



Linear Vapourproof LFY-LED



Linear vapourproof LED fixture, designed for versatility and durability in demanding environments. With adjustable lumen and color temperature settings and wide voltage range ensures compatibility to suit application in industrial and commercial spaces. The fixture combines rugged construction and special design features to achieve contractor friendly installation. Factory installed motion sensor and bluetooth controls are optional.

IDEAL APPLICATIONS

- ✓

Food processing & Storage
- ✓

Live stock barns
- ✓

Agricultural applications
- ✓

Underground Parking Garages
- ✓

Warehouse
- ✓

Industrial application

SPECIFICATIONS

	LFY2-LED27A15	LFY4-LED40A20	LFY4-LED60A40	LFY8-LED80A60	LFY8-LED120A80
PERFORMANCE					
Light Output	4000/2900/2200 lm	6400/4300/2800 lm	9100/7500/6000 lm	12000/10500/9000 lm	18000/15000/12000 lm
Efficacy	145 lm/W	150 lm/W			
CCT	CCT Selectable - 3500K/4000K/5000K				
Beam Angle	110°				
CRI	> 80				
Replaces Up To	2 Lamp F21T5	2 Lamp T8	2 Lamp T5HO	4 Lamp 28WT5	4 Lamp T8
ELECTRICAL					
Wattage	27/20/15 W	41/30/20 W	60/50/40 W	80/70/60 W	120/100/80 W
Voltage	120-277 V				
Surge Protection (as per IEC/EN 61000-4-5)	2kV (Built-in Driver); 10kV & 20kV (Optional)			6kV (Built-in Driver); 20kV (External - Standard)	
Power Factor	>0.96				
THD	<17%				
LED Life (L70)	> 100,000 Hrs				
Battery Backup (Optional)	8W				
Dimming	0-10V (10-100% Continuous Dimming, Dim to Off)				
Control Options	Dimming High Frequency Motion Sensor (DHFS) with Bi-Level Dimming and Daylight Sensing				
CONSTRUCTION					
Length	2ft	4ft		8ft	
Housing	Polycarbonate; 5VA Flammability rated as per UL94; Outdoor rated (f1) as per UL746C				
Lens	Frosted Polycarbonate; Outdoor rated (f1) as per UL746C				
Latches	Stainless Steel - Tool-less Latch (Standard); Secured Latch (Optional), 316 stainless steel for Marina Rated configuration				
Latches Qty.	x6	x8		x16	
Finish	Grey				
Predrilled Conduit Entries	Two (one at each end); Fits 1/2" TRADE Size	Two (one at each end); Fits PG 13.5 & M20 cable gland		Two (one at each end); Fits 1/2" TRADE Size	
Mounting	Suspension, Surface (Ceiling or Wall)				
Ambient Operating Temp. (Standard Fixture)	-40°C to 40°C (-40°F to +104°F)				
Ingress Protection	IP67			IP66	
Certifications	cETLus certified per UL1598, UL1598A & CSA C22.2 NO. 250.0:21; Wet Location, NEMA4X, NSF, IK10, DLC Premium				

Note: Electrical and Light Performance data is based on LM79 test report at 4000K and 120V.
This product is not suitable for Car Washes. Please see our LFW-LED series for Car Wash applications



ORDERING GUIDE



Fixture	Wattage	Voltage	Color Temp.	Dimming	Motion Sensor	Emergency Battery Backup ^b	Surge Protection	Options
LFY2	LED27A15	B - 120-277V	VK-CCT Selectable - 3500K/ 4000K ^a / 5000K	DIM - 0-10V Dimming	Blank ^a - No Motion Sensor	Blank ^a - No Emergency Battery Back Up	Blank ^b - No Surge Protection	Blank ^b
LFY4	LED40A20				DHFS- Dimming High Frequency Motion Sensor	BBK8 - 8W Battery Back Up	SP10 - 10kV Surge Protection	M - Marine Rated
	LED60A40						SP20 ^c - 20kV Surge Protection	
LFY8	LED80A60							
	LED120A80							

^a Standard Configuration for all models

^b Standard Configuration for LFY2 and LFY4

^c Standard Configuration for LFY8

Marine Rated includes 10 kV surge protection for LFY2 and LFY4, and 20 kV surge protection for LFY8 as standard. All external hardware is 316 stainless steel.

STOCK CODE

056540	LFY2-LED27A15-B-VK-DIM	056541	LFY2-LED27A15-B-VK-DIM-DHFS
056640	LFY4-LED40A20-B-VK-DIM	056641	LFY4-LED40A20-B-VK-DIM-DHFS
056660	LFY4-LED60A40-B-VK-DIM	056661	LFY4-LED60A40-B-VK-DIM-DHFS
056680	LFY8-LED80A60-B-VK-DIM-SP20	056681	LFY8-LED80A60-B-VK-DIM-DHFS-SP20
056120	LFY8-LED120A80-B-VK-DIM-SP20	056121	LFY8-LED120A80-B-VK-DIM-DHFS-SP20

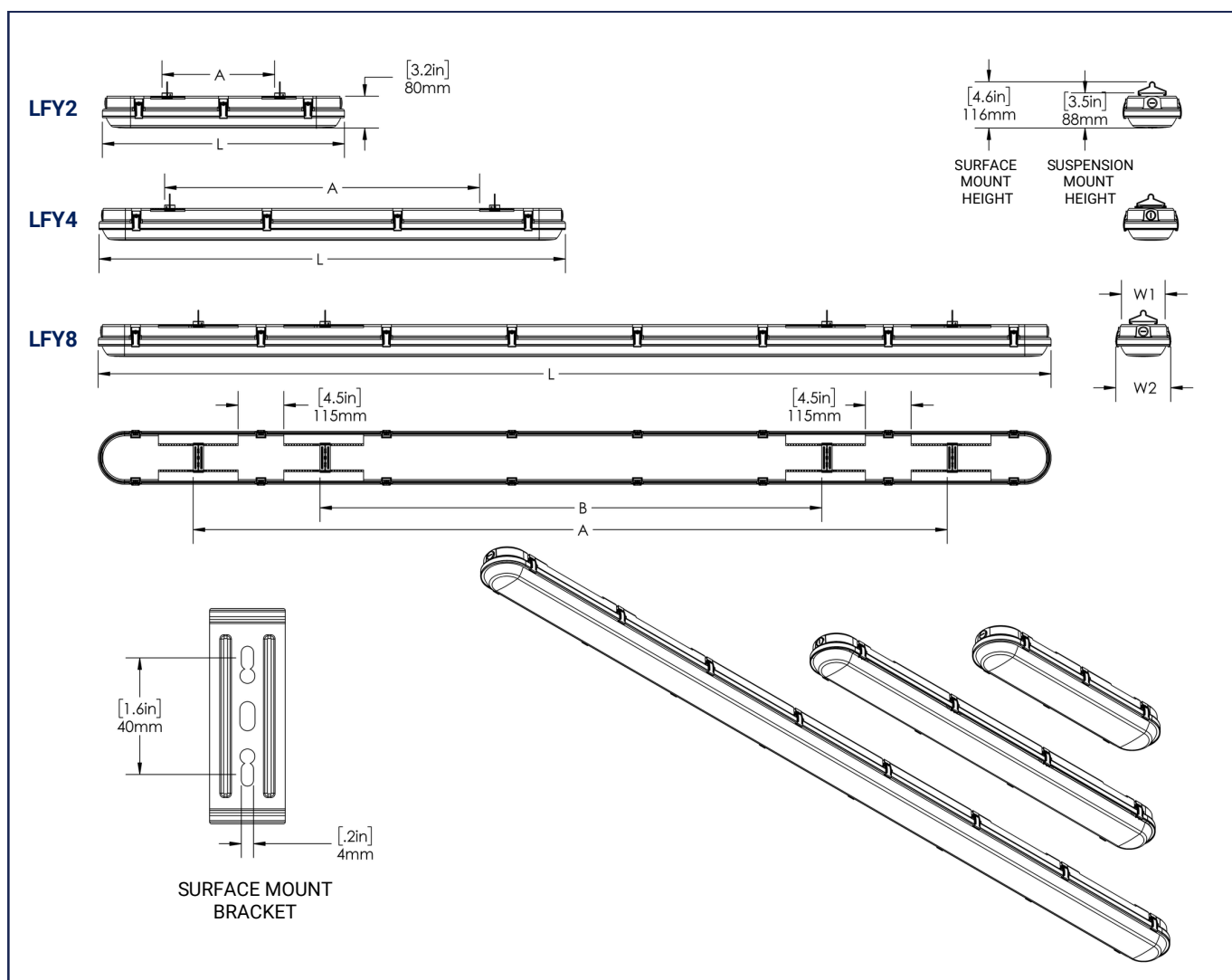
MOUNTING SYSTEM INCLUDED IN THE BOX



ACCESSORY SOLD SEPARATELY

052267	RC-100 MOTION SENSOR REMOTE CONTROL (Compatible with DHFS Sensor)		053122	LFY SECURED LATCH (x8) - SST (LFY8 requires 2 sets of 053122)	
056657	LFY SURFACE MOUNTING BRACKET (x2) - 316 SST		055134	LFY TOOL-LESS LATCH (x8) - 316 SST (LFY8 requires 2 sets of 055134)	
053129	LFY WALL MOUNT BRACKET (x2)		051331	LINEAR CEILING PENDANT MOUNT KIT (2x5ft)	

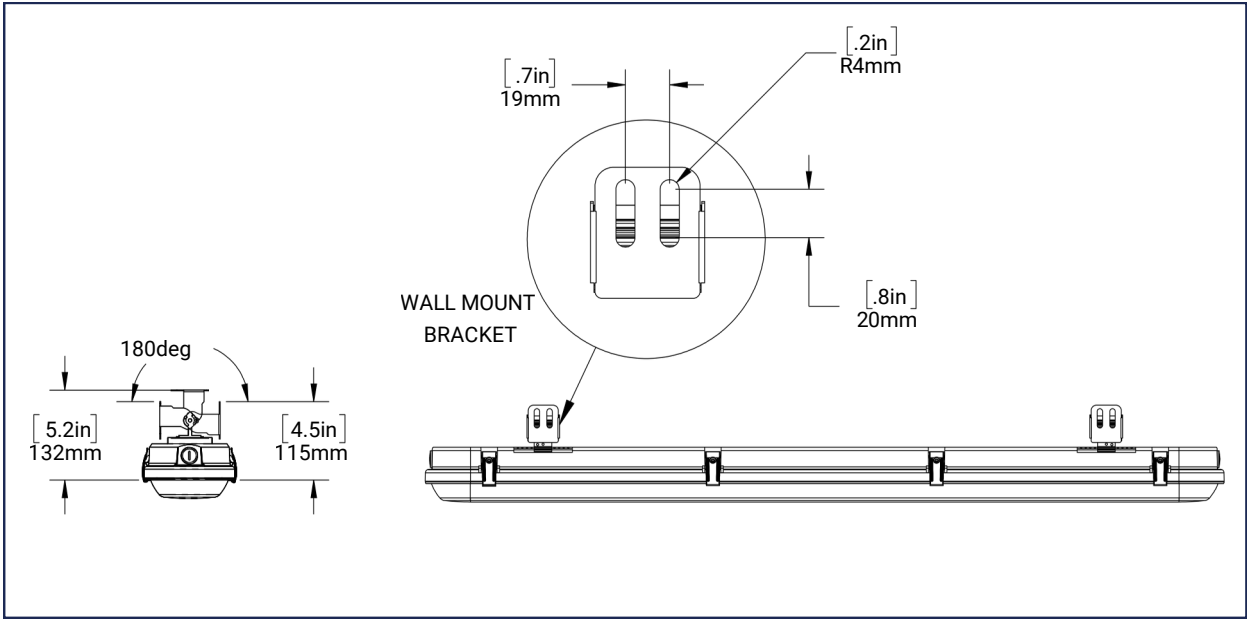
DIMENSIONS



DIMENSIONS

Fixture	Length (L)	Base Width (W1)	Max. Width (W2)	Adjustable Mounting Location Range (A)	Adjustable Mounting Location Range (B)
LFY2	24.0in (610mm)	4.7in (119mm)	5.8in (147mm)	Min. 8.7in (220mm) Max. 13.4in (340mm)	N/A
LFY4	46.3in (1175mm)	4.3in (111mm)	5.5in (138mm)	Min. 30.3in (768mm) Max. 35in (889mm)	N/A
LFY8	94.5in (2400mm)	4.3in (111mm)	5.5in (138mm)	Min. 67.8in (1721mm) Max. 81.5in (2071mm)	Min. 42.9in (1089mm) Max. 56.7in (1439mm)

WALL MOUNT BRACKET

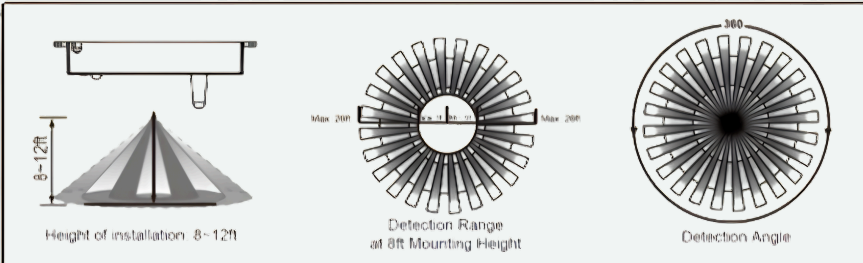


MAX AMPERAGE DRAW (A)					LUMEN MAINTENANCE			
	120V	208V	240V	277V		L90	L80	L70
LFY2-LED27A15	0.24	0.14	0.12	0.11	LFY2-LED27A15	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY4-LED40A20	0.36	0.21	0.18	0.16	LFY4-LED40A20	55,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY4-LED60A40	0.53	0.31	0.27	0.23	LFY4-LED60A40	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY8-LED80A60	0.70	0.41	0.35	0.31	LFY8-LED80A60	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY8-LED120A80	1.05	0.61	0.53	0.46	LFY8-LED120A80	52,000 Hrs	100,000 Hrs	> 100,000 Hrs

Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

AMBIENT OPERATING TEMPERATURE			
Standard Fixture	-40°C to 40°C (-40°F to +104°F)	With DHFS Motion Sensor	-40°C to 40°C (-40°F to +104°F)
With Battery Back Up	10°C to +40°C (50°F to +104°F)		

DIMMING HIGH FREQUENCY MOTION SENSOR SPECIFICATIONS

Features	Microwave motion sensing, Sensor sensitivity adjustment, Bi-Level Dimming and Daylight Sensing. Control settings using DIP Switch or Optional Remote (RC-100)
Maximum Mounting Height/Range	 Height of installation: 8-12ft Detection Range at 8ft Mounting Height Detection Angle
Maximum Detection Angle	360°
Recommended Mounting Height	8ft to 12ft
Sensor Detection Range	26ft at 8ft mounting

Note: Applicable to light fixtures with Dimming High Frequency Motion Sensor (DHFS).

DEFAULT MOTION SENSOR SETTINGS

BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT SENSOR	STAND-BY DIM	STAND-BY TIME
100%	100%	5 minutes	Disabled	DIM: 50%	60 minutes

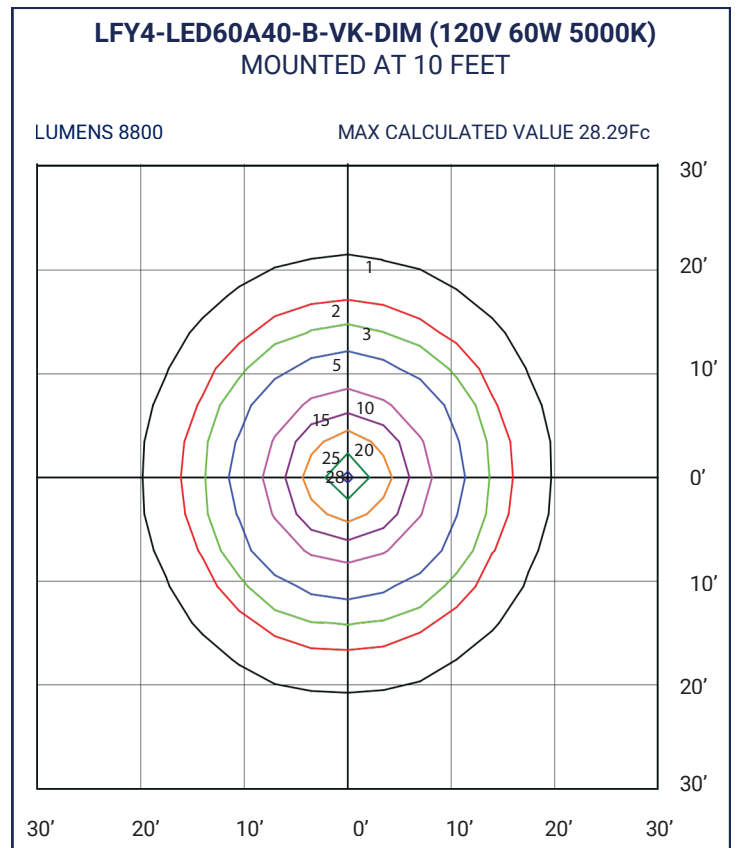
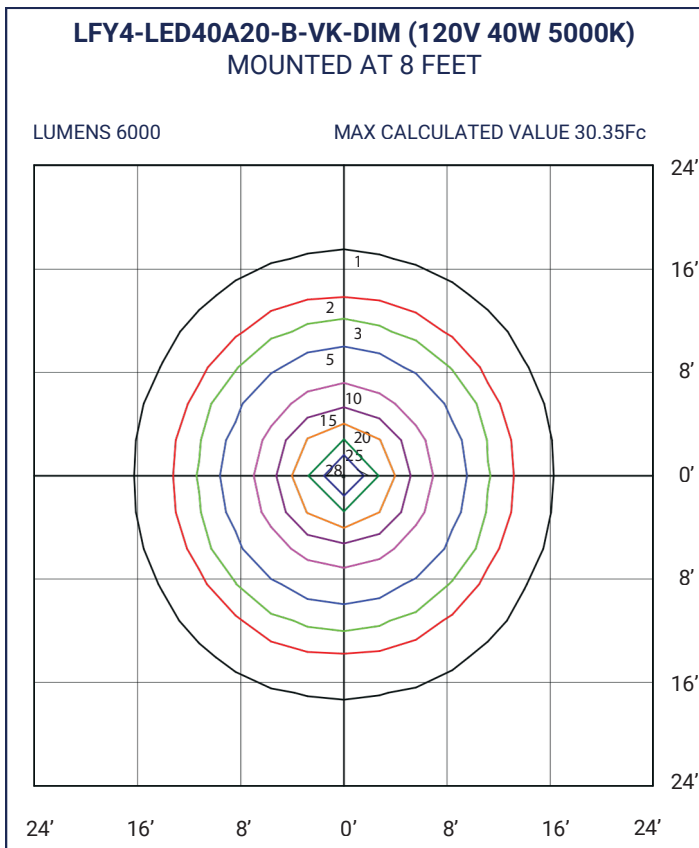
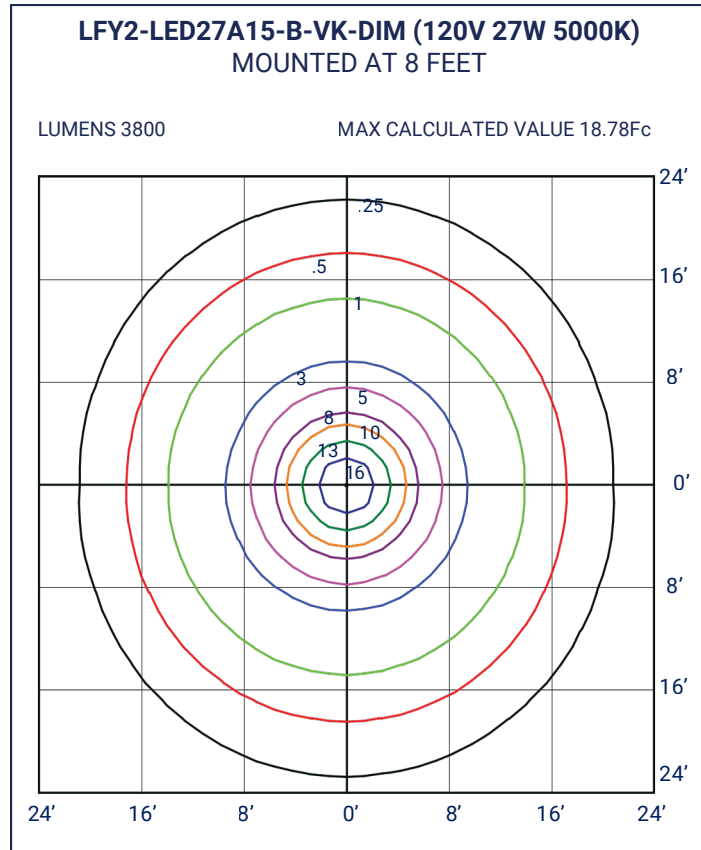
EMERGENCY BATTERY BACKUP SPECIFICATIONS

Rated Input Voltage	100-277 VAC, 50/60HZ
Input current	20-100mA
Input power	Max. 9W
Power Factor	0.6 @ 100VAC
Output Power (Emergency Mode)	9W±10%, Constant Power
Recharge Current	0-200mA
Recharge Time	24 Hours
Discharge Time	90 Minutes
Maximum Case Temperature	70°C
Ambient Operating Temperature	10°C-40°C

Note:

- Lumen output with emergency battery backup can be calculated by multiplying battery power output with efficacy of fixture.
- When operating under emergency power, if the fixture's CCT setting is at 3500K, it will automatically turn ON at 5000K instead of 3500K. Please inform the customer service team if fixture needs to be turned ON at 3500K while operating under emergency power.

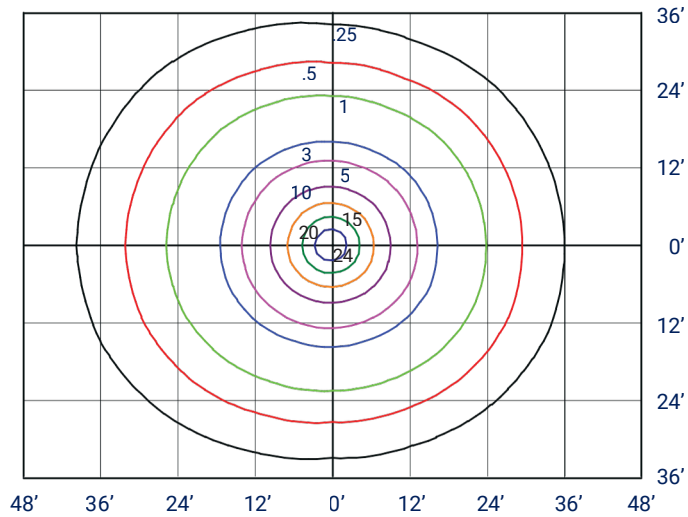
PHOTOMETRIC PLOTS



LFY8-LED80A60-B-VK-DIM (120V 80W 5000K)
MOUNTED AT 12 FEET

LUMENS 12150

MAX CALCULATED VALUE 26.28Fc



LFY8-LED120A80-B-VK-DIM (120V 120W 5000K)
MOUNTED AT 15 FEET

LUMENS 17350

MAX CALCULATED VALUE 24.02Fc

