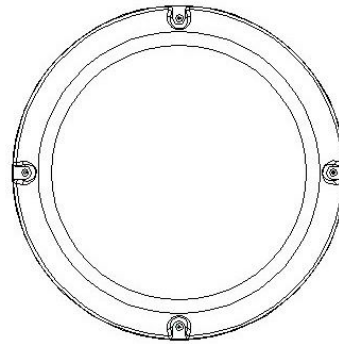
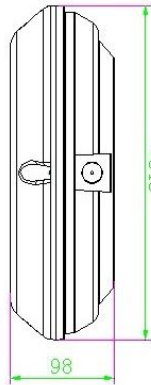


1. Product dimension:

SS-OYL-395,98mm-SMD2835-248P-23W-S/E/ES

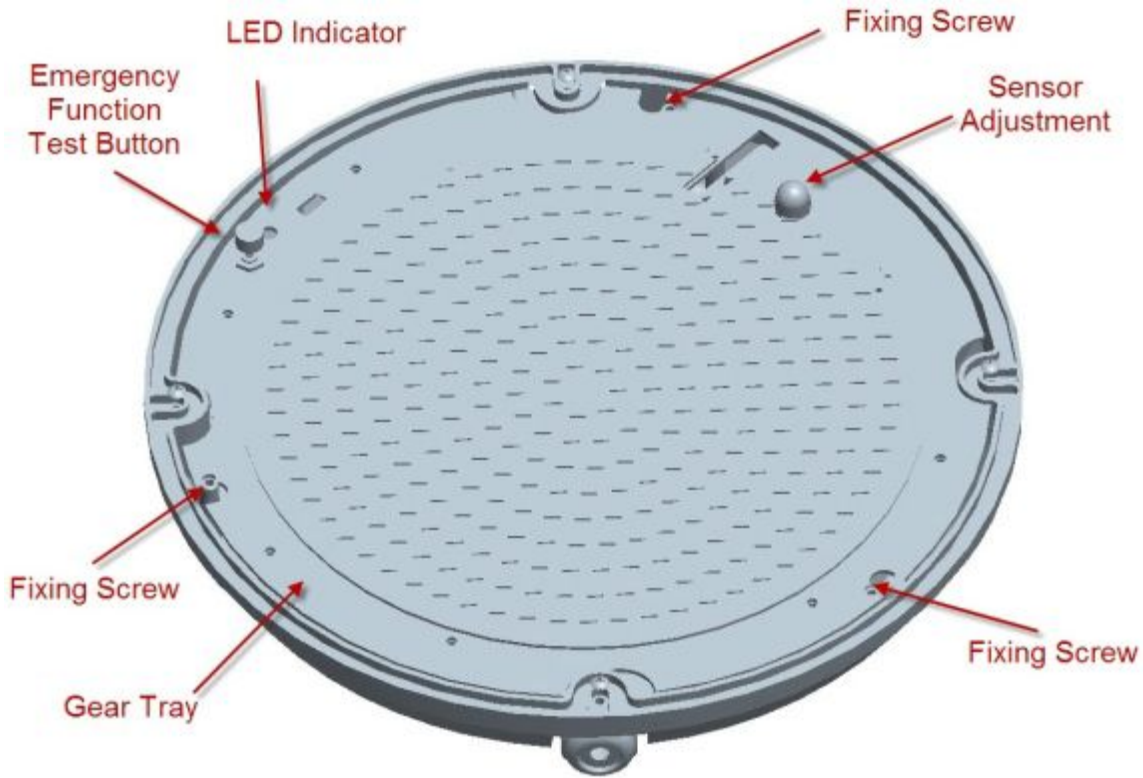
Series No.	Description	Finish
SS-OYL-395,98mm-SMD2835-248P-23W-C	Standard LED Bulkhead	White
SS-OYL-395,98mm-SMD2835-248P-23W-E	LED Bulkhead c/w 3 Hours Emergency	White
SS-OYL-395,98mm-SMD2835-248P-23W-S	LED Bulkhead c/w Microwave Sensor	White
SS-OYL-395,98mm-SMD2835-248P-23W-ES	LED Bulkhead c/w Microwave Sensor and 3 hours Emergency	White

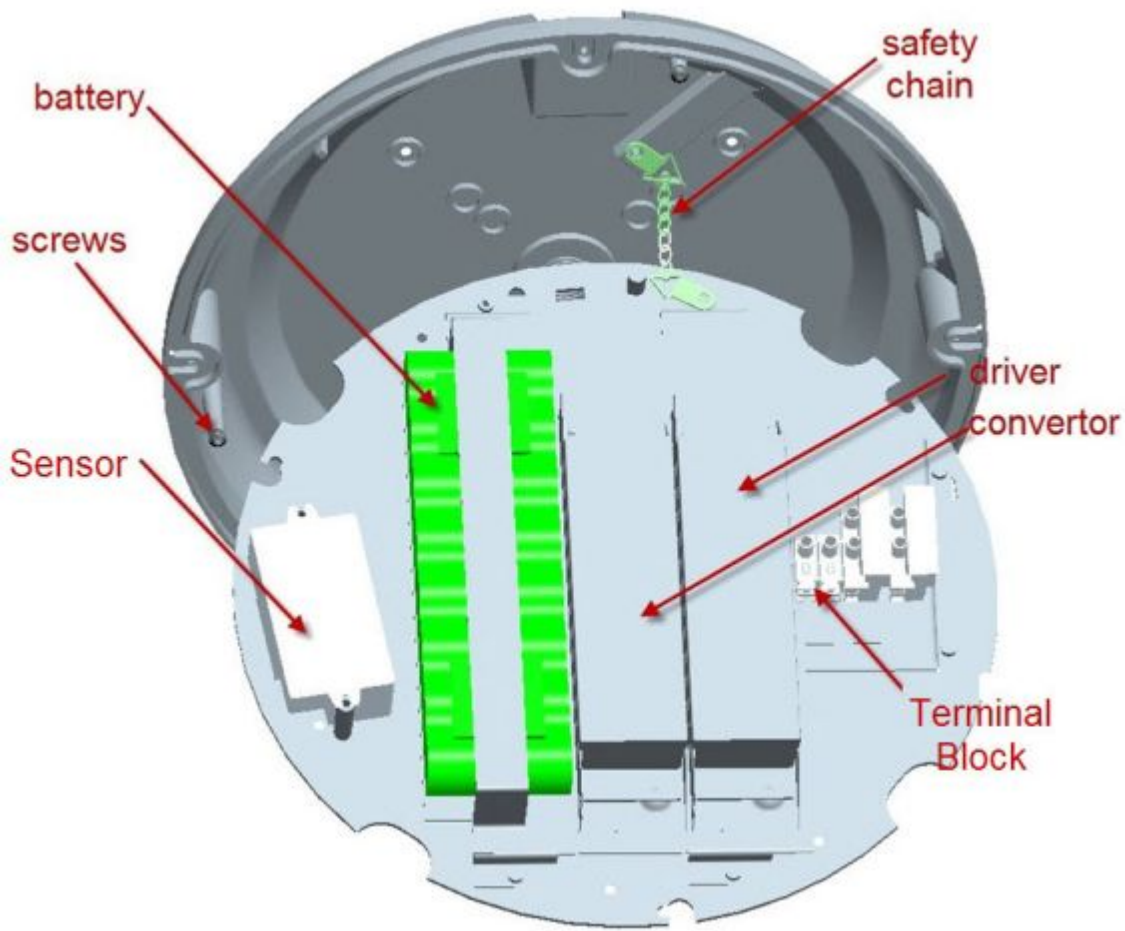


Model	Diameter (mm)	Height(m m)
SS-OYL-395mm-SMD2835-248P-23W	395	98



2. Key features





Product Features:

- LED light source, green and energy saving;
- IP65, waterproof;;
- Die-cast aluminum body and PC prismatic diffuser;
- 3 Hours emergency(customized);
- Microwave sensor;
 - Automatic dims when detected area is unattended
 - Adjustable range (1-8m)
- c/w M20 x 1.5 IP65 Gland
- Anti-glare design: against from the dizzy light;
- No UV, no infrared, no other Hazardous Substances;
- No noise, no flicker, resistance from vibration;
- CE&ROHS compliant;.
- Two years warranty;.

Input voltage (50/60Hz)	AC 100-240V
Power consumption	20 W
Power factor(PF)	>0.9
LED Driver output voltage	DC 30V
LED Driver output current	550mA ±25mA
Light source	Epistar 2835 SMD LED
Color Temperature	3000K /4000K 6000K (optional)
CRI	>75
Flux luminous	1800- 2000Lm
Luminous efficacy	105Lm /W for SS-OYL-395mm-SMD2835-248P-23W-C 100Lm /W for SS-OYL-395mm-SMD2835-248P-23W-S 100Lm W for SS-OYL-395mm-SMD2835-248P-23W-E 95Lm /W for SS-OYL-395mm-SMD2835-248P-23W-Es
View angle	95.8°
Housing material	Die-cast aluminum base, PC prismatic diffuser
IP Rating	IP 65
Life Span	Up to 35, 000 hours
Operation temperature	-10degC to 40degC
Dimension	∅ 315 *98mm
Package	330*330*110mm
Net Weight	3.8KG(approx)
Emergency:	
Type	Maintained
Battery(High-Temperature)	9.6V 3.2AH Ni-MH rechargeable
Emergency output	30% nominal power
Emergency duration	>3 Hours
Charge time	< 12Hours
LED indication	Red: charging; Green: fully charged; Yellow: battery fault or disconnected
Test button	AC power on: Push and hold the button to enter emergency mode; release button to come back AC power mode

Microwave Sensor:	
Sensor range	180 degree; 0.5 - 8M(adjustable)
Sensing interval	10s to 5min max (adjustable)
Sensing interval output	25% nominal power

Input: AC100-240V 50/60Hz

PF>0.9

LED Driver Output: DC 30V

LED Driver output current: 550mA±25mA

Conversion Efficiency>85%

Beam angle: 120°

Color Rendering Index: CRI>75Ra

Luminous Efficacy: 82Lm/W for Sensor version

67.5Lm/W for Emergency version 65Lm/W for Sensor+ Emergency Version

Mechanical Characteristics:

Working temperature: 55 degrees Celsius at room temperature 25 degree Celsius

Ambient temperature: -20~50 degrees Celsius

3. Specification

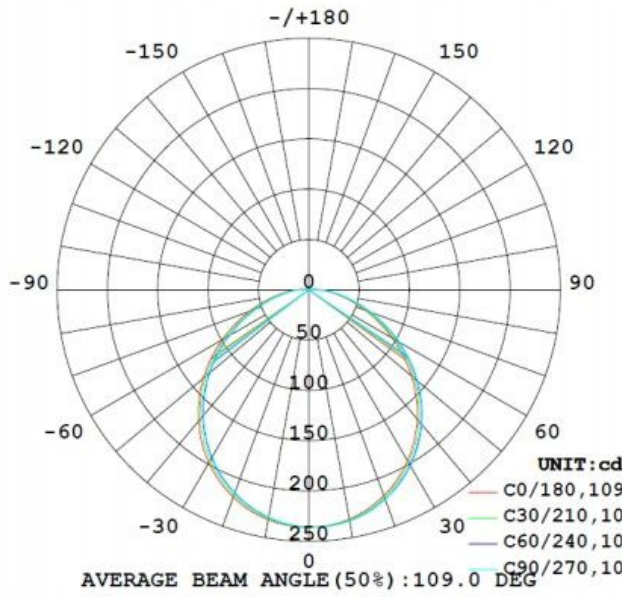
Input voltage: 100~240VAC

CRI:>75Ra

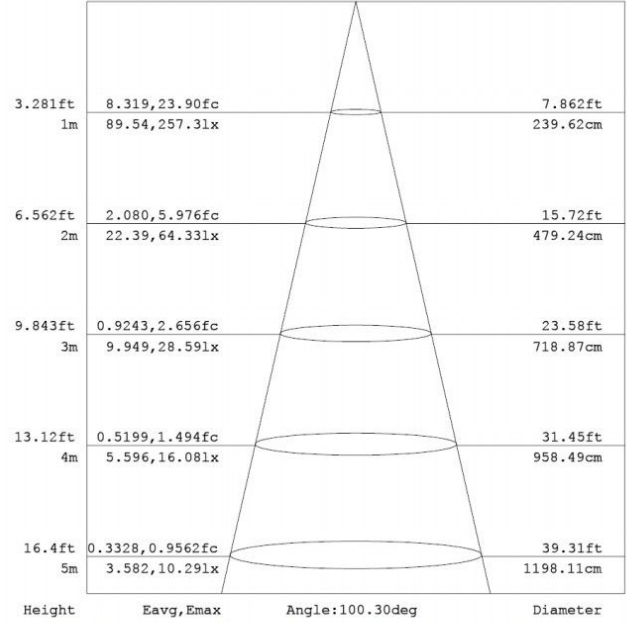
Model	LED	Wattage	Colour Temperature:	Lumens	Size
SS-OYL-395,98mm-SM D2835-248P-23W-C	248Pcs SMD EPISTAR 2835 LEDs	20W	3000K;4000K 6000K	1800Lm	∅ 395mm*98mm
SS-OYL-395,98mm-SM D2835-248P-23W-S	248Pcs SMD EPISTAR 2835 LEDs	20W	3000K;4000K 6000K	1800Lm	∅ 395mm*98mm
SS-OYL-395,98mm-SM D2835-248P-23W-E	248Pcs SMD EPISTAR 2835 LEDs	20W	3000K;4000K 6000K	1800Lm	∅ 395mm*98mm
SS-OYL-395,98mm-SM D2835-248P-23W-ES	248Pcs SMD EPISTAR 2835 LEDs	20W	3000K;4000K 6000K	1800Lm	∅ 395mm*98mm

4. Technical information

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Illuminated area and average illumination curve
 Flux out: 429.0 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

1. Replacement for traditional recessed lights

5. Application information

- 2. Ceiling light
- 3. Shopping center
- 4. Walkway
- 5. Hotel
- 6. Restaurant
- 7. Entertainment places
- 8. Display case
- 9. Museum
- 10. Household
- 11. Entertainment places
- 12. Residential
- 13. Corridor





6. Package & Certification

Model	Net Weight : (KG)	Volumetric weight(KG)	Inner Box Size: (mm)	Carton Size: (mm)	Quantity per Carton	Gross Weight Per Carton	Volumetric weight per carton(kg)
SS-OYL-395,98mm-248P-23W-SMD	0.89	4.65	34×11×34	500 x 340 x 350	4	8.44	27.3

7. Caution

- Suitable for wall and ceiling mounting, indoor using only
- Only to be installed with qualified electrician
- Kindly notice the power is off when installation
- Supplied with LED and power supply

8. Installation

These instructions should be read in full and retained after Installation for future reference.

SAFETY

- It is recommended that this luminaire is installed by a qualified electrician and installed to the current edition of the IEE wiring regulations.
- Before installation or maintenance is carried out, ensure that the mains supply is turned off, and adequately isolated.
- Check the total load of this and any other luminaires on the same circuit does not exceed that of the fuse or main circuit breaker.

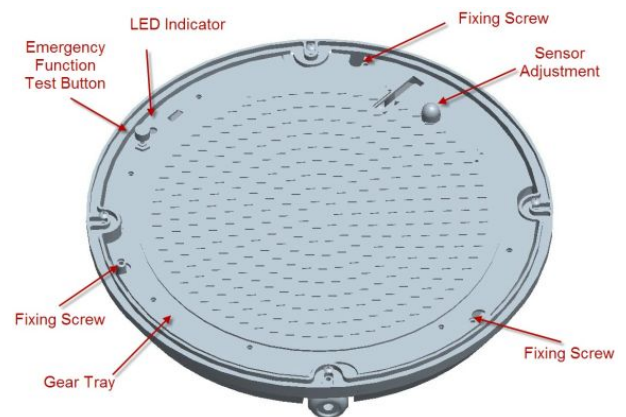


Fig1

FIXING INSTRUCTIONS

- Remove the diffuser from the base by unscrewing the 4 retaining screws and lifting away.
- Unscrew the 3 fixing screws (**see Fig 1**) to remove the LED

gear tray and gain access to the terminal block. A safety chain is provided to prevent the gear tray from falling during installation.

- Drill through 4 of the 12 fixing hole positions) on the back of the base and side cable entry(see Fig 2).

Then mark the position of the luminaire to the fitting surface. Make sure the fitting surface can bear the weight of the luminaire. Drill the marked holes and fit suitable wall/surface plugs.


- Feed the power supply cable through the gland and cable entry.

- **Connect the cable to the terminal block as follows:**

- For the **SS-OYL-395mm-248P-23W-SMD** versions(see Fig.3):

LIVE wire (Red or Brown) to the terminal marked **L**

NEUTRAL wire (Black or Blue) to the terminal marked **N**


EARTH wire(Green/Yellow) to the terminal marked 

- For the **SS-OYL-395mm-248P-23W-SMD** emergency versions(see Fig 4):

PERMANENT LIVE (Red or Brown) to the terminal marked **PL**

SWITCH LIVE (Red or Brown) to the terminal marked **SL**

NEUTRAL (Black or Blue) to the terminal marked **N**

EARTH (Green/Yellow) to the terminal marked 

(Note: If there are only 3 lead wires from the main supply, please short PL and SL, and then connect Live Wire to PL or SL.)

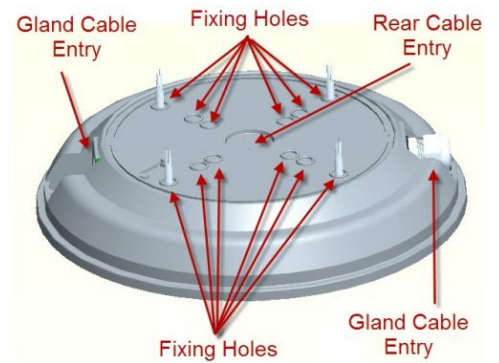


Fig2

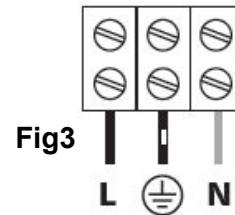


Fig3

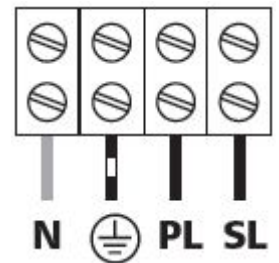


Fig 4

- Ensure that there are no exposed conductors, loose or trapped cable strands and re-fit the gear tray.
- Refit the diffuser by screwing in place.
- Now the luminaire is ready for use.

EMERGENCY VERSION ONLY

• **Emergency function test button**, (see Fig 1) after installation with the mains supply on, push the test button to test the emergency function, if the LED brightness is reduced to emergency brightness (30% of full brightness), the function is working.

- **LED Indication:**

Red indicates the battery is charging

Green indicates the battery is fully charged

Yellow indicates the battery is disconnected or damaged

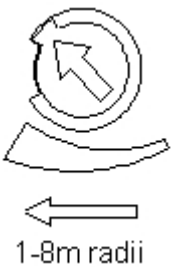
Microwave sensor instructions

The sensor is an active motion detector, it emits high-frequency electro-magnetic waves (5.8GHz) and receives their echo. The sensor detects the change in echo from the slightest movement in its detection zone. A microprocessor then triggers the “switch light ON” command. Detection is possible through doors, panes of glass or thin walls.

Important: persons or objects moving

towards the sensor are detected best!

Reach setting (sensitivity)



Reach is the term used to describe the radius of the circular detection zone produced on the ground.

After mounting the sensor light at a height of 2.5m, turn the reach control completely in anti-clockwise direction to select minimum reach

(approx.1 m radius), and turn the reach control completely in a clockwise direction to select the maximum reach (approx.8m radius).

The LED indicator will flash when the reach control is rotated . It flashes 1 to 10 times, representing 1m to 8m for the radius of the detection zone.

NOTE: The above detection distance is measured using a person who is between 1.6m~1.7m tall with an average build, moving at a speed of 1.0~1.5m/sec. if any of these variables are changed, the detection distance will also resultantly change.

SENSOR TECHNICAL SPECIFICATIONS

Input Voltage:12V DC

Output Voltage:5V DC

Sensor principle: Microwave motion detector

Installation: Indoors, Ceiling mounting

HF system: 5.8GHz+/-75MHz CW radar, ISM band

Transmission power: <10mW

Detection angle: 360°

Detection range: up to 8m (on 100% sensitivity, frontal to the sensor, plain sensor without glass)

Motion detection: 0.3...3m/s (1...10km/h)

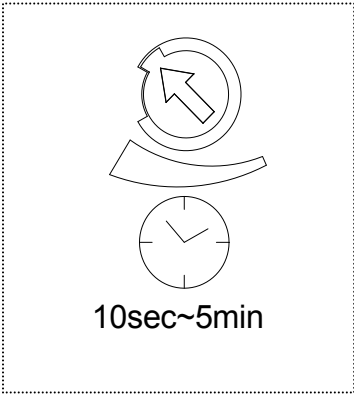
Time setting: 10seconds to 5 minutes

Light control: 2-2000 LUX

Power consumption: Approximately 0.9W

Operating conditions: Operating temperature, -10°C to 70°C

IP rating: IP 20 (mounting inside a fitting)



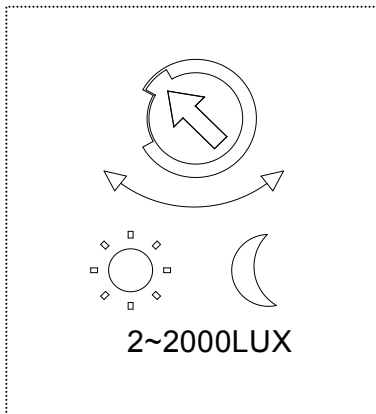
Time setting

The light can be set to stay ON for any period of time between approx. 10sec (dial turned fully anti-clockwise) and a maximum of 5min (dial turned fully clockwise). Any movement detected during the “on” time will reset the timer. The LED indicator will flash when adjusting the time setting dial. The number of flashes means the following:

- 1 flash = 10sec, 2 flashes = 20sec, 3 flashes = 30sec,
- 4 flashes = 45sec, 5 flashes = 60sec, 6 flashes = 90sec,
- 7 flashes = 2min, 8 flashes = 3min, 9 flashes = 4min,
- 10 flashes = 5min .

NOTE: After the light switches off, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting



The chosen light response threshold can be infinitely from approx. 2-2000lux. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 2 Lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

Note: This setting has not been used!

Troubleshooting:

Malfunction	Possible Cause	Remedy
The luminaire will not work	Wrong light-control setting selected	Adjust setting
	Luminaire faulty	Change luminaire
	Mains switch OFF	Switch ON
The luminaire is always ON	Continuous movement in the detection zone	Check zone setting
The luminaire works without any identifiable movement	The sensor not properly mounted for detecting movement reliably	Securely mount sensor enclosure and luminaire
	Movement occurred, but not identified by the sensor (movement over boundary wall, movement of a small	Check zone setting

	object in immediate luminaire vicinity etc.)	
The luminaire will not work despite movement	Rapid movements are suppressed to minimize false triggering or the detection zone you have set is too small	Check zone setting