BBIER®

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Project Name_____
Product Code_____
SKU No. _____
Memo._____
Data _____

UFO LED HIGHBAY SERIES

SAA APPROVALS® · *QUALITY ASSURED FIRM ISO 9001 SGS* · *c ETL us LISTED Intertek* · *DLC QPL LISTED*

LIMITED WARRANTY 5 YEAR · *CE COMPLIANCE* · *RoHS COMPLIANCE* · *WET LOCATION* · *MOTION SENSOR*
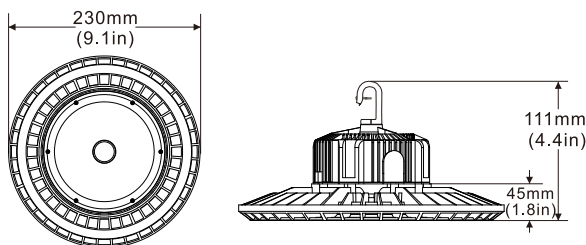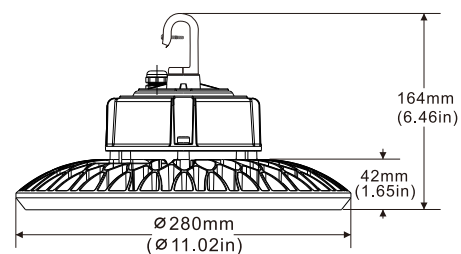
PRODUCT DESCRIPTION

The UFO series has the high-performance solution for the most demanding applications within a unique design. With different precision refractive optical lens and an easy-install design, it can be used in many applications such as workshop, warehouse, indoor stadium, factories, stockrooms, hotel, supermarket, etc.
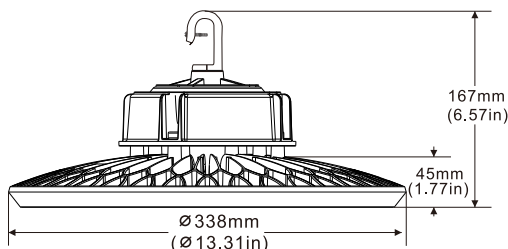
FEATURE

1. Air cooling Design
2. IP65 Rated Enclosure
3. Suspension or Bracket Mounting
4. Optional Black or White color
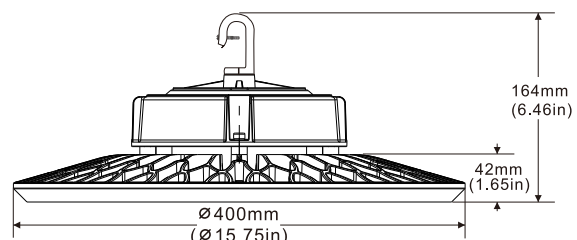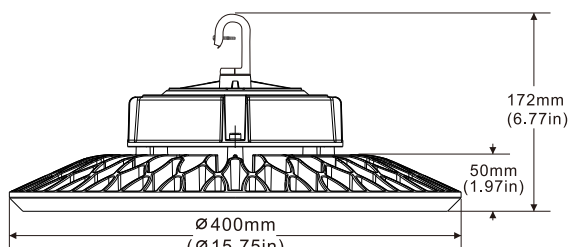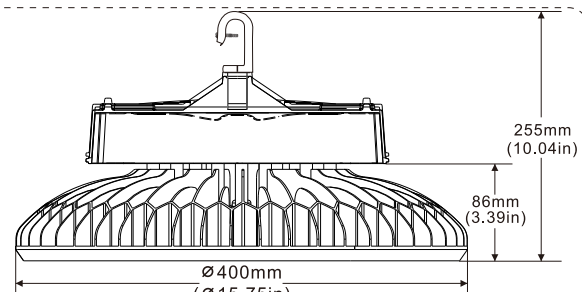5. Optional with Microwave Sensor
6. Optional with Emergency Driver

230mm (9.1in)
111mm (4.4in)
45mm (1.8in)
BB-GKD-60W-E

164mm (6.46in)
42mm (1.65in)
Ø280mm (Ø11.02in)
BB-GKD-100W-E

167mm (6.57in)
45mm (1.77in)
Ø338mm (Ø13.31in)
BB-GKD-150W-E

164mm (6.46in)
42mm (1.65in)
Ø400mm (Ø15.75in)
BB-GKD-200W-E

172mm (6.77in)
50mm (1.97in)
Ø400mm (Ø15.75in)
BB-GKD-240W-E

255mm (10.04in)
86mm (3.39in)
Ø400mm (Ø15.75in)
BB-GKD-300W-E

Ordering Information

Example:BB-GKD-100W-E

Area Series	Watts	Version	Bracket	CCT	Voltage	Color
BB-GKD	60W 100W 150W 200W 240W 300W	E	1 - Ring 2 - Bracket	SW-2700K WW-3000K NW-4100K DW-5000K CW-5700K SCW-6500K	BLANK-100-277VAC HV-200-480VAC	Black(default) White(optional)

PERFORMANCE DATA

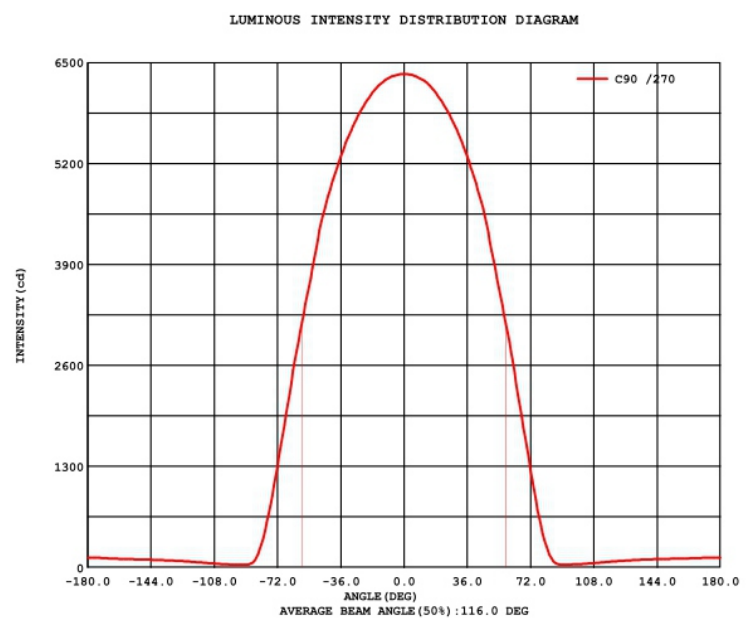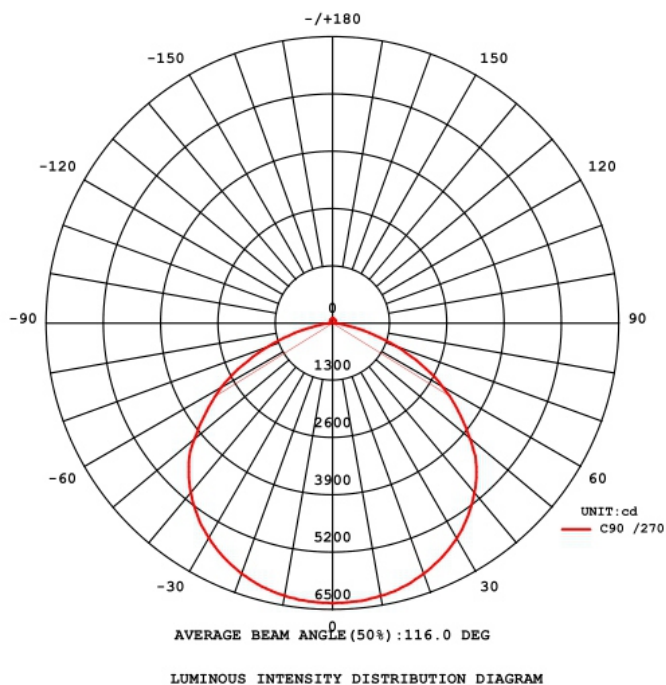| Power	60W	100W	150W	200W	240W	300W
Model	BB-GKD-60W-E	BB-GKD-100W-E	BB-GKD-150W-E	BB-GKD-200W-E	BB-GKD-240W-E	BB-GKD-300W-E
Luminous Flux	7800lm	13000lm	19500lm	26000lm	31200lm	39000lm
Replacement	HPS 200W	HPS 300W	HPS 400W	HPS 600W	HPS 800W	HPS 1000W
ETL DLC	N	Y	Y	Y	N	N
Model differences	Different installation accessories:E1-Ring mounting;E2-Bracket mounting					
Light Source	SMD LED					
Luminous Efficacy	130lm/W					
Operation Temp.	-40 to +45℃					
CCT	2700K SW / 3000K WW / 4100K NW / 5000K DW / 5700K CW					
CRI	70+					
Life Span	50,000 hours at 25℃					
Voltage	100-277VAC/50-60Hz　　　　　200-480VAC/50-60Hz Available					
Driver	UL listed power supply					
Dimming	Available　　　　Dali dimming optional					
Emergency module	Opthional,Emergency Driver A or B					
Sensor	Microwave sensor available					
Control System	APP, remote control, touch screen, light control and other control options available					
Beam Angle	120°（Transparent, Matte）　60°90°（Lens）					
Cover	Transparent, Matte, Lens available					
IP	65					
PF	>0.95					
Warranty	5Years					

PROJECTS

By using our 100W Highbay Light to replace 300W Metal Halide bulb for warehouse high bay lighting fixtures,the customer is now able to save a lot per month from his electric bill.

Replace

100W LED

300W MH

Notes:

1. Don't take the LED lamp apart.

2. The LED lamp must work under the right voltage according to the specification.

LUMINOUS INTENSITY DISTRIBUTION

AVERAGE BEAM ANGLE(50%):116.0 DEG

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

AVERAGE BEAM ANGLE(50%):116.0 DEG

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DETAILS

1. 3030 SMD LED, Imported chips.

2. Aluminum die-casting heat sinks is good for heat dissipation.

3. UL listed power supply, Safe and reliable, long life.

4. It's major to replace the conventiona highbay light.

5. Green, energy saving, long and reliable life of 50,000 hours.

6. No RF interference, No IR/UV radiation ,no mercury pollution.

7. Wide colour availability in degrees Kelvin(K),2700-6700K.

8. Streamline exterior design, beautiful appearance.

9. Environment friendly ,energy saving (70~80%).

10. Special circuit design, each LED work separately,
    avoiding the single broken LED influence problem.

3030 SMD LED

UL listed Power Supply

Aluminum die-casting

APPLICATION

- Parking area lighting
- Workshop lighting
- Warehouse lighting
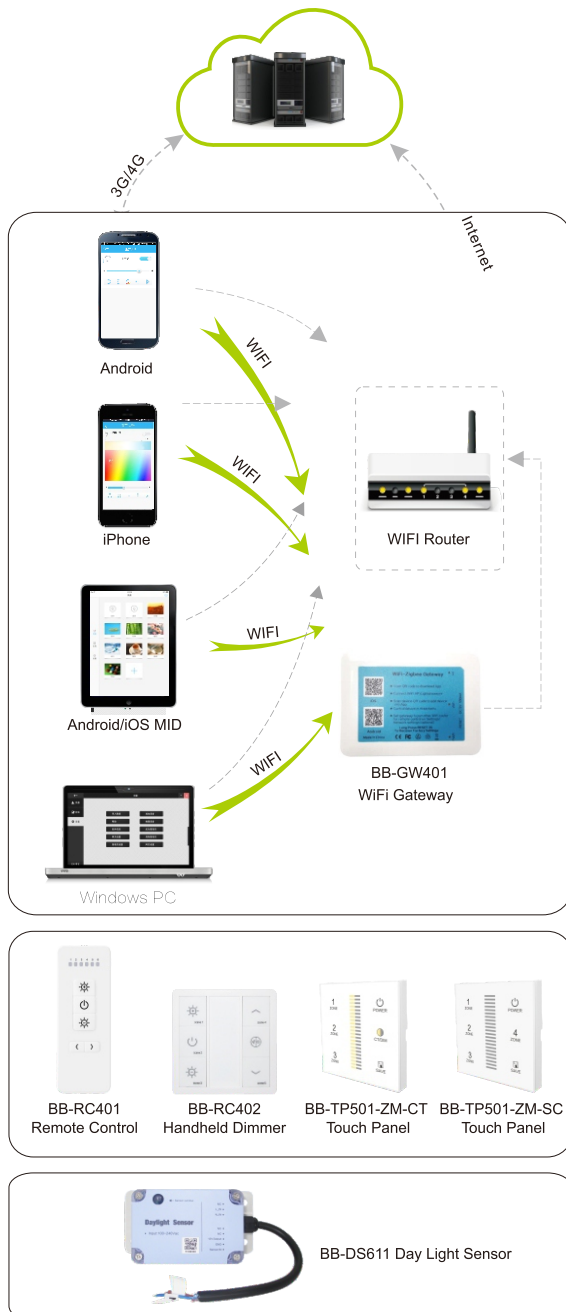- Indoor stadium lighting
- Factories lighting
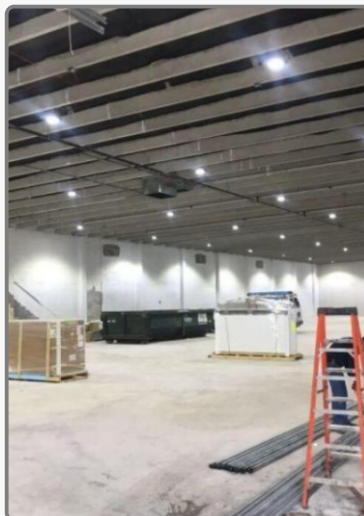
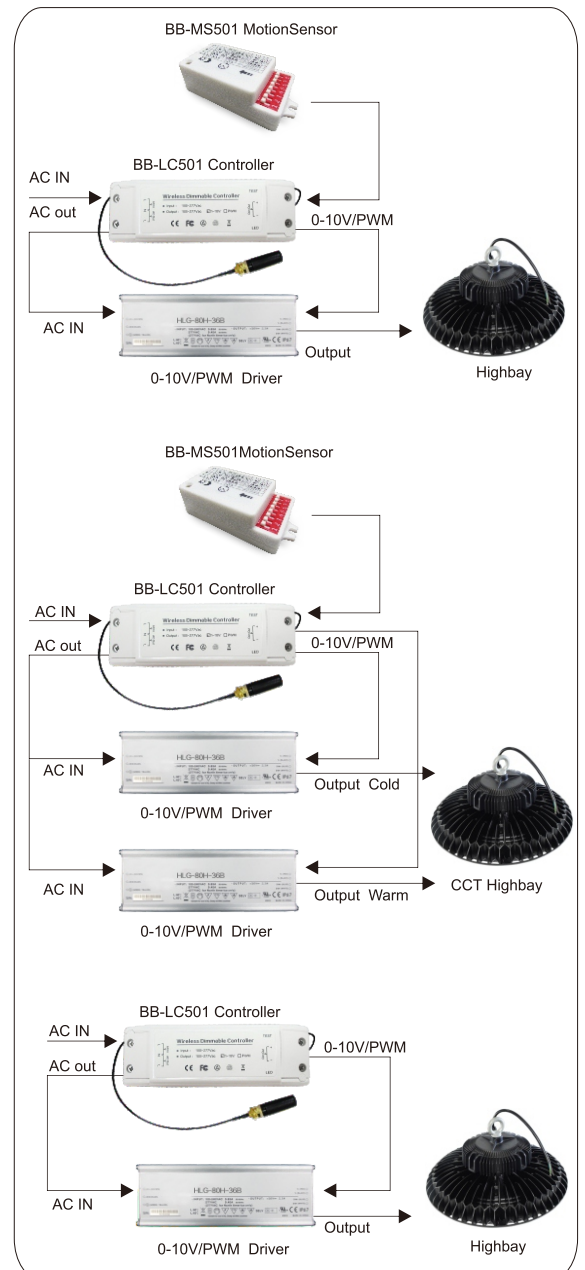**Warehouse lighting**   **Factories lighting**   **Garage lighting**
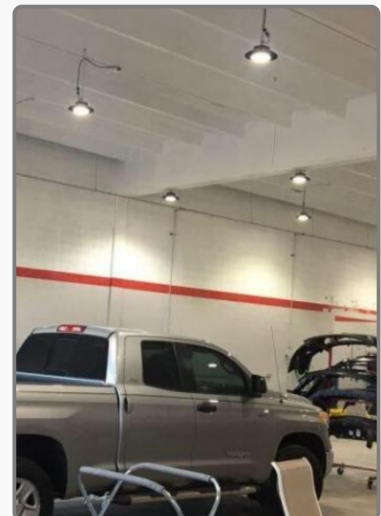
HIGHBAY CONTROL SYSTEM

- Support automatic luminance change with embedded daylight sensor.
- Support automatic CCT change with embedded temperature sensor for CCT light.
- Support more 500 devices control by one gateway, one app.
- Support frequency hopping technology for strong anti-jamming ability.
- Support mesh network, control range is more 50 meters.
- Support storage of 500 devices QRcodes in gateway.
- Support schedule settings for each device.

- Support above 10 mobile devices control on station mode.
- Support remotely control via internet on station mode.
- Support remote control/touch panel/handheld dimmer control as optional.
- Support scene/area/group control based on user preset.
- Support encryption transmission.
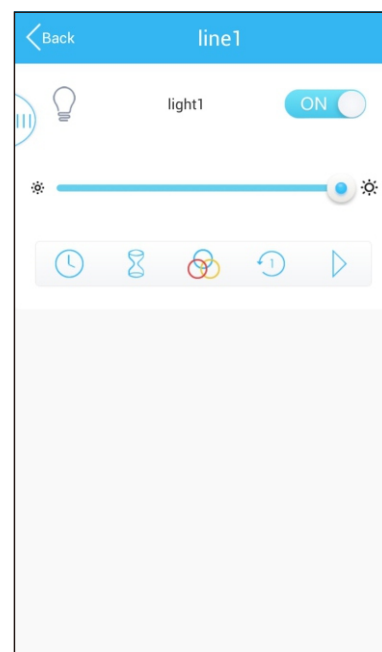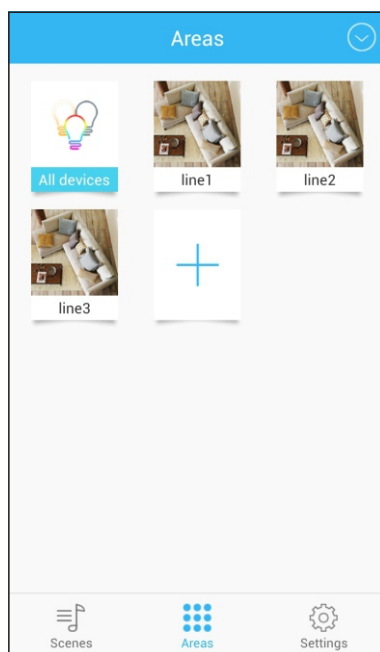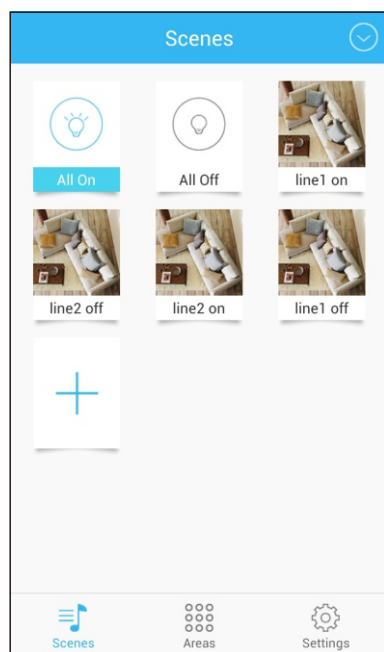- Support iOS/Android/Windows app.
- Suppprt Motion sensor

Control

Android

iPhone

Android/iOS MID

Windows PC

WIFI

WIFI Router

BB-GW401 WiFi Gateway

2.4G Wireless network

3G/4G

Internet

BB-RC401 Remote Control   BB-RC402 Handheld Dimmer   BB-TP501-ZM-CT Touch Panel   BB-TP501-ZM-SC Touch Panel

BB-DS611 Day Light Sensor

Lighting

BB-MS501 MotionSensor

BB-LC501 Controller
AC IN
AC out
0-10V/PWM

AC IN
0-10V/PWM Driver
Output
Highbay

BB-MS501MotionSensor

BB-LC501 Controller
AC IN
AC out
0-10V/PWM

AC IN
0-10V/PWM Driver
Output Cold

AC IN
0-10V/PWM Driver
Output Warm
CCT Highbay

BB-LC501 Controller
AC IN
AC out
0-10V/PWM

AC IN
0-10V/PWM Driver
Output
Highbay

System Diagram

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Parameters

Params	BB-GW501 WiFi-Zigbee Gateway	BB-RC402 Handheld Dimmer	BB-RC401 Remote Control	BB-TP501-ZM-CT Touch Panel
Input Voltage	5Vdc	5Vdc(Charge）	5Vdc(Charge）	110Vac-240Vac
Adapter	5V1A MicroUSB	5V1A MicroUSB	5V1A MicroUSB	—
Standby Current	—	10uA	10uA	—
Frequency	2.4G	2.4G	2.4G	2.4G
Control Range	50m	50m	50m	30m
Operating Temp	-20°C - 70°C	-20°C - 50°C	-20°C - 50°C	-20°C - 55°C

Params	BB-TP501-ZM-SC Touch Panel	BB-LC401 Daylight Sensor	BB-LC501 Controller	BB-MS501_12 MotionSensor
Input Voltage	110Vac-240Vac	100-240Vac	100-240Vac	12Vdc
Adapter	—	—	0 - 10V	12Vdc
Standby Current	—	—	20mA	—
Frequency	2.4G	2.4GHz	2.4GHz	5.8GHz
Control Range	30m	50m	—	—
Operating Temp	-20°C - 55°C	-40°C - 85°C	-40°C - 85°C	-20°C - 60°C

iLightsIn Apps

The Apps can download from Apple app market and Android app market by searching iLightsIn. Windows version is also ready.

Optional Accessories

BB-GW401
WiFi Gateway

BB-RC401
Remote Control

BB-RC402
Handheld Dimmer

BB-TP501-ZM-CT
Touch Panel

BB-TP501-ZM-SC
Touch Panel

BB-LD503-Z-SC Controller

Wiring

L

100-277VAC

N

Wireless Dimmable Controller

Connector

Connector

ACN

ACL Connector

L
N
L

Acin Acout

Wireless Dimmable Controller

Dimout
+
-

Connector DIM+

DIM-

Connector

ACL

ACN

LED Highbay Light

L

100-277VAC

N
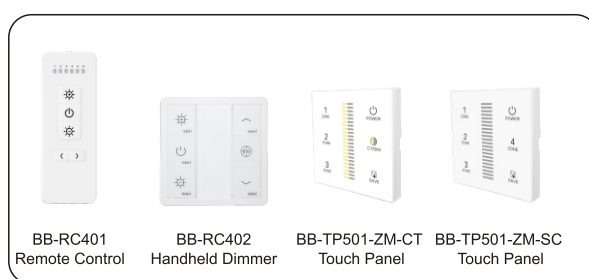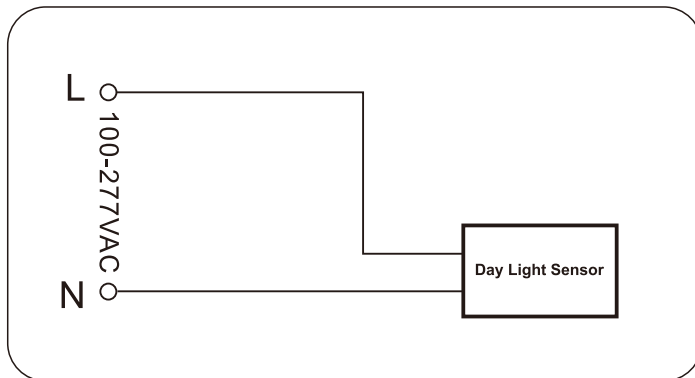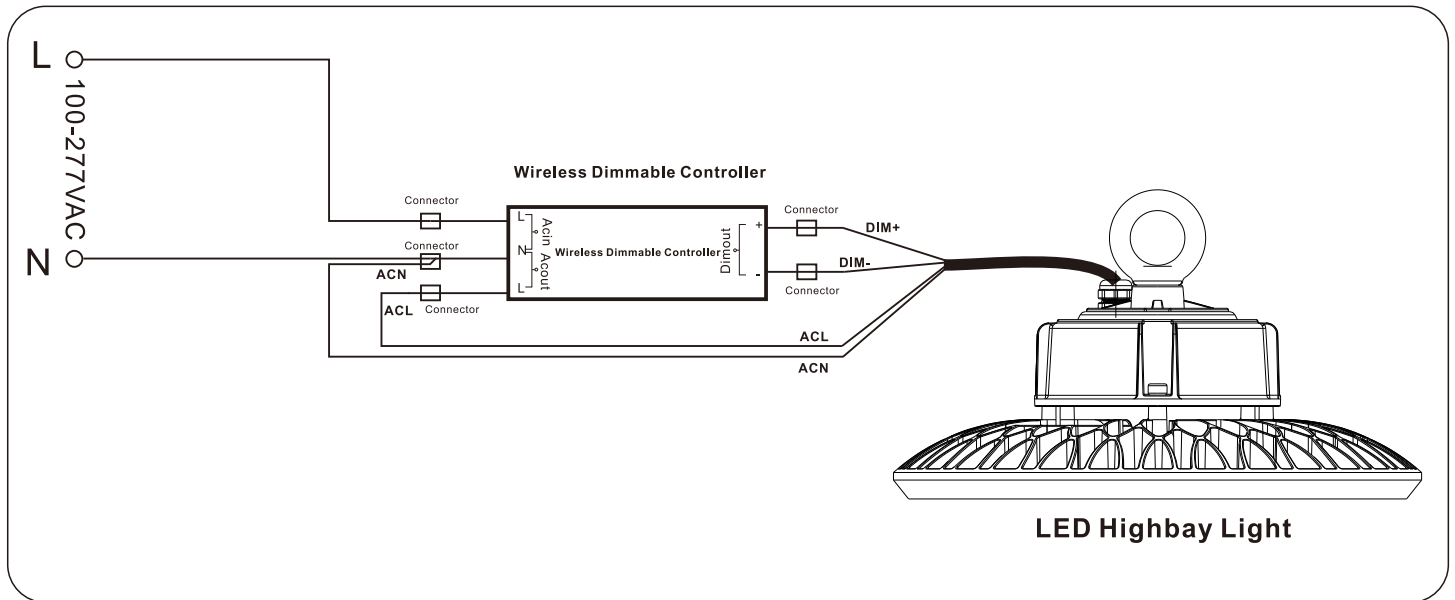
Day Light Sensor

*Only Wireless Dimmable Controller and Day Light Sensor must be wired in accordance with the above wiring.

*WiFi Gateway and Touch Panel are energized through an adapter, respectively.

ACCESSORIES

Optional Accessories

Mounting Accessories

UFO With Ring

UFO With Bracket

UFO with hook

Microwave Sensor

UFO With White Microwave Sensor

UFO With Black Microwave Sensor
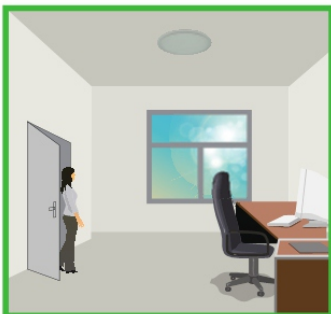
When someone enters the induction area during the day, when the light is sufficient, the lamp will not light.
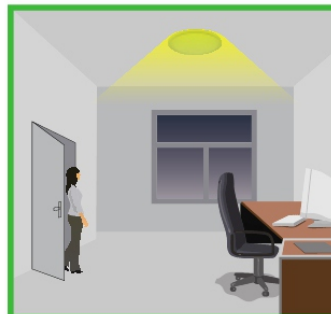
Evening to night when the lack of light, people into the lamp sensor area, the lights automatically open 100% brightness.
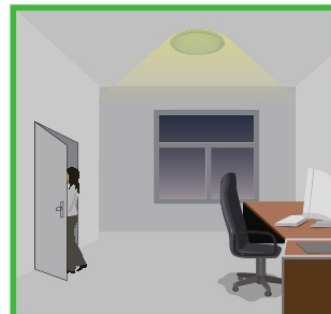
When the person leaves the sensing area, the brightness of the fixture will dim to 0/10% /20%/ 30% (optional) after the full delay time.

After the dimming delay time, if no one into the sensor area, the lights automatically shut down.

Accessories Options
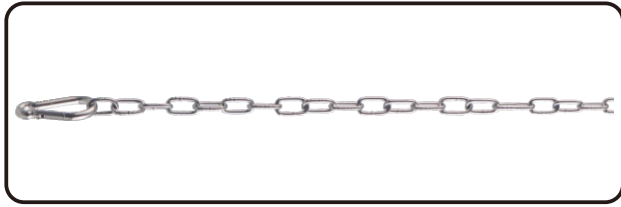
Chain
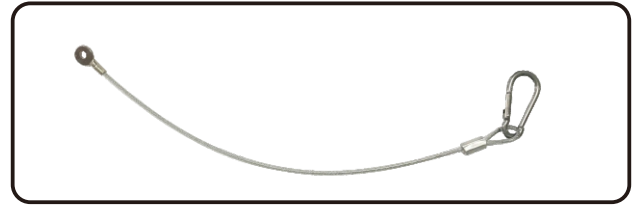
Wire rope

Emergency LED Driver

280mm
11. 02in

166mm
6.54in

100mm
3.94in

Emergency Driver A

UFO With Emergency Driver A

LED Driver
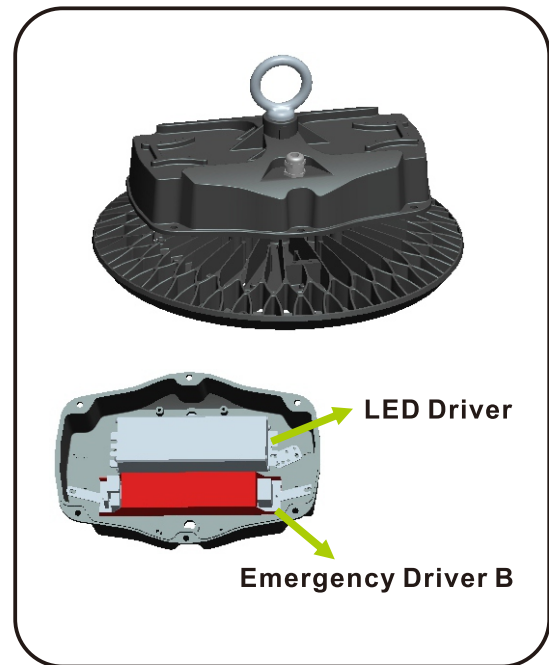
Emergency Driver B

UFO With Emergency Driver B

Emergency Driver A

Operation

★ AC operation, when AC power supplies to the AC driver and , the AC driver will operate the LED load as designed. Then the will be kept as charging status,and the indicator light will keep lighting. When press the test button, it will change into emergency status at a reduced lumen output for 30 seconds, during this time, the indicator will flash slowly (light on for 2 seconds, off for 2 seconds); then 30 seconds later, it will recover into AC operation.

★ Emergency operation, When AC power fails, automatically switches to emergency mode, keeping the LED load illuminated at a reduced lumen output for a minimum of 90 minutes, during this time, the indicator will flash slowly (light on for 2 seconds, off for 2 seconds); when AC power is restored, it will return to charging mode, and the indicator light will keep lighting.

SELF-TEST

★ The contain a control/monitor circuit which will perform a 30-second discharge test once a month and a full 90-minute discharge test once a year. At this time, the unit simulate an AC power failure and automatically switch to emergency mode.During routine testing,the unit will monitor the operation of the LED load, battery voltage, and emergency duration, if the unit detect any problems, the indicator will flash quickly.

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Emergency Driver B

Feature

★ UL Listed for us and canada.

★ Listed to UL924 and tested to CSA C22.2 NO.141 Field or factory installation.

★ High voltage output.

★ Low energy consumption CEC compliance.

★ Constant output power.

★ Self-testing.

★ Battery:over temperature protection.

Wiring
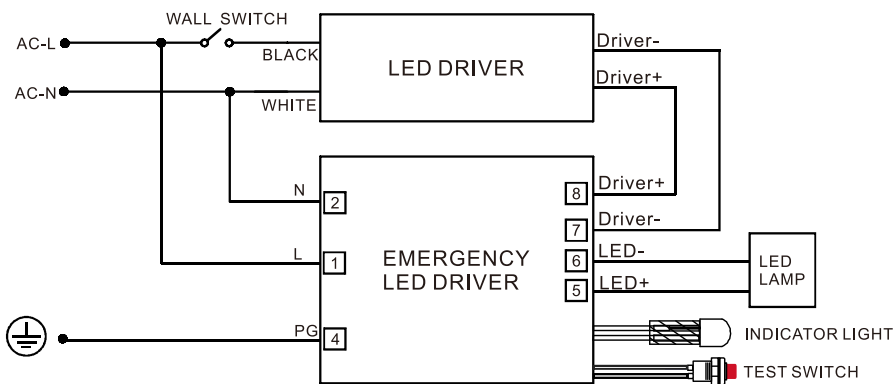
WIRING DIAGRAM 1

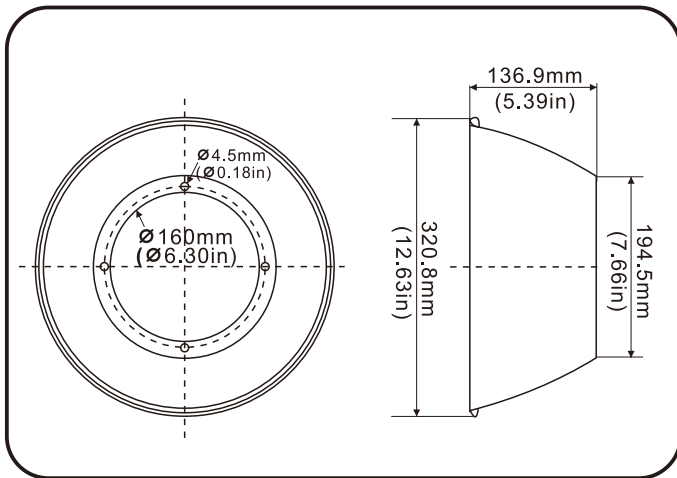(The lamp power is less than 120W and the driver's output current is less than 3A.)
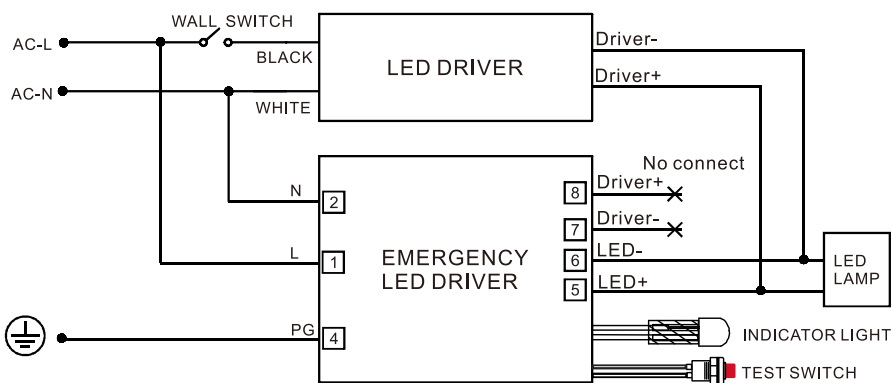
WIRING DIAGRAM 2

(The lamp power is more than 120W and turn off wall switch before testing.)

Aluminum Cover

UFO with aluminum cover

136.9mm
(5.39in)

Ø4.5mm
(Ø0.18in)

Ø160mm
(Ø6.30in)

320.8mm
(12.63in)

194.5mm
(7.66in)

Aluminum cover dimension(for UFO 100W)

136.9mm
(5.39in)

Ø4.5mm
(Ø0.18in)

370.5mm
(14.59in)

240.5mm
(9.47in)

Aluminum cover dimension(for UFO 150W)

136.9mm
(5.39in)

Ø4.5mm
(Ø0.18in)

Ø241mm
(Ø9.49in)

427.5mm
(16.83in)

277.5mm
(9.47in)
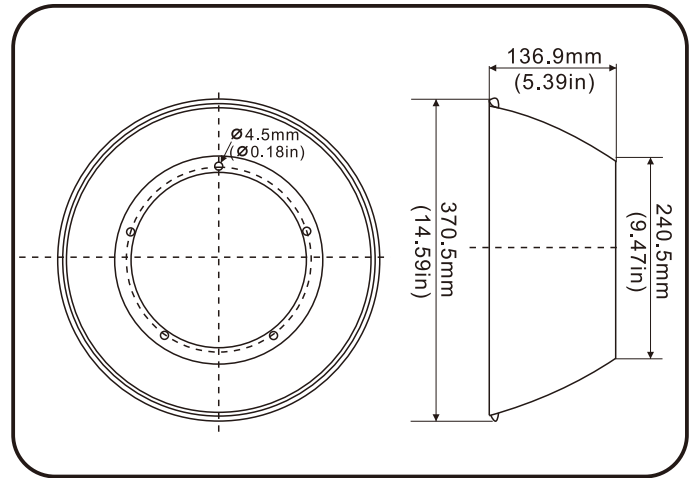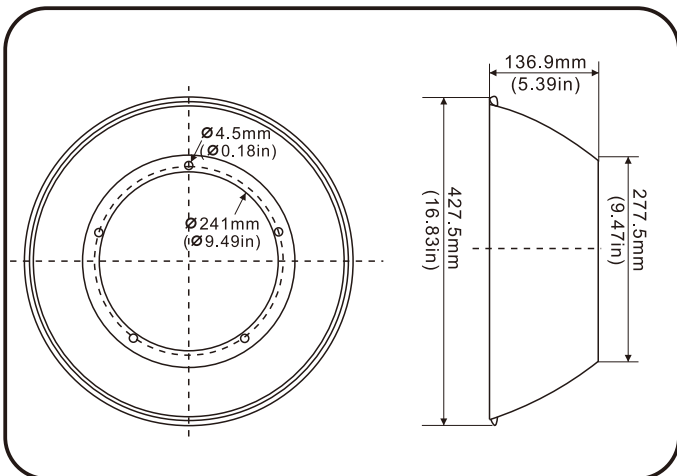
Aluminum cover dimension(for UFO 200W&240W)

152mm
(5.98in)

460mm
(18.11in)
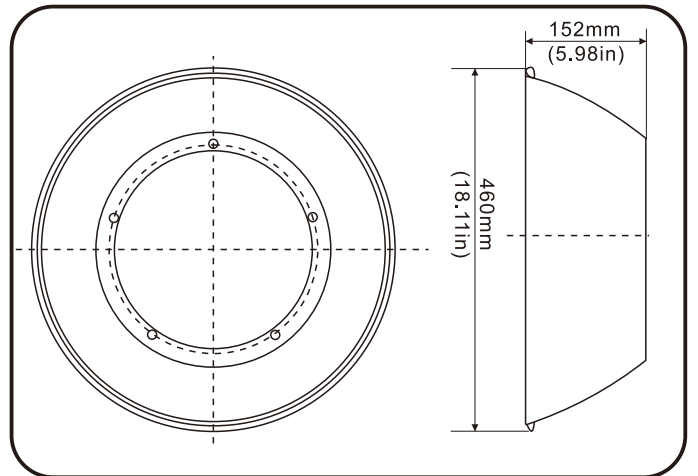
Aluminum cover dimension(for UFO 300W)

Package info

Item	Packaging	Carton Size(mm) (L*W*H)	Volume weight
100W-240W	50pcs/CTN	430x430x550mm	24.0kg
300W	20pcs/CTN	500x500x290mm	17.0kg

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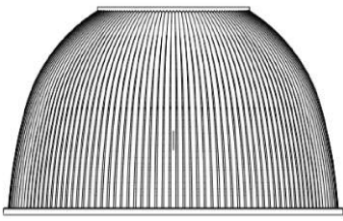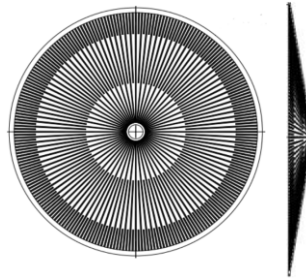
PC Cover

PC Cover

Conical Bottom Lens

Prismatic Drop Bottom Lens

UFO with PC Cover

UFO with PC Cover&
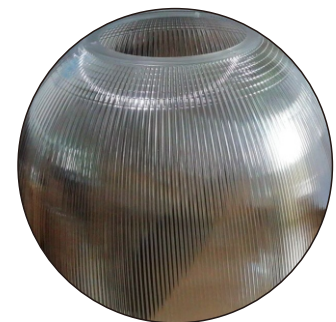Conical Bottom Lens

UFO with PC Cover&
Prismatic Drop Bottom Lens

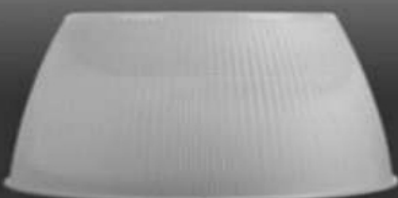Three colors of the PC cover: Clear, Frosted ,Milky.(The standard is Clear PC cover)
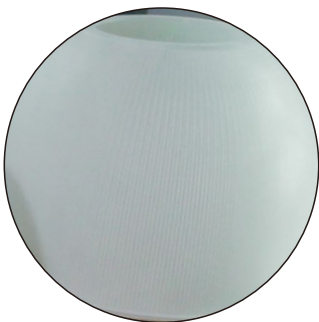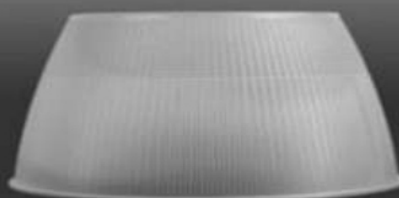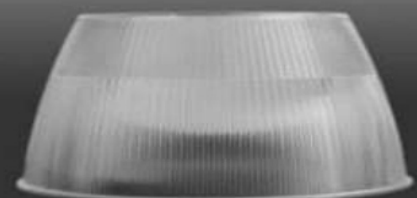
Milky reflector
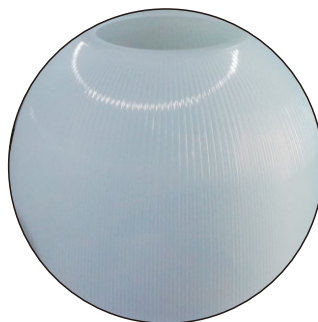
Frosted reflector

Clear reflector

Milky reflector

Frosted reflector

Clear reflector

Dimension And Package Info

Type	Wattage	Diameter	Height with UFO	Packaging	Volume weight
PC cover	100W	D310mm	H150mm	620x320x480mm 22-24pcs/ctn	22.0kg
	150W	D310mm	H105mm	620x320x480mm 22-24pcs/ctn	22.0kg
	200-240W	D410mm	H205mm	430*430*460mm 11-12pcs/ctn	20.0kg
	300W	D410mm	H206mm	430*430*460mm 11-12pcs/ctn	20.0kg
Conical Bottom Lens	100-150W	D305mm		500x330x330mm 100pcs/ctn (Steel ring springs are individually packaged)	13kg
	200-300W	D405mm		430x430x150mm 25pcs/ctn	9.6kg
Prismatic Drop Bottom Lens	200-300W	D405mm		430x430x250mm 25pcs/ctn	14kg

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INSTALLATION

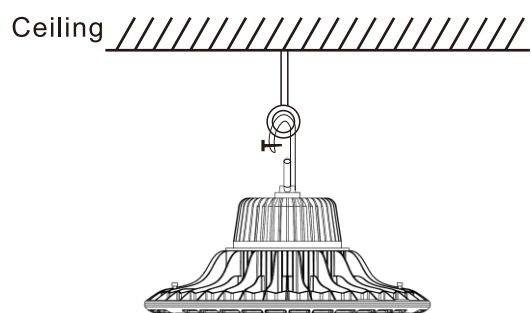UFO LED Highbay Light has four kinds of installation:

Ceiling

1.The suspension loop

Ceiling

Bracket

Screw

2.Bracket type

Ceiling
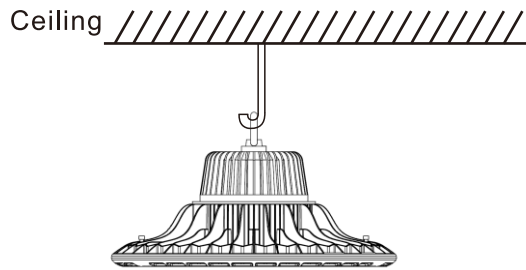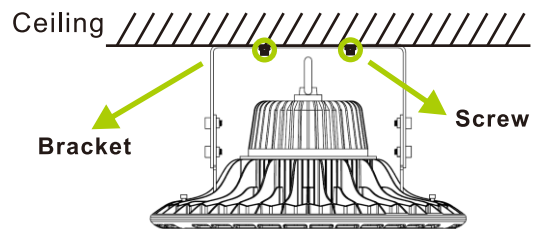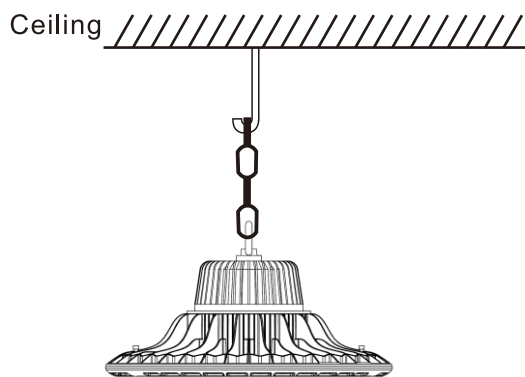
3.Suspension chain

Ceiling

4.Hook hanger

PACKING INFO

Packaging	Carton Size(mm) (L*W*H)	N.W	G.W	Volume weight
1pc/CTN(60W)	370*370*190mm	1.4kg	3.16kg	5.20kg
1pc/CTN(100W)	370*370*190mm	2.52kg	3.36kg	5.20kg
1pc/CTN(150W)	430*430*200mm	3.52kg	5.0kg	7.40kg
1pc/CTN(200W)	490*490*210mm	5.2kg	6.72kg	10.08kg
1pc/CTN(240W)	490*490*210mm	6.2kg	7.06kg	10.08kg
1pc/CTN(300W)	440*440*240mm	7.7kg	8.76kg	9.30kg