

SWISH2X4- 49YN/D10/MVS/E2



LED efficiency and performance in an economical 2'x4' center basket troffer with emergency battery-backup that will operate the fixture for at least 90 minutes if power fails.

Color: White

Weight: 25.1 lbs

Project:

Type:

Prepared By:

Date:

Driver Info

Type:	Constant Current
120V:	0.41A
208V:	0.24A
240V:	0.21A
277V:	0.18A
Input Watts:	49W
Efficiency:	N/A

LED Info

Watts:	49W
Color Temp:	3500K
Color Accuracy:	84 CRI
L70 Lifespan:	100000
Lumens:	6,331
Efficacy:	129 LPW

Technical Specifications

Listings

UL Listing:

Suitable for damp locations

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

Electrical

Driver:

Class 2, Constant Current, 100-277V, 50/60Hz, 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.18A, THD <15%, Power Factor >90%, 4kV surge protection.

Dimming Driver:

Driver includes dimming control for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims as low as 10%.

Emergency Battery Backup:

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

THD:

4.2% at 120V, 7.3% at 277V

Power Factor:

99.8% at 120V, 96.5% at 277V

Smart Sensing:

Programmable occupancy sensor for multi-level lighting control. Includes manual override from a light switch.

Construction

Ambient Temperature:

Suitable for 40°C (104°F) ambient temperatures

IC Rating:

Suitable for direct contact with insulation

Housing:

Die-formed, 20-gauge, cold-rolled steel

Mounting:

Integral T-grid clips make installation easy and secure

Reflector:

High-reflectance, powder-coated finish, optimized for uniform distribution

Lens:

Snap-in, frosted polycarbonate lens

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

LED Characteristics

LEDs:

Long-life, high-efficiency surface mount LEDs

Lifespan:

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

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Other

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Replacement:

49 Watt 2x4 replaces (3) F32 T8 or (3) F28 T5

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Technical Specifications (continued)

Other

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Patents:

This design is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Sensor Specifications

Capacitance Load:

400W at 120V, 800W at 230V, 1000W at 277V

Operating Temperature:

-20°C to +60°C (-4°F to +140°F)

Relay:

Zero-cross relay

Maximum Mounting Height:

5m

Customizable Detection Area:

10, 50, 75 or 100%

Time Delay:

5s, 30s, 1min, 5min, 10min, 20min, 30min

Cut Off Period:

0s, 10s, 1min, 5min, 10min, 30min, 1hr, Bi-Level

Cut Off Dimming level:

10, 20, 30, 50%

Cut Off Power:

Less than 1W

Daylight Threshold:

About .2-5 fc for disabled

Sensor Principle:

High Frequency

Microwave Frequency:

5.8GHz +/- 75MHz

Microwave Power:

<0.2mW

Detection Range Max:

16m across, 10m high

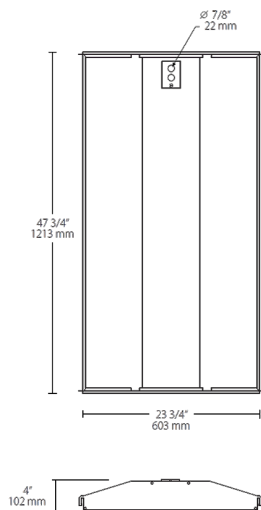
Detection Angle:

About 30 to 150 degrees

Remote Control:

Adjust settings using remote control (catalog# MVSREM). Only available with 0-10V dimming driver options.

Dimensions



Features

- Emergency battery back-up included
- Optional surface mount and dry wall frame kits available
- Optional programmable occupancy sensor for multi-level lighting control
- 0-10V dimming standard on all models
- 100,000-hour LED lifespan
- 5-year warranty

Ordering Matrix

Family	Size	Watts	Color Temp	Dimming	Sensor	Battery Backup
SWISH	2X4	49	YN	/D10	/MVS	/E2
	2X4 = 2' x 4'	39 = 39W 49 = 49W	Y = 3000K (Warm) YN = 3500K (Warm Neutral) N = 4000K (Neutral)	/D10 = Dimmable	Blank = No Occupancy Sensor /MVS = Occupancy Sensor	/E2 = 120-277V Battery Backup