KiLi-LED

VFO Series

The VFO series is a next generation LED Vapor Tight fixture that provides maximum light output with durable construction. It is ideal for featuring a one piece polycarbonate housing and lens. The VFO was designed to meet or exceed IES recommended foot-candle levels at installed heights for parking garages. Ideal for utility lighting, parking garages and stairwells; where meeting applicable building and safety codes is required.   the LED vapor light is super easy to set up and instantly provides full brightness. We offer five wattage variations with clear and frosted covers for even light distribution of up to 130-150LM/W.

IK08 IP65 5VA c UL us LISTED c ETL us Intertek DLC PREMIUM FC SUITANLE FOR WET LOCATIONS 5 YEAR

FEATURES

- UL/cUL listed for wet locations, IP65 rated
- DLC 4.4 Premium certified
- 130-150 lumens per watt
- 100-277V or 277-347V universal voltage

- 0-10V dimming optional, 10-100%
- Microwave Motion Sensor for Bi-Level control
- 90 mins Emergency Battery Backup
- Linkable with accessories

VFO Series

APPLICATIONS

- Wet areas
- Outside walkways
- Warehouses
- Storage areas
- Industrial units
- Farm buildings (Non-corrosive atmosphere)
- Garages
- Workshops
- Car parks
- Changing rooms
- Resistant to impace and many chemical agents, but for suitablility in specific environments please take specialist advice

CONSTRUCTION

- White coloured polycarbonate
- Polycarbonate diffuser integrated with powder coated lighting tray
- Stainless steel clips
- Reinforced drill points in base for direct surface fixing, or conduit suspension.
- Stainless steel surface mounting clips
- Can also be suspended form wire/chain using clips provided

Supermarket

Farm buildings

Parking lot lighting

Warehouses

PRODUCT DETAILS

High efficient LED chips with 150lm/W light efficiency, and white plate with high brightness spray.

PCB with 4KV withstand voltage rating, and polycarbonate housing with 5VA rated fire resistance rating.

Metal fixed terminals for secure installation, and safety ropes for convenient installation.

VFO Series

TECHNICAL SPECIFICATION

- Input Voltage : 100-277VAC
- Driver Type : UL High efficiency power supply
- Luminous Efficacy : up to 130-150lm/w
- Colour Rendering Index : > 80Ra
- LED Type : LM80 SMD2835
- Operating : Temperature:-40°C up to 50°C (-40°F up to 122°F)
- Color Temperature : 4000K/5000K/
- Material : Polycarbonate Body & Diffuser
- Ingress Protection : IP65
- Impact Rating : IK08
- Rated Life : 50,000 hours
- Warranty : 5 years

Family Model and Variation:
VFO020-XXXXS[P,S]-[Blank,SR,EM,RM] **VFO020** = Family Series;
"XXX" denotes CCT, could be 40K: 4000K, 50K: 5000K;
F = Frosted cover, C= Clear cover;
[P,S] denotes capability of dimming, P = 0-10 V dimmimg,
S = Non-dimmable;
[Blank,SR,EM,RM] denotes product features, could be Blank,
SR: Sensor, EM: Emergency supply, RM: Sensor + Emergency supply.

Where the first "XXX" indicate color temperature, can be any two digit plus K. The second "X" indicate diffuser type, can be F or C, F means frosted, C means clear. "P" indicate 0-10 V dimmable, "S" indicate non-dimmable. The third "XX" can be SR, EM, RM, SR means with Lighting Control, EM means with Emergency power, RM means with Lighting Control and Emergency power.
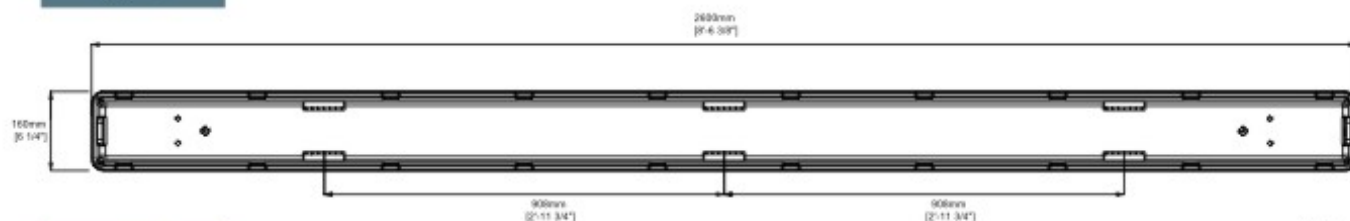
Produce Code	VFO020-XXXXS(2ft)	VFO040-XXXXX(4ft)	VFO054-XXXXX(4ft)	VFO080-XXXXS(8ft)	VFO100-XXXXS(8ft)
Power Consumption(W)	20W	38W	50W	80W	100W
Lumens Delivered (lm)	3000lm(Clear Cover)	5700lm(Clear Cover) 4800lm(Frosted Cover)	7500lm(Clear Cover) 6500lm(Frosted Cover)	12000lm(Clear Cover)	15000lm(Clear Cover)
Efficacy (lm/W)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)
Beam Angle	120°	120°	120°	120°	120°
CRI	80	80	80	80	80
Color Temperature	4000K/5000K	4000K/5000K	4000K/5000K	4000K/5000K	4000K/5000K
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9
Housing	PC	PC	PC	PC	PC
Input Voltage	100-277VAC 50/60Hz	100-277VAC 50/60Hz	100-277VAC 50/60Hz	100-277VAC 50/60Hz	100-277VAC 50/60Hz
Installation	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting
Operating Temperature	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)
Certification	ETL/cETL DLC 4.3 premium	UL/cUL, DLC 4.3 Premium	UL/cUL, DLC 4.3 Premium	ETL/cETL DLC 4.3 premium	ETL/cETL DLC 4.3 premium
Warranty	5 years	5 years	5 years	5 years	5 years

VFOLV054-XXXXS(4ft)	VFOHV040-XXXXS(4ft)	VFOHV054-XXXXS(4ft)	VFO040-XXXXX-SR(4ft)	VFO054-XXXXX-SR(4ft)	VFO054-XXXXSX-EM(4ft)
50W	38W	50W	38W	50W	50W /16W on Emergency
7500lm(Clear Cover) 6500lm(Frosted Cover)	5700lm(Clear Cover) 49800lm(Frosted Cover)	7500lm(Clear Cover) 6500lm(Frosted Cover)	5700lm(Clear Cover) 4900lm(Frosted Cover)	7500lm(Clear Cover) 6500lm(Frosted Cover)	7500lm(Clear Cover) 6500lm(Frosted Cover)
150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)	150lm/w(Clear Cover) 130lm/w(Frosted Cover)
120°	120°	120°	120°	120°	120°
80	80	80	80	80	80
4000K/5000K	4000K/5000K	4000K/5000K	4000K/5000K	4000K/5000K	4000K/5000K
>0.9	>0.9	>0.9	>0.9	>0.9	>0.9
PC	PC	PC	PC	PC	PC
DC36V 1.4A	277-347VAC 50/60Hz	277-347VAC 50/60Hz	100-277VAC 50/60Hz	100-277VAC 50/60Hz	100-277VAC 50/60Hz
Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting	Surface Mount/ Chain/ J-Box Mounting
-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)	-40°C up to 50°C (-40°F up to 122°F)
ETL/cETL UL 2108	ETL/cETL	ETL/cETL	UL/cUL	UL/cUL	UL/cUL
5 years	5 years	5 years	5 years	5 years	5 years

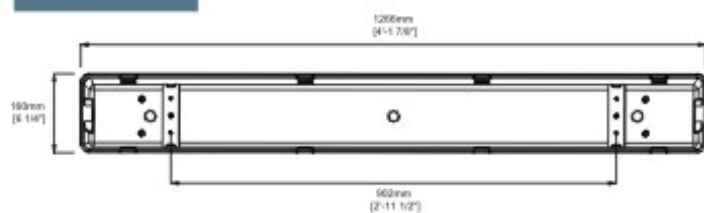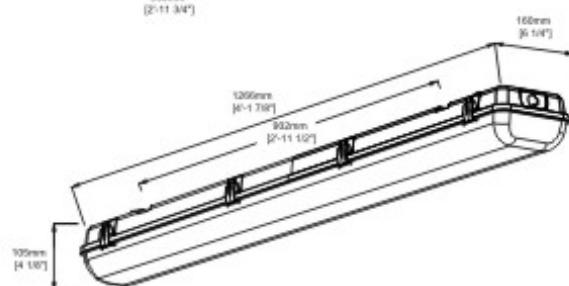# VFO Series

DIMENSION:(mm/in)

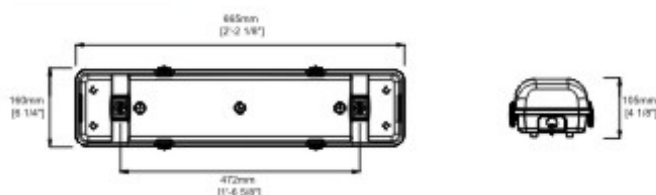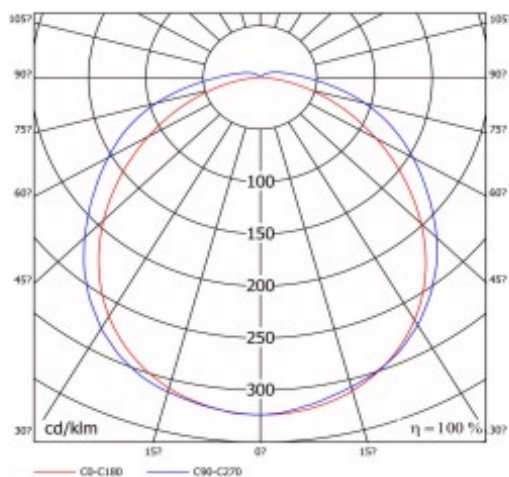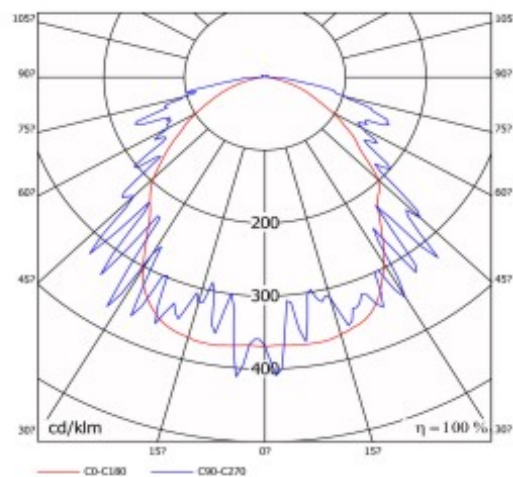8FT

4FT

2FT

Water joint IP65   3/4" Metallic joint

LUMINAIRE PHOTOMETRIC

Luminous Intensity Distrib ution Diagram:

Frosted

cd/klm   η = 100 %

C0-C180   C90-C270

Clear

cd/klm   η = 100 %

C0-C180   C90-C270

VFO Series

The IP65 non-corrosive that outperforms its competitors

PENDING
PATENTED
PENDING

GOOD THERMAL MANAGEMENT. Top of the range UL High efficiency power supply installed on separate heat sink gear tray for good thermal management and long-life.

ALL-POLYCARBONATE CONSTRUCTION. 5VA fire retardant polycarbonate ensure high standard of safety and maximum impact rate of IK08.

REVOLUTIONARY DESIGN. Advanced design of polycarbonate diffuse integrated with lighting tray provide significant protection on LEDs and saving on installtion and maintenance.

MICRO-WAVE & EMERGENCY AVAILABLE. Suitable for various kinds of applications.

Not all non-corrosives are the same. If you are offared a lower-cost alternative to the VFO, check you are comparing like with like:

- 5 years warranty is standard on VFO.
- All luminaires are built to UL 1598 and 2108 standards, Emergency equipped fixtures labeled UL924. Adheres to LM70, LM80, and TM21 industry standards. Design Lights Consortium (DLC) qualified product. Not all models of this product maybe DLC qualified. Please check the DLC Product List.

VFO Series

Motion sensor

Unique split design makes it is suitable to fix within lamps which have limited space.
Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts.
Built-in adjustable daylight sensor.
1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting.
Detection area, time delay and daylight threshold can be precisely set via DIP switch.
Using Pluggable design between motion detector and power part, easy to reinstallor maintain.

3-step dimming function

When used in combination with 1-10V dimmable LED drivers and ballasts, the sensors can achieve 3-step dimming function, 100%---> low light--->off. And the sensors build in adjustable daylight sensors, very easy to install and cost-effective.

| With sufficient ambient light, the sensor does not switch on the lamp. | With insufficient ambient light, the sensor switches on the lamp when motion is detected. | After hold time, the sensor dims the lamp at a low light level if no new motion trigger. | After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone. |

2-step dimming function

Also, the sensors can provide 2-step dimming function, 100 %---> low light (Never turn off). They are particularly suitable for use in corridors, stairwells and underground passages where low light levels are maintained untilmotion is detected.

| No motion detected, the lamp remains at a low light level all the time. | When motion is detected, the sensor brightens the lamp to 100% illumination. | After the hold time, the sensor dims the lamp at the preset low light level if no motion is detected |

Emergency

Features:

Meet most of safety standards for lighting / Standard CSA C22.2 NO.141,UI924/ External Ni-MH battery / Battery protections: over charge protection, over discharge protection, short circuit protection / Indicator shows a variety working modes / Universal input (100-277VAC) / RoHS compliant / Emergency 1.5 H(8W/12W/15W)

PACKAGING

Model No.	Qty (pcs)	L*W*H (CM)	NW. (kgs)	G.W. (kgs)	Meas. (CBM)
			Per CTN	Per CTN	Per CTN
VFO020	4	70.5*35*21CM	8	9.5	0.05
VFO040/VFO054	4	130*21*36CM	14.24	16	0.10
VFO080/VFO100	2	264*18.2*24CM	16	19.2	0.10