Sensor

【Sensor series】
5 years warranty

S

Specification For UFO LED High Bay Lamps

PRODUCT NAME: UFO LED High Bay Lamps

PART NO:
SHB100W-230V-UFO
SHB150W-230V-UFO
SHB200W-230V-UFO
SHB240W-230V-UFO

CE Pb ROHS

Description:

★ This product use durable and long life span LED light source, downy light, no glare, simple design.

★ This product waterproof and dustproof level 65.Can be used in various of places.

★ Mainly use the aluminum alloy as the material with PC lens . Work safely and durable under different conditions.

★ Adopted 2835 SMD Led light source,Large-Size Chip with High brightness and low light fades, Enough Current margin, Led chip Rated current 150mA,actual use only120mA, Extend led Lights lifespan and increase Light Efficiency.

★ Adopted 0-10V Dimming Driver, Universal AC Input/Full range up to AC 220-240V. Protection function: short circuit/over current/over voltage/over temperature, Built-in. active PFC function, PF≥0.95and Conversion efficiency≥94% Fully encapsulated with IP65 Level.

★ Warm/pure/cool white all avialble with high CRI

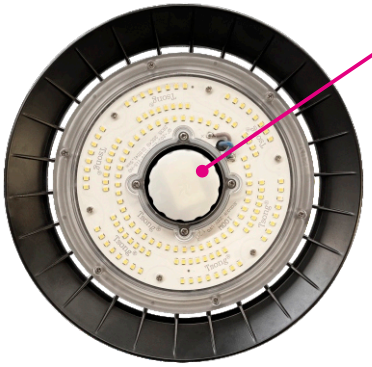
★ Integrated fixture structure, Air convection design for reliable lifetime.

Applications:

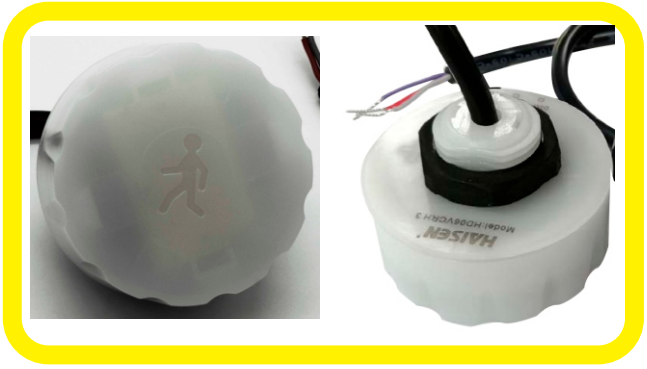
For the workshop, factory, warehouse, highway toll stations, gas stations, supermarkets, exhibition halls, stadiums and Other places of lighting required.

Photo

Sensor



Sensor



Remote (optional)

LED Driver

Technical Data of Sensor

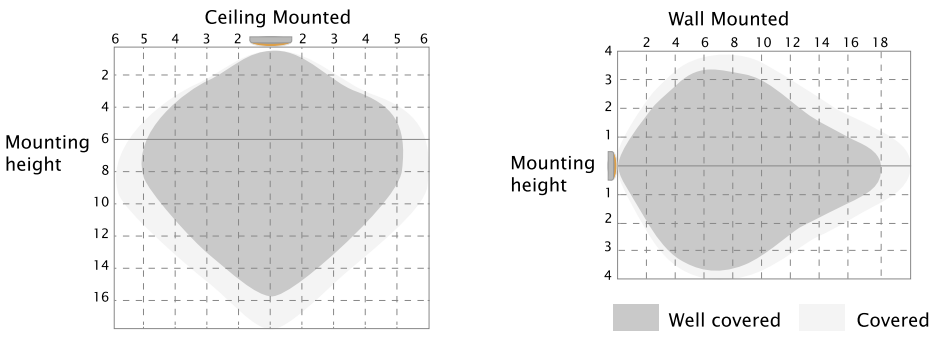
On/off control | Detection area | Hold time | Daylight threshold | Stand-by period | Stand-by dimming level | Remote control setting | 10-15M Highbay | warranty 5 years

Operating voltage	10-15VDC
Operating current	30mA±5%
Output	DIM 0-10V
Stand-by power	≤0.5W
Detection area	25%/50%/75%/100%
Hold time	5s/30s/1min/3min/5min/10min/20min/30min
Daylight threshold	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
Stand-by period	0s/10s/30s/1min/5min/10min/30min/+∞
Stand-by dimming level	10%/20%/30%/50%
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.3mW
Mounting height	15m/49.2ft (ceiling mounted)
Detection range	Max,ø14m/45.92ft (ceiling mounted)
Operating temperature	-20℃~+60℃
Motion detection	0.5~1.5m/s
IP rating	IP65
Warranty	5 years

Factory Default Setting: Detection area 100%/ Hold time 5s/ Daylight threshold Disable/Stand-by period 0s/Stand-by dimming level 10%.

Detection coverage

Typical installation height 15m
This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.



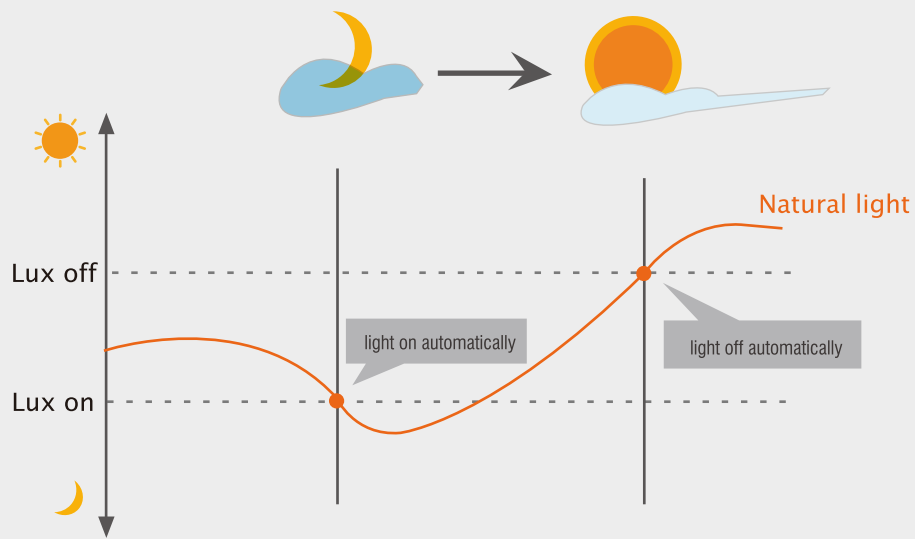
Technical Data of Sensor

Daylight Priority

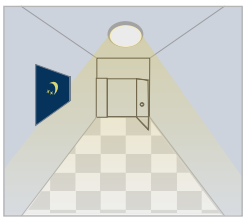
Dusk/Dawn sensor:
Dual-PD technology brings a fully automatic dusk/dawn sensor which can tell the difference between natural light and LED light, to ensure the light will be off when needed.

With Daylight priority function, HD06VCRH 3 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 Daylight priority:
1. Standby period is +∞;
2. Standby dimming level is on 10%, 20% or 30%;
3. Daylight threshold is on 30Lux, 50Lux, 80Lux or 120Lux.

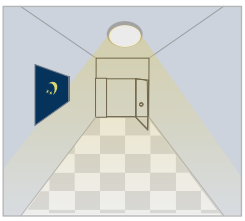


Application____Daylight priority

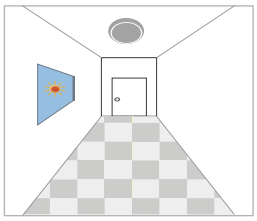


Light automatically on when ambient brightness is lower than preset lux level.

With insufficient ambient brightness, light dims to 100% when motion detected .



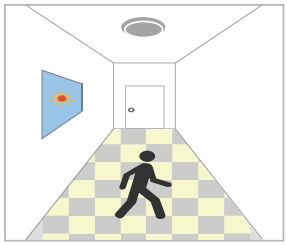
Light dims to standby level if no motion detected after holdtime.



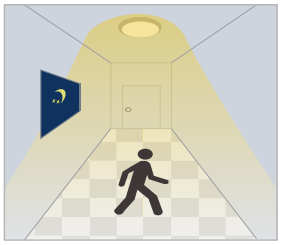
Light off when ambient lux level is higher than preset lux amount.

1. Automatically ON/OFF function:

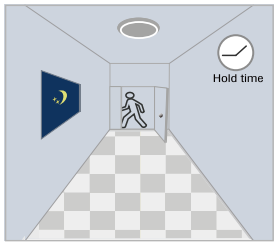
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion detected, light remains OFF.



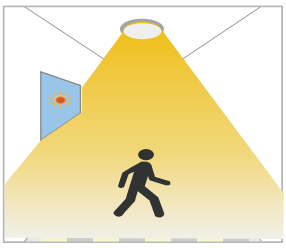
With insufficient daylight, when motion detected, light ON.



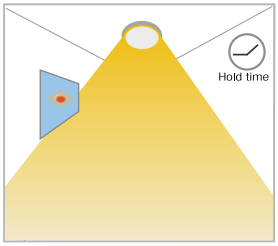
After the last detection and the present hold time elapsed, light OFF.

2. No daylight function

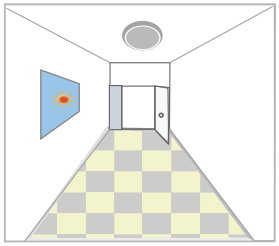
The daylight threshold is set to "Disable".
Light on when detect movement, After people leave, Light off after stand-by period.
Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the sensor will switch on the light to 100% brighteness.

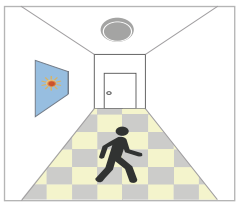


After people leave the detection area, light remains 100% brightness within hold time.

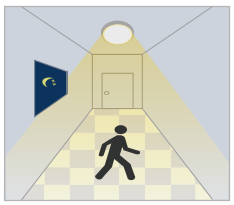


After the last detection and the present hold time elapsed, light OFF.

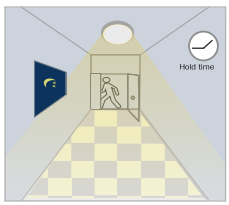
3. Function Demo - Dimmable control/Corridor function



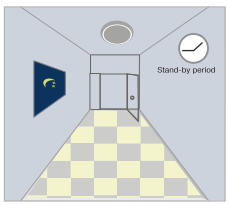
With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



After last detection, the light will be dimmed down to the stand-by dimming level (10%,20%,30% or 50%) after holdtime.



After the stand-by period, light OFF.

Hold time	5min
Stand-by period	5min
Stand-by dimming level	30%

This setting is the factory default

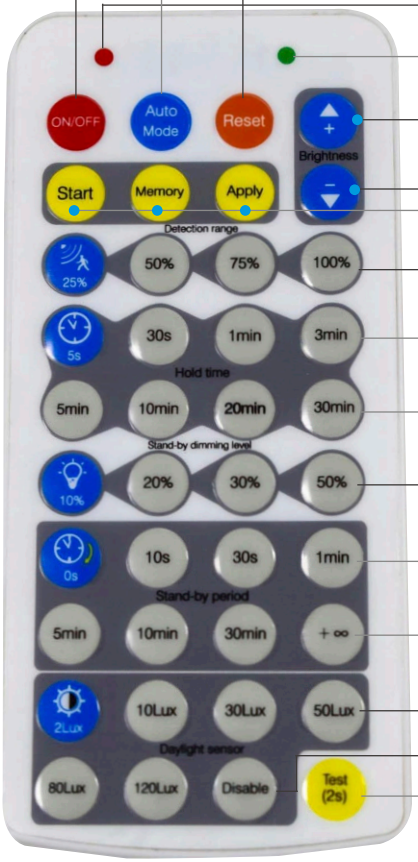
Application Environment

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

Sensor

Remote for dimmable sensors with memory function

HD03R



ON/OFF

1. "ON/OFF" key only functions as a switch of the light.
2. If press this button to turn off the lamp before it's short-circuited, the lamp will remain off after power-on again.

Auto Mode

Press “Auto Mode” button, the sensor starts to work and all settings remain the same before the light gets switched on/off.

Reset

1、Press "Reset" button, change brightness to max level.
2、Press “Reset” button, products with DIP switch will be controlled by DIP switches; otherwise all the setting will be just initial, that is 100% detection range,hold time 5S, no stand-by time and daylight threshold disabled.

Flick after press any button

Flick only after press "Apply" button

+/-

1. To adjust brightness 10-100% in on/off mode.
2. To adjust highest brightenss 60-100% in sensor mode.

Start

Press "Start" to customize scene, users can change detection range, daylight threshold, holdtime, standby dimming level and standby period.

Memory

1. Press "Memory" to save all the settings.
2. The settings remained as the last time if not get resetted values.

Apply

1. Press "Apply" to deliver the saved setting.
2. Press "Apply" without “memory”will make all the setting one-time operation.
3. Settings should be done within 30S, otherwise it exits memory mode.

Detection area (Press to define detection area 100%/75%/50%/25%.)

Hold time (Press to define holdtime 5s/30s/1min/3min /5min/10min/20min/30min .)

Stand-by dimming level (Press to define stand-by dimming level 10%/20%/30%/50%.)

Stand-by period (Press to define stand-by period 0s/10s/30s/1min/5min/10min/30min/+∞.)

Note: “0s” means no standby period; “+∞” means unlimited standby period.

Daylight threshold (Press to define daylight level 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable.)

Note: Disable means light will be turned on once sensor detects movement, regardless of the ambient lux.

Test (2s)

The button “Test (2s)” is for testing purpose after commissioning.Pressing this button, the sensor goes to test mode (hold time is only 2s)

Sensor

Remote for dimmable sensors with memory function

HD03R Instruction

Memory & Apply Mode

1. Press "ON/OFF button" to turn on the light or off.

2. To reset the parameters, Please follow the steps as below:
Step 1 - Press ON, to turn on the light if it was off at the start.
Step 2 - Press "Start" to the well-setting sensor.
Step 3 - Press the button of Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after the other in sequence.
Step 5 – Press “Memory” to memorize the settings.
Note: The interval of each parameter setting shall be controlled within 30s.

3. To programme other lights in the array that have similar sensors to the same programme.
Step 1 - Press "ON" to the second sensor
Step 2 - Press "Apply"

Isolated Setting Mode

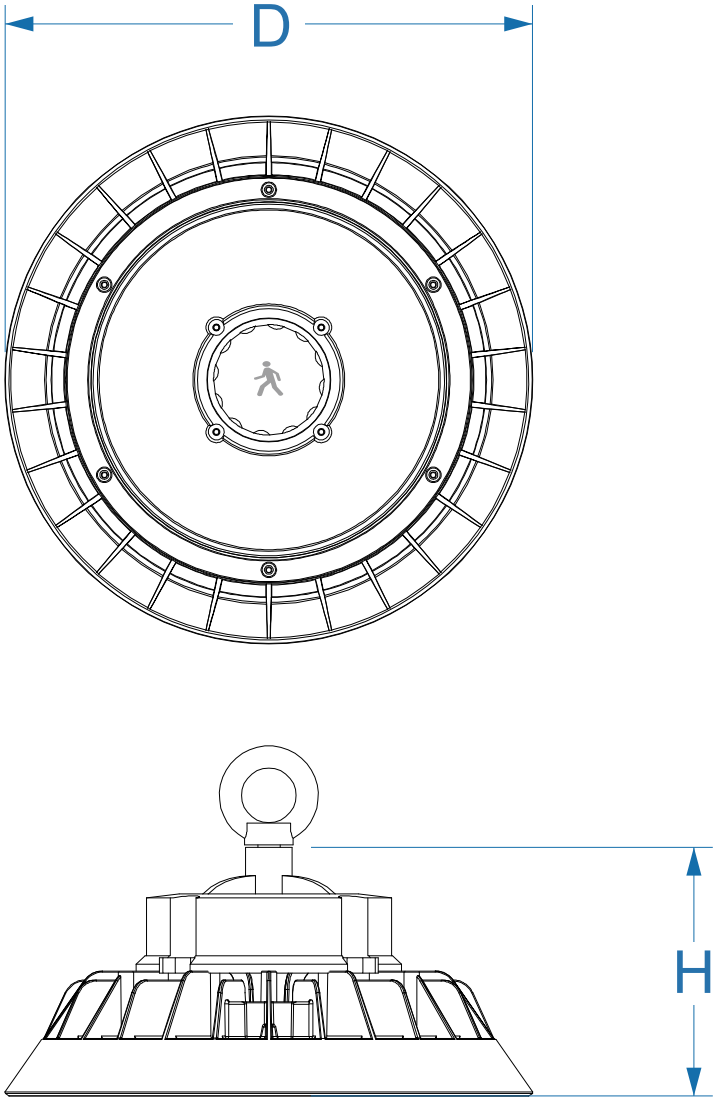
1. Press "ON/OFF button" to turn on the light or off. Press "Auto Mode", the remote will activate settings that were saved last or remain at the factory default settings.

2. To reset the parameters, Please follow the steps as below:
Step 1 - Press ON, to turn on the light if it was off at the start.
Step 2- Press any button of "Auto Mode", “Reset” , Test" and "Apply" to begin the sensor detection mode.
Step 3 - Press the button of Detection range, Hold time, Stand-by dimming level, Stand-by period and Daylight threshold one after the other in sequence.

Notes:

1. Settings will be saved automatically and remain until you press reset again.
2. Light will flicker when setting each parameter.

Dimensions(Unit:mm)



Model	Power	Product Size(D*H)
SHB100W-230V-UFO	100W	Φ238mm*H118mm
SHB150W-230V-UFO	150W	Φ283mm*H123mm
SHB200W-230V-UFO	200W	Φ324mm*H133mm
SHB240W-230V-UFO	240W	Φ363mm*H137mm

Electrical/Optical Characteristics/Specifications

MODEL:SHB100W-230V-UFO

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor
AC200-240V	0.5A	DC210V	0.42A	100W	≥0.95

LED Type	LED Q'ty	CRI				
			CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	140PCS	≥80Ra	Luminous flux	14000LM±10%	15000LM±10%	15000LM±10%
			Beam Angle	120° or 90°		

Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W
50.000Hours	CE,RoHS	IP65	Class Ⅰ	Φ238*118mm	1.8Kg

Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W
-20℃to+50℃	-30℃to+60℃	10-80%RH	10-90%RH	L280*W280*H140mm	2.1Kg

Outer carton package	4*1layer=4PCS/carton,K=K corrugated paper, L585*W295*H320mm,GW:9.23KG
Optional dimming type	0-10V Dimming (need the sensor remote)

MODEL:SHB150W-230V-UFO

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor
AC200-240V	0.75A	DC210V	0.64A	150W	≥0.95

LED Type	LED Q'ty	CRI				
			CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	210PCS	≥80Ra	Luminous flux	21000LM±10%	22500LM±10%	22500LM±10%
			Beam Angle	120° or 90°		

Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W
50.000Hours	CE,RoHS	IP65	Class Ⅰ	Φ283*128mm	2.3Kg

Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W
-20℃to+50℃	-30℃to+60℃	10-80%RH	10-90%RH	L325*W325*H145mm	2.6Kg

Outer carton package	3*1layer=3PCS/carton,K=K corrugated paper, L345*W345*H480mm,GW:8.78KG
Optional dimming type	0-10V Dimming (need the sensor remote)

Electrical/Optical Characteristics/Specifications

MODEL:SHB200W-230V-UFO

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor
AC200-240V	1.0A	DC210V	0.85A	200W	≥0.95

LED Type	LED Q'ty	CRI				
			CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	280PCS	≥80Ra	Luminous flux	28000LM±10%	30000LM±10%	30000LM±10%
			Beam Angle	120° or 90°		

Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W
50.000Hours	CE,RoHS	IP65	Class Ⅰ	Φ324*133mm	3.4Kg

Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W
-20℃to+50℃	-30℃to+60℃	10-80%RH	10-90%RH	L365*W365*H155mm	3.7Kg

Outer carton package	3*1layer=3PCS/carton,K=K corrugated paper, L385*W385*H510mm,GW:12.05KG
Optional dimming type	0-10V Dimming (need the sensor remote)

MODEL:SHB240W-230V-UFO

Input Voltage	Max.Current	Operating Voltage	Constant Current	Power Consumption	Power Factor
AC200-240V	1.2A	DC216V	1.04A	240W	≥0.95

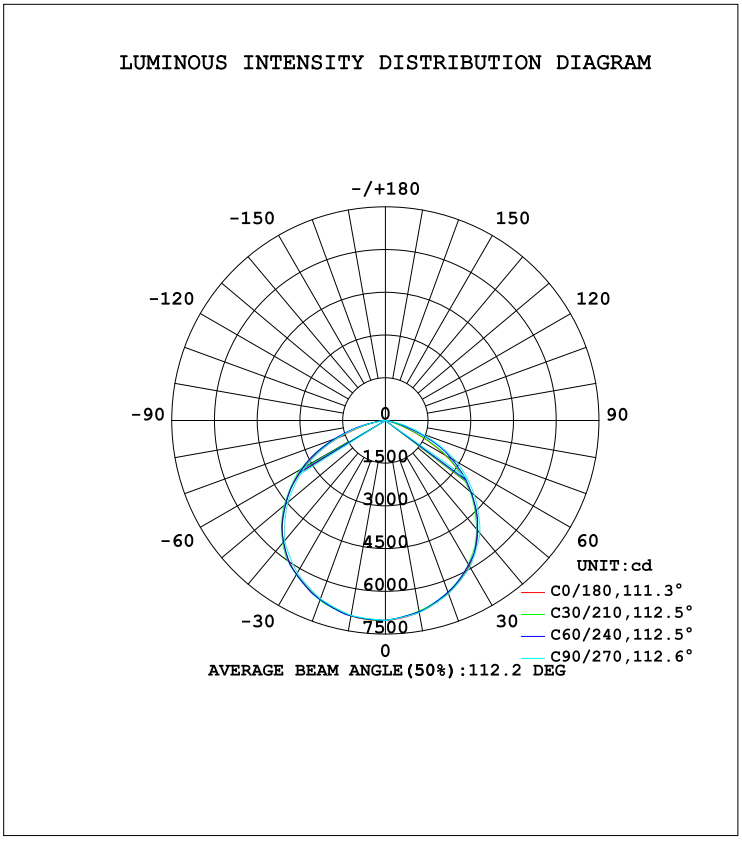
LED Type	LED Q'ty	CRI				
			CCT	2900-3100K	4000-4500K	5500-6000K
			Luminous efficiency	140LM/W	150LM/W	150LM/W
SMD2835	360PCS	≥80Ra	Luminous flux	33600LM±10%	36000LM±10%	36000LM±10%
			Beam Angle	120° or 90°		

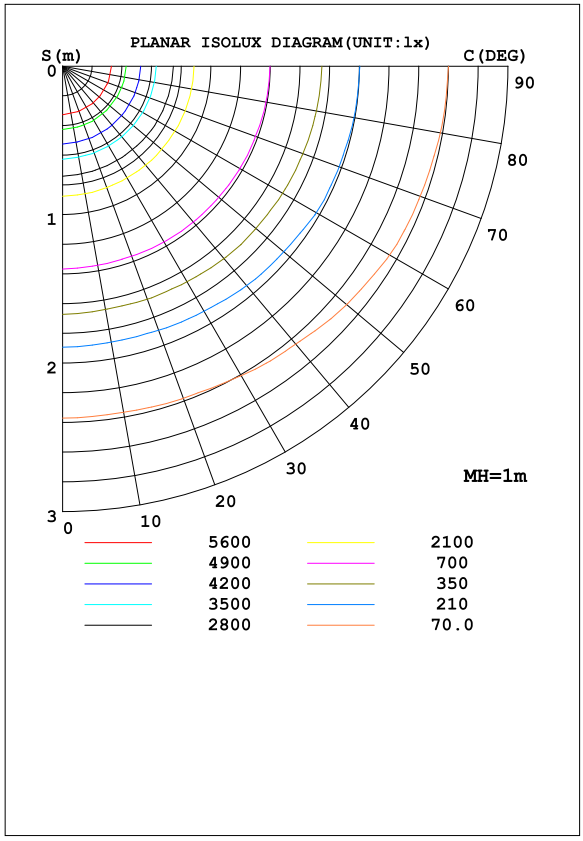
Life Time	Certifications	IP Code	Luminaires Class	product dimension	N.W
50.000Hours	CE,RoHS	IP65	Class Ⅰ	Φ363*137mm	4.0Kg

Operating Temperature	Storage Temperature	Humidity Operating	Humidity Storage	Packing dimension	G.W
-20℃to+50℃	-30℃to+60℃	10-80%RH	10-90%RH	L400*W400*H160mm	4.3Kg

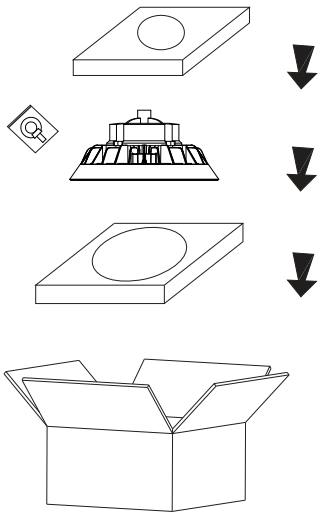
Outer carton package	2*1layer=2PCS/carton,K=K corrugated paper, L420*W420*H360mm,GW:9.6KG
Optional dimming type	0-10V Dimming (need the sensor remote)

Test report





Packing Info



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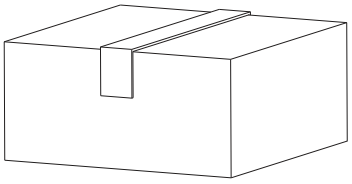
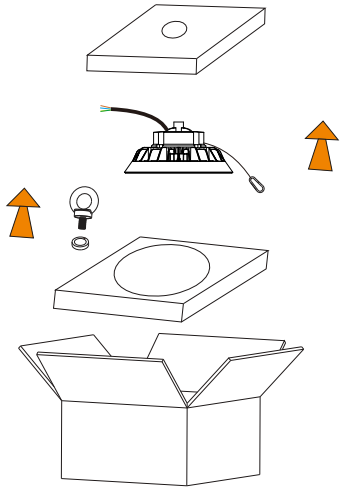


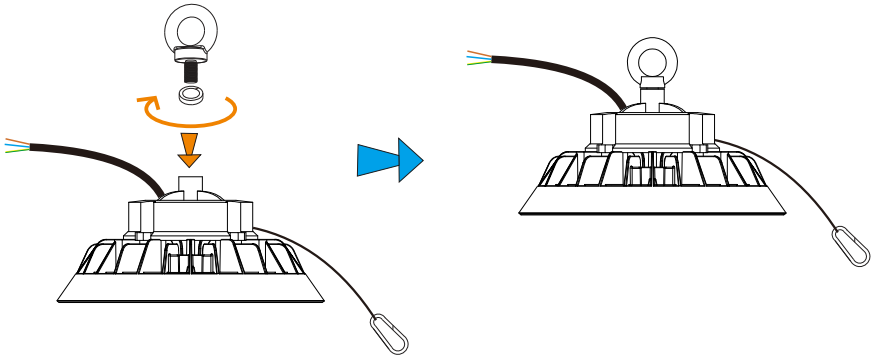
2

Cautions:
1.This product must be installed by professionals;
2.If there is any damage on the power line or shell, it should be taken as defective product and should not be used;
3.High voltage, non-professionals are not allowed to install, disassemble the product or connect wires.

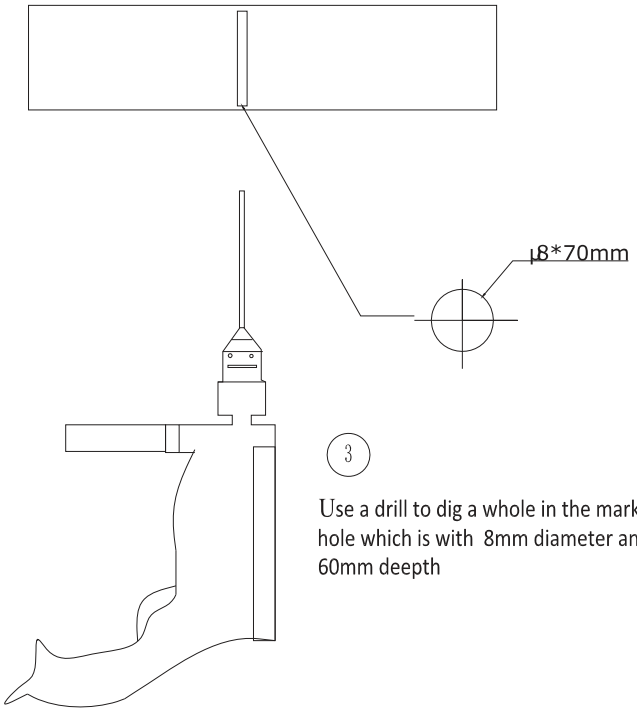
UFO LED High Bay lamps use method



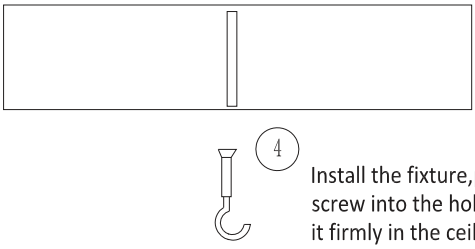
① Open the box and take out the UFO and mounting bolt and spring washer



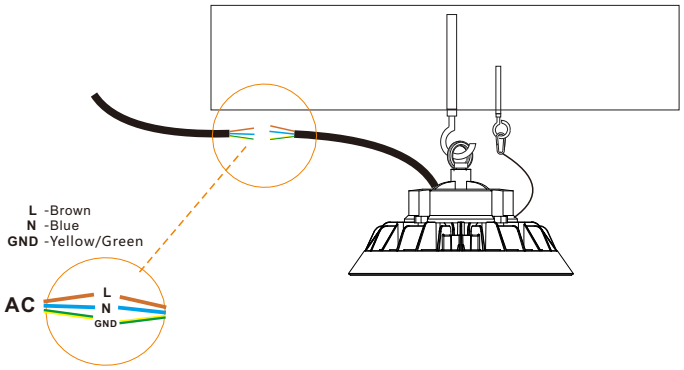
② Tighten the mounting bolt and spring washer to the UFO drive



③ Use a drill to dig a whole in the marked hole which is with 8mm diameter and 60mm deepth



④ Install the fixture,put this screw into the hole and make it firmly in the ceiling



⑤ Hang on the light and connect the wire. Then light up to test

Notes:

1.Please always use the light out of its package.

2.Before starting use of the light,please check if the light was damaged during transportation.If any damage shown,please DO not install or use it.

3.Any maintenance should be performed by trained professionals only.

4.Keep packaging material away from the reach of children and pets.Risk of suffocation!

5.Caution.The packaging contains small parts that may be swallowed by children.

6Never leave children unattended in the vicinity of the lights and do not allow them to play with electrical devices.

7.Try to avoid looking directly in the LED beam-especially for extended periods of time. Do not shine the LED light in another person’s eyes.

8.Never cover the lights by other objects.

9.Never allow the light to come into contact with open flames or external heat sources.

10.The products need to re-repair inspection or special treatment of retirement after service time

11.Non-professioonals are not allowed to disassemble and maintain the products.We have the right not to provide after-slae service if unauthorized disassembly and maintenance happens to the products.