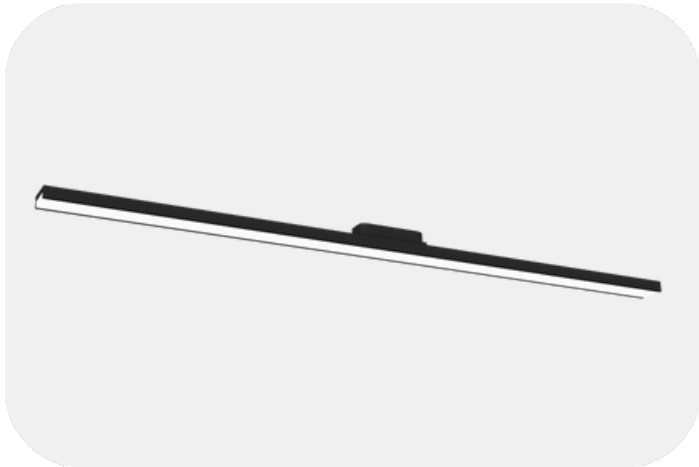
TheoryLight



Theorylight

Linear Light TL14 (VE)

Up to 120 lm/W | Anti-glare

ZigBee Mesh Network Control

Motion Sensor

Zoning & Grouping

Theorylight Remote Control

Daylight Sensor

On/Off Control

CE RoHS

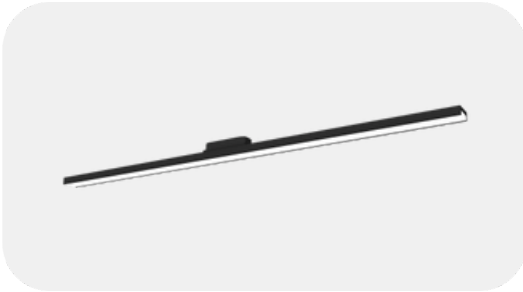
Email： sales@theorylight.com

TheoryLight

www.theorylight.com

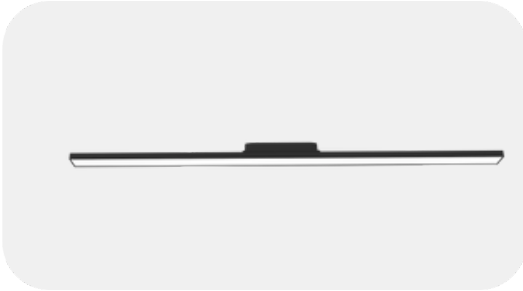
Applications

- Parking Lot
- Shopping malls
- Aisle
- Supermarket



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.
- The power of the fixture is 12W/15W/20W/30W/36W/40W for a length of 1 meter.
- Color Temperature options with 3000K/4000K/5000K/5700K/6500K. Efficiency up to 120Lm/W.
- anti-glare prismatic diffuser.
- 50% less power consumption than traditional light sources.
- Lowest maintain cost.



Smart Modules

ZigBee Module

Microwave Sensor Module

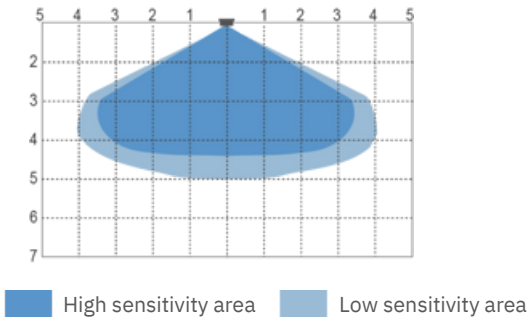
Infrared Daylight Sensor Module

Sensor Parameters(MID)

Sensing Angle	120°
Sensing Distance	3m
Light Sensing Range	0~2,000Lux(Infrared Daylight)
Remote Control Distance	10 m

Sensing Angle（MID）

Unit：mm



High sensitivity area Low sensitivity area

Email：sales@theorylight.com

TheoryLight

www.theorylight.com

Product Data

Light Efficiency	120 lm/W
CCT	3000K/4000K/5000K/5700K/6500K
CRI	80
LED Lifespan	＞50000h
Power Supply Brand	BOKE
Power Supply	Isolated
Type Driver Efficiency	91%
Warranty	5 Years Warranty
Certificate	CE, RoHS

Operating and Electrical

Input Voltage	200-240Vac
Input Frequency	50/60Hz
Inrush current	8.45A
Power Factor	≥ 0. 95
THD	<15%

Application Conditions

Operating Temperature	-20 ℃	to +50 ℃

Mechanical and Housing

Structure Material	Extruded Aluminum
Finish Material	Powder Coating
Lens Material	PC
Fixture Color	Black
Mounting Option	Suspension / Bracket Installation

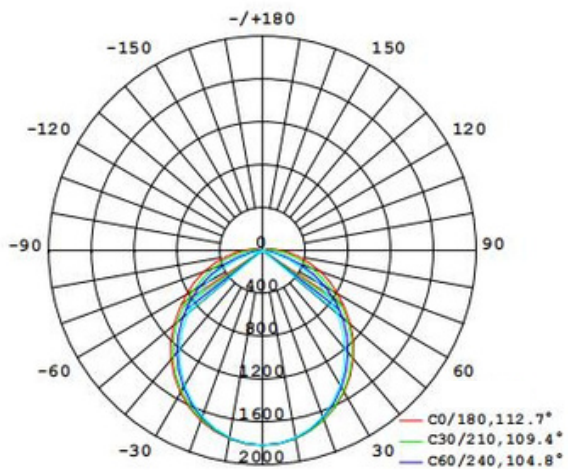
Approval and Application

Ingress protection code IP	IP40
Surge protection	2KV

Controls and Dimming

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

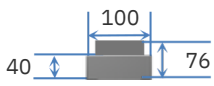
Light Distribution Curve



Average Beam Angle (50%): 120 °

Drawing

Unit： mm



L (mm)	H (mm)	W (mm)
2400	76	100

Notes： The length of the lighting fixture can be customized as needed.

Email： sales@theorylight.com

Product Parameter

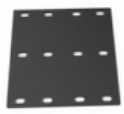
M odel	Power	RA	Input Voltage	Light Efficiency	Luminous Flux (lm) (±10%)	Beam Angle	CCT
TL14-LN-VE-L2400-XXX①-XXX②-E120-A120-EU-MID-OTA- 3.0	12W 15W 20W 30W 36W 40W	80	200-240 Vac	120 lm/W	1440 lm 1800 lm 2400 lm 3600 lm 4320 lm 4800 lm	120°	3000K 4000K 5000K 5700K 6500K

Package

Model Number	Luminaire Net Weight (kg)	Packing Info	Dimension (outer carton) (mm)	GW (Outer carton) (KG)
TL14-LN-VE-L2400-XXX①- XXX②-E120-A120-EU-MID-OTA-3.0	3.3	6 pieces / box	2440x370x212	22.77

Remark：- XXX① designates different Correlated Color Temperature, 40K = 4000K, 50K= 5000K, 57K=5700K, 65K = 6500K.
- XXX ② designates different Power , The power of the fixture is 12W/15W/20W/30W/36W/40W for a length of 1 meter.
- The length of the lighting fixture can be customized.
- For the US version, the input voltage is 100~277Vac.
Please contact us to get the other version information!

Standard Components

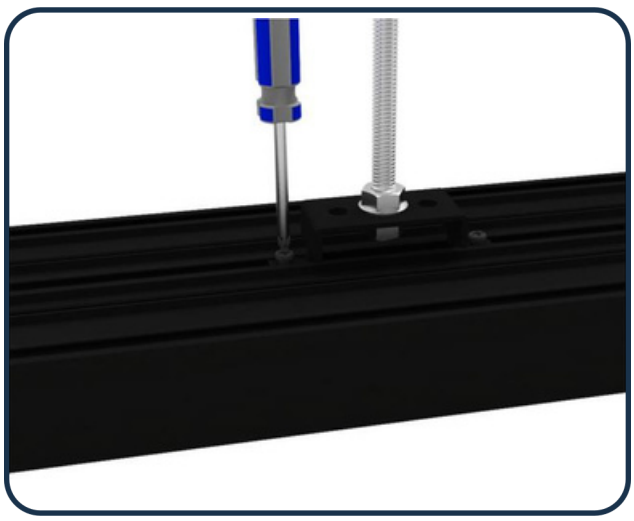
Accessory Name	Specifications	Quantity (Per Set Quantity)	Note	Photo
End Cap	100x40×1.5 mm	1	Use without Splicing End Caps (Optional)	
Universal Straight Splicing Bar	90x10×2 mm	3	Each splicing plate uses 3 splicing bars	
Splicing Plate	99x91×2 mm	1	Connection Points that Require Splicing	
Universal I-Beam Hanger	85×25×20 mm	2	Accessories for Hanging Fixtures	
TWM4×5×8 Screw	4×5×8 mm	12	For Installing Splicing Plates	
KA3×8 Screw	3×8 mm	2	For Installing End Caps	
TM4×4 Screw	4×4 mm	4	For Installing Universal I-Beam Hangers	

Email：sales@theorylight.com

Installation Below

1. Assemble the I-beam hanger with the screws.

2. Insert the assembled I-beam hanger into the central slot at the back of the fixture.

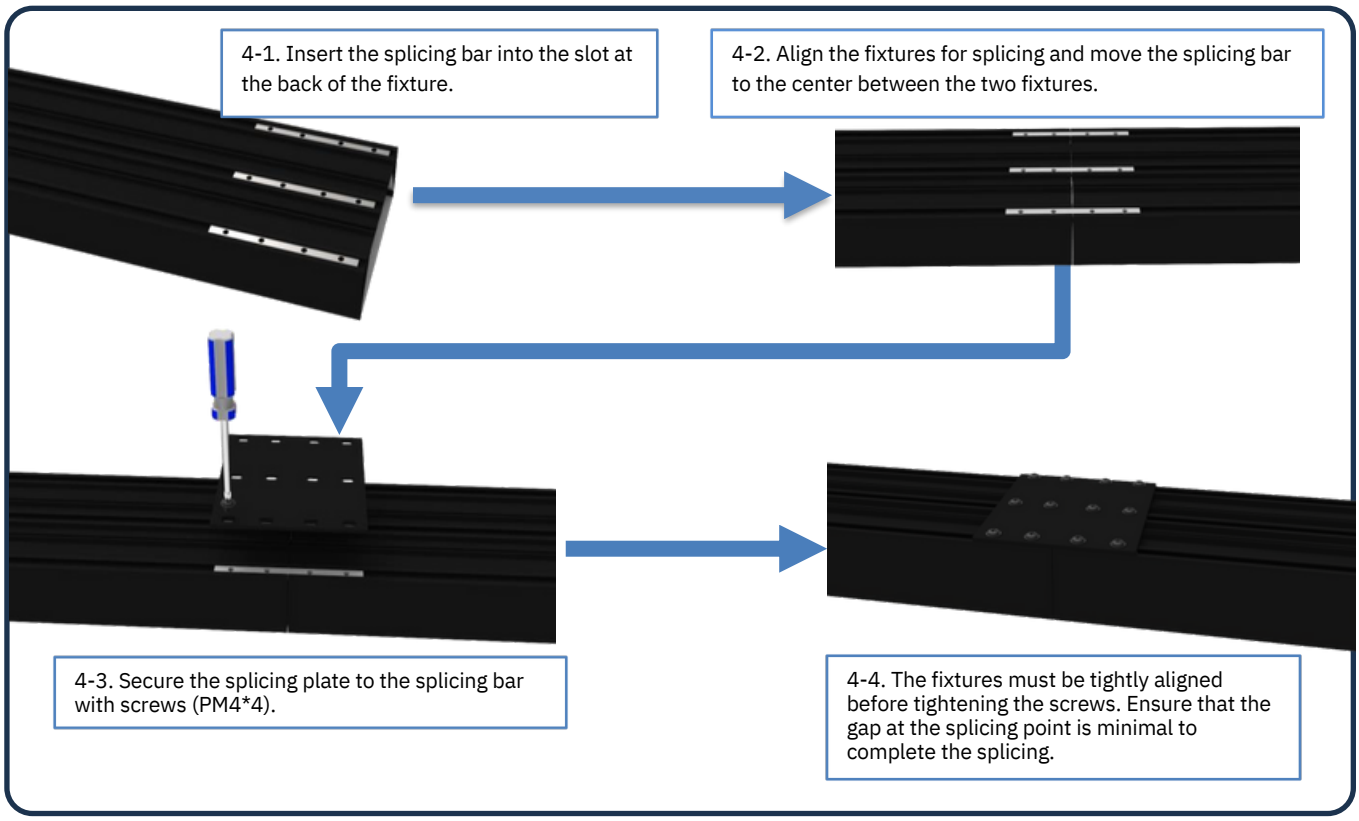


3. Tighten the screws (PM4*4) to secure the I-beam hanger.

Note: The screws do not need to be tightened; keep the hanger movable within the slot for position adjustment during installation.

Email：sales@theorylight.com

Installation Below



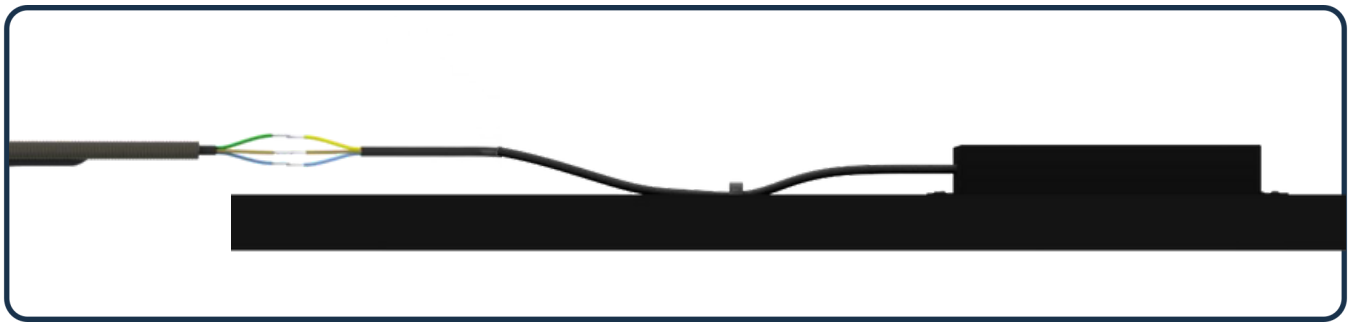
4. Use the splicing plate and splicing bar to connect the TLXD-01 fixture with fixtures below TLXD03-0.80.

5. After installing the I-beam hanger as shown in the illustration, mount the fixture in the designated position.

6. As shown in the figure (red circle), a plug needs to be installed at the end of the installed lamp.

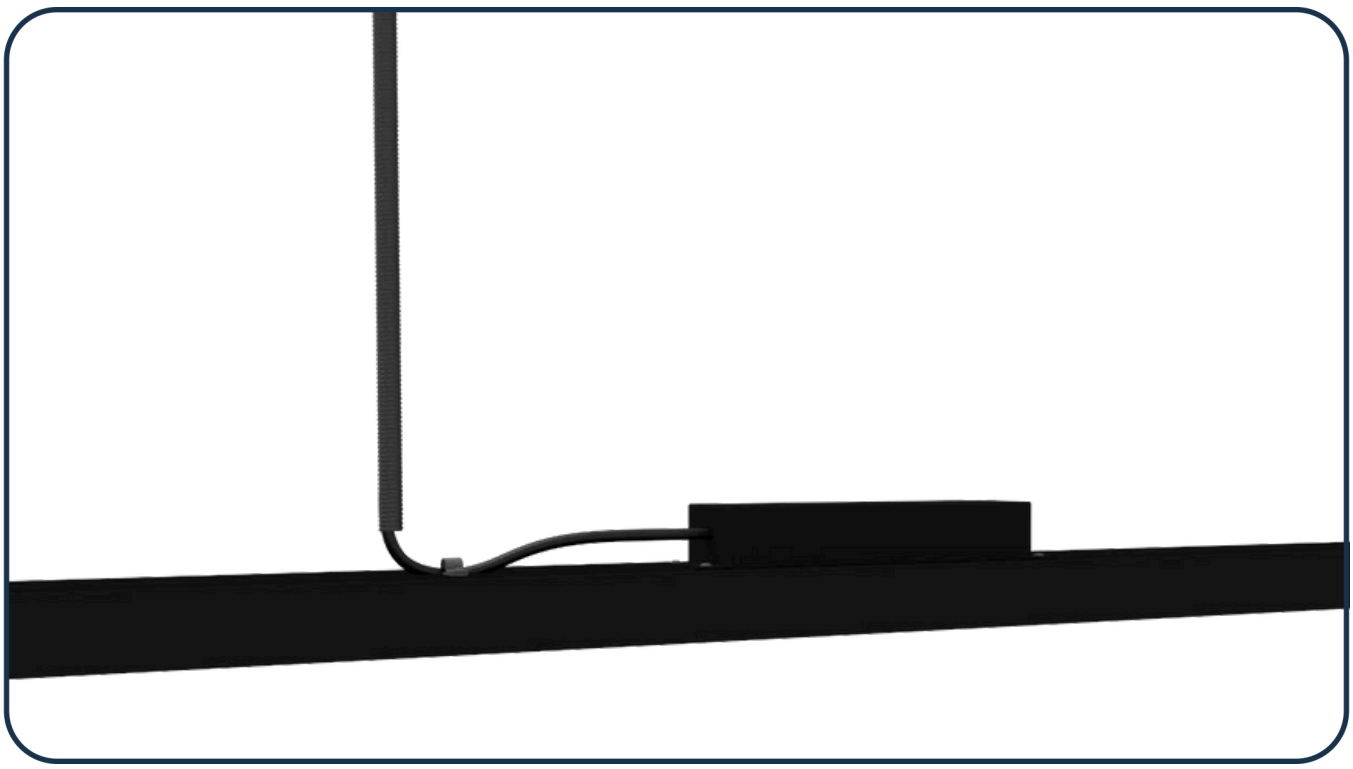
Email：sales@theorylight.com

Wiring



1. Connect the lamp input line to the lighting circuit

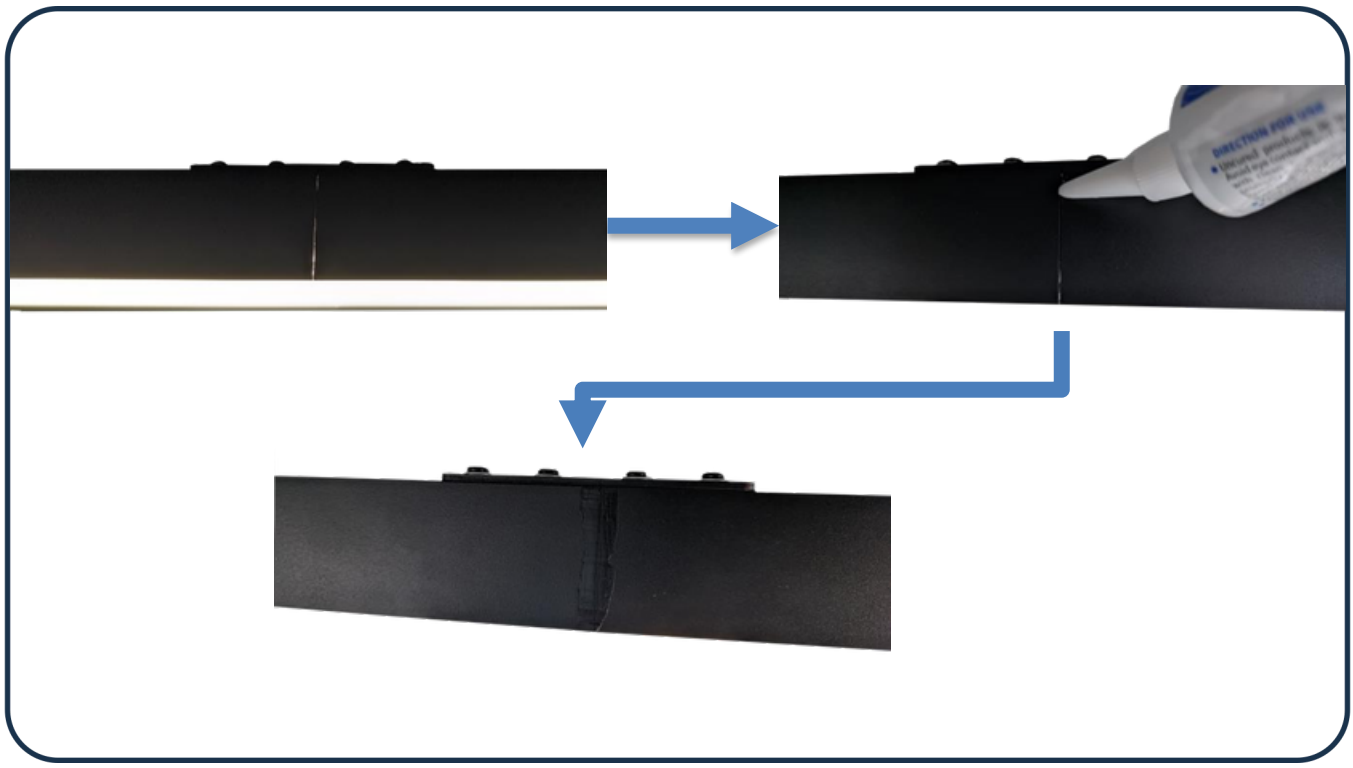
Note: Wiring must be performed by professionals.
Specific implementation methods refer to local safety standards.



2. Complete the installation

Email：sales@theorylight.com

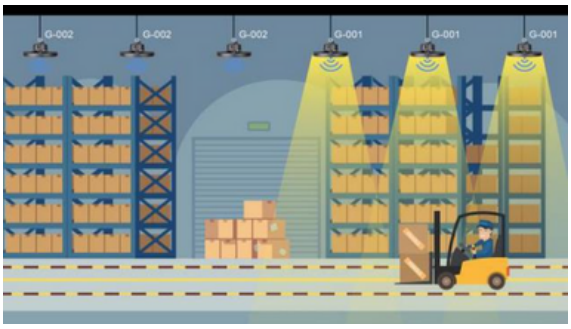
Splicing Gap Filling



1. Turn on the lamp and observe the joint between the two lamps. If there is light leakage, fill the gap with black filling glue.

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 lamps on/off according to 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, example offices, warehouses, factories, parking and others.