# 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
- ✓ Live stock barns
- ✓ Agricultural applications
- ✓ Underground Parking Garages
- ✓ Warehouse
- ✓ 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 (Continuous dimming to 10% or below) | |
| LED Life (L70) | 170,000 Hrs | |
| Battery Backup | 8W Battery Back Up (Optional) | |
| **CONTROLS** | | |
| Multifunction Sensor | Dimming High Frequency 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) | |
| **DEFAULT SETTINGS** | | |
| CCT | 4000K | |
| Wattage | 41 W | 60 W |

| CONSTRUCTION | |
|---|---|
| Multifunction Sensor | Dimming High Frequency Motion Sensor |
| Housing | Polycarbonate; 5VA Flammability rated as per UL94; Outdoor rated (fl) as per UL746C |
| Lens | Frosted Polycarbonate; Outdoor rated (fl) as per UL746C |
| Clips | Stainless Steel Clips (8x) - Quick release*, 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, IP66, NEMA4X, NSF, IK10 |

| MOUNTING |
|---|
| Surface/Ceiling Mount |
| Adjustable Stainless Steel Surface Mount Clips 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

# ORDERING GUIDE

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

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

## STOCK CODE

| | |
|---|---|
| **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 |

## INCLUDED IN THE BOX

**Surface Mount Installation Accessories (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 | 170,000 Hrs |
| **LFY4-LED60A40** | 52,000 Hrs | 100,000 Hrs | 170,000 Hrs |

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

## DIMENSIONS

46.3in
1175mm

3.2in
81mm

4.6in
117mm

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

1.57in
40mm

.083in
R2mm

CEILING/SURFACE
MOUNT BRACKET

## WALL MOUNT BRACKET

180deg

5.2in
132mm

4.5in
115mm
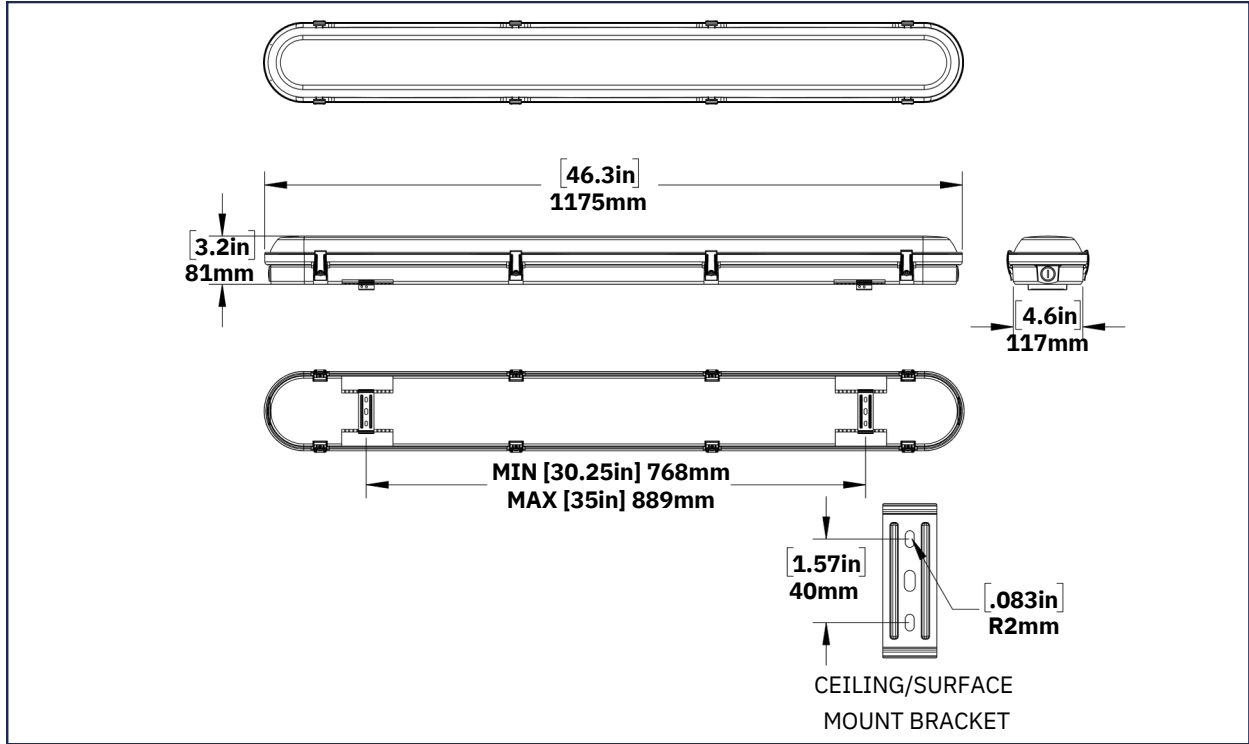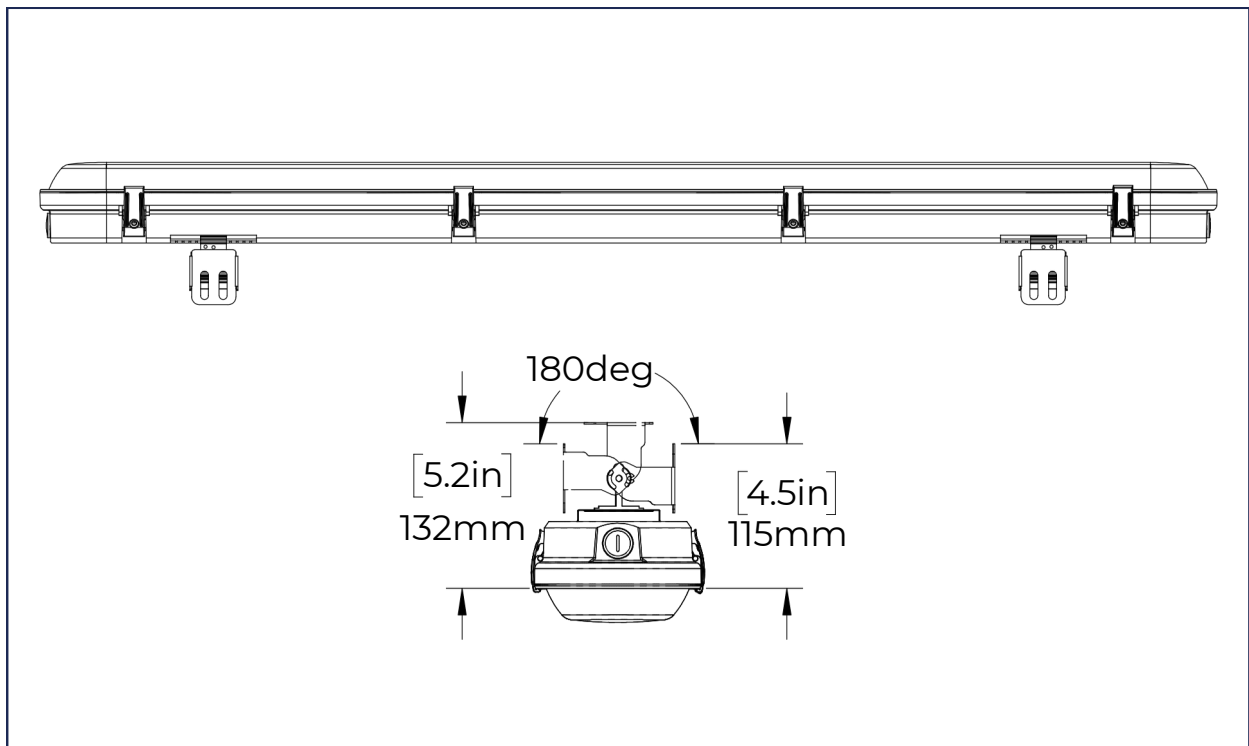
## MOTION SENSOR SPECIFICATIONS

| | |
|---|---|
| **Maximum Mounting Height/Range** |  |
| **Maximum Detection Angle** | 360° |
| **Recommended Mounting Height** | 8ft to 12ft |
| **Sensor Detection Range** | 26ft at 8ft mounting |

### 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 |

**Note:** * Applicable to light fixtures with Motion Sensors (DHFS)

## 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.

# 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