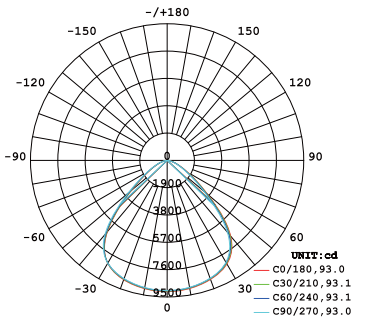
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):112.6 DEG

**120deg**

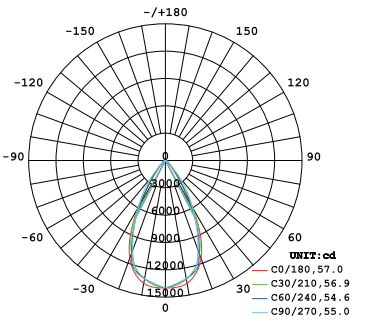
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM




AVERAGE BEAM ANGLE(50%):93.1 DEG

**90deg**

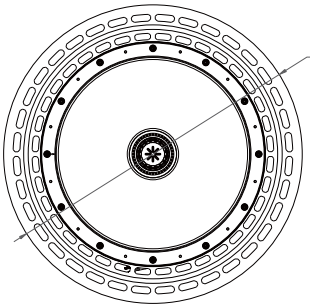
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



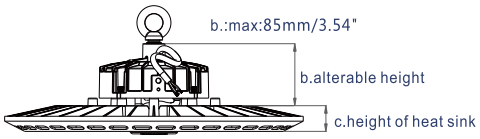

AVERAGE BEAM ANGLE(50%):56.9 DEG

**60deg**

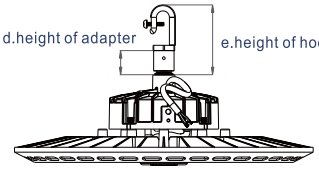
# Dimension(Unit:mm/inch)



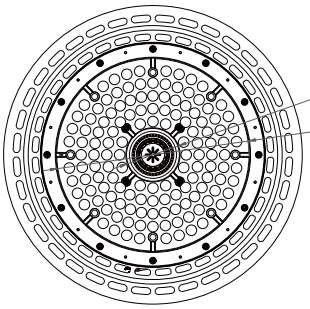

a.:100W:320mm/12.60"
150W:360mm/14.17"
200W:395mm/15.55"
240W:395mm/15.55"




c.:100W:32mm/1.26"
150W:34mm/1.34"
200W:34mm/1.34"
240W:56mm/1.65"

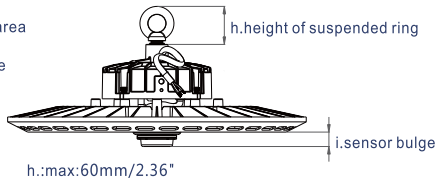



d.:100-240W:33mm/1.30"
e.:100-240W:79mm/3.11"

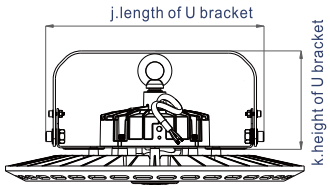



g.:100W:190mm/7.48"
150W:220mm/8.66"
200W:254mm/10.0"
240W:254mm/10.0"

f.:100-240W:70mm/2.76"




h.:max:60mm/2.36"
i.:bulge without microwave sensor:4mm/0.58"
bulge with microwave sensor:19mm/0.75"

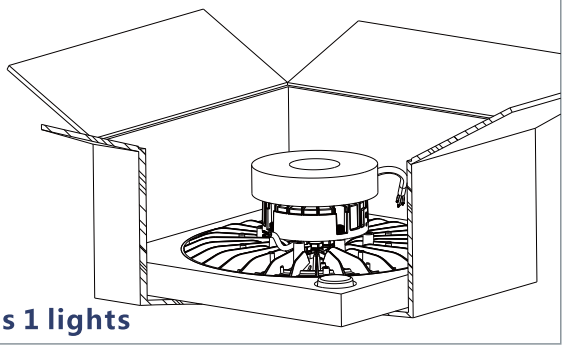



j.:100-240W:289mm/11.38"
width:130mm/5.12"
k.:100-240W:130mm/5.12"

***.Mark b and h in the diagram is alterable height, which will have different height if use different power supply and different accessories, actual height subjects to actual object.**

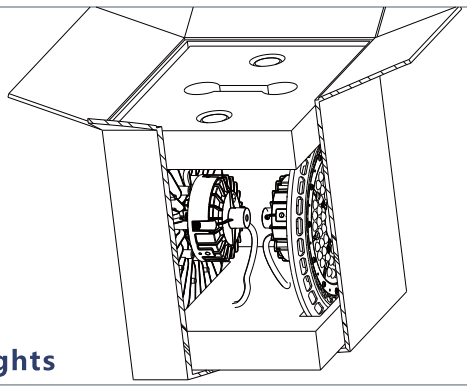
# Package information

**A**



**1 box holds 1 lights**

**B**



**1 box holds 2 lights**

| Model | Power | Net weight | box dimension | Pack Quantity | Gross Weight Per CTN |
|---|---|---|---|---|---|
| SDYY/SSYY A | 100W | 2.80Kg | 375*375*175mm | 1pcs | 3.65Kg |
| | 150W | 3.85Kg | 415*415*185mm | 1pcs | 4.85Kg |
| | 200W | 4.20Kg | 450*450*185mm | 1pcs | 5.35Kg |
| | 240W | 5.95Kg | 450*450*205mm | 1pcs | 7.20Kg |
| SDYY/SSYY B | 100W | 2.80Kg | 375*315*375mm | 2pcs | 6.70Kg |
| | 150W | 3.85Kg | 415*320*415mm | 2pcs | 8.90Kg |
| | 200W | 4.20Kg | 450*325*450mm | 2pcs | 9.75Kg |
| | 240W | 5.95Kg | 450*370*450mm | 2pcs | 13.5Kg |

*** SDYY: dimming type, SSYY: microwave sensing type.**

*** Installation accessories of U bracket can be directly assembled into the lamp when leaving the factory and be packed in one package. As net weight of bracket equals to 1kg, if it is assembled to product, the basic weight should additionally add 1kg**

# Reference diagram of accessories



M20 adapter



hook components



U bracket



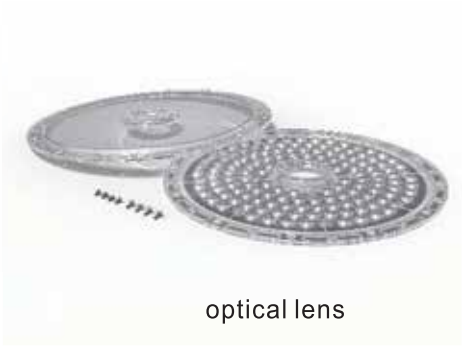
stainless steel chain



safety rope



aluminum lampshade



optical lens



sensor




remote controller

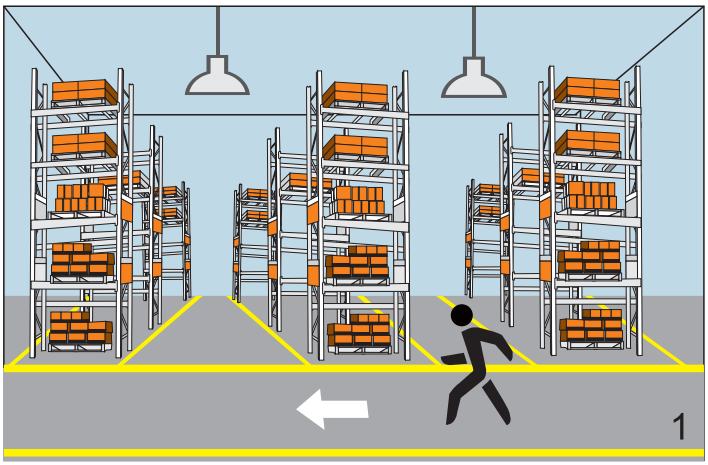
## Accessories specification

| Name | Specification | Model | Part coding | Application scope |
|---|---|---|---|---|
| adapter | M10 | CB2-M10ZM20-001-A | 695-01-0028-001 | CB-100~240-AW-XXK-SZYY-LF<br>CB-100~150-AW-XXK-SZYY-DR |
| | M12 | CB2-M12ZM20-001-A | | CB-200~240-AW-XXK-SZYY-DR |
| Hook components | M10 | CB2-150-AW-DG-001-A | 695-01-0502-349 | CB-100~240-AW-XXK-SZYY-LF<br>CB-100~150-AW-XXK-SZYY-DR |
| | M12 | CB2-240-AW-DG-001-A | 695-01-0502-350 | CB-200~240-AW-XXK-SZYY-DR |
| U bracket | General | CB2-240-AW-U-001-A | 695-01-0502-352 | CB-100~240-AW-XXK-SZYY |
| Stainless steel chain | 0.5 M | CB2-100-AW-P-TL-003-A | 695-06-0028-018 | CB-100~240-AW-XXK-SZYY |
| | 1.0 M | CB2-100-AW-P-TL-002-A | 695-06-0028-007 | CB-100~240-AW-XXK-SZYY |
| | 1.5 M | CB2-100-AW-P-TL-001-A | 695-06-0028-003 | CB-100~240-AW-XXK-SZYY |
| Safety rope | 1.5 M | CB2-100-AW-P-GS-001-A | 695-06-0028-009 | CB-100~240-AW-XXK-SZYY |
| Aluminum lampshade | 70° | CBS-100-AW-LP-70-001 | 695-01-0502-589 | CB-100-AW-XXK-SZYY |
| | | CBS-150-AW-LP-70-001 | 695-01-0502-590 | CB-150-AW-XXK-SZYY |
| | | CBS-240-AW-LP-70-001 | 695-01-0502-591 | CB-200~240-AW-XXK-SZYY |
| 100W PC lens | 90deg | CBS-100-LENS-90-001 | 695-11-0914-050 | CB-100-AW-XXK-SZYY |
| | 60deg | CBS-100-LENS-60-001 | | |
| 150W PC lens | 90deg | CBS-150-LENS-90-001 | 695-11-0914-051 | CB-150-AW-XXK-SZYY |
| | 60deg | CBS-150-LENS-60-001 | | |
| 200-240W PC lens | 90deg | CBS-240-LENS-90-001 | 695-11-0914-052 | CB-200~240-AW-XXK-SZYY |
| | 60deg | CBS-240-LENS-60-001 | | |
| Microwave sensor | Pluggable | CBS-SENSOR-001 | 695-01-0502-592 | CB-100~240-AW-XXK-SDYY-LF |
| Remote controller | Infrared | CBS-MSY-001 | 695-01-0502-593 | CB-100~240-AW-XXK-SSYY |
| | | | | |

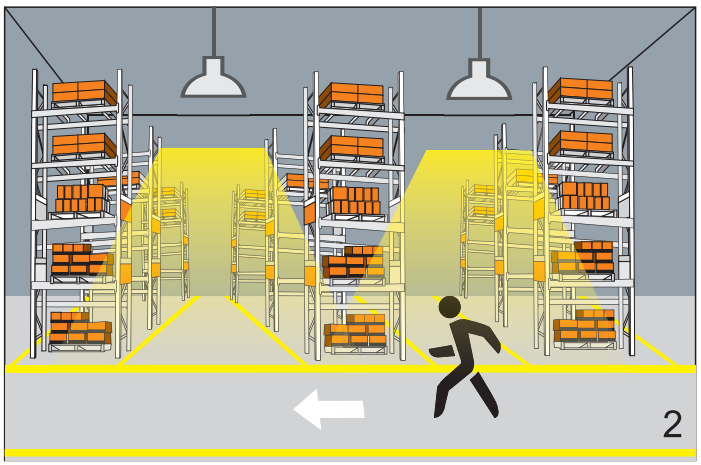
*** Please pay attention to the marked colorful words in application range, each accessory shall be used in specified range.**
*** Blue means the applicable range of power of the accessory, green means the applicable range of function of that series, yellow means the matched power supply brand**
*** LF=Lifud power supply, DR=Daermay power supply.**
*** Z=lamps with any functions will be applicable to this series; if only applicable to lamp with particular function, alphabet there shall be D, S, E, G or blank.**
*** YY=that series is applicable to all type, please consult first if you have any questions.**

## Motion-sensing Function

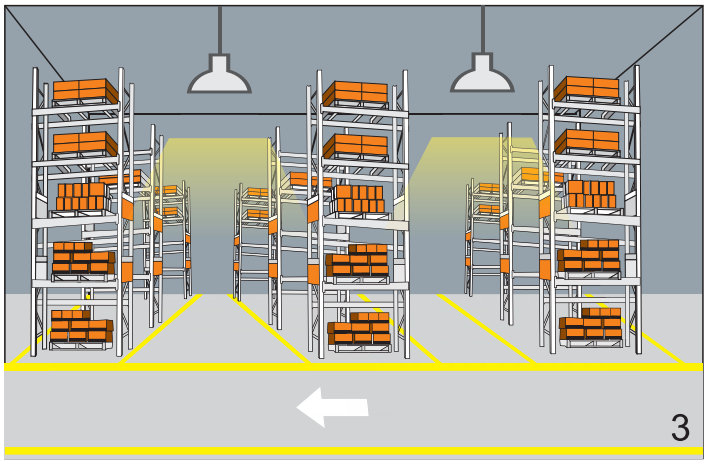
The sensor can detect brightness of ambient light and moving objects, with insufficient ambient light, the sensor switch on the lamp when motion is detected.



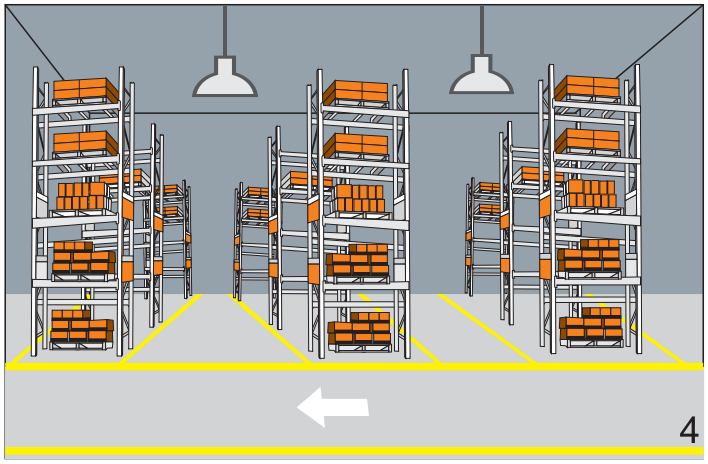

When brightness of ambient light > 50Lux, the sensor won't switch on the lamp even if motion is detected.




When brightness of ambient light < 50Lux, the sensor will switch on the lamp when motion is detected.




After pedestrian left detection range, brightness of the lamp will decrease to 30% after 5 minutes.

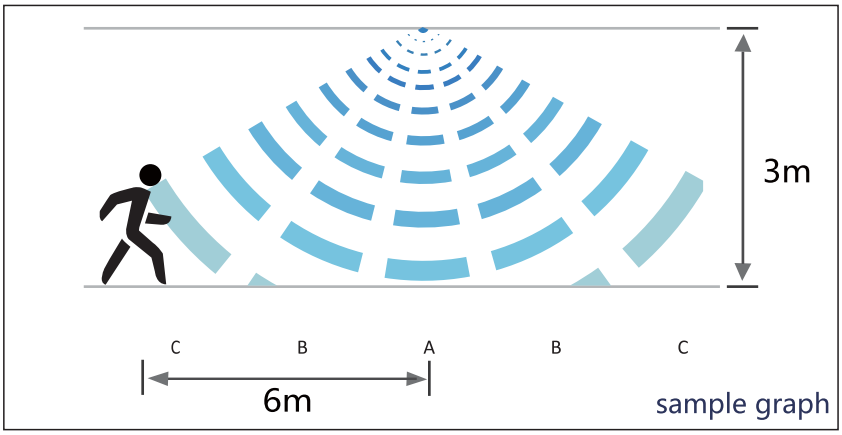



If no pedestrian pass the detection range, the sensor will switch off the lamp after 30 minutes.

* The above examples are factory default setting parameters,
please contact us if need any change or purchase remote controller separately to change parameters as you like.

## Technical parameter of sensor

| | |
|---|---|
| working voltage | DC12V |
| microwave frequency | 5.8GHz<br>ISM frequency band |
| microwave power | <0.3mW |
| detection angle | 120° |
| detection range | Max.(D x H): 12m x 15m |
| detection speed | 0.5~3m/s |



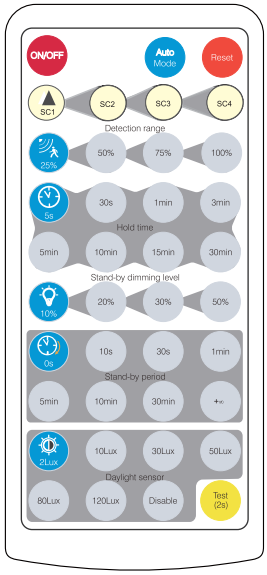
# Remote controller setting

All application parameters of the sensor can be set and alternated through remote controller.
Function description of remote controller is as follow.

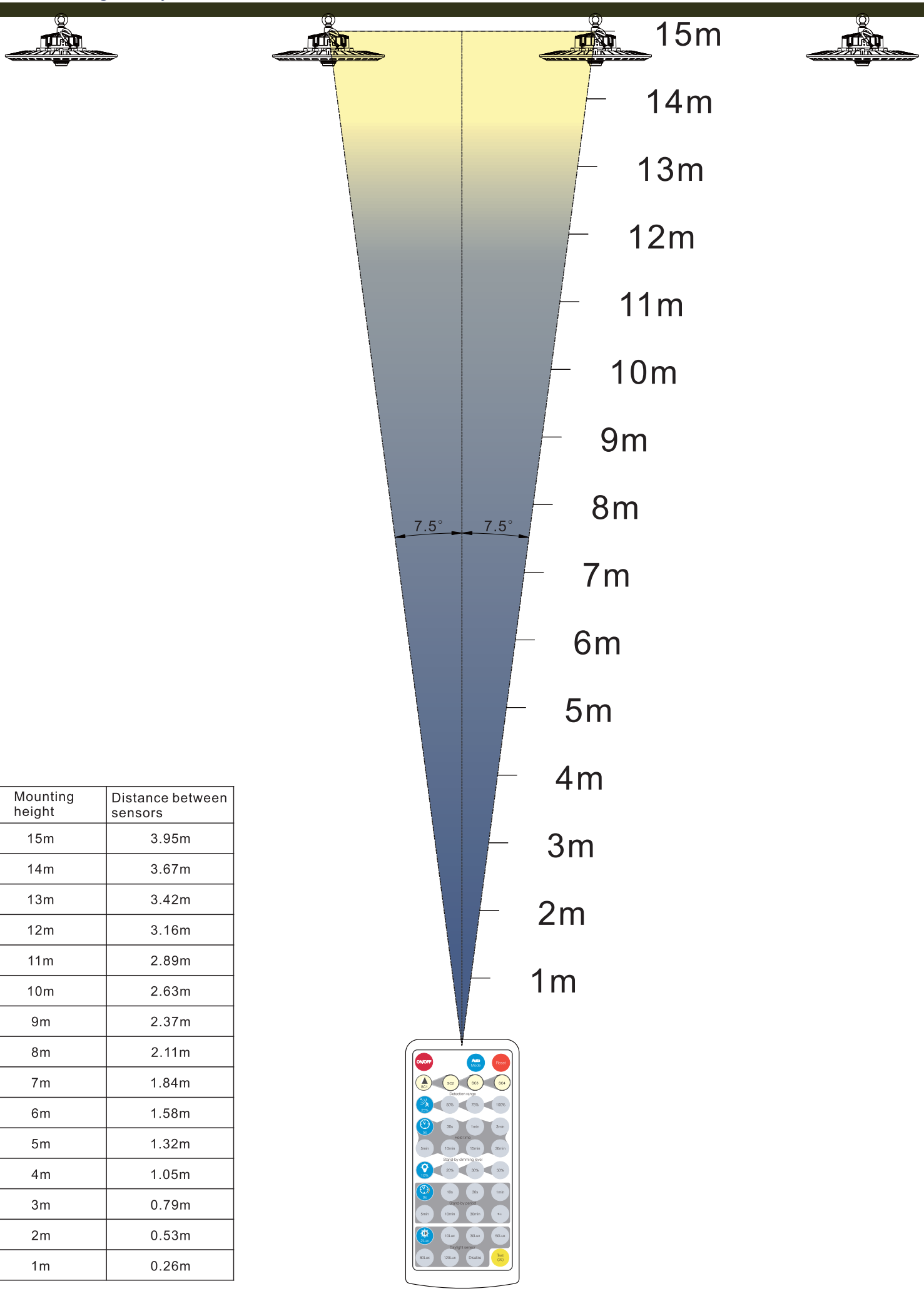
| Button | Function | Description |
|---|---|---|
| ON/OFF | ON/OFF | Press the "ON/OFF" button, the light goes to constant on or constant off, sensor is disabled. Press "Reset" or "Auto Mode" to quit from this mode. |
| Reset | Reset | Press "Reset" button, sensing function restores to default setting. |
| Auto Mode | Auto Mode | Press "Auto Mode" button, the sensor starts to work and all parameter setting will be remained the same as the previous status before the light is set constant on or constant off. |
| Test (2s) | Test pattern | The button "Test(2s)" is for factory testing purpose only.<br>The sensor will go to test mode.<br>Detection sensitivity: 100%<br>Hold time: 2 s<br>Stand-by period: 0 s<br>Daylight sensor: disable<br>Test mode can be quit by pressing any button |
| Sc1 Sc2 Sc3 Sc4 | | |

| Scene mode | Detection area | Hold time | Daylight sensor | Stand-by period | Stand-by dimming level |
|---|---|---|---|---|---|
| Sc1 | 100% | 30S | 2Lux | 1min | 10% |
| Sc2 | 100% | 5min | 10Lux | 10min | 10% |
| Sc3 | 100% | 10min | 50Lux | 30min | 10% |
| Sc4 | 100% | 30min | Disable | + ∞ | 10% |

| | | |
|---|---|---|
| | Detection area (sensitivity) | Set the sensor's sensitivity and detection area of detecting moving objects. |
| | Hold time | Refers to the time period the lamp remains at 100% illumination after no motion detected. |
| | Stand-by dimming level | After hold time, the lamp will have faint light instead of switching off immediately. Here the setting is 100% of faint light, which is the stand-by dimming level |
| | Stand-by period | The time the lamp keeps on stand-by dimming level |
| | Brightness | Set threshold value, when ambient light is lower than threshold value, sensor will respond. |



As the control angle of the Infrared Remote Controller is fixed (15°),
if sensors are installed woo close to each other, settings of both sensors will be configured.
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!
The following is only for reference.

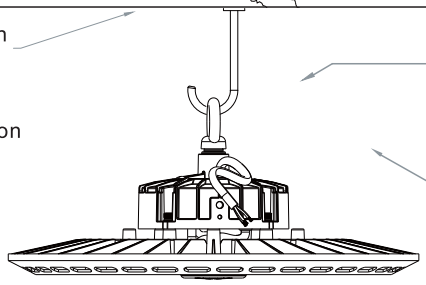



| Mounting height | Distance between sensors |
|---|---|
| 15m | 3.95m |
| 14m | 3.67m |
| 13m | 3.42m |
| 12m | 3.16m |
| 11m | 2.89m |
| 10m | 2.63m |
| 9m | 2.37m |
| 8m | 2.11m |
| 7m | 1.84m |
| 6m | 1.58m |
| 5m | 1.32m |
| 4m | 1.05m |
| 3m | 0.79m |
| 2m | 0.53m |
| 1m | 0.26m |

# Product Installation

## Suspendent ring installation

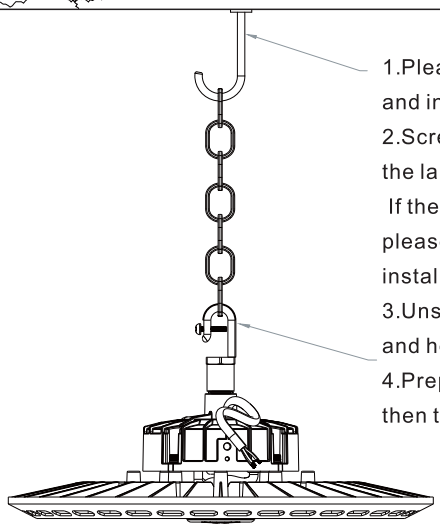
1.Please prepare 1 ceiling hook and matched installation screws and install them into installation carrier reaching bearing requirement;
2.Screw suspended ring of the lamp into screw connection on the top of the lamp body and be careful not to omit the auxiliary skidproof gasket. If there is auxiliary skidproof screw near the screw connection, please tighten it up after installing the suspended ring.
3.Prepare one iron chain as extension carrier, then hook the lamp body on reserved ceiling hook.



AC INPUT
- L ( brown/black wire)
- L1 ( yellow/red wire,Emergency)
- N ( blue/white wire)
- GND ( yellow&green/green wire)

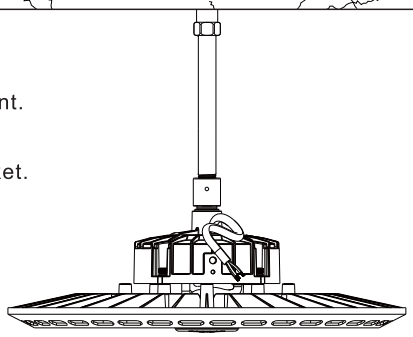
1-10V dimming
- Dim- ( white /gray wire )
- Dim+ ( blue/purple wire )

## hook installation



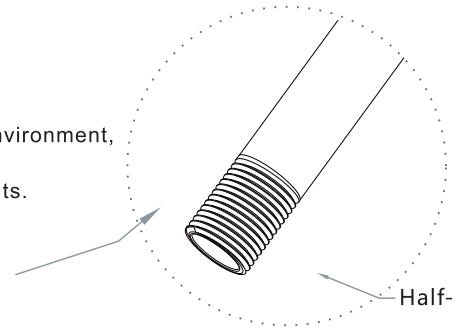
1.Please prepare 1 ceiling hook and matched installation screws and install them into installation carrier reaching bearing requirement.
2.Screw hook of the lamp into screw connection on the top of the lamp body and be careful not to omit the auxiliary skidproof gasket. If there is auxiliary skidproof screw near the screw connection, please tighten up it and the skidproof gasket on adapter after installing the suspended ring.
3.Unscrew the anti-off screws in the opening of hook, and hook the lamp body on the ceiling hook.
4.Prepare one iron chain as extension carrier, then tighten anti-off screws up in the opening of hook.

## Half inch pipe installation



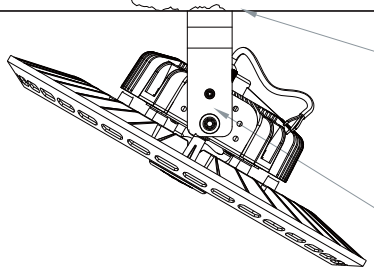
Pipe installation is only suitable for specific installation environment, as we only provide M20 adapter, thus matched pipe end shall conform to below requirements.

1.Ensure pipe can reach weight bearing requirements;
2.Pipe must has M20 screw connection;
3.Thread depth of pipe ＜25mm, recommend 20mm.

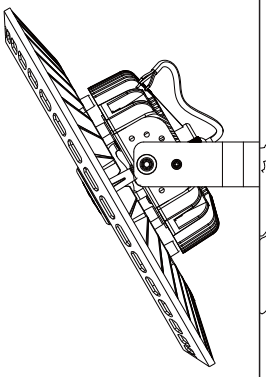


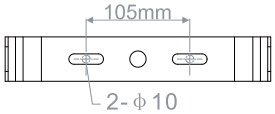

Pipe installation can also match with center-outlet power supply to realize concealed installation which threads wire from the pipe. If this requirement is needed, please consult first.

## U Bracket Ceiling or Wall Installation



1.Prepare 2φ10mm expansion screw and ensure their material and installation position conform to bearing requirement, then drill two holes with ≤10mm in advance;
2.Insert expansion screws into holes and make holes in the bracket corresponding to head of expansion screws, then tighten expansion screws up;
3.Dismantle small auxiliary screws on both sides, slightly loose fixing screws of bracket and rotate lamp body to suitable installation angle;
4.Install small auxiliary screws of the bracket back, finally tighten up all main screws and auxiliary screws.






Recommended dimension of drilling hole

## 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.