

INSTALLATION / WARRANTY INSTRUCTIONS

Issue Date: 01 June 2022

PRODUCT BRAND	PIERLITE
PRODUCT NAME	ORION OYSTER
PRODUCT CODES	ORN23W3/4/6KDG3, ORN23W3/4/6KSG3, ORN16W3/4/6KDG3

PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT STANDARDS (AS/NZS 3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN. THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND STANDARDS; PIERLITE RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT WEBSITE.

IMPORTANT - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



1. PRODUCT SPECIFICATION:

Luminaire Specification:

	ORN16W3/4/6KDG3	ORN23W3/4/6KDG3	ORN23W3/4/6KSG3
System Power	16W	23W/16W	23W/16W
Leakage Current	≤0.70mA	≤0.70mA	≤0.70mA
Input Current	75mA	110mA	115mA
Dimmable	Yes (Phase Dimming)	Yes (Phase Dimming)	No
Net Weight of Luminaire	0.57kg	0.75kg	0.79kg
CCT	3000K/4000K/6000K		
Type of Protection	Class I		
IP Rating	IP54 <small>(for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated)</small>		
IK Rating	N/A		
System Voltage	220-240Vac		
Nominal Freq. (Hz)	50-60Hz		
Power Factor	>0.9	>0.9	>0.77
Rated Ambient Temperature	0-40°C		
Suitable for direct mounting on Flammable surfaces	No		
Installation Type	Ceiling mount		
Installation Orientation	Horizontal face down		
Designed application	Interior commercial, retail and residential applications		
Rated average design life	54,000 hours (L70 B50)		

Important – when installing electronic or HID lighting equipment, the installer must consider the in-rush start current (if any) as documented on the control gear identification label when selecting appropriate circuit controls or protective devices.

Luminaire Performance:

CODE	CCT	SYSTEM POWER	EXIT LUMEN	LINE CURRENT	INRUSH CURRENT
ORN16W3/4/6KDG3 (with white trim)	3000K	16W	1300lm	0.07A	3.3A/236us
	4000K		1400lm	0.07A	3.3A/236us
	6000K		1400lm	0.07A	3.3A/236us
ORN23W3/4/6KDG3 (with white trim)	3000K	16W	1300lm	0.07A	3.1A/188us
	4000K		1400lm	0.07A	3.1A/188us
	6000K		1400lm	0.07A	3.1A/188us
	3000K	23W	1800lm	0.10A	3.1A/188us
	4000K		2000lm	0.10A	3.1A/188us
	6000K		1900lm	0.10A	3.1A/188us
ORN23W3/4/6KSG3 (with white trim)	3000K	16W	1300lm	0.09A	2.5A/188us
	4000K		1400lm	0.09A	2.6A/188us
	6000K		1400lm	0.09A	2.5A/188us
	3000K	23W	1800lm	0.12A	2.5A/188us
	4000K		1900lm	0.12A	2.5A/188us
	6000K		1900lm	0.12A	2.5A/181us
ORN16W3/4/6KDG3 (without white trim)	3000K	16W	1600lm	0.07A	3.3A/236us
	4000K		1800lm	0.07A	3.3A/236us
	6000K		1700lm	0.07A	3.3A/236us
ORN23W3/4/6KDG3 (without white trim)	3000K	16W	1600lm	0.07A	3.1A/188us
	4000K		1700lm	0.07A	3.1A/188us
	6000K		1700lm	0.07A	3.1A/188us
	3000K	23W	2200lm	0.10A	3.1A/188us
	4000K		2400lm	0.10A	3.1A/188us
	6000K		2300lm	0.10A	3.1A/188us
ORN23W3/4/6KSG3 (without white trim)	3000K	16W	1400lm	0.09A	2.5A/188us
	4000K		1500lm	0.09A	2.6A/188us
	6000K		1400lm	0.09A	2.5A/188us
	3000K	23W	1900lm	0.12A	2.5A/188us
	4000K		2100lm	0.12A	2.5A/188us
	6000K		2000lm	0.12A	2.5A/181us

2. APPROVALS: The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS 60598 "Luminaires, general requirements and tests".



3. STORAGE: Prior to installation products are to be stored in cool and dry conditions.

4. APPLICATION: The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

5. INSTALLATION / GENERAL: Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product for electronic control equipment (when supplied) DO NOT MEGGER between A and N.

6. INSTALLATION / SPECIAL CONDITIONS (relevant only for products approved for such an installation):

(a) products installed in high wind environments must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.

(b) products installed in corrosive or salt laden environments require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.

(c) interior highbay products must be vertically suspended. The method of suspension (chain etc) must be able to support at least 5 times the total weight of the fitting. Do not install where air movement will cause the fitting to swing about, causing wear and tear of attachment points. Luminaires should be installed where access for maintenance is practical and allows for maintenance to be completed in accordance with the manufacturer's recommendations.

(d) interior (downlight) products must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS/NZS 3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS/NZS 3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

7. MAINTENANCE:

(a) The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals.

(b) lamps (where provided): The product is designed with the supplied LEDs/LAMP and it is strongly recommended that any LEDs/LAMP changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LEDs/LAMP maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative LEDs/LAMP used. As a member of FluroCycle, we encourage recycling of lamps and components.

(c) battery (where provided): The battery is designed with a rated average battery design life of 25,000 hours in standby mode. Battery warranty information can be found on the relevant website; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS 2293. For guidelines see product installation instructions or visit the relevant website.

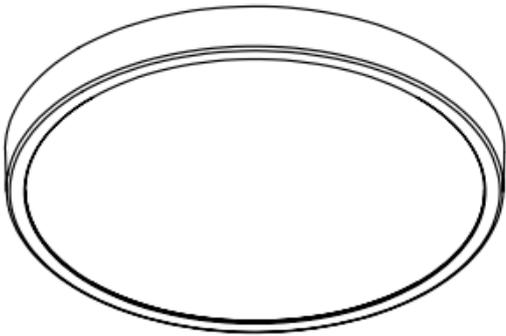
(d) for products supplied with glass visors or covers, do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

8. WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

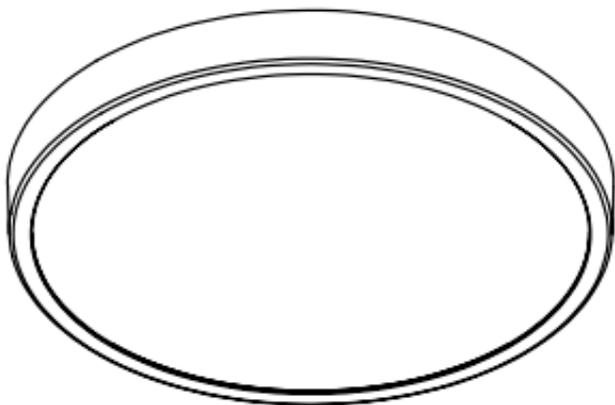
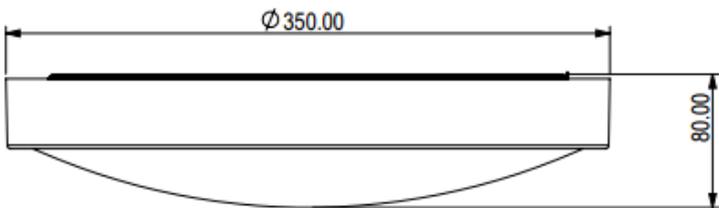
Warranty components – THE PRODUCT, (identified as the THE PRODUCT only). **Warranty period** – Warranty period can be found on the relevant website. The above components are provided with a warranty against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause. **Warranty reference** – The warranty reference date commences from the date of purchase. **Warranty point of contact** – Pierlite Australia Phone: 1300 799 300 www.pierlite.com.au; Pierlite New Zealand Phone: 0508 743 754 www.pierlite.co.nz **Warranty claim procedure** – For the purpose of making a claim the customer must: 1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number. 2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number. 3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense. **Consumer Contracts** – The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: – *Our goods come with guarantees that cannot be excluded under the Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Consumer Law then but not otherwise; – (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** – these Warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the Warranty components.

9. DRAWINGS

ORN16W3/4/6KDG3 – Ø300.0 x 80.0 mm

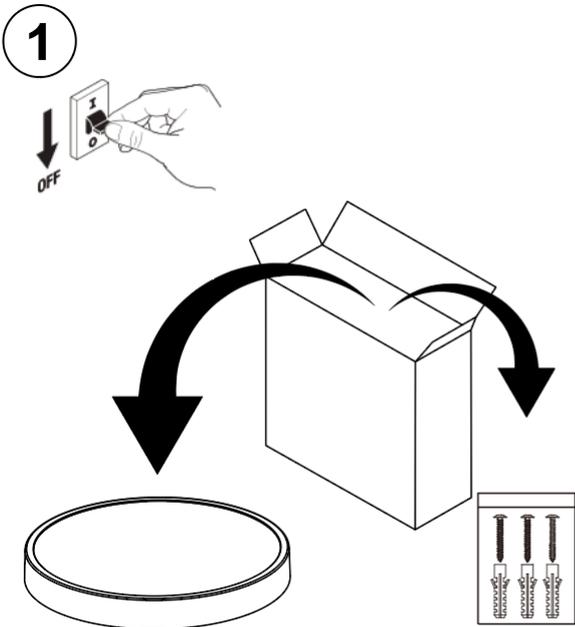


ORN23W3/4/6KDG3, ORN23W3/4/6KSG3 – Ø350.0 x 80.0 mm



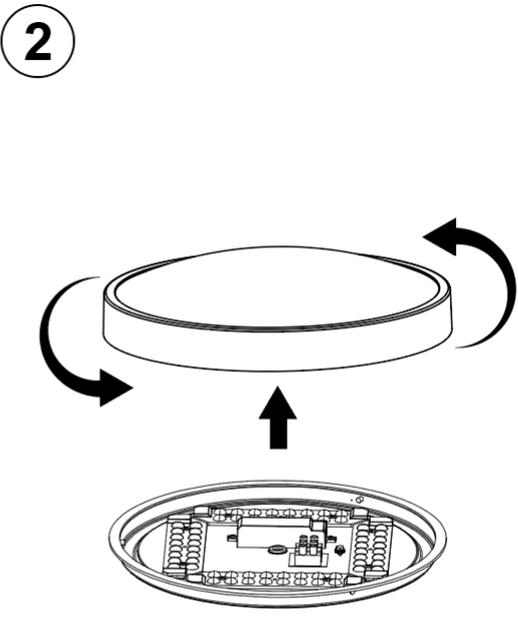
10. INSTALLATION INSTRUCTIONS

1



Turn the power switch OFF. Unbox the light fixture and remove the three LED modules from the box.

2

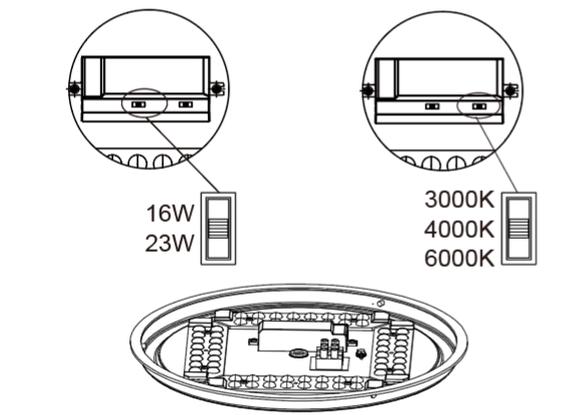


Insert the LED modules into the light fixture housing.

3

*Power select function is available on ORN23W3/4/6KDG3 and ORN23W3/4/6KSG3

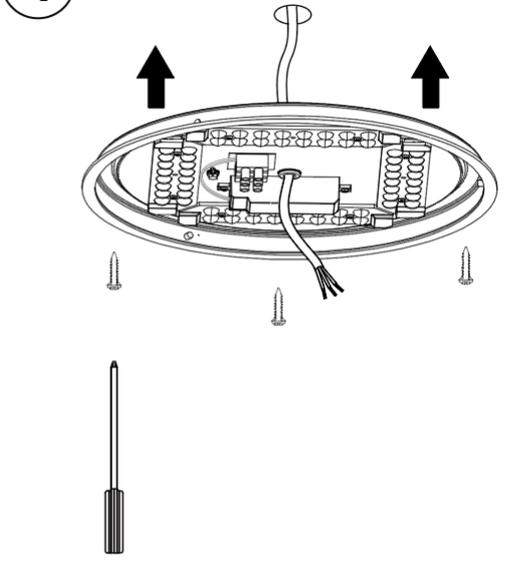
*CCT select function is available on ORN16W3/4/6KDG3, ORN23W3/4/6KDG3 and ORN23W3/4/6KSG3



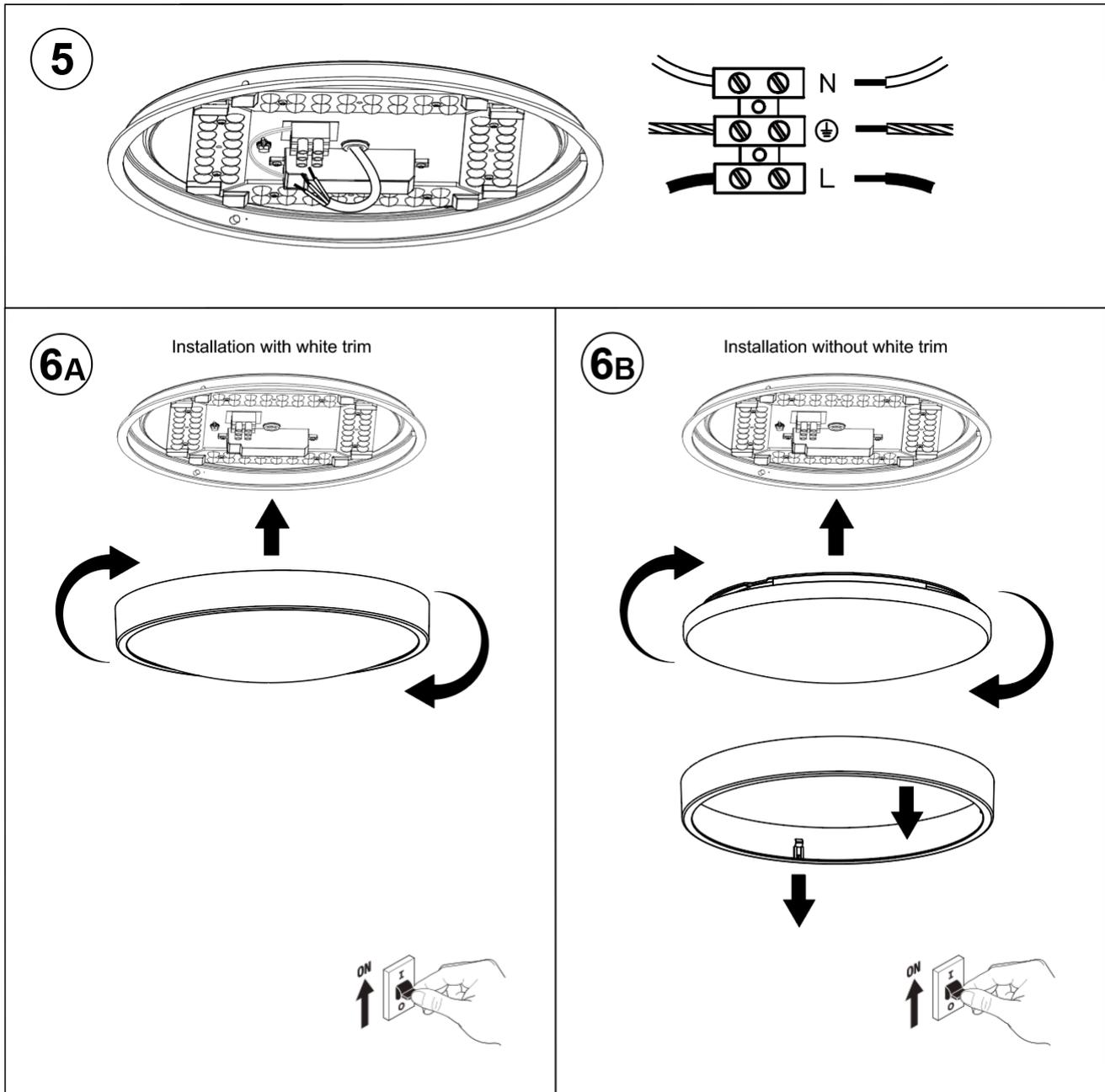
16W
23W

3000K
4000K
6000K

4



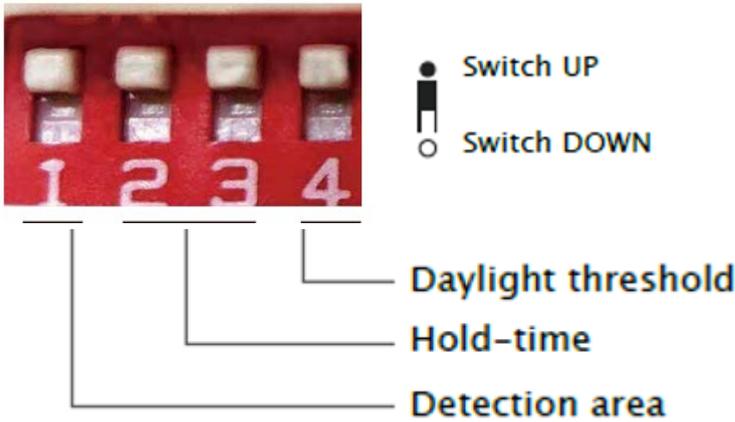
Mount the light fixture to the ceiling using screws and a screwdriver.



11. SENSOR SETTINGS*

*Sensor function is available on ORN23W3/4/6KSG3

Setting



1	
●	100%
○	50%

Detection area

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

2	3	
●	●	5s
●	○	1min
○	●	3min
○	○	10min

Hold time

The period of light keeping 100% brightness after moving objects leave the detection areas.

4	
●	Disable
○	30lux

Daylight threshold

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable". The sensor works every time it detects motion regardless the ambient brightness.

Performance

1. Automatically ON/OFF function

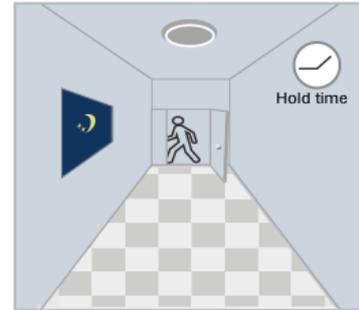
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



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

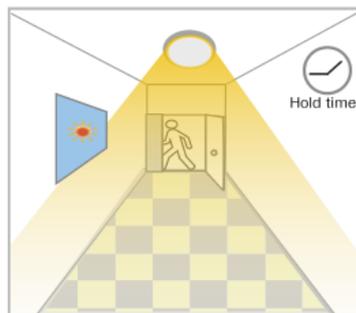
The daylight threshold is set to "Disable".

Light on when detect movement, After people leave, Light off after hold on time.

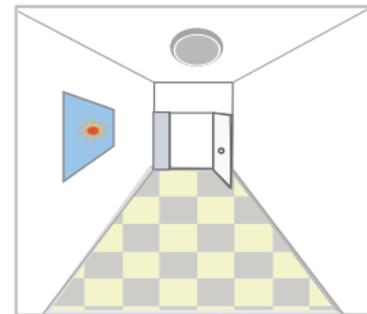
Applications: Dim places such as Basement Parking, Underpass.



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



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.