TheoryLight

Theorylight

Tunnel Light-VB

Up to140 lm/W|50W

ZigBee Mesh Network Control

Motion Sensor

Zoning & Grouping

Theorylight Remote Control

Daylight Sensor

On/Off

CE RoHS

Email：sales@ theorylight.com

Applications

- Tunnel
- W arehouse
- Workshop
- Stadium

Features

- ZigBee mesh network smart controls.
- Daylight and Motion Sensors .
- Easy Grouping without Gateway via Theorylight 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，default available in 5700K.
- Efficiency up to 140 lm/W.
- Cooling fins as heat sink with die casting.
- 50% less power consumption than traditional light sources.
- Lowest maintain cost.

Smart Modules

ZigBeeModule

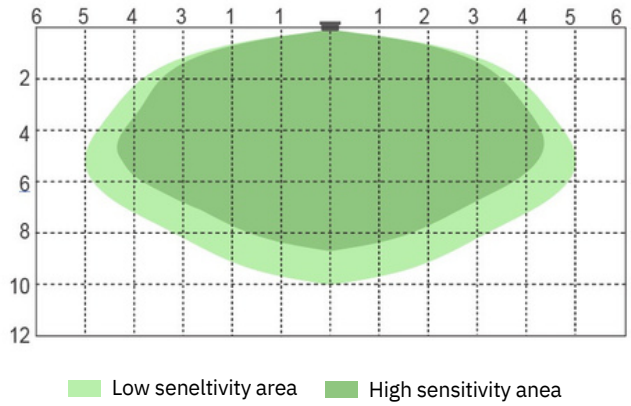
Microwave Motion Sensor Module

Infrared Daylight Sensor Module

Sensor Parameters

Sensing Angle	100°
Sensing Distance	8 m
Light Sensing Range	0~2000 Lux (Infrared Daylight)
Remote Control Distance	10m

Sensing Angle



Product Data

LED Type	Lumi leds
Light efficiency	140lm/W
CCT CRI	4000K/5000K/5700K/6500K
LED Lifespan	80
Power Supply	>50,000h
Type of Driver	HOMA Isolated
Driver efficiency	89%
Warranty	5 Years Warranty
Certificate	CE, RoHS

Operating and Electrical

Input voltage	200-240Vac
InputFrequency	50/60Hz
Inrush current	30A
Power Factor	≥ 0.95
THD	<10%

Mechanical and Housing

Structure Material	Die Cast Aluminum
Finish Material	Powdercoated
Lens Material	PC
Fixture Color	Matte Black
Mouting Option	Suspending / Ceiling Mounting/ Wall Mounting

ApplicationConditions

Operating Temperature	-20℃ ~ 35℃

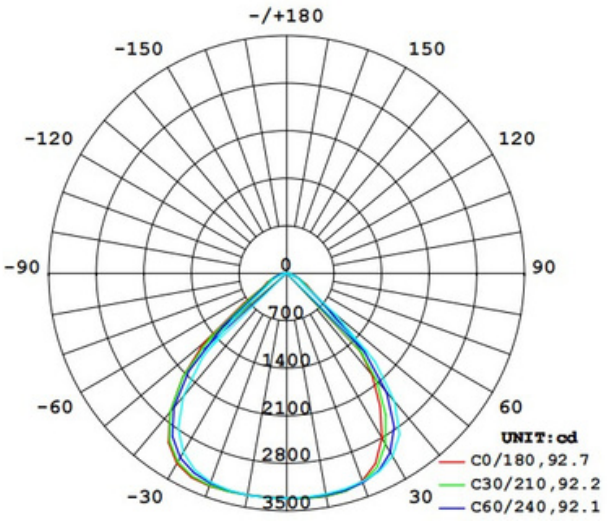
ControlsandDimming

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

ApprovalandApplication

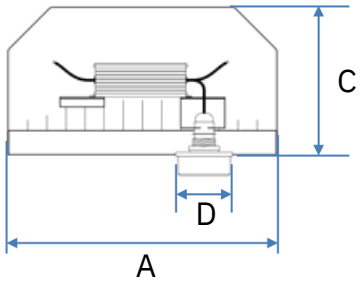
Ingress protection code	IP66
Mech. impact protection code	IK07
Surge protection	4KV

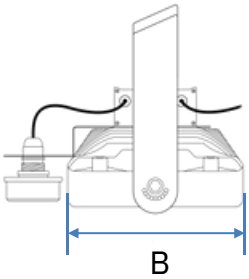
LightDistributionCurve



AVERAGE BEAM ANGLE(50%): 90DEG

Draw ing





Model Number	A (mm)	B (mm)	C (mm)	D (mm)
HMW D50	190	100	210	Φ60

Product Parameter

Model Number	Power Consumption (±10%)	Ra	Input voltage	Light Efficiency	Luminous Flux (lm) (±10%) @4000K @5000K @6500K	Beam Angle	Correlated Color Temperature	LED Type	Type of Driver
TL50-TL-VB-XXX①- 50W-E140-A090-EU-MID-OTA-3.0	50W	80	200~240Vac	140lm/W	7,000lm	90Deg	4000K 5000K 5700K 6500K	Lumileds	Isolated

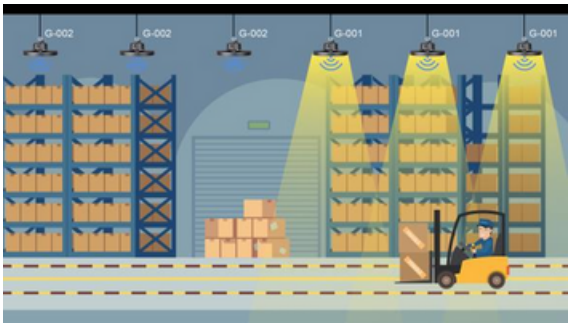
Package

Model Number	Luminaire NetWeight (KG)	Packing Info	Package Size (inner box) (mm)	GW(outer carton) (KG)	Packing Info	Package Size (outercarton) (mm)	20ft GP (PCS)	40ft GP (PCS)	40HQ (PCS)
TL50-TL- VB-XXX①-50W-E140-A090-EU-M ID-OTA-3.0	2.1KG	1 Pcs /Box	267*240*200	2.62KG	8 Pcs in 1 Carton	500*550*415	1832	3564	4462

Remark：-XXX①designates different Correlated Color Temperature, 40K = 4000K, 50K= 5000K, 57K= 5700K, 65K = 6500K.
-For the US version, the input voltage is 100~277Vac.

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 lampson/off accordingto the ambient brightness.

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