



Theorylight

Tri-proof Light (TP-VF)

Up to 160lm/W | 36W



ZigBee Mesh
Network Control



Motion Sensor



Zoning & Grouping



Theorylight
Remote Control



Daylight Sensor



On/Off Control



RoHS

Applications

- Parking Area
- Stairway
- Warehouse
- Manufacture

Features

- Daylight and Motion sensors embedded. ZigBee mesh network smart controls.
- Easy Grouping without Gateway via Magic Wand Remote Control.
- Automatic ON/OFF or Dimming Functions with smart sensing (Daylight, Motion) for maximum energy saving.
- Color Temperature options with 4000K, 5000K, 5700K or 6500K.
- Power 36W/30W/25W/20W is optional by DIP switch.
- Efficiency up to 160 lm/W.
- 50% less power consumption than traditional light sources.
- Lowest maintain cost.



Smart Modules

-  ZigBee Module
-  Microwave Motion Sensor and PIR Motion Sensor Module
-  Infrared Daylight Sensor Module



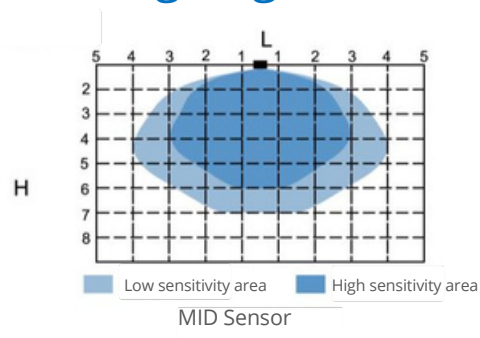
Sensor Parameters (MID)

Sensing Angle	120°
Sensing Distance	6 m
Light Sensing Range	0~2000 Lux(Infrared Daylight)
Remote Control Distance	10 m

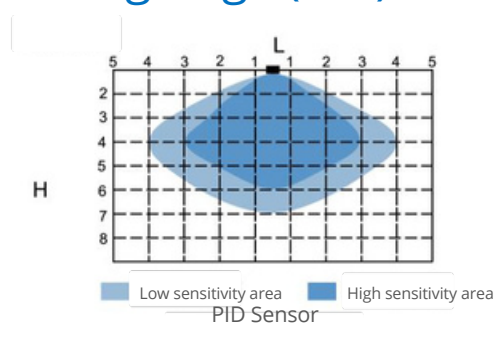
Sensor Parameters (PID)

Sensing Angle	75°
Sensing Distance	6 m
Light Sensing Range	0~2000 Lux(Infrared Daylight)
Remote Control Distance	10 m

Sensing Angle(MID)



Sensing Angle(PID)



Product Data

Light efficiency	160lm/W
CCT	4000K / 5000K / 5700K / 6500K
CRI	80
LED Lifespan	> 50000h
Power Supply	Non-Isolated
Driver efficiency	91%
Warranty	5 Years Warranty
Certificate	CE, RoHS

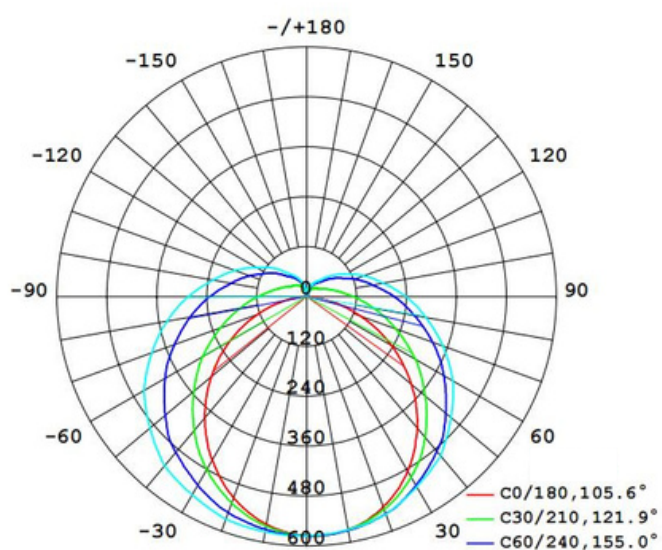
Application Conditions

Operating Temperature	-20°C to +50°C
-----------------------	----------------

Approval and Application

Ingress protection code IP	IP65
Surge protection	3KV(HOMA)
Surge protection	1KV(BOKE)

Light Distribution Curve



Average Beam Angle (50%): 140DEG

Operating and Electrical

Input voltage	200~240 Vac
Input Frequency	50/60Hz
Inrush current	< 20A
Power Factor	> 0.95
THD	< 10 %
Standby Power	< 1W

Mechanical and Housing

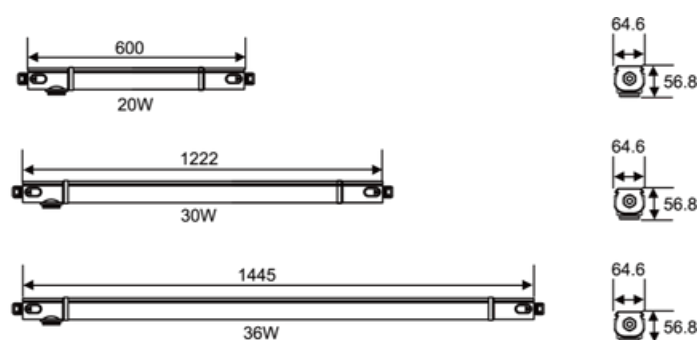
Structure Material	PC PC PC W
Finish Material	hite Ceiling
Lens Material	Mount
Fixture Color	
Mounting Option	

Controls and Dimming

Dimmable	Dimmable
Intelligent Control	ZigBee / Dimming/Infrared Daylight /MicrowaveMotion Sensor/ PIR Motion Sensor

Drawing

Unit: mm



Power	Length (mm)	Width (mm)	Height (mm)
20W	600	64.6	56.8
30W	1200	64.6	56.8
36W	1500	64.6	56.8

Product Parameter

Model Number	Power Consumption (±10%)	Ra	Input Voltage	Light Efficiency	Luminous Flux (lm) (±10%)	Beam Angle	CCT	Sensor Driver Type
TL12-TP-VF-L060-XXX①-20W-E160-A140-XX②-EU-XXX③-OTA-3.0	20W	80	200-240Vac	160 lm/W	3200 lm	140°	4000K 5700K 5000K 6500K	MID=Microwave motion sensor + Infrared Daylight Sensor PID=PIR Motion Sensor + Infrared Daylight Sensor
TL12-TP-VF-L120-XXX①-30W-E160-A140-XX②-EU-XXX③-OTA-3.0	30W			160 lm/W	4800 lm			
TL12-TP-VF-L150-XXX①-36W-E160-A140-XX②-EU-XXX③-OTA-3.0	36W			160 lm/W	5760 lm			

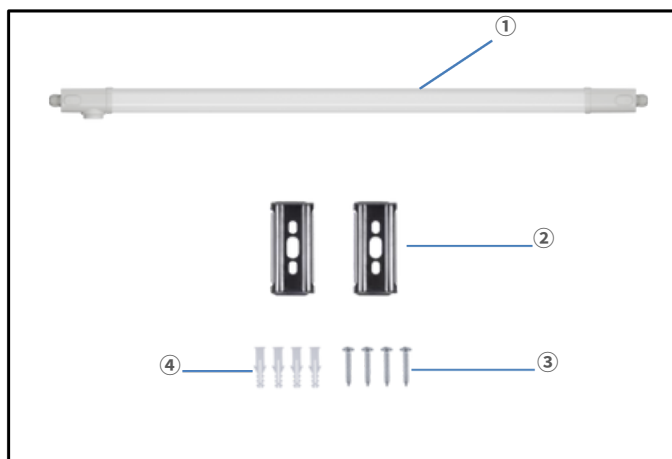
Package

Model Number	Luminaire Net Weight (kg)	Packing Info	Dimension (inner box) (mm)	Dimension (outer carton) (mm)	GW (Outer carton) (KG)	20ft GP (PCS)	40ft GP (PCS)	40 HQ (PCS)
TL12-TP-VF-L060-XXX①-20W-E160-A140-XX②-EU-XXX③-OTA-3.0	\	8Pcs in 1 Carton	\	705*400*185	\	\	\	\
TL12-TP-VF-L120-XXX①-30W-E160-A140-XX②-EU-XXX③-OTA-3.0	\	8Pcs in 1 Carton	\	1305*400*185	\	\	\	\
TL12-TP-VF-L150-XXX①-36W-E160-A140-XX②-EU-XXX③-OTA-3.0	\	8Pcs in 1 Carton	\	1605*400*185	\	\	\	\

Remark :

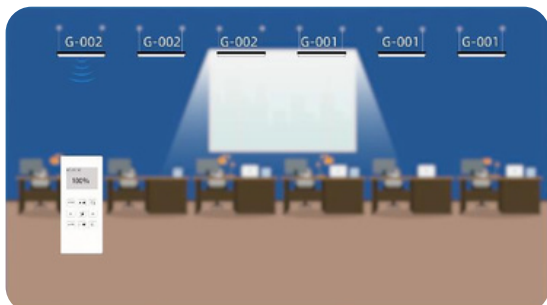
- XXX① designates different Correlated Color Temperature, 40K = 4000K, 50K = 5000K, 57K = 5700K, 65K = 6500K.
- XXX ② designates different Power Resource Terminals, DT= Dual Power Terminals, MT= Mono Terminal.
- XX③ designates different Sensor, MID= Microwave motion sensor + Infrared Daylight Sensor, PID= PIR Motion Sensor + Infrared Daylight Sensor.
- For the US version, the input voltage is 100~277Vac.

Standard Kit

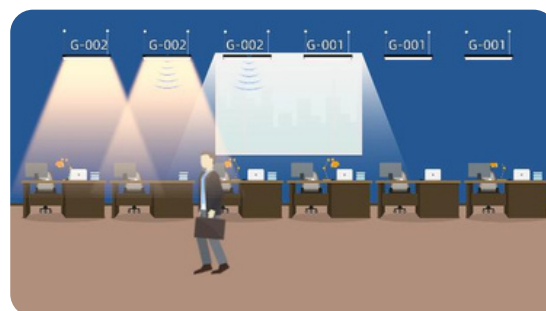
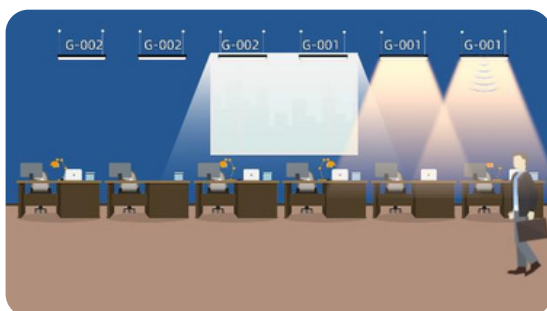


Serial Number	Description	Quantity
①	LED Tri-poor Light	1
②	Stainless steel Buckle	2
③	Expansion screw	4
④	Plastic expansion plug	4

Typical Working Scenarios



The “Theorylight” smart lamps 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 lamps on/off according to 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, example offices, warehouses, factories, parking and others.