



VLH SERIES

LINKABLE TRI-PROOF LIGHT

INTRODUCTION

The FGE-VLH Series Linkable Tri-Proof Light is designed for versatile linear lighting in demanding industrial, commercial, and parking environments. With an IP66 & IK10-rated sealed structure, it offers excellent resistance to dust, water, and impact, ensuring long-term reliability even in humid or dusty conditions. High-efficiency LED chips deliver up to 130 lm/W of bright and uniform illumination while minimizing energy consumption.

Its linkable design allows for continuous connection of multiple fixtures, simplifying installation and wiring in large spaces such as production lines, warehouses, corridors, and garages. Optional microwave sensor, emergency backup, and through-wiring configurations provide intelligent control and flexibility for various applications.

With a 100,000-hour lifetime and 5-year warranty, the VLH Series delivers a durable, energy-efficient, and maintenance-free lighting solution tailored to modern industrial and commercial environments.



FEATURES



130lm/W

High Efficacy & Energy Saving: Up to 130 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



0-10V
DIMMABLE

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.



Linkable up to 600W: Provides flexible and scalable lighting for large spaces.



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:

IP66 waterproof & dustproof, IK10 impact resistance for harsh industrial environments.

- Superior Thermal Management:

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

- Versatile Mounting Options:

Ceiling, and suspension mounting for flexible installation.

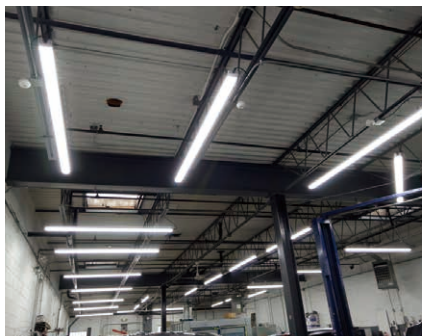
- Wide Input Voltage:

AC100-277V, suitable for global power grids.

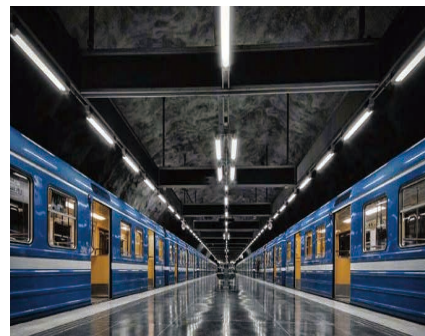
APPLICATIONS



Industrial Plants: Ideal for large, open spaces with dust, moisture, or oil exposure.



Workshops & Maintenance Areas: Provide bright, durable lighting for machinery, assembly lines, and repair zones.



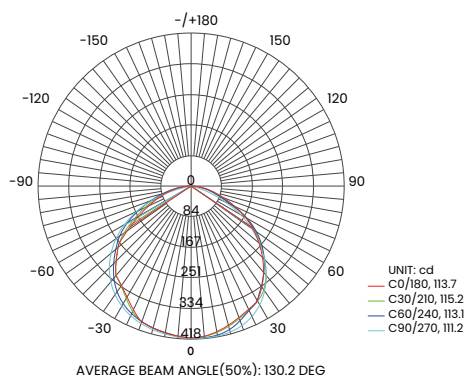
Subway Stations & Tunnels: Durable against dust, moisture, and mechanical impact.

TECHNICAL PARAMETERS

Product Model	VLH-30W	VLH-40W	VLH-60W	VLH-80W	VLH-90W	VLH-120W
Length	2ft	3ft/4ft	4ft	5ft	6ft	8ft
Electrical Performance						
Wattage	30W	40W	60W	80W	90W	120W
Input Voltage	AC100-277V	AC100-277V	AC100-277V	AC100-277V	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9
Surge Protection	2.5KV	2.5KV	2.5KV	2.5KV	2.5KV	2.5KV
THD	<20%	<20%	<20%	<20%	<20%	<20%
Optical Performance						
Luminous Efficacy	130lm/W	130lm/W	130lm/W	130lm/W	130lm/W	130lm/W
Luminous Flux	3900lm	5200lm	7800lm	10400lm	11700lm	15600lm
CCT	5000K	5000K	5000K	5000K	5000K	5000K
CRI	Ra>80	Ra>80	Ra>80	Ra>80	Ra>80	Ra>80
Beam Angle	120°	120°	120°	120°	120°	120°
Unified Glare Rating (UGR)	<28	<28	<28	<28	<28	<28
Reliability						
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-10 ~ +50°C	-10 ~ +50°C	-10 ~ +50°C	-10 ~ +50°C	-10 ~ +50°C	-10 ~ +50°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66
Impact Resistance	IK10	IK10	IK10	IK10	IK10	IK10
Control						
Dimming	0-10V/DALI	0-10V/DALI	0-10V/DALI	0-10V/DALI	0-10V/DALI	0-10V/DALI
Sensor	-	-	-	-	-	-
Communication Protocol	-	-	-	-	-	-
Emergency Kit	-	-	-	-	-	-
Mechanical						
Housing Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Lens Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Coating	Silver	Silver	Silver	Silver	Silver	Silver
Net Weight	1.5kg	3ft: 2.2kg 4ft: 2.75kg	2.75kg	3.5kg	4.2kg	4.75kg
Dimensions	628x90x62mm	3ft: 900x90x62mm 4ft: 1200x90x62mm	1200x90x62mm	1500x90x62mm	1790x90x62mm	2400x90x62mm
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years

PHOTOMETRICS

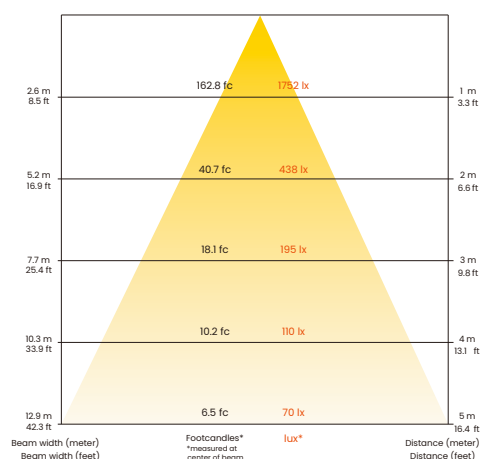
Luminous Intensity Distribution Diagram



120°

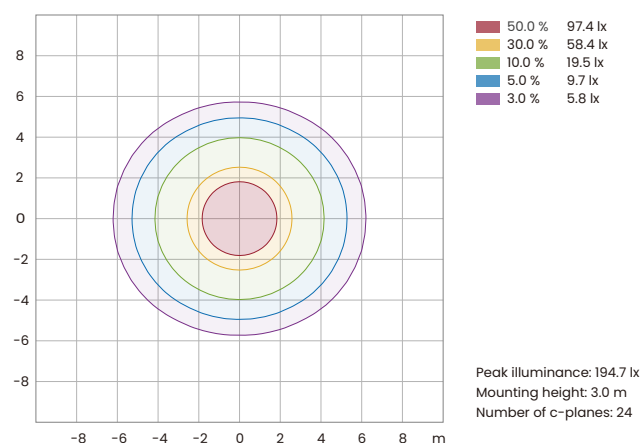
ILLUMINANCE DISTRIBUTION

Illuminance at A Distance



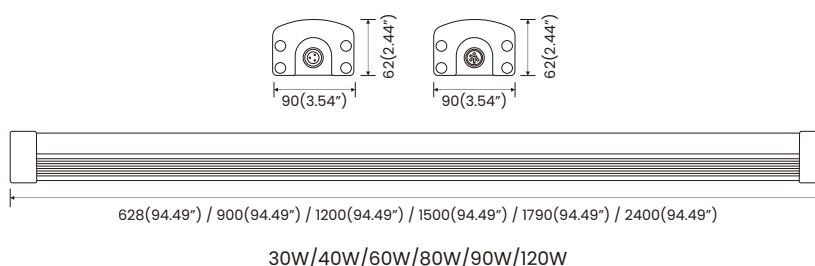
120°

Iso-illuminance Diagram (Iso-lux)



120°

MECHANICAL DIMENSIONS



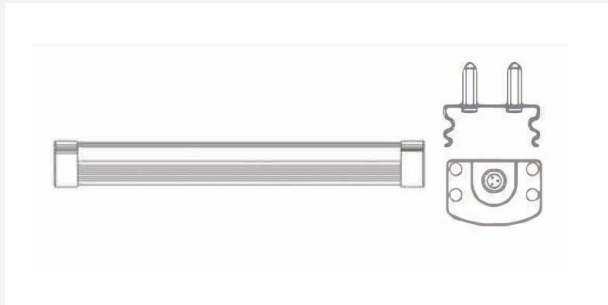
30W/40W/60W/80W/90W/120W

Product Model	VLH-30W	VLH-40W	VLH-60W	VLH-80W	VLH-90W	VLH-120W
Length	2ft	3ft/4ft	4ft	5ft	6ft	8ft
Wattage	30W	40W	60W	80W	90W	120W
Outer box (L*W*H)	880x205x220mm (57.09"x8.07"x8.66")	3ft: 1150x205x220mm(57.09"x8.07"x8.66") 4ft: 1450x205x220mm(57.09"x8.07"x8.66")	1450x205x220mm (57.09"x8.07"x8.66")	1750x205x220mm (57.09"x8.07"x8.66")	2040x205x155mm (57.09"x8.07"x8.66")	2650x110x155mm (104.33"x4.33"x6.10")
Q'ty/Ctn	6pcs	6pcs	6pcs	6pcs	4pcs	2pcs
N.W./Ctn	9kg/19.8lbs	3ft: 13.2kg/29.04lbs 4ft: 16.5kg/36.38lbs	16.5kg/36.38lbs	21kg/46.2lbs	16.8kg/36.96lbs	9.5kg/20.94lbs
G.W./Ctn	10kg/22lbs	3ft: 14.5kg/31.9lbs 4ft: 18kg/39.69lbs	18kg/39.69lbs	23.5kg/51.7lbs	17.9kg/39.38lbs	11kg/24.25lbs
Remarks	-	-	-	-	-	-

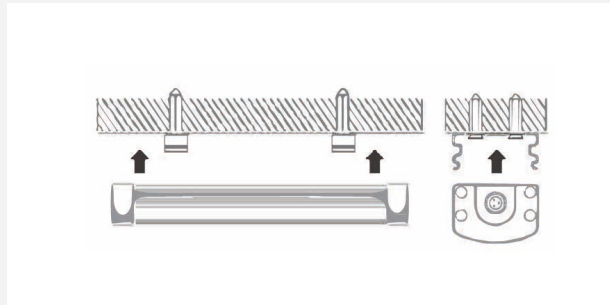
INSTALLATION

- To avoid electric shock, maintenance and installation should only be carried out by a professional electrician
- Before installation, turn off the power to make sure safety
- The integrated tubes can be connected up to total 600W
- Follow the diagram for below for proper installation

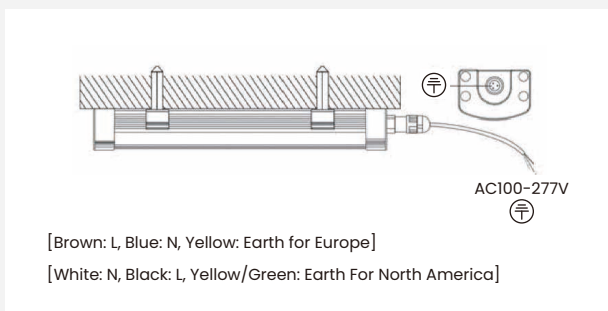
1. Place the clip kit and screws correctly.



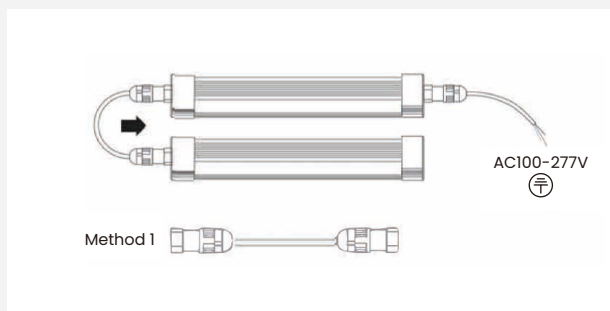
2. Fix the LED tube to the ceiling or wall.



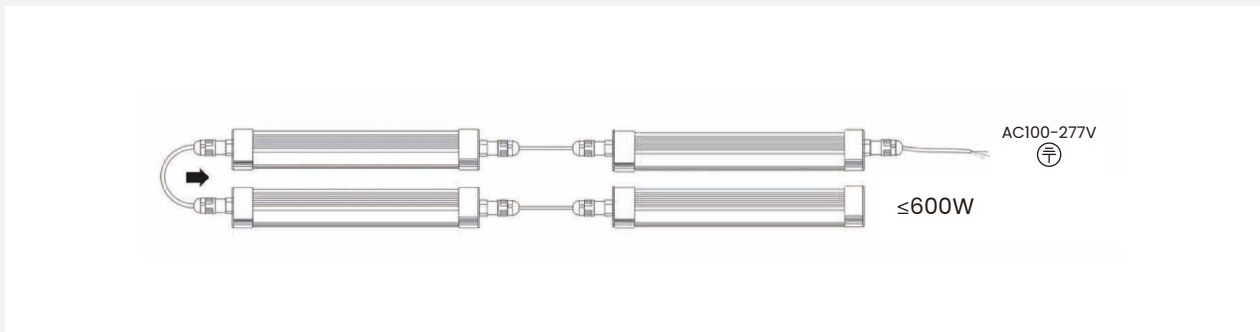
1. Place the clip kit and screws correctly.



2. Fix the LED tube to the ceiling or wall.



Caution: The integrated tubes can be connected up to total 600W.



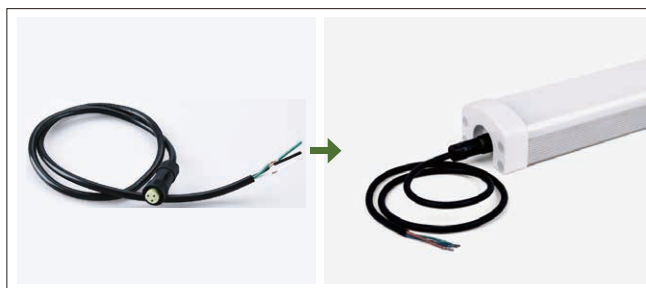
WARNING

- Disconnect power before installation, must be installed by licensed electrician.
- Please use it under correct input power range.
- This tube is non-dimmable.
- Do not use or do not using if the product does not operate properly, check connections after the power is turned off, in case of failure replace the fixtures.

ACCESSORIES



3' Jumper Cable



3' Power cable

ORDER INFORMATION

VLH-YY-YY-YY

① ② ③ ④ ⑤ ⑥ ⑦

① VLH Series Linkable Tri-Proof Light

② Length

2FT	2FT
3FT	3FT
4FT	4FT
5FT	5FT
6FT	6FT
8FT	8FT

③ Wattage

30W	30W
40W	40W
60W	60W
80W	80W
90W	90W
120W	120W

④ Color Temperature

50K	5000K
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⑤ Voltage

(Blank)	100-277V
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⑥ Dimmable

D	0-10V Dimming
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⑦ Optics

(Blank)	120°
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WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT