

SWISH[®]MAX Field-Adjustable Troffer

RAB

SWISH1X4



SWISH2X2



SWISH2X4



SWISH MAX Field-Adjustable Troffer



PROJECT:

DATE:

TYPE:

PREPARED BY:



- Available in 3 sizes with selectable wattages
SWISH1X4: 29/25/19W - Factory default: 25W
SWISH2X2: 39/29/19W - Factory default: 29W
SWISH2X4: 49/39/26W - Factory default: 39W
- Field-Adjustable CCT: 3500/4000/5000K - Factory default: 4000K
- Voltage rating: **120-277V**
- Suitable for **damp** locations
- Suitable for **direct contact** with **insulation**
- Available with standard or Lightcloud Blue-enabled PIR/MVS sensors. Battery backup available
- **5-Year, no-compromise warranty**

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for dry and damp locations

DLC Listed

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

PRODUCT ID: SWISH1X4 : S-AIFQ80

SWISH2X2 : S-DG7IW2

SWISH2X4 : S-WUIQNR

LED CHARACTERISTICS

LEDs

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

Color Stability

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

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.

FIELD ADJUSTABILITY

Field Adjustable:

SWISH1X4: 29/25/19W - Factory default: 25W

SWISH2X2: 39/29/19W - Factory default: 29W

SWISH2X4: 49/39/26W - Factory default: 39W

Color temperature: 3500/4000/5000K (factory default 4000K)

CONSTRUCTION

Cold Weather Starting

Minimum starting temperature is -20°C (-4°F)

Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

Mounting

Recessed into T-grid ceiling.

Lens

Frosted Polystyrene

Housing / Finish

Die-Formed 26 Gauge Cold-Rolled Steel

Green Technology

Mercury and UV free. RoHs-compliant components

Reflector:

Aluminum with high reflectance white finish

IC Rated

Suitable for direct contact with insulation

Finish

Formulated for high durability and long lasting color

SWISH[®]MAX Field-Adjustable Troffer



TECHNICAL SPECIFICATIONS

ELECTRICAL

Drivers:

Class 2, Constant Current, 120-277V, 50/60Hz
19W: 120V: 0.16A, 208V: 0.10A, 240V: 0.08A, 277V: 0.07A
29W: 120V: 0.25A, 208V: 0.14A, 240V: 0.12A, 277V: 0.11A
39W: 120V: 0.33A, 208V: 0.19A, 240V: 0.17A, 277V: 0.14A
49W: 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.18A

Dimming Driver:

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

Surge Protection:

DM 1kV, CM 2kV

THD:

SWISH1X4: 11.9% at 120V, 10.4% at 277V
SWISH2X2: 10.2% at 120V, 12.8% at 277V
SWISH2X4: 7.5% at 120V, 10.4% at 277V

Power Factor:

SWISH1X4: 98.7% at 120V, 94.9% at 277V
SWISH2X2: 98.8% at 120V, 93.2% at 277V
SWISH2X4: 99.3% at 120V, 96% at 277V

Battery Backup:

Battery backup will operate the LED Lamp for 90 minutes if power falls.
Wired for 120-277V.

Battery Backup Light Loss Factor:

SWISH1X4:

29W: 0.263
25W: 0.313
19W: 0.426

SWISH2X2:

39W: 0.203
29W: 0.266
19W: 0.436

SWISH2X4:

49W: 0.157
39W: 0.196
26W: 0.301

Note: All values are typical (tolerance +/- 10%)

WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud-enabled products offer integrated network lighting control for a truly wireless solution that allows you to control RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and commercial applications. Each device can then communicate with other devices in the mesh network. With two Lightcloud systems to choose from, it's easy to implement controls within any application.

DLC system - N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)

Learn more at www.lightcloud.com

Lightcloud Blue (LCB)

- Utilizes Bluetooth Mesh, eliminating the need for a Gateway or Hub.
- Ideal for applications that need basic wireless control such as ON/OFF, dimming, color tuning, Schedules, and SmartShift.
- Download the Lightcloud Blue mobile app for iOS or Android devices.

LIGHTCLOUD (CONTINUED)

Lightcloud Enterprise (LC)

- Utilizes a secure cellular and Zigbee mesh network that requires a Gateway or Hub (sold separately).
- Offers premium features like remote commissioning, demand response, BACnet integration, and more.
- Download the Lightcloud Enterprise mobile app for iOS or Android devices.

OCCUPANCY SENSORS

Sensor Type: Passive Infrared (PIR) or Microwave (MVS)

Input Voltage: 12VDC

Operating Frequency: 50/60Hz

Operating Temperature: -22°F to 104°F (-30°C to 40°C)

Max Mounting Height: 9 ft. to 12 ft.

Detection Range: 20 ft. diameter at 9 ft. mounting height

Daylight Sensing: The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set. Closed loop daylight harvesting with continuous dimming available with Lightcloud Blue. Specify settings using the Lightcloud Blue mobile app.

Default Settings:

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 Settings: Settings for Lightcloud Blue-enabled sensors can be adjusted using the mobile app. All other sensors will require MSR1 Remote (sold separately) to adjust the following sensor settings:
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

PERFORMANCE

Lifespan

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

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. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

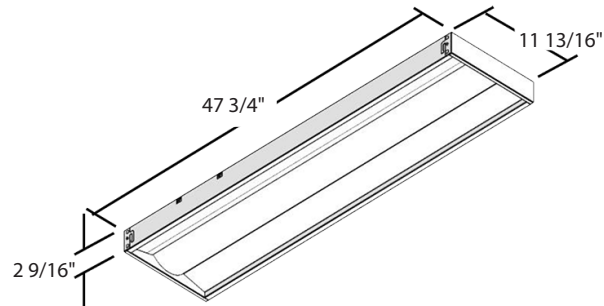
SWISH[®]MAX Field-Adjustable Troffer

RAB

DIMENSIONS

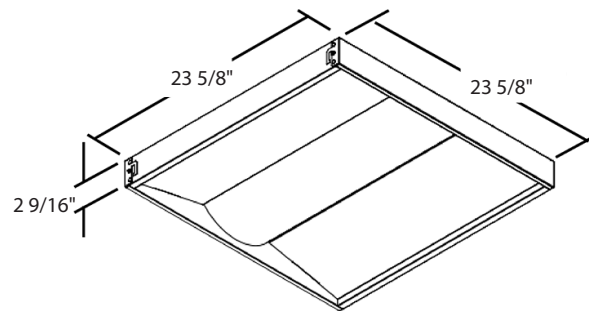
SWISH1X4

Weight: 10 Lbs



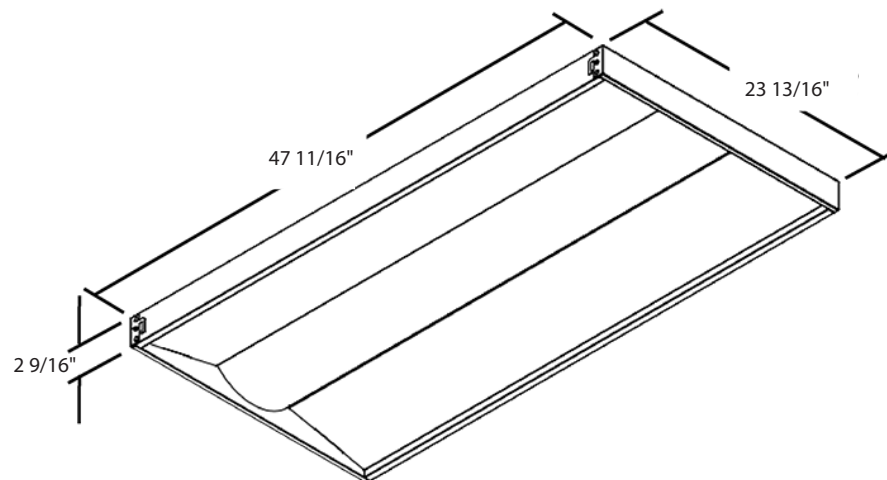
SWISH2X2

Weight: 8.8 Lbs



SWISH2X4

Weight: 17.6 Lbs



SWISH[®]MAX Field-Adjustable Troffer







PERFORMANCE

SWISH1X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	29W			25W			19W		
INPUT WATTS	30.4W	29.1W	30.3W	25.6W	24.6W	25.5W	18.8W	18.2W	18.8W
LUMENS	3,767	4,012	3,907	3,222	3,416	3,354	2,465	2,586	2,572
LM/W	123.8	137.8	129	126	138.9	131.6	131.3	142.2	136.9
CRI	85	86	85	85	86	85	85	86	85
VOLTAGE	120-277V			120-277V			120-277V		

SWISH2X2	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	39W			29W			19W		
INPUT WATTS	39.5W	37.6W	39.3W	30.1W	28.9W	29.9W	18.4W	17.8W	18.3W
LUMENS	4,609	4,983	4,751	3,669	3,913	3,801	2,388	2,498	2,470
LM/W	116.6	132.5	120.9	122.1	135.7	127	130.1	140.2	135
CRI	85	86	84	85	86	84	85	86	85
VOLTAGE	120-277V			120-277V			120-277V		

SWISH2X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	49W			39W			26W		
INPUT WATTS	50.9W	48.4W	50.6W	40.9W	39.1W	40.7W	26.6W	25.7W	26.5W
LUMENS	6,026	6,496	6,239	5,076	5,420	5,266	3,532	3,711	3,635
LM/W	118.5	134.2	123.3	124.3	138.6	129.5	133	144.6	138.2
CRI	85	86	85	85	86	85	85	86	85
VOLTAGE	120-277V			120-277V			120-277V		

ACCESSORIES *(to be ordered separately)*

Image	SKU#	UPC	Description
	MVSREM	019813490991	REMOTE FOR MICROWAVE SENSOR FOR TROFFER
	RMK PANEL 1X4	019813104997	LPANEL 1X4 RECESSED MOUNTING KIT WHITE
	RMK PANEL 2X2	019813104966	LPANEL 2X2 RECESSED MOUNTING KIT WHITE
	RMK PANEL 2X4	019813104980	LPANEL 2X4 RECESSED MOUNTING KIT WHITE

SWISH[®]MAX Field-Adjustable Troffer



ORDERING MATRIX

SWISH MAX

Family	Length/Wattages	Color Temperature		Finish		Voltage		Options	
SWISH									
1X4	1'X4' (29/25/19W)	Blank	3500/4000/5000K	Blank	White	Blank	120-277V, 0-10V Dimming	Blank	No Option
2X2	2'X2' (39/29/19W)							/E	Battery Backup
2X4	2'X4' (49/39/26W)							/LC	Lightcloud [®] Controller
								/LCB	Lightcloud [®] Blue enabled
								/LCBS	Lightcloud [®] Blue enabled w/PIR Sensor
								/MVS	Microwave Occupancy Sensor
								/LC/E	Lightcloud [®] Controller w/ Battery Backup
								/LCB/E	Lightcloud [®] Blue w/ Battery Backup
								/LCBS/E	Lightcloud [®] Blue PIR Sensor w/ Battery Backup
								/MVS/E	Microwave Occupancy Sensor w/ Battery Backup
								/LCBS/MVS	Lightcloud Blue enabled w/Occupancy Sensor
								/LCBS/MVS/E	Lightcloud Blue enabled Microwave Occupancy Sensor w/ Battery Backup