



Color: Gray Weight: 23.4 lbs

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current	Watts	160/140/120W
120V	1.33A/1.17A/1.00A	Color Temp	3500/4000/5000K
208V	0.77A/0.67A/0.58A	Color Accuracy	85-86 CRI
240V	0.67A/0.58A/0.50A	L70 Lifespan	100,000 Hours
277V	0.58A/0.51A/0.43A	Lumens	17,991-24,462 lm
Input Watts	112-158W	Efficacy	150.5-164.6 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

NSF:

NSF Certified by Public Health and Safety

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

IP Rating:

Ingress protection rating of IP67 for dust and water

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

DLC Product Code: S-P3YF6D (Stairwell and Passageway Luminaires)

DLC Product Code: S-WX78XF (High-Bay Luminaires for Commercial and Industrial Buildings)

Electrical

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

3.93% at 120V, 10.17% at 277V

Power Factor:

99.8% at 120V, 97.4% at 277V

Surge Protection:

Ringwave LN4 kV/LN-GND 6 kV

Battery Backup:

Battery backup will operate the fixture for 90 minutes if power fails. Wired for 120-277V.

Battery Backup Light Loss Factor:

160W: 0.16
140W: 0.18
120W: 0.21

LED Characteristics

LEDs:

Long-life, high-efficacy, surface-mount LEDs

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

Housing:

Impact-resistant polycarbonate* with stainless steel door clips. 1/2" NPS opening for conduit and bushing/cord entry. *Polycarbonate is affected by cleaning agents or other liquids containing partial solvents such as low molecular weight aldehydes and ethers, ketones, esters, aromatic hydrocarbons and perchlorinated hydrocarbons. [Click here for a detailed list of damaging chemicals.](#)

Lens:

Diffuse polycarbonate lens for low glare and maximum protection

Gaskets:

High-temperature silicone gaskets

Cold Weather Starting:

The minimum starting temperature is 0°C (32°F)

Maximum Ambient Temperature w/Battery Backup:

Suitable for use in up to 122°F (50°C)

Technical Specifications (continued)

Installation:

Tether Cables are provided for easy installation.
Quick connector may be used for quick and easy wiring.

Green Technology:

Mercury and UV free. RoHS-compliant components.

Finish:

Formulated for high durability and long-lasting color

Installation

Mounting:

Quick-mount, stainless steel snap on brackets supplied for surface mounting. V-Hook brackets supplied standard for suspending the fixture.

Sensor Settings

Sensor Connection Type:

Pogo pin

Max Mounting Height:

50 ft

Detection Range:

50 ft diameter mounted at 50 ft

Sensor Technology:

Microwave (MVS)

Default Setting:

Motion Sensitivity: High
Brightness when triggered : 100%
Hold time: 20 minutes
Standby to dim: 20%
Standby time: 1 minute
When vacant: Off
Daylight: Disabled

Adjustable Sensor Settings?:

Yes, using the MSR1 Remote (sold separately)

Standby to dim: 10%/20%/30%/50%

Standby time:

0s/10s/30s/1min/5min/10min/30min/60min/+∞

Daylight Threshold:

2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable

Remote Control Accessory:

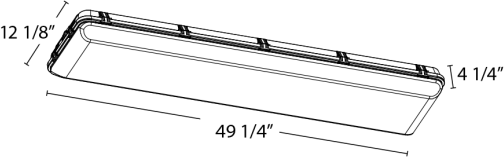
Adjust settings using remote control (catalog# MSR1). Only available with 0-10V dimming driver options. [Remote control available here.](#)

Other

5-Year Limited Warranty:

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Dimensions



Features

- NSF certified for use in food-preparation facilities
- 100,000-Hour LED lifespan
- DLC Premium Listed
- IP67 Rated for Wet Locations
- 5-Year, limited warranty

Ordering Matrix

Family	Size/Wattage	Color Temp	Finish	Driver	Options
WHALE	4				/MVS/E
	2H = 2 ft, 135/100/70W 4 = 4 ft, 160/140/120W 4H = 4ft, 265/225/145W 2 = 2 ft, 90/75/60W	Blank = 3000/4000/5000K CCT Adjustable	Blank = Gray	Blank = 120-277V, 0-10V Dimming	/LCBS/MVS/E = Lightcloud Blue w/MVS Sensor & Battery Backup /LCBS/E = Lightcloud Blue w/PIR Sensor & Battery Backup /PIR/E = Passive Infrared Occupancy Sensor w/Battery Backup /MVS/E = Microwave Occupancy Sensor w/Battery Backup /LCBS/MVS = Lightcloud Blue w/MVS Sensor /LCBS = Lightcloud Blue w/PIR Sensor /PIR = Passive Infrared Occupancy Sensor /MVS = Microwave Occupancy Sensor /E = Battery Backup Blank = No Option