RAB DESIGN

LFY4-LED
Linear Vapourproof

Introducing our 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 contractor friendly installation and advanced features to deliver reliable, tailored illumination.

IDEAL APPLICATIONS

- ✓ Food processing & Storage
- ✓ Underground Parking Garages
- ✓ Live stock barns
- ✓ Warehouse
- ✓ Agricultural applications
- ✓ Industrial application

SPECIFICATIONS

	LFY4-LED40A20	LFY4-LED60A40
PERFORMANCE		
Light Output	6400/4300/2850 lm	9100/7550/6000 lm
Efficacy	144 lm/W	151 lm/W
CCT	CCT Selectable - 3500K/4000K/5000K	
Beam Angle	113°	
CRI	84	
Replaces Up To	2 Lamp T8	2 Lamp T5HO
ELECTRICAL		
Wattage	41/30/20 W	60/50/40 W
Voltage	120-347 V	
Surge Protection	2kV (Built-in Driver) as per IEC/EN 61000-4-5	
Power Factor	>0.96	
THD	<17%	
Dimming	0-10V (10-100% Continuous Dimming, Dim to Off)	
LED Life (L70)	> 100,000 Hrs	
LED Driver Specs	cULus certified per UL 8750; complies to FCC Part 15, ANSI C63.4, Class B	
Battery Backup	8W Battery Back Up (Optional)	
CONTROLS		
Multifunction Sensor	Dimming High Frequency Motion Sensor	
Bluetooth Control Motion Sensor (BCMS)	Microwave Motion Sensor	
AMBIENT OPERATING TEMPERATURE		
Fixture	-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 Motion Sensor	-40°C to 40°C (-40°F to +104°F)	
With BCMS	-30°C to 40°C (-22°F to +104°F)	
DEFAULT SETTINGS		
CCT	4000K	
Wattage	41 W	60 W

CONSTRUCTION	
Housing	Polycarbonate; 5VA Flammability rated as per UL94; Outdoor rated (f1) as per UL746C
Lens	Frosted Polycarbonate; Outdoor rated (f1) as per UL746C
Clips	Stainless Steel Clips (8x) - Quick release (Standard), Mechanical release (sold separately)
Finish	Grey
Predrilled Conduit Entries	Two (one at each end); Fits PG 13.5 cable gland; suitable for upto 5x18AWG Service Cables
Guide Mark	One at Center from inside; Two adjacent to the center pilot hole
Electrical Cable lengths	1' input LED driver cable length

CERTIFICATIONS
cETLus certified per UL1598 & CSA C22.2 NO. 250.0:21, DLC Premium, DLC Standard
Wet Location, IP67, NEMA4X, NSF, IK10

MOUNTING
Surface/Ceiling/Suspension Mount
Adjustable Stainless Steel Surface Mount Clips and Suspension Mount Hooks included in the box

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

CONTROLLED ✦ Bluetooth

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ORDERING GUIDE

| LFY4 | | H | VK | DIM | | |

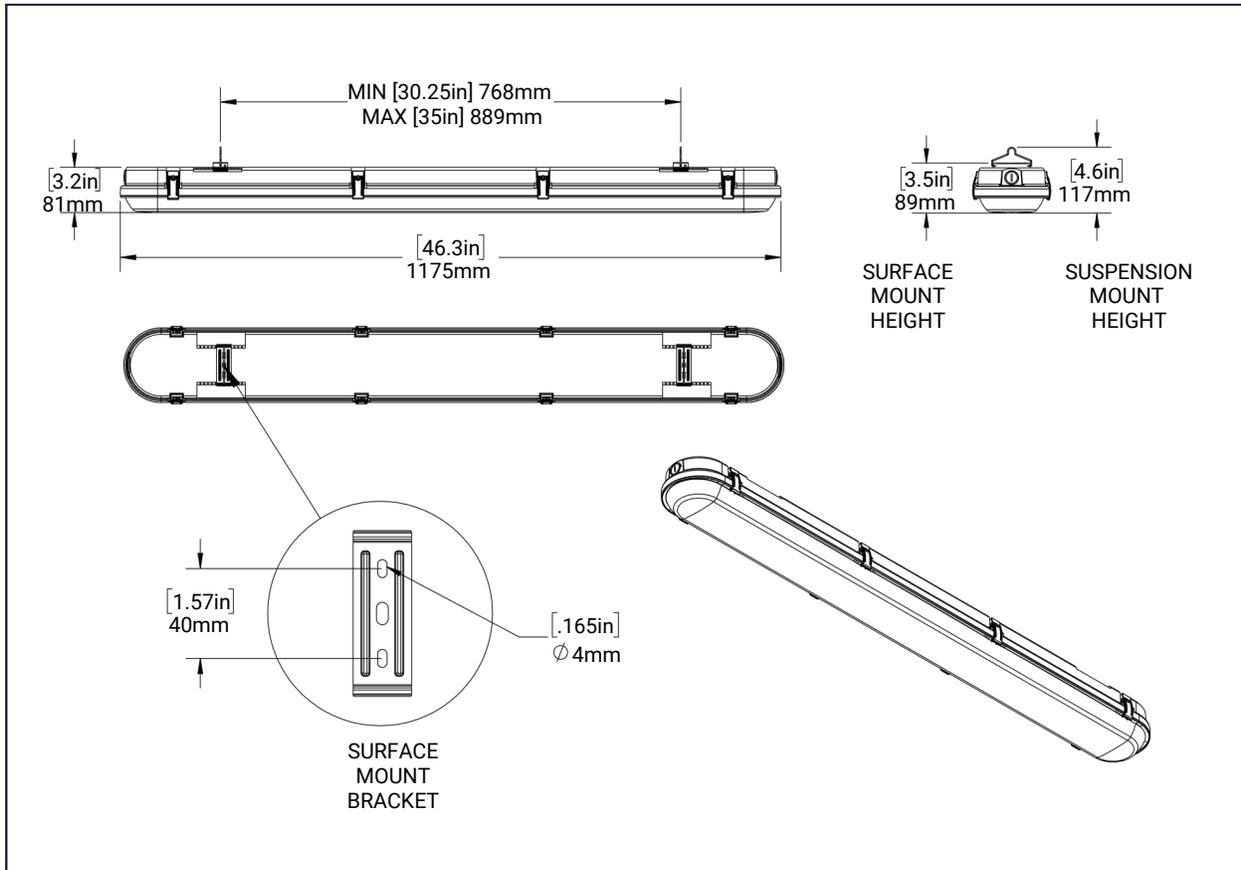| Fixture	Wattage	Voltage	Colour Temp.	Dimming	Motion Sensor	Emergency Battery Backup
LFY4	LED40A20 LED60A40	H - 120-347V	VK- CCT Selectable - 3500K/4000K/5000K	DIM - 0 -10V Dimming	Blank* - No Motion Sensor DHFS- Dimming High Frequency Motion Sensor BCMS-Bluetooth Controlled Motion Sensor	Blank* - No Emergency Battery Back Up BBK8 - 8W Battery Back Up

*Standard Configuration

STOCK CODE	
086640	LFY4-LED40A20-H-VK-DIM
086641	LFY4-LED40A20-H-VK-DIM-DHFS
086648	LFY4-LED40A20-H-VK-DIM-BCMS
086660	LFY4-LED60A40-H-VK-DIM
086661	LFY4-LED60A40-H-VK-DIM-DHFS
086649	LFY4-LED60A40-H-VK-DIM-BCMS

INCLUDED IN THE BOX	
STAINLESS STEEL SURFACE MOUNT INSTALLATION ACCESSORIES (X2)	
SUSPENSION MOUNT HOOKS (X2)	

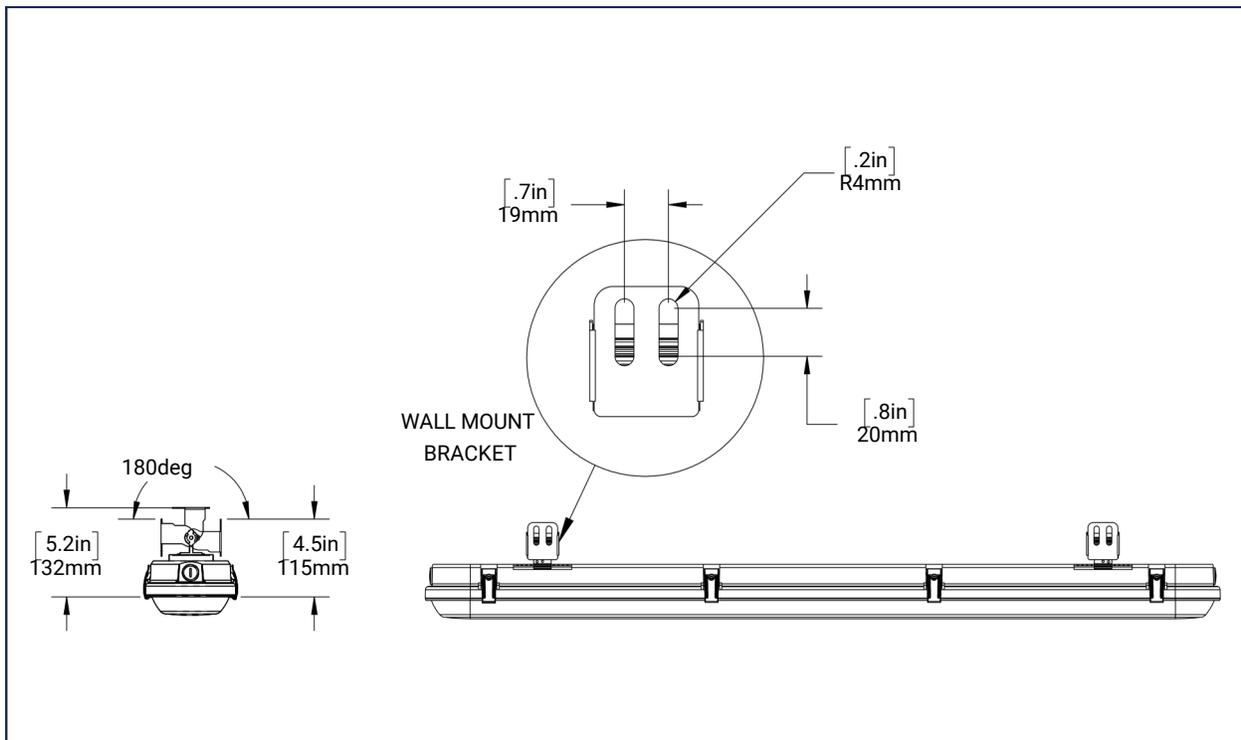| ACCESSORY SOLD SEPARATELY			
087016	RC-100 MOTION SENSOR REMOTE CONTROL	084088	LFY4-LED SST CLIPS KIT (x8) - MECHANICAL RELEASE
086645	LFY4 WALL MOUNT BRACKET	089814	LINEAR CEILING PENDANT MOUNT KIT (2x5ft)

MAX AMPERAGE DRAW (A)	120V	208V	240V	277V	347V
LFY4-LED40A20	0.359	0.207	0.179	0.155	0.124
LFY4-LED60A40	0.525	0.303	0.263	0.227	0.182

LUMEN MAINTENANCE	L90	L80	L70
LFY4-LED40A20	55,000 Hrs	100,000 Hrs	> 100,000 Hrs
LFY4-LED60A40	52,000 Hrs	100,000 Hrs	> 100,000 Hrs

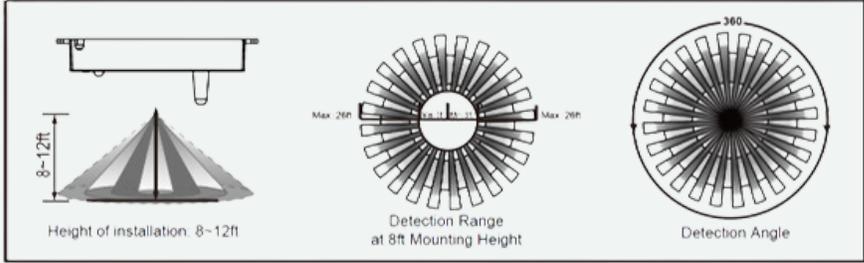Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

DIMENSIONS

MIN [30.25in] 768mm
MAX [35in] 889mm

[3.2in] 81mm

[46.3in] 1175mm

[3.5in] 89mm

[4.6in] 117mm

SURFACE MOUNT HEIGHT

SUSPENSION MOUNT HEIGHT

[1.57in] 40mm

[.165in] Ø 4mm

SURFACE MOUNT BRACKET

WALL MOUNT BRACKET

[.7in] 19mm

[.2in] R4mm

[.8in] 20mm

WALL MOUNT BRACKET

180deg

[5.2in] 132mm

[4.5in] 115mm

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%	10 Seconds	Disabled	DIM: 50%	60 minutes

EMERGENCY BATTERY BACKUP SPECIFICATIONS

Rated Input Voltage	100-347 VAC, 50/60HZ
Input current	20-100mA
Input power	8W
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-60°C

Note:
Lumen output with emergency battery backup can be calculated by multiplying battery power output with efficacy of fixture.

CONTROLLED

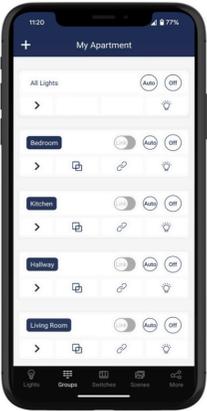## BLUETOOTH CONTROLLED MOTION SENSOR SPECIFICATIONS

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-55°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)

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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.

Get the App!

GET IT ON **Google Play**

Download on the **App Store**

Organized Workspaces:
Create Zones, Groups and Group linkages.

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

Motion and Daylight Harvest 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.

RAB DESIGN®

Engineered by skilled hands, for skilled hands.

PHOTOMETRIC PLOTS

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

LUMENS 6035   MAX CALCULATED VALUE 30.35Fc

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

LUMENS 8839   MAX CALCULATED VALUE 28.29Fc