



VLE SERIES

TRI-PROOF LIGHT

INTRODUCTION

The FGE-VLE Series Tri-proof Light is designed for harsh environments requiring dust, water, and corrosion protection, suitable for food processing plants, chemical workshops, outdoor corridors, parking garages, and coastal industrial areas.

Equipped with high-performance LED chips and optimized light distribution, it achieves up to 140 lm/W or 150 lm/W efficacy, emits uniform light to reduce eye strain, and cuts energy costs by over 50% vs. traditional tri-proof lights.

It features a full-sealed structure with housing and diffuser impact-resistant PC, boasting IP65 (higher than standard) and IK08 ratings for durability in tough conditions.

With 100,000-hour LED lifetime and 5-year warranty, the series offers a low-maintenance, reliable solution for demanding industrial and commercial lighting needs.



LM-79

LM-80

TM-21

ISTMT

IEC

FEATURES



Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



CCT Tunable: Adjustable color temperature to suit diverse environments.



High Efficacy & Energy Saving: Up to 140 lm/W or 150 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



QUICK & EASY

Easy Installation and Maintenance:

Reduce installation time and maintenance labor, effectively lowering overall operational costs.



SENSOR

Factory Built-in Sensor Options: Provides smart lighting control to improve energy efficiency and convenience.



EMERGENCY BACKUP

90 Minutes EM Back-up Options:

Ensuring safety and visibility during critical moments.



RELIABLE WARRANTY

Reliable Warranty:

5 Years Warranty.

- Advanced Optical Design:

High-transmittance PC lens with 120° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IP65 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Die-cast Polycarbonate housing with optimized heat sink for reliable performance.

- Versatile Mounting Options:

Surface-mounted, suspended mounting for flexible installation.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

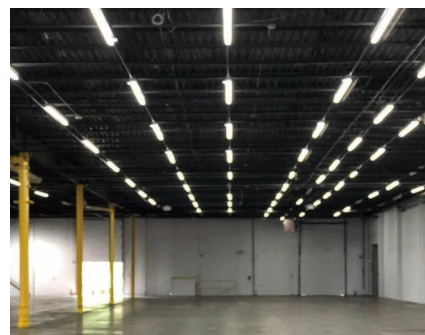
APPLICATIONS



Parking Garage: High-performance LED providing uniform, glare-free illumination with humidity and dust protection.



Subway or Airport Corridors: Glare-free & wide beam provides uniform illumination for walkways, enhancing safety.



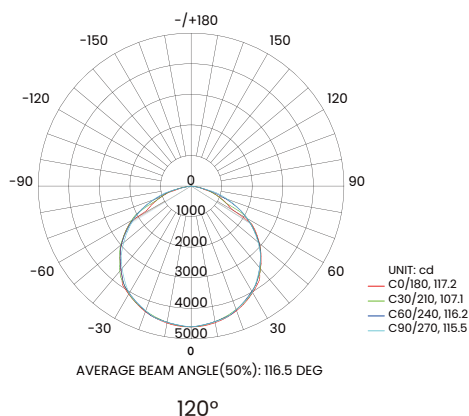
Logistic Centers: Bright, glare-free light enhances visibility for cargo sorting, loading and unloading.

TECHNICAL PARAMETERS

Product Model	VLE-50W	VLE-50W-EM	VLE-100W
Electrical Performance			
Wattage Selectable	50W/40W/30W	50W/40W/30W	100W/80W/70W
Input Voltage	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9
Surge Protection	2KV	2KV	2KV
THD	<20%	<20%	<20%
Optical Performance			
Luminous Efficacy	140lm/W or 150 lm/W	140lm/W or 150 lm/W	150 lm/W
Luminous Flux	7000lm/5600lm/4200lm 7500lm/6000lm/4500lm	7000lm/5600lm/4200lm 7500lm/6000lm/4500lm	15000lm/12000lm/10500lm
CCT Selectable	3500K/4000K/5000K	3500K/4000K/5000K	3500K/4000K/5000K
CRI	Ra>80	Ra>80	Ra>80
Beam Angle	120°	120°	120°
Unified Glare Rating (UGR)	<28	<28	<28
Reliability			
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-20 ~ +45°C	-20 ~ +45°C	-20 ~ +45°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP65	IP65	IP65
Impact Resistance	IK08	IK08	IK08
Control			
Dimming	1-10V/DALI	0-10V/DALI	0-10V/DALI
Sensor	Motion Sensor	Motion Sensor	Motion Sensor
Communication Protocol	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa	Bluetooth/Zigbee/LoRa
Emergency Kit	-	8W Battery Backup	-
Mechanical			
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate
Lens Material	Polycarbonate	Polycarbonate	Polycarbonate
Coating	-	-	-
Net Weight	2.3kg	3.1kg	6kg
Dimensions	1200x95x83mm	1200x95x83mm	2400x95x83mm
Warranty	5 Years	5 Years	5 Years

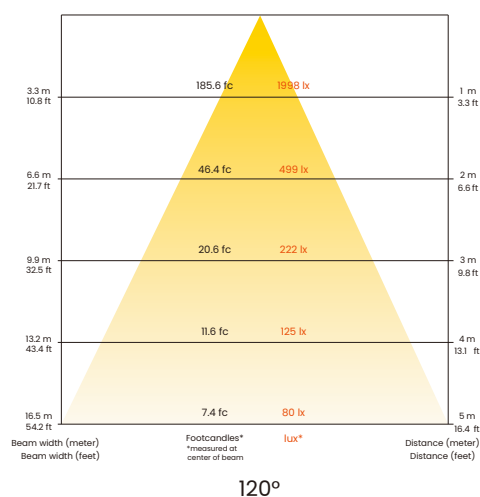
PHOTOMETRICS

Luminous Intensity Distribution Diagram

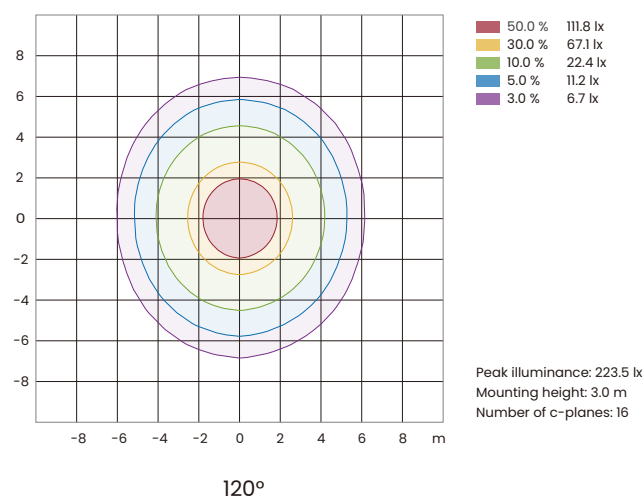


ILLUMINANCE DISTRIBUTION

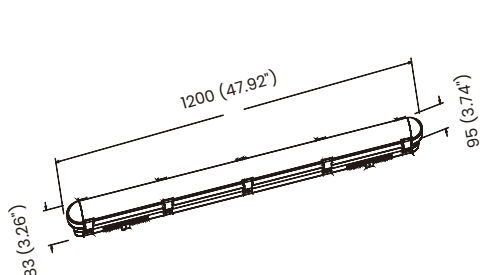
Illuminance at A Distance



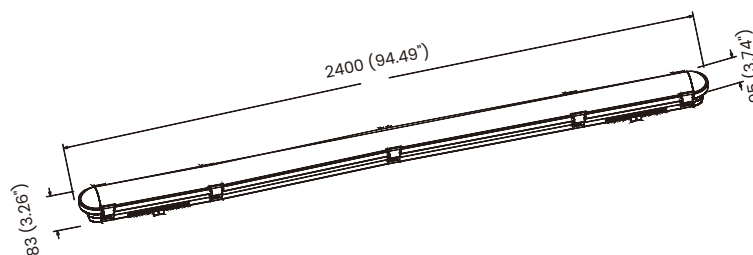
Iso-illuminance Diagram (Iso-lux)



MECHANICAL DIMENSIONS



50W/40W/30W



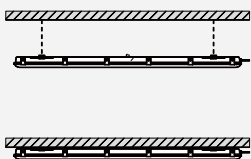
100W/80W/70W

Product Model	VLE-50W	VLE-50W-EM	VLE-100W
Wattage Selectable	50W/40W/30W	50W/40W/30W	100W/80W/70W
Outer box (L*W*H)	1280x380x230mm (50.39"x14.96"x9.06")	1280x380x230mm (50.39"x14.96"x9.06")	2560x380x230mm (100.79"x14.96"x9.06")
Q'ty/Ctn	8pcs	8pcs	8pcs
N.W./Ctn	2.3kg/5.07lbs	3.1kg/6.82lbs	6kg/13.23lbs
G.W./Ctn	20.8kg/45.76lbs	24.8kg/54.56lbs	48kg/105.82lbs
Remarks	0.3M cable	0.3M cable	0.3M cable

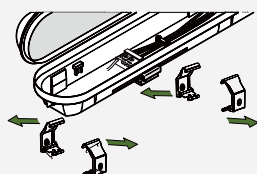
INSTALLATION

Installation Manual

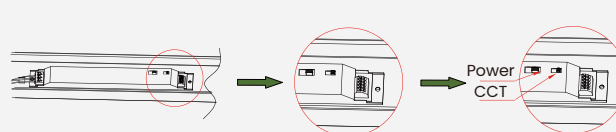
1. Confirm the mounting method of waterproof connector.



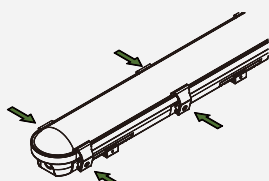
2. Release the lock clips to open fixture cover.



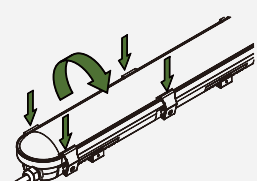
3. CCT & Wattage selectable.



4. Press to fasten all lock clips.

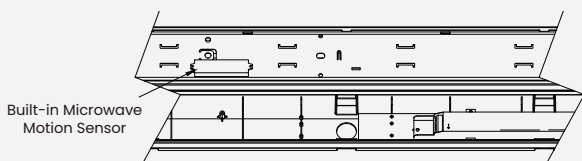


5. Check all clips are fastened properly.

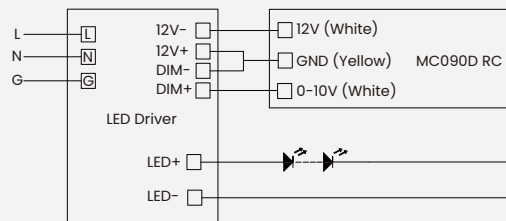


Microwave Sensors Installation

In order to avoid mutual interference during the operation of motion sensor, the installation distance between lamp and lamp shall not be less than one meter.

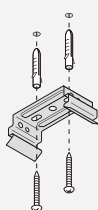


Wiring diagram

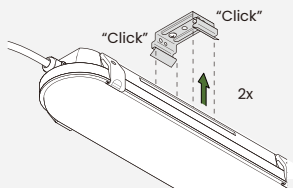


Surface-mounted Installation

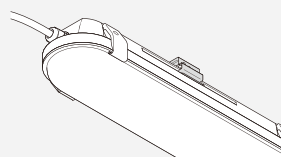
1. Drill holes in the wall, install mounting clips to wall with screws and plastic expansion tubes.



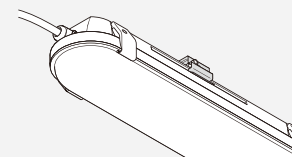
2. Push fixture into mounting clips for fixing.



3. Installed view as bellow figure.



4. Turn on lights after connecting to line voltage.

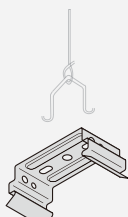


Suspended installation

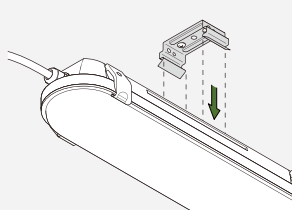
1. Drill hole in the wall, install the fixing base with a screw and a plastic expansion tube.



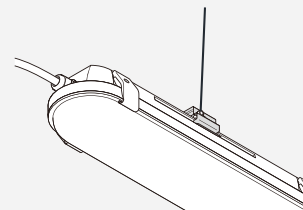
2. Hang the mounting clip to the hook of suspension cable.



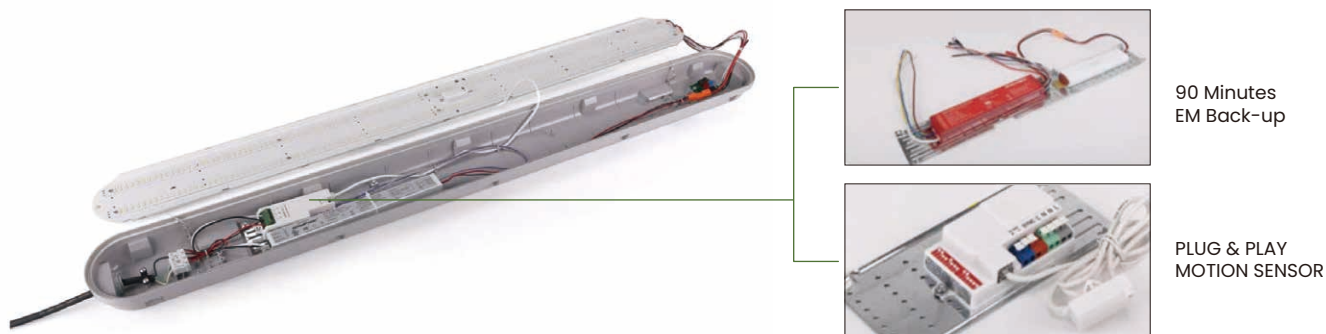
3. Push the fixture into mounting clip for fixing.



4. Turn on the lights after installation.



ACCESSORIES



ORDER INFORMATION

VLE-YY-YY-YY-Y

1 2 3 4 5 6 7 8

1 VLE Series Tri-proof Light

2 Wattage

50W	50W/40W/30W
100W	100W/80W/70W

3 Color Temperature

50K	5000K/4000K/3500K
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4 Voltage

(Blank)	120-277V
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5 EM Back-up

(Blank)	Without EM Back-up
EM	With EM Back-up

6 Optics

(Blank)	120°
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7 Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module

8 Options

(Blank)	0.3M cord
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