Project: | Type: | Date: | Notes:

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	120-347 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; Bluetooth Control Motion Sensor (BCMS) with Scheduling				
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

		H	VK	DIM				

Fixture	Wattage	Voltage	Colour Temp.	Dimming	Motion Sensor	Emergency Battery Backup[b]	Surge Protection	Options
LFY2	LED27A15	H - 120-347V	VK- CCT Selectable - 3500K/ 4000K[a]/ 5000K	DIM - 0 -10V Dimming	Blank[a] - No Motion Sensor DHFS- Dimming High Frequency Motion Sensor BCMS- Bluetooth Controlled Motion Sensor	Blank[a] - No Emergency Battery Back Up BBK8 - 8W Battery Back Up	Blank[b] - No Surge Protection SP10 - 10kV Surge Protection SP20[c] - 20kV Surge Protection	Blank[b] M - Marine Rated
LFY4	LED40A20 LED60A40							
LFY8	LED80A60 LED120A80							

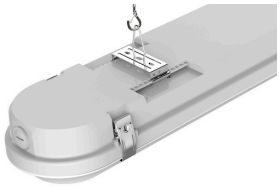
[a] Standard Configuration for all models
[b] Standard Configuration for LFY2 and LFY4
[c] Standard Configuration for LFY8
Marine Rated includes 10 kV surge protection for LFY2 and LFY4, and 20 kV surge protection for LFY8 as standard. All external hardware is 316 stainless steel.

STOCK CODE			
086540	LFY2-LED27A15-H-VK-DIM	**086541**	LFY2-LED27A15-H-VK-DIM-DHFS
086640	LFY4-LED40A20-H-VK-DIM	**086641**	LFY4-LED40A20-H-VK-DIM-DHFS
086660	LFY4-LED60A40-H-VK-DIM	**086661**	LFY4-LED60A40-H-VK-DIM-DHFS
086680	LFY8-LED80A60-H-VK-DIM-SP20	**086681**	LFY8-LED80A60-H-VK-DIM-DHFS-SP20
086120	LFY8-LED120A80-H-VK-DIM-SP20	**086121**	LFY8-LED120A80-H-VK-DIM-DHFS-SP20

MOUNTING SYSTEM INCLUDED IN THE BOX



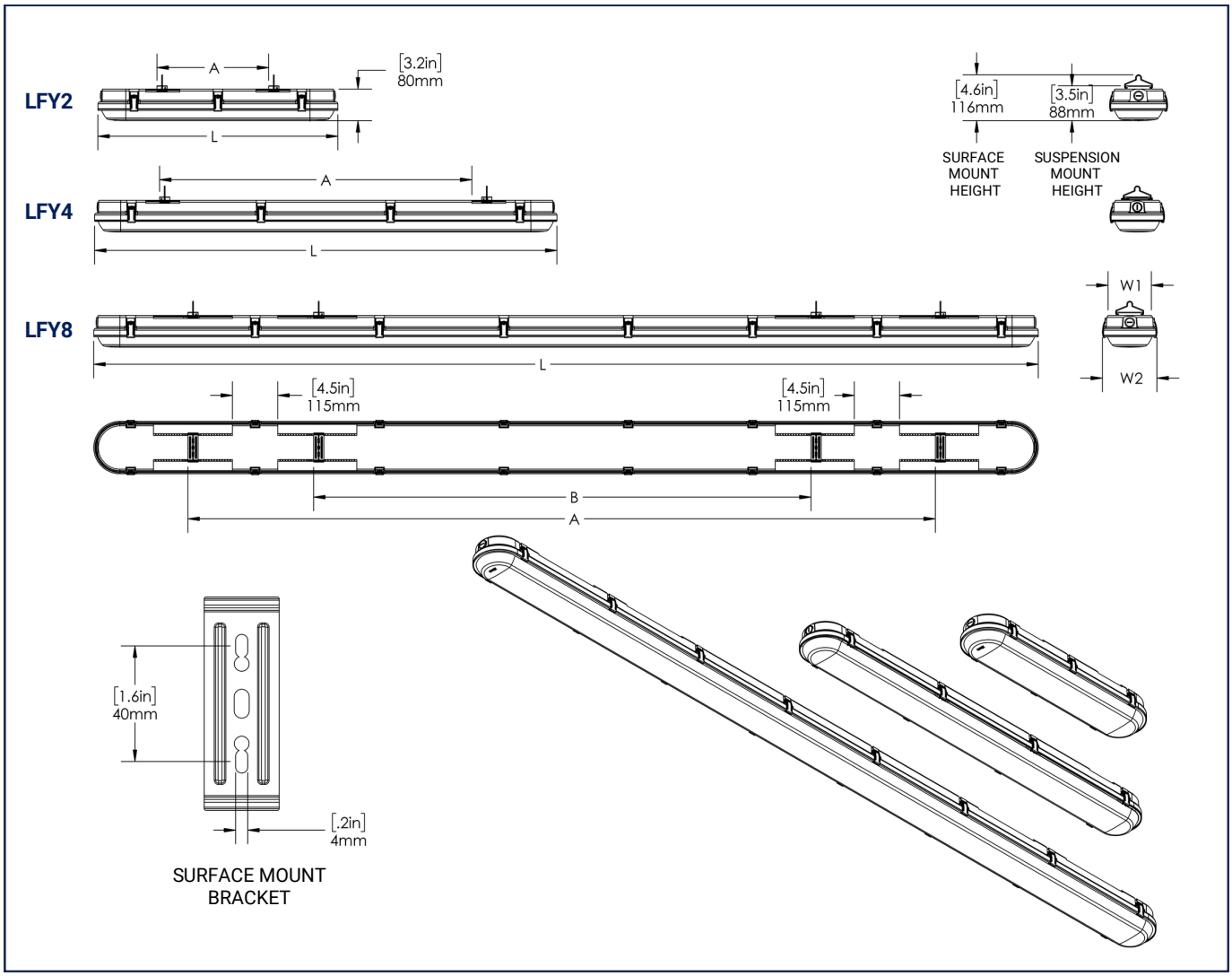
Fixture with Surface Mount Bracket (x2)



Fixture with Suspension Mounting Hook (x2)
(Anchor or chain is not included)

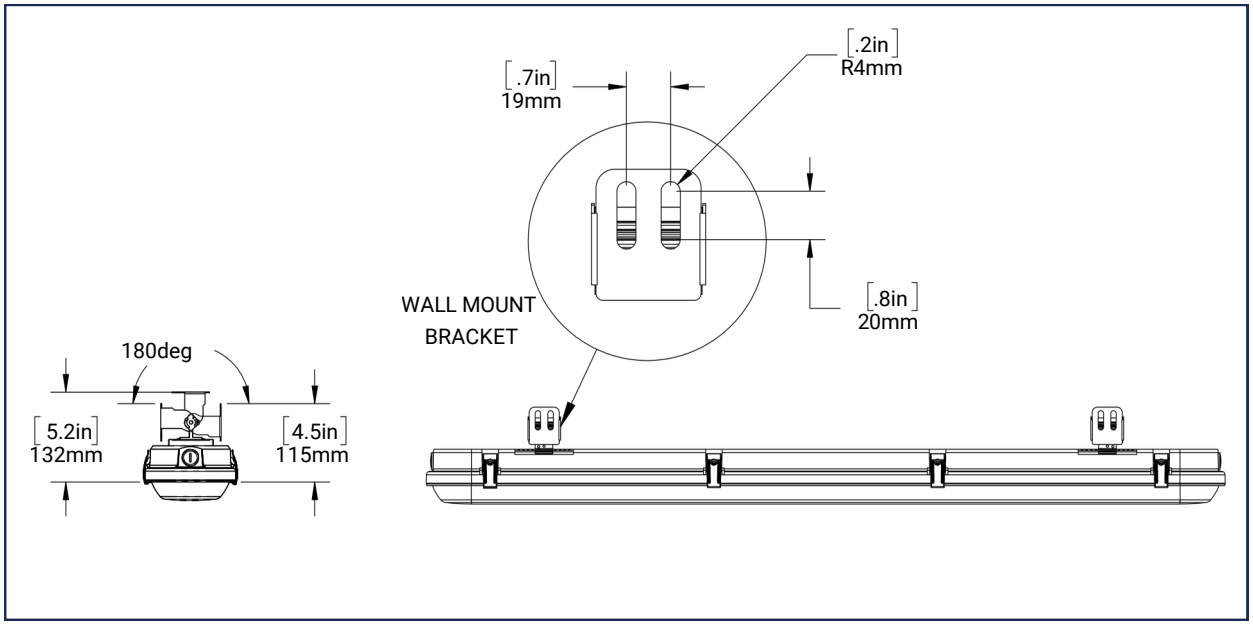
ACCESSORY SOLD SEPARATELY					
087016	RC-100 MOTION SENSOR REMOTE CONTROL (Compatible with DHFS Sensor)		**084088**	LFY SECURED LATCH (x8) - 304 SST (LFY8 requires 2 sets of 084088)	
086657	LFY SURFACE MOUNTING BRACKET (x2) - 316 SST		**085134**	LFY TOOL-LESS LATCH (x8) - 316 SST (LFY8 requires 2 sets of 085134)	
086645	LFY WALL MOUNT BRACKET (x2)		**089814**	LINEAR CEILING PENDANT MOUNT KIT (2x5ft)	
084215	BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH 120-277VAC, 3-KEYS(ON/OFF, DIM+, DIM-)		**084633**	BLUETOOTH 5-KEY BATTERY POWERED WIRELESS WALL SWITCH & PLATE	

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)

	120V	208V	240V	277V	347V
LFY2-LED27A15	0.24	0.14	0.12	0.11	0.09
LFY4-LED40A20	0.36	0.21	0.18	0.16	0.13
LFY4-LED60A40	0.53	0.31	0.27	0.23	0.18
LFY8-LED80A60	0.70	0.41	0.35	0.31	0.25
LFY8-LED120A80	1.05	0.61	0.53	0.46	0.37

LUMEN MAINTENANCE

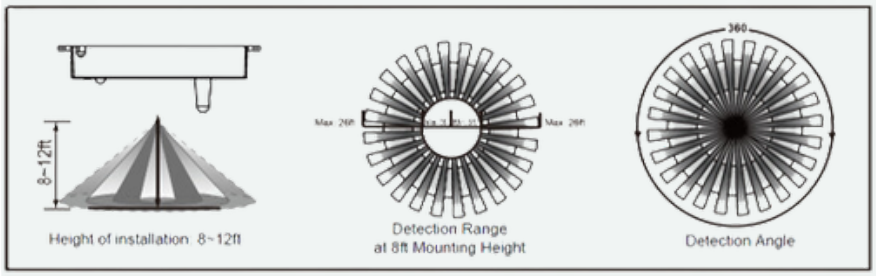
	L90	L80	L70
LFY2-LED27A15	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY4-LED40A20	55,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY4-LED60A40	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY8-LED80A60	52,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY8-LED120A80	52,000 Hrs	100,000 Hrs	> 100,000 Hrs

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)	**With BCMS Motion Sensor**	-30°C to 40°C (-22°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	
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

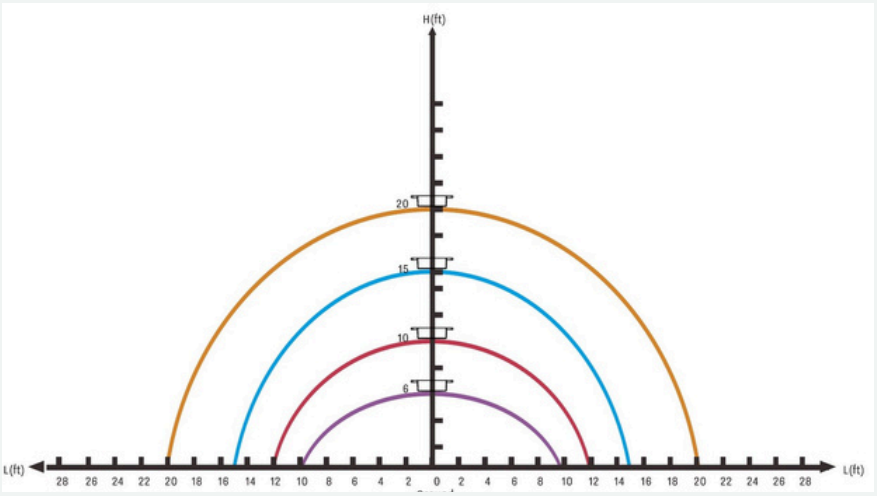
Rated Input Voltage	100-347 VAC, 50/60HZ
Input current	20-100mA
Input power	Max. 9W
Power Factor	0.6 @ 100VAC, 0.5 @347 VAC
Output Power (Emergency Mode)	9W±10%, Constant Power
Recharge Current	0-200mA
Recharge Time	24 Hours
Discharge Time	90 Minutes
Maximum Case Temperature	70°C
Ambient Operating Temperature	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.

CONTROL LED

BLUETOOTH CONTROLLED MOTION SENSOR SPECIFICATIONS

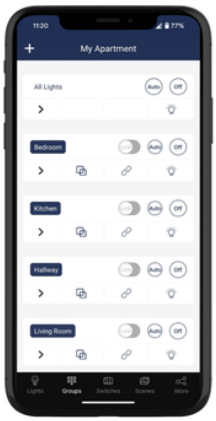
Features	Microwave motion sensing, Sensor sensitivity adjustment, Bi-Level Dimming and Scheduling. Control sensor setting using **ControlLED** app.
Maximum Mounting Height/Range	
Maximum Detection Angle	360°
Recommended Mounting Height	8ft to 20ft
Motion Sensor Detection Range	20-40ft (depending on mounting height)
Maximum Case Temperature	85°C
Ambient Operating Temperature	-30°C-40°C
Sinking Current	10mA Max
Bluetooth Transmit	200ft Max; 800ft Max (with optional Factory Installed Antenna)
Technology	Bluetooth v5.0
Radio Frequency	2.4GHz ± 75MHz
Compliance	UL8750, UL1376, RoHS, FCC

Note: Applicable to light fixtures with Bluetooth Controlled Motion Sensors (BCMS)

CONTROLLED

RAB DESIGN

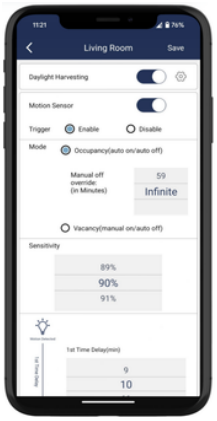
ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.



Organized Workspaces: Create Zones, Groups and Group linkages.



Dimming Lights: Set dim level for groups or individual lights.



Motion Sensors Custom sensor settings for groups or individual lights.



Scenes: Create custom scenes for different scenarios.



Schedules: Create custom schedules for recurring events.



Share Access: Share access using QR codes.

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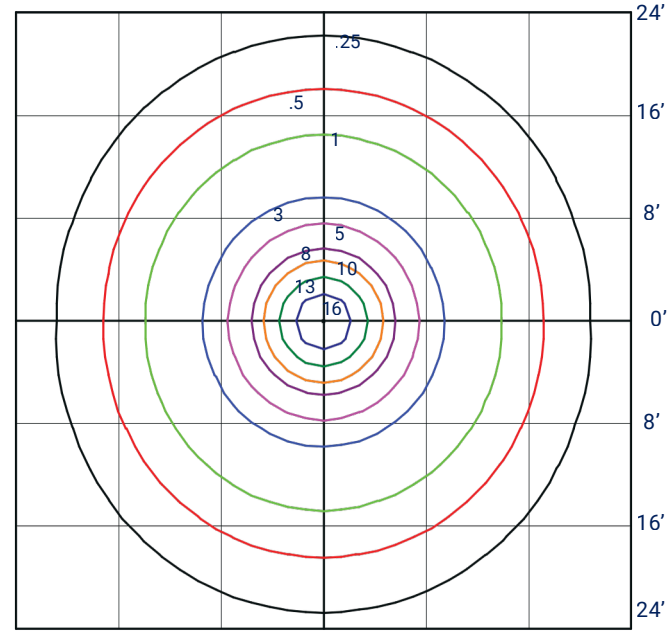
Engineered by skilled hands, for skilled hands.

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PHOTOMETRIC PLOTS

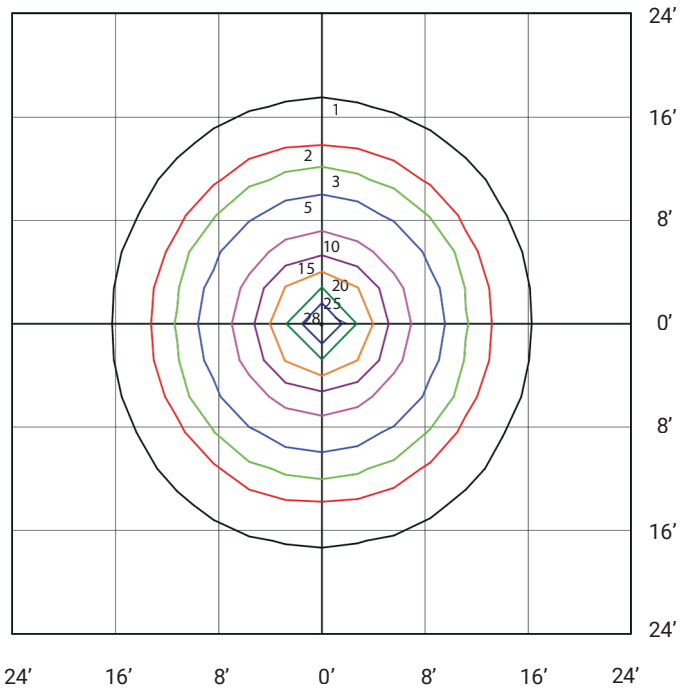
LFY2-LED27A15-H-VK-DIM (120V 27W 5000K)
MOUNTED AT 8 FEET

LUMENS 3800 MAX CALCULATED VALUE 18.78Fc



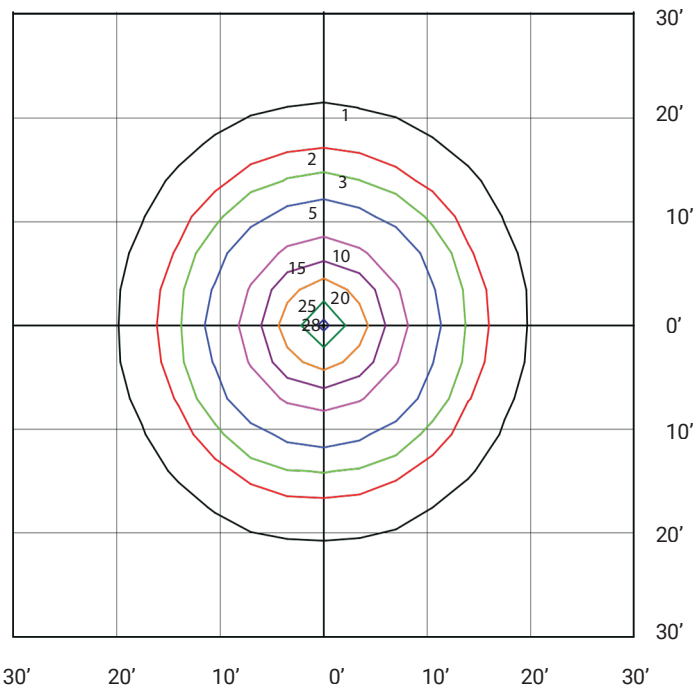
LFY4-LED40A20-H-VK-DIM (120V 40W 5000K)
MOUNTED AT 8 FEET

LUMENS 6000 MAX CALCULATED VALUE 30.35Fc



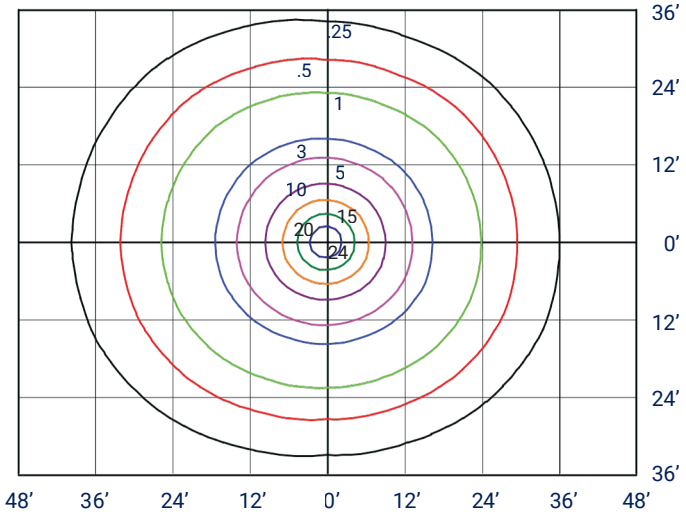
LFY4-LED60A40-H-VK-DIM (120V 60W 5000K)
MOUNTED AT 10 FEET

LUMENS 8800 MAX CALCULATED VALUE 28.29Fc



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

LUMENS 12150 MAX CALCULATED VALUE 26.28Fc



LFY-LED120A80-H-VK-DIM (120V 120W 5000K)
MOUNTED AT 15 FEET

LUMENS 17350 MAX CALCULATED VALUE 24.02Fc

