



Theorylight

Smart LED Ceiling Light((VA)

Up to 130lm/W | 30W



ZigBee Mesh
Network Control



Motion Sensor



Zoning & Grouping



Theorylight
Remote Control



Daylight Sensor



On/Off Control

CE RoHS

Applications

- Office
- Hallway
- Shopping Mall
- School
- Exhibition Hall
- Restroom
- Hotel
- Museum

Features

- Daylight and Motion sensors embedded.
- ZigBee mesh network smart controls.
- Easy Grouping without Gateway via Theorylight Remote Control.
- Automatic ON/OFF or Dimming
- Functions with smart sensing (Daylight, Motion) for maximum energy saving.
- Adjustable color temperature from 3000K to 5000K.
- Power 12W~30W is optional by DIP switch.
- Efficiency up to 130 lm/W.
- 50% less power consumption than traditional light sources.
- Lowest maintain cost.

Smart Modules



ZigBeeModule



Microwave Motion Sensor



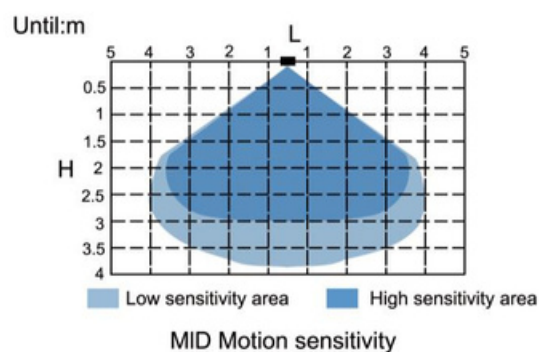
Infrared Daylight Sensor Module



Sensor Parameters

Sensing Angle	110°
Sensing Distance	3 m
Light Sensing Range	0~2000 Lux(Infrared Daylight)
Remote Control Distance	10 m

Sensing Angle



Product Data

Light efficiency	130lm/W
CCT	3000K / 4000K / 5000K
CRI	80
LED Life span	> 50000h
Power Supply	Isolated
Driver efficiency	87%
Warranty	5 Years Warranty
Certificate	CE, RoHS

Operating and Electrical

Input voltage	200~240 Vac
Input Frequency	50/60Hz
Inrush current	< 20A
Power Factor	> 0.95
THD	< 10 %

Application Conditions

Operating Temperature	-20°C to +50°C
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Mechanical and Housing

Structure Material	Aluminum Frame
Finish Material	Powder Coating
Lens Material	PC
Fixture Color	White
Mounting Option	Ceiling Mounting/ Wall Mounting

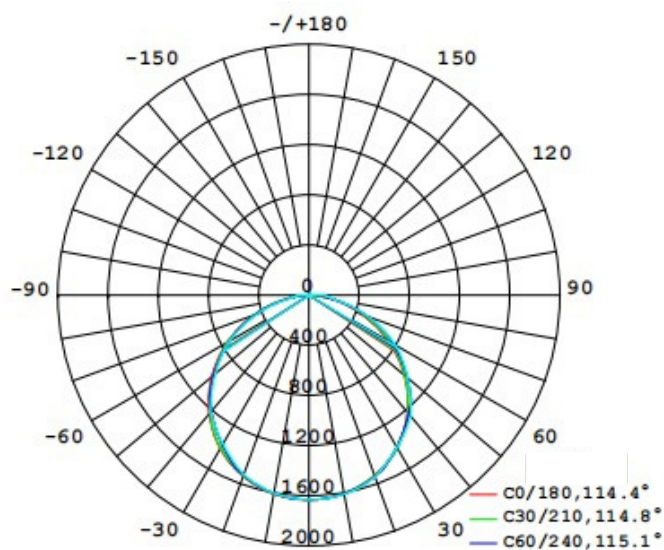
Approval and Application

Ingress Protection Code IP	IP54
Surge Protection	3KV

Controls and Dimming

Dimmable	Dimmable	ZigBee	/
Intelligent Control	Dimming/Infrared	Daylight /Microwave Motion	Sensor

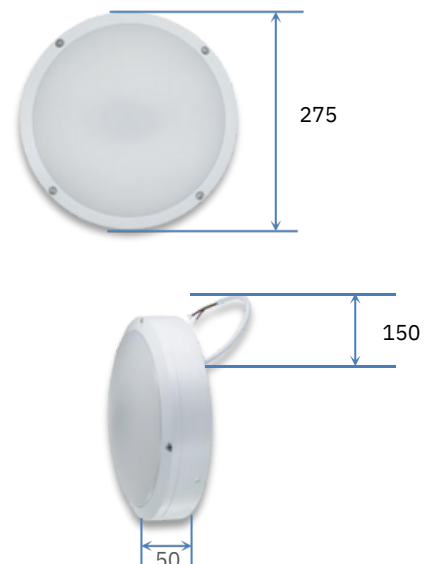
Light Distribution Curve



Average Beam Angle (50%): 110DEG

Drawing

Unit: mm



Model Number	Diameter (mm)	Height (mm)	Exposed wire length (mm)
TL16-CL-VA	275	50	150±20

Product Parameter

Model Number	Power Consumption (±10%)	Ra	Input Voltage	Light Efficiency	Luminous Flux (lm) (±10%)	Beam Angle	CCT	Sensor
TL16-CL-VA- D275-30K-30W-E130- A110-EU-MID-OTA-3.0	12W - 30W	80	200~240Vac	130lm/W	1620lm - 5100lm	110deg	3000K	MID=Microwave motion sensor + Infrared Daylight Sensor
TL16-CL-VA- D275-40K-30W-E130- A110-EU-MID-OTA-3.0							4000K	
TL16-CL-VA- D275-50K-30W-E130- A110-EU-MID-OTA-3.0							5000K	
TL16-CL-VA- D275-3050K-30W- E130-A110-EU-MID-OTA-3.0							3000K 4000K 5000K optional by DIP switch	

Remark:

-For the US version, the input voltage is 100~277Vac.
Please contact us to get the other version information!

Package

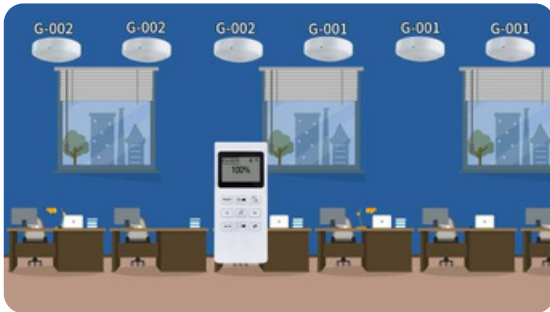
Model Number	Luminaire Net Weight (kg)	Packing Info	Dimmension (inner box) (mm)	Dimension (outer carton) (mm)	GW (Outer carton) (kg)	20ft GP	40ft GP	40ft HP
TL16-CL-VA-D275-XEU-30W-E130-A110-XX(3)-MID-OTA-3.0	1.17	12 pcs/ctn	310x 310 x 105	634x634x350	21	1728	3888	4752

Emergency Function (Optional)

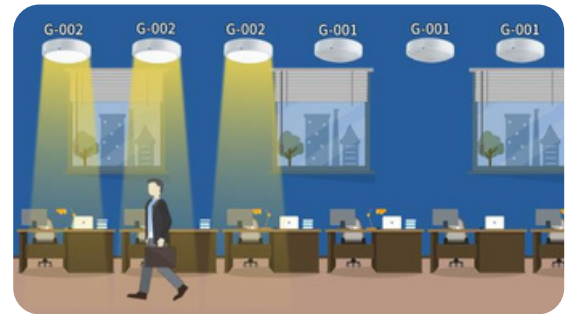
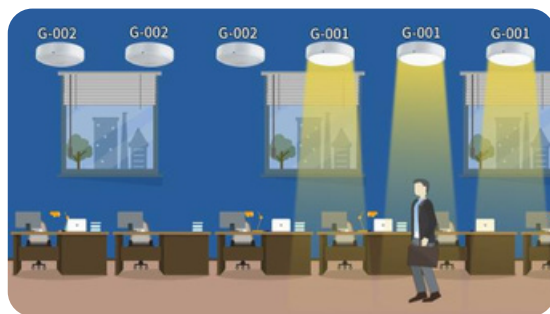


TL16-VA Smart LED Ceiling Light has an optional emergency function. There is a battery in the lamp body that can be charged. When there is a power outage, it will automatically switch to nickel-cadmium battery power supply and work in the light state. When the battery is fully charged, it can be on for about 2-3 hours. When there is a call, it will automatically switch to AC power.

Typical Working Scenarios



The “Theorylight” smart lamps of HOMA are embedded with motion sensor and daylight sensor, using a “Theorylight” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” 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 lampson/off accordingto the ambient brightness.

The Theorylight serial include panel, linear light, tri-proof light, high bay, LED tube. This kind of smart lamps can be used for industrial and commercial area, exampleoffices,warehouses,factories,parking and others.