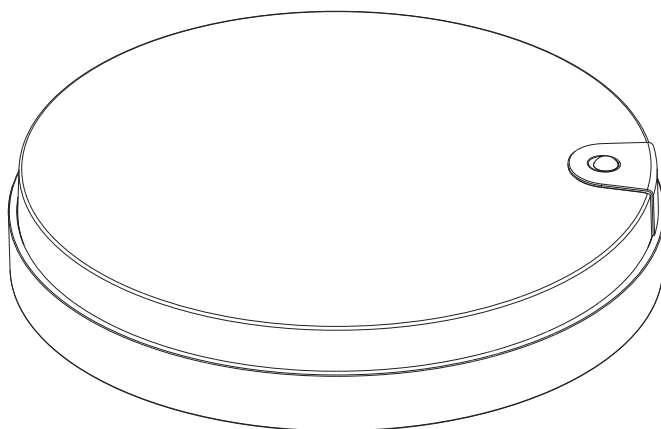


OPERATING INSTRUCTION

LED CEILING LAMP

GRAVITALED



CIRRO

IP44

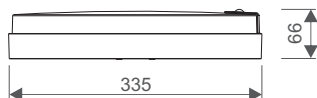


MAIN TECHNICAL DATA

Input: **AC 220-240V 50/60Hz**

Light source: **LED SMD2835**

Working temperature: **-25°C---+50°C**

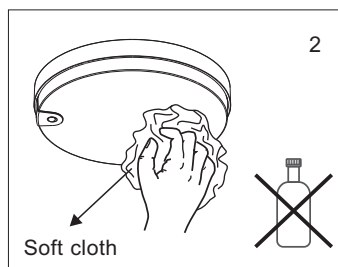
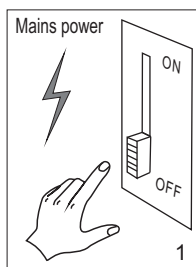


CAUTION

1. The product must be installed by professional technicians and power supply must be cut off before installation.
2. The installation wiring must be 2~3 x 1.0-2.5mm² and wired in accordance with the latest IEE electrical regulations or the national requirements. (Recommend type of cable is H03VV-F)
3. The light source of this luminaire is replaceable, and it must be operated by professional technicians when power supply is cut off in advance.

MAINTENANCE

1. Cut off the mains power first.
2. Don't use chemical reagent to clean lamp.



DESCRIPTION OF MICROWAVE SENSOR

- **Detection zone Max. (D)** : 10m (@3m height)
- **Detection sensitivity**: 50%, 100%, adjustable
- **Hold time**: 10 sec, 1 min, 5 min, 20 min, adjustable
- **Daylight**:

ON: 10, 30, 50 Lux, adjustable or disable

OFF: 50, 100, 200 Lux, adjustable or disable

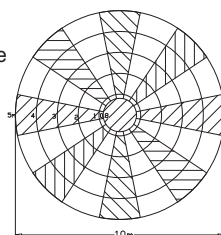
- **Stand-by Period** (Refer to "Low light") :

0 sec, 5 min, 30 min, +∞, adjustable

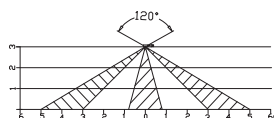
- **Mounting height**: 3m

- **Motion detection**: 1m/s

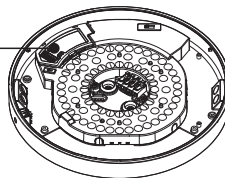
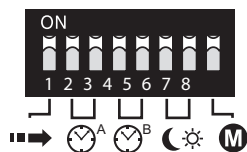
- **Detection angle**: 120°(wall installation),
360°(ceiling installation)



pattern (Unit: m)



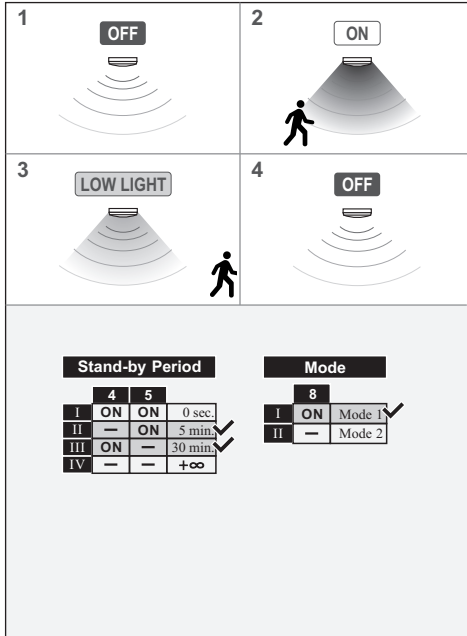
PARAMETER SETTING OF PIR SENSOR



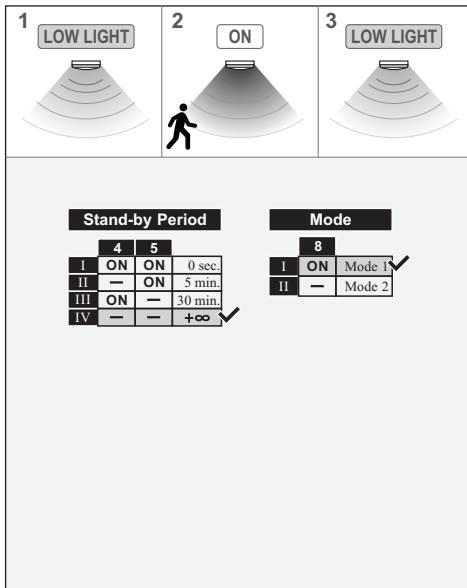
SYMBOL	FEATURE	DESCRIPTION	OPTIONAL SETTINGS	APPEARANCE	DIPSWITCH-SETTINGS																									
	Detection area	The detection range that the motion sensor can detect.	100% 50%		<table><tr><td></td><td>1</td><td></td></tr><tr><td>I</td><td>ON</td><td>100%</td></tr><tr><td>II</td><td>—</td><td>50%</td></tr></table>		1		I	ON	100%	II	—	50%																
	1																													
I	ON	100%																												
II	—	50%																												
	Hold time	The time period that the light stays on at 100% brightness when motion is detected.	10 sec. 1 min. 5 min. 20 min.		<table><tr><td></td><td>2</td><td>3</td><td></td></tr><tr><td>I</td><td>ON</td><td>ON</td><td>10 sec.</td></tr><tr><td>II</td><td>—</td><td>ON</td><td>1 min.</td></tr><tr><td>III</td><td>ON</td><td>—</td><td>5 min.</td></tr><tr><td>IV</td><td>—</td><td>—</td><td>20 min.</td></tr></table>		2	3		I	ON	ON	10 sec.	II	—	ON	1 min.	III	ON	—	5 min.	IV	—	—	20 min.					
	2	3																												
I	ON	ON	10 sec.																											
II	—	ON	1 min.																											
III	ON	—	5 min.																											
IV	—	—	20 min.																											
	Standby-period	The time period that the light stays on at standby dim level before switching off. Note: This setting applies only when Mode 1 is selected.	0 sec. 5 min. 30 min. +∞		<table><tr><td></td><td>4</td><td>5</td><td></td></tr><tr><td>I</td><td>ON</td><td>ON</td><td>0 sec.</td></tr><tr><td>II</td><td>—</td><td>ON</td><td>5 min.</td></tr><tr><td>III</td><td>ON</td><td>—</td><td>30 min.</td></tr><tr><td>IV</td><td>—</td><td>—</td><td>+∞</td></tr></table>		4	5		I	ON	ON	0 sec.	II	—	ON	5 min.	III	ON	—	30 min.	IV	—	—	+∞					
	4	5																												
I	ON	ON	0 sec.																											
II	—	ON	5 min.																											
III	ON	—	30 min.																											
IV	—	—	+∞																											
	Daylight	In Mode 1: When the daylight level falls below the LUX value set under column "ON", the light responds to motion. When the daylight level rises above this set value, the light remains switched off. Note: The LUX value under the "OFF" column does not apply when MODE 1 is selected. In Mode 2: When the daylight level falls below the selected value under column "ON", the light switches on at standby level automatically and switches to 100% based on motion. When the daylight level rises above the selected LUX value under column "OFF", the light switches off.	ON Disable 50 Lux 30 Lux 10 Lux OFF Disable 200 Lux 100 Lux 50 Lux		<table><tr><td></td><td>6</td><td>7</td><td>ON</td><td>OFF</td></tr><tr><td>I</td><td>ON</td><td>ON</td><td>Disable</td><td>Disable</td></tr><tr><td>II</td><td>—</td><td>ON</td><td>50 Lux</td><td>200 Lux</td></tr><tr><td>III</td><td>ON</td><td>—</td><td>30 Lux</td><td>100 Lux</td></tr><tr><td>IV</td><td>—</td><td>—</td><td>10 Lux</td><td>50 Lux</td></tr></table>		6	7	ON	OFF	I	ON	ON	Disable	Disable	II	—	ON	50 Lux	200 Lux	III	ON	—	30 Lux	100 Lux	IV	—	—	10 Lux	50 Lux
	6	7	ON	OFF																										
I	ON	ON	Disable	Disable																										
II	—	ON	50 Lux	200 Lux																										
III	ON	—	30 Lux	100 Lux																										
IV	—	—	10 Lux	50 Lux																										
	Mode	Mode 1: Daylight Threshold Mode – The light remains off when motion is detected if the daylight level is above the LUX value set under column "ON". And the light responds to the motion when the daylight level falls below this selected LUX value. Mode 2: Daylight Priority Mode - The light remains off when motion is detected if the daylight level is above the LUX value set under column "OFF". And when the daylight level drops below the selected LUX value under column "ON", the light automatically turns on to the standby level and switches to 100% based on motion.	Mode 1 Mode 2		<table><tr><td></td><td>8</td><td></td></tr><tr><td>I</td><td>ON</td><td>Mode 1</td></tr><tr><td>II</td><td>—</td><td>Mode 2</td></tr></table>		8		I	ON	Mode 1	II	—	Mode 2																
	8																													
I	ON	Mode 1																												
II	—	Mode 2																												

DESCRIPTION OF SENSOR FUNCTIONS

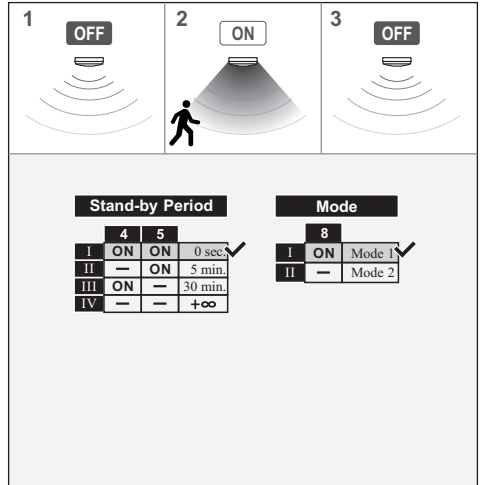
A Normal light-control function
Sensor with **On/Low light(10%)**/Off, three-step dimmable.



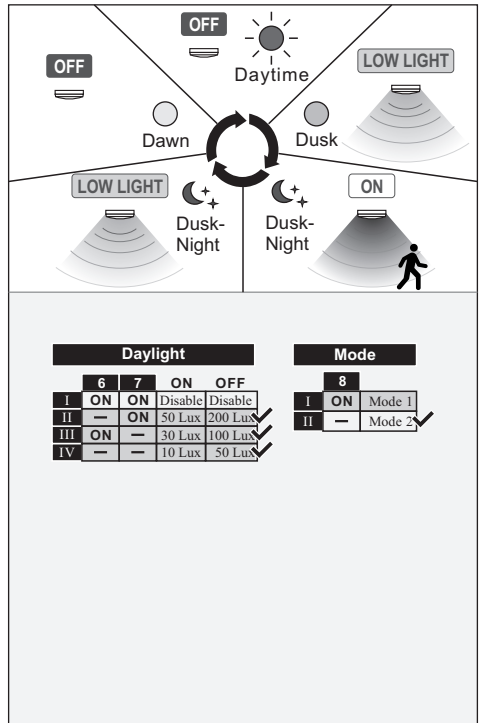
C Normal light-control function
Sensor with **On/Low light(10%)**.



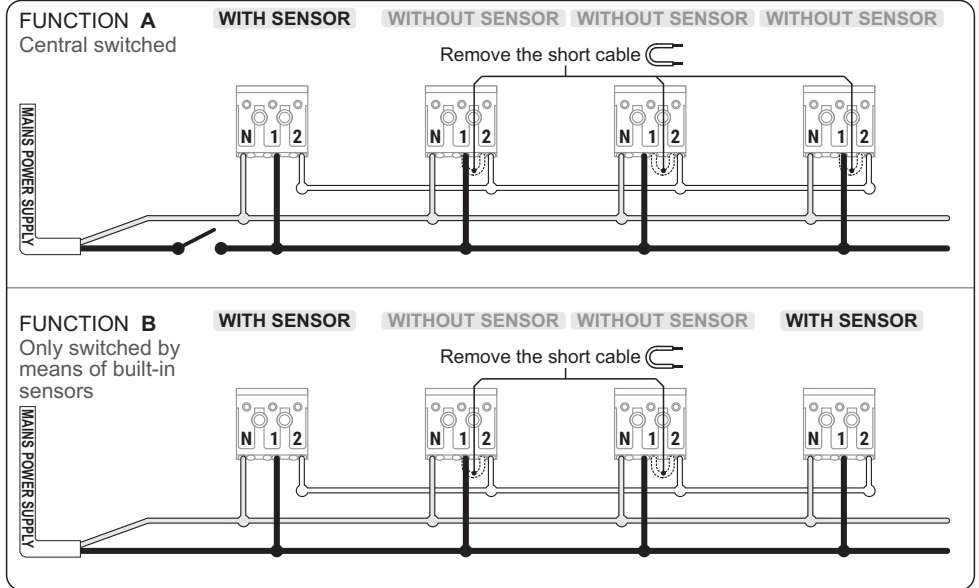
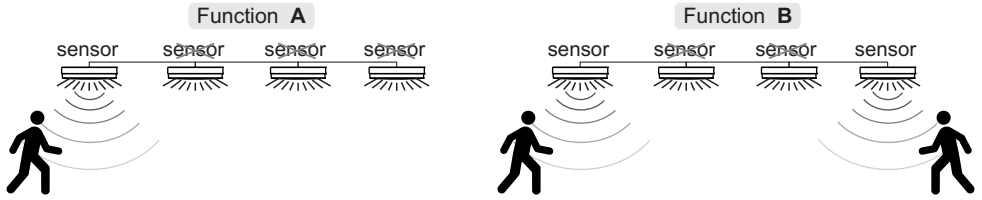
B Normal light-control function
Sensor with **On/Off**, two-step dimmable.



D Photocell prioritized function
Sensor with **On/Low light(10%)**



MASTER/SLAVE FUNCTION



The number of slaves is limited. (Max. 30 pcs)

L

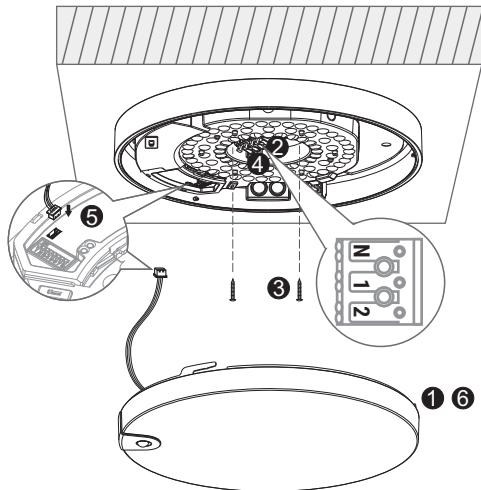
N

Output of sensor

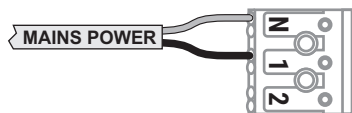
MOUNTING

SURFACE

1. Disassemble the diffuser .
2. Pull in the power cord through the gasket.
3. Fix the fixture on the surface with screws .
4. Connect the power cord on the terminal correctly.
5. Connect the detector wire to PIR sensor module on the base.
6. Assemble the diffuser.



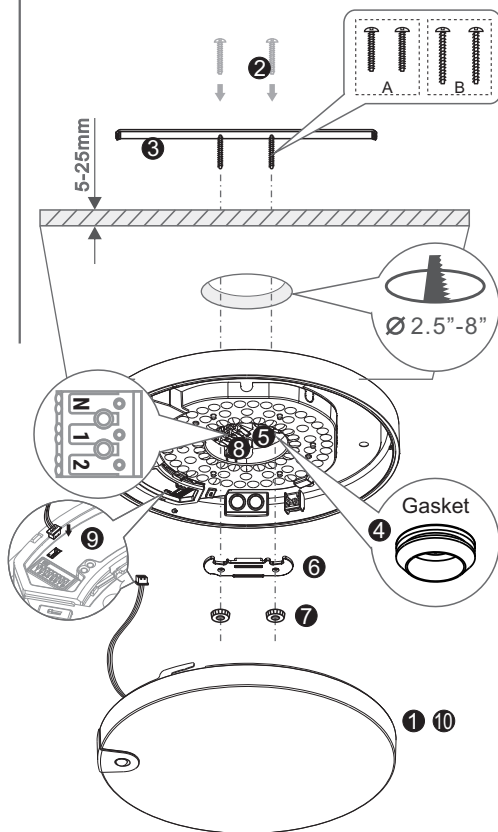
Cable connection



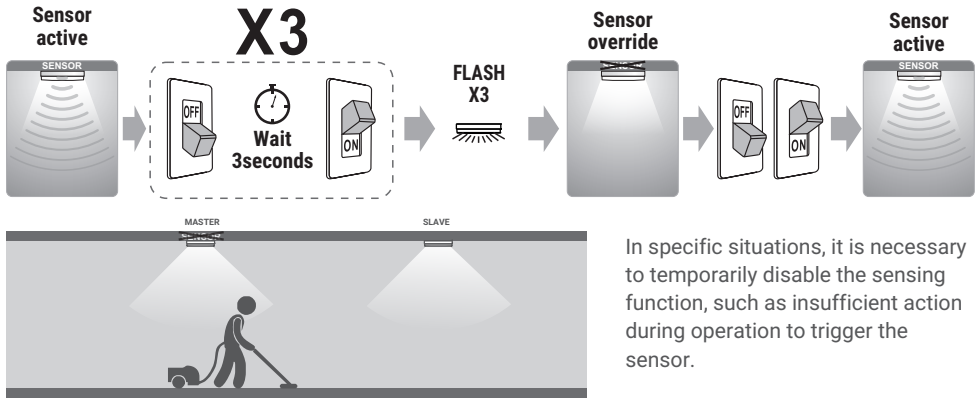
With PIR Sensor (switched live not required)

FLUSH EXTRA ACCESSORY

1. Disassemble the diffuser .
2. Assemble the screws A(suitable for 5-15mm thick ceiling) or B(suitable for 15-25mm thick ceiling) onto the bracket.
3. Put the bracket into the ceiling,make sure the screws go through the hole.
4. Remove two gaskets on the base.
5. Pull in the power cord through the hole.
6. Fix the plastic plate on the screws of bracket .
7. Screw the nuts.
8. Connect the power cord on the terminal correctly.
9. Connect the detector wire to PIR sensor module on the base.
10. Assemble the diffuser.

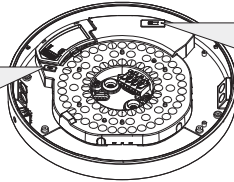
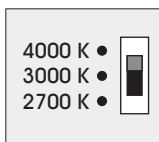


SENSOR OVERRIDE



SELECTABLE COLOUR TEMPERATURE

Different colour temperature settings by DIP switches on the LED plates.



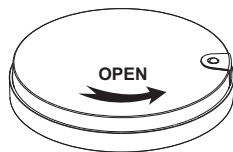
SELECTABLE BRIGHTNESS

Different brightness settings by DIP switches on the driver.

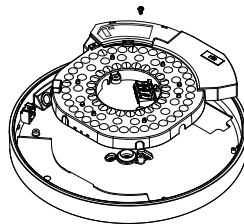


*Black housing lumen output is 10% lower

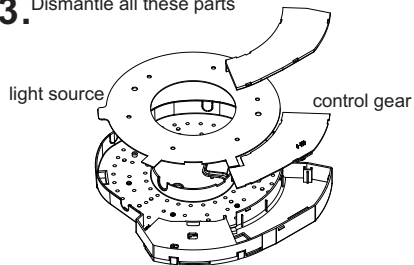
1. Open the diffuser



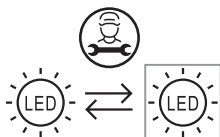
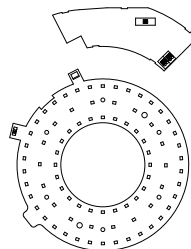
2. Remove the base



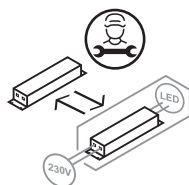
3. Dismantle all these parts



4. The control gear and the light source



Replaceable (LED only) light source by a professional



Replaceable control gear by a professional

This product contains a light source of energy efficiency class **D**

Please note, the control gear in this product is not intended to operate in no-load mode

Environmental protection: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

