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# Magic Wand

## Linear Light (VB)

Up to 120LM/W | 20W 40W



ZigBee Mesh  
Network Control



Motion Sensor



Zoning&Grouping



Magic Wand  
Remote Control



Daylight Sensor



On/Off Control

CE RoHS

Version 1.05  
2023.07



## Applications




- Office
- School
- Hospital
- Store
- Exhibition Room
- Airport

## Features

- ZigBee mesh network smart controls
- Daylight and Motion sensors embedded
- Easy Grouping without Gateway via Magic Wand Remote Control.
- Automatic ON/OFF or Dimming Functions with smart sensing (Daylight, Motion) for maximum energy saving
- Daylight harvesting automatically regulates
- Color Temperature options with 4000K, 5000K or 6500K, default available in 5000K
- Efficiency up to 120Lm/W 50% less power consumption than traditional light sources.
- Lowest maintain cost



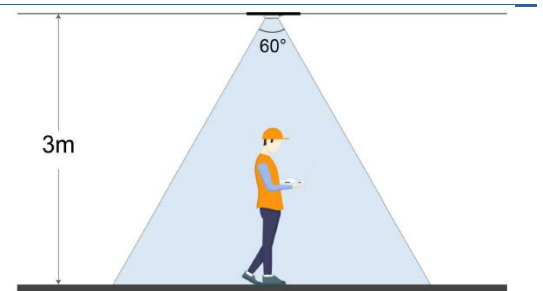
## Smart Modules

-  ZigBee Module
-  Infrared Motion Sensor Module
-  Constant Daylight

### Sensor Parameters (PD Version)

Sensing Angle	60°
Sensing Distance	3 m
Light Sensing Range	0~8000 Lux (Constant Daylight )
Remote Control Distance	10 m

### Sensing Angle (PD Version)





## Product Data

### General Information

LED Type	Lumileds
Light efficiency	Up to 120 lm/w
CCT	4000K/ 5000K/ 6500K
CRI	80
LED Lifespan	>50000h
Power Supply	HOMA (Dual Sides Or Mono Side)
Type of Driver	Isolated
Driver efficiency	87%
Warranty	5 Years
Certificate	CE, RoHS

### Operating and Electrical

Input voltage	200-240Vac
Input Frequency	50/60Hz
Inrush current	12A
Power Factor	≥0.95
THD	<10

### Controls and Dimming

Dimmable	Dimmable
Intelligent Control	ZigBee / Dimming / Constant Daylight / PIR Motion Sensor

### Application Conditions

Operating Temperature	-30°C to +50°C
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### Protection

Ingress protection code IP	IP20
Surge protection	4KV

### Size

#### Gen 1.0 Optics

The luminaire size is determined by ZHAGA standard PCBAs for Gen 1.0, whose sizes are times of 140mm, 280mm & 560mm




	980 mm
	1120 mm
	1540 mm

### Mechanical and Housing

Fixture Color	White/Black/Silver as Standard available; Other Colors can be customizable
Mounting Option	Suspended Recessed Surface Mounted Wall Mounted

#### Gen 2.0 Optics

Regarding Gen 2.0, luminaires sizes are determined by modular reflector, times of 38mm, as the unit width of a modular reflector.

	1064 mm
	1330 mm
	1596mm



## Light Distribution Curve

### Gen 1.0 Optics



5-surface



UGR 22



UGR 19



UGR 13



UGR 6



Asymmetric

### Gen 2.0 Optics



12°



24°



38°



50°



35×70



50×50



70×70

Round spot

Rectangular

## Mechanical and Optics

### Gen 1.0 Optics

Type	Lens	Optics	Beam Angle	Material	Length (Zhaga Standard)
E	Opal	UGR22	104°	PMMA+PC	980mm/ 1120mm/ 1540mm
G	White Louvre	UGR19	73°	PMMA+PC	980mm/ 1120mm/ 1540mm
H	Black Louvre	UGR13	66°	PMMA+PC	980mm/ 1120mm/ 1540mm
T	Aperture	UGR6	43°	PC	980mm/ 1120mm/ 1540mm
G	Asymmetric	N/A	36°	PMMA	980mm/ 1120mm/ 1540mm
H	5-surface	N/A	120°	PC	980mm/ 1120mm/ 1540mm



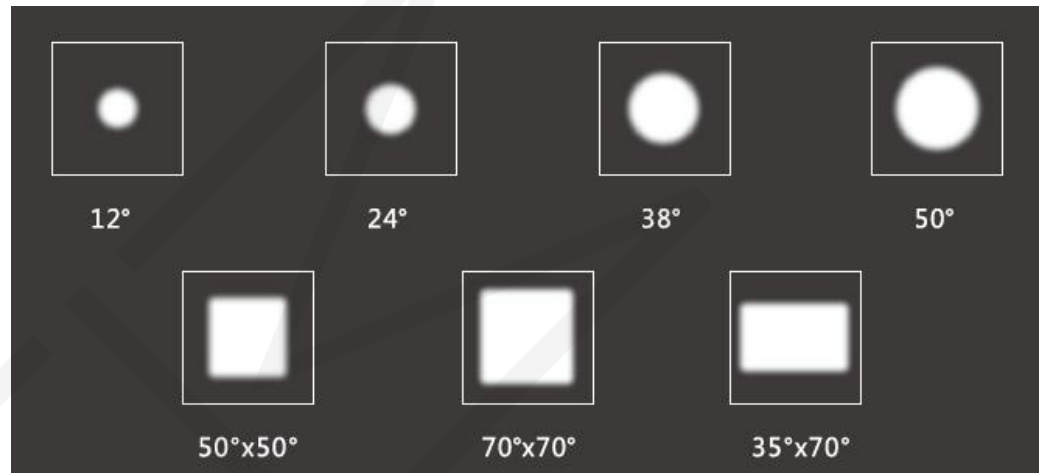
## Mechanical and Optics

### Gen 2.0 Optics – Modular reflectors

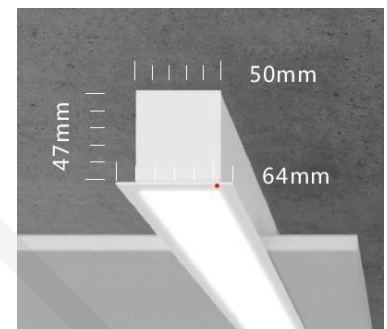
#### Structure Diagram



#### Optical Module Beam Angles



#### Module Structure



Type	Materials	Match COB	Typ. FWHM	Module Dimension (L×W×H)
12°	PC vacuum plating + UV	5050 / 3030	12°	114 mm×38 mm×26 mm
24°	PC vacuum plating + UV	5050 / 3030	24°	114 mm×38 mm×26 mm
38°	PC vacuum plating + UV	5050 / 3030	38°	114 mm×38 mm×26 mm
50°	PC vacuum plating + UV	5050 / 3030	50°	114 mm×38 mm×26 mm
50° ×50°	PC vacuum plating + UV	5050 / 3030	50° ×50°	114 mm×38 mm×26 mm
70° ×70°	PC vacuum plating + UV	5050 / 3030	70° ×70°	114 mm×38 mm×26 mm
35° ×70°	PC vacuum plating + UV	5050 / 3030	35° ×70°	114 mm×38 mm×26 mm



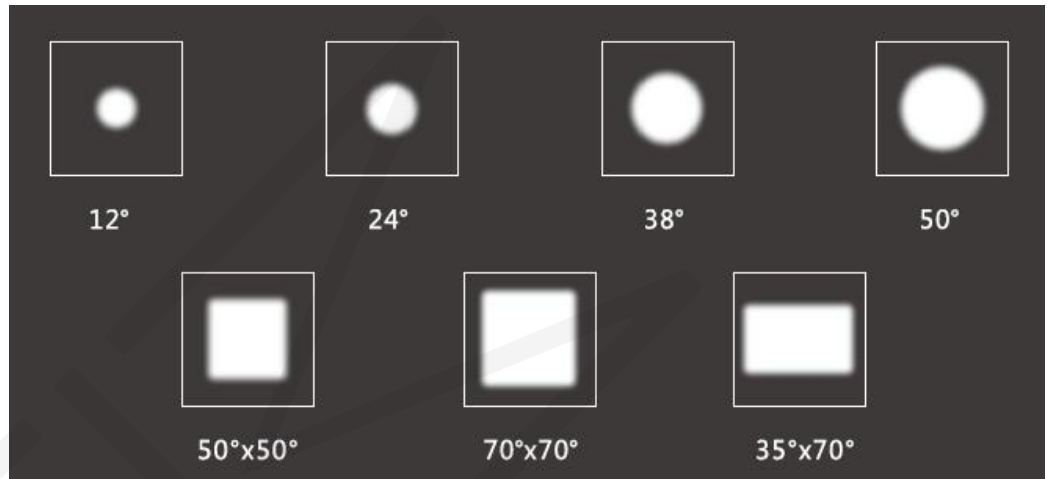
## Mechanical and Optics

### Gen 2.0 Optics – Modular reflectors

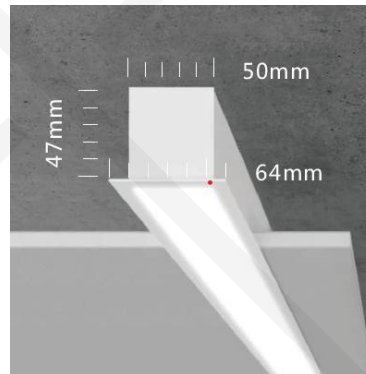
#### Structure Diagram



#### Optical Module Beam Angles



#### Module Structure



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38°	PC vacuum plating + UV	5050 / 3030	38°	114 mm×38 mm×26 mm
50°	PC vacuum plating + UV	5050 / 3030	50°	114 mm×38 mm×26 mm
50° × 50°	PC vacuum plating + UV	5050 / 3030	50° × 50°	114 mm×38 mm×26 mm
70° × 70°	PC vacuum plating + UV	5050 / 3030	70° × 70°	114 mm×38 mm×26 mm
35° × 70°	PC vacuum plating + UV	5050 / 3030	35° × 70°	114 mm×38 mm×26 mm



# Product Parameter

## Gen 1.0 Optics

Model Number	Length (mm)	Power Consumption (±10%)	Ra	Input voltage (Vac)	Luminous Flux (lm) (±10%)					
					Opal	White Louvre	Black Louvre	Recessed aperture	Asymmetric	5 - surface
HMWD14-LN-VB-G1-L098-XXX <sup>①</sup> -20W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	980	20W	80	200~240	2160	2124	1350	1350	2430	2304
HMWD14-LN-VB-G1-L112-XXX <sup>①</sup> -20W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	1120	20W	80	200~240	2160	2124	1350	1350	2430	2304
HMWD14-LN-VB-G1-L154-XXX <sup>①</sup> -40W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	1540	40W	80	200~240	4320	4248	2700	2700	4860	4600

## Gen 2.0 Optics

Model Number	Length (mm)	Power Consumption (±10%)	Ra	Input voltage (Vac)	Luminous Flux (lm) (±10%)						
					12°	24°	38°	50°	50×50°	70×70°	35×70°
HMWD14-LN-VB-G2-L106-XXX <sup>①</sup> -20W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	1064	20W	80	200~240Vac	2300	1960	2420	1960	2500	2500	2820
HMWD14-LN-VB-G2-L133-XXX <sup>①</sup> -20W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	1330	20W	80	200~240Vac	2300	1960	2420	1960	2500	2500	2820
HMWD14-LN-VB-G2-L159-XXX <sup>①</sup> -40W-EXXX <sup>②</sup> -AXXX <sup>③</sup> -XX <sup>④</sup> -XX <sup>⑤</sup> -PD-OTA-3.0	1596	40W	80	200~240Vac	4600	2940	3630	2940	3750	3750	4230

Remark: - XXX<sup>①</sup> designates different CCT, 40K=4000K, 50K=5000K, 65K=6500K.

- EXXX<sup>②</sup> designates different light efficiency, for example, E115=115 lm/W, E098=98 lm/W.

- AXXX<sup>③</sup> designates different beam angle, for example A073=73° , A104=104°

- XX<sup>④</sup> designates different market certification , EU = EUROPE UNION, US = USA, CN = CHINA

- XX<sup>⑤</sup> designates different Power Resource Terminals, DT= Dual Power Terminals, MT=Mono Terminal.

- For the US version, the input voltage is 100~277Vac.

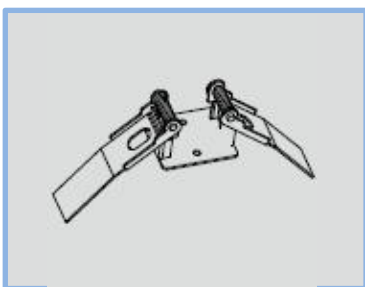


## Package

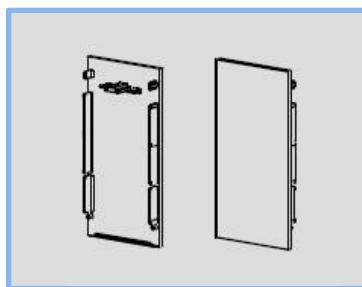
Item.	Luminaire Net Weight	Packing Info	Dimension (inner box) (mm)	Dimension (outer carton) (mm)	GW (Outer carton)	20ft GP	40ft GP	40 HQ
980mm	1.6kg	12pcs	L1036*W95*H92mm	L1056*W395*H310mm	20.9kg	2472pcs	4932pcs	6204pcs
1120mm	1.9kg	12pcs	L1260*W95*H92mm	L1280*W395*H310mm	23.9kg	2028pcs	2016pcs	5100pcs
1540mm	2.3kg	12pcs	L1618*W92*H92mm	L1638*W395*H310mm	29.3kg	1596pcs	3180pcs	4008pcs
1064mm	2.3kg	12pcs	L1142*W92*H92mm	L1160*W395*H310mm	28.8kg	2232pcs	4464pcs	5616pcs
1400mm	2.7kg	12pcs	L1478*W92*H92mm	L1496*W395*H310mm	34.5kg	1740pcs	3480pcs	4380pcs
1596mm	2.9kg	12pcs	L1142*W92*H92mm	L1630*W395*H310mm	36.5kg	1596pcs	3180pcs	4008pcs

## Accessories

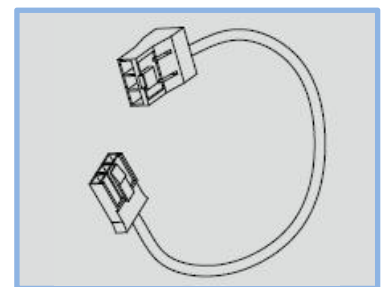
Note: Connecting kits & other accessories to be ordered separately.



Spring Kit  
(Include)



Endcaps

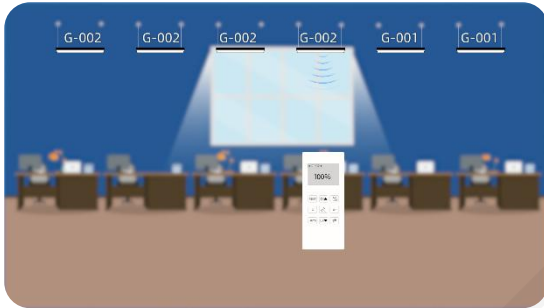


AC Wire  
With Connector

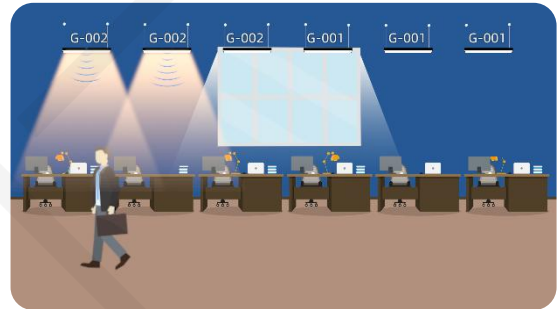
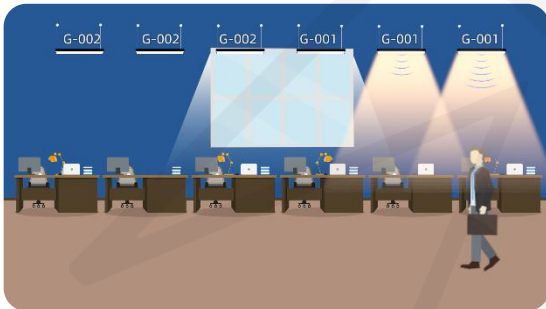




## Typical Working Scenarios

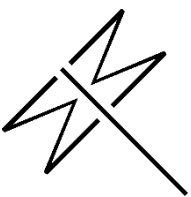


The “Magic Wand” smart lamps of HOMA are embedded with motion sensor and daylight sensor, using a “Magic Wand” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Magic Wand” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lamps on/off according to the ambient brightness.

The magic wand serial include panel, linear light, tri-proof light, highbay, LED tube. This kind of smart lamps can be used for industrial and commercial area, example offices, warehouses, factories, parking and others.



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