

C-SWISH® Field-Adjustable Troffer



C-SWISH2X2



C-SWISH1X4



C-SWISH2X4



C-SWISH Field-Adjustable Troffer



TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for dry and damp locations

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.

PRODUCT ID: C-SWISH1X4 : S-W5P3TN
C-SWISH2X4 : S-SLH8X6

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: C-SWISH2X2 : S-TS7VFW

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.

PROJECT:

DATE:

TYPE:

PREPARED BY:



- Available in 3 sizes with selectable wattages
C-SWISH2X2: 30/25/20W - Factory default: 30W
C-SWISH1X4: 30/25/20W - Factory default: 30W
C-SWISH2X4: 36/30/20 - Factory default: 36W
- 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 **smart controls**. Multi-sensor **remote** sold separately.
- Battery backup available
- 5-year, no compromise warranty

CONSTRUCTION

Cold Weather Starting

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

Cold Weather Starting for Emergency Battery

Minimum starting temperature is 5°C (41°F)

Maximum Ambient Temperature

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

Maximum Ambient Temperature for Emergency Battery

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

Mounting

Recessed ceiling

Lens

Polycarbonate lens

Housing / Finish

Polypropylene (PP)

Green Technology

Mercury and UV free. RoHS-compliant components

Reflector:

Integral reflector (on the sides) with high reflectance finish, optimized for uniform distribution.

IC Rated

Suitable for direct contact with insulation

Finish

Formulated for high durability and long lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

TECHNICAL SPECIFICATIONS

ELECTRICAL

Drivers:

Class 2, Constant Current, 120-277V, 50/60Hz

20W: 120V: 0.17A, 208V: 0.10A, 240V: 0.08A, 277V: 0.07A

25W: 120V: 0.21A, 208V: 0.12A, 240V: 0.10A, 277V: 0.09A

30W: 120V: 0.25A, 208V: 0.14A, 240V: 0.13A, 277V: 0.11A

36W: 120V: 0.30A, 208V: 0.17A, 240V: 0.15A, 277V: 0.13A

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:

L-N: 1KV

L/N-PE: 2KV

THD:

C-SWISH2X2: 7.14% at 120V, 13.09% at 277V

C-SWISH1X4: 7.05% at 120V, 14.02% at 277V

C-SWISH2X4: 6.86% at 120V, 12.76% at 277V

Power Factor:

C-SWISH2X2: 99.7% at 120V, 95.2% at 277V

C-SWISH1X4: 99.7% at 120V, 98% at 277V

C-SWISH2X4: 99.7% at 120V, 97.2% 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:

C-SWISH2X2:

39W: 22.0%

29W: 18.0%

19W: 14.7%

C-SWISH1X4:

29W: 21.2%

25W: 17.3%

19W: 14.0%

C-SWISH2X4:

49W: 19.6%

39W: 11.0%

26W: 10.6%

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

LIGHTCLOUD

Lightcloud Controller Installed:

- Integrated/embedded networked lighting control
- Fixture, Zone, and plug-load control from one powerful device
- Mesh network communication protocols
- Offers the capability to set the maximum light output to a less-than-maximum state of an individual luminaire at the time of installation or commissioning. The High-End Trim functionality is field reconfigurable via the Lightcloud mesh network communication protocols.
- The Lightcloud Controller can be attached to the fixture, junction box, or electrical panel
- DLC system - N1XMLOEATBA
- Communication Protocol: Zigbee
- Line of Sight: 1,000 feet
- Obstructions: 100 feet
- Normal building materials: 100 feet

LIGHTCLOUD (CONTINUED)

Lightcloud Blue Installed

- Integrated/embedded networked lighting control
- Luminaire-level lighting control (LLLC) - Capable of switching, 0-10V dimming, power/energy monitoring
- LLLC - Can also be used to extend the range of Lightcloud Blue network
- Fixture, Zone, and plug-load control from one powerful device
- Utilizes a "BLE Mesh" network communication protocol.
- Offers the capability to set the maximum light output to a less-than-maximum state of an individual luminaire at the time of installation or commissioning. The High-End Trim functionality is field reconfigurable via the Lightcloud "BLE Mesh" network communication protocols.
- The Lightcloud Blue Controller is designed to be attached to the fixture directly.
- DLC system - N1XMLOEATBA
- Gateway Required: No
- Communication Protocol: Bluetooth Mesh
- Range: Up to 60 feet between standard building materials. Up to 200 feet clear line of sight.
- Spacing Criteria: Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network.

MICROWAVE OCCUPANCY SENSOR W/DAYLIGHT SENSING, MULTI-FUNCTION SENSOR (OPTIONAL)

Capacity Load: 400VA at 120VAC, 800VA at 230VAC, 1000VA at 277VAC

Operating Temperature: -20°C to +60°C (-4°F to +140°F)

Relay: Zero-cross relay

Maximum Mounting Height: 16.4 feet

Customizable Detection Area: 10, 50, 75 or 100%

Time Delay: 5s, 30s, 1min, 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 25 fc for disabled

Sensor Principle: High Frequency

Microwave Frequency: 5.8GHz +/- 75MHz

Microwave Power: <0.2mW

Max Detection Range: 26 ft. diameter at 16 ft. mounting height

Detection Angle: About 30 to 150 degree

Default Setting:

Uncommissioned State:

- Brightness: 100%
- Hold Time: 20 Minutes
- Daylight: Disabled
- Motion Sensitivity: High
- Stand-by dimming level: 20%
- Stand-by time: 1 Minute

Commissioned State: Disabled,

After Turn on the Occupancy Mode

- Brightness: Last on Brightness
- Hold Time: 20 Minutes
- Daylight: Disabled
- Motion Sensitivity: High
- Stand-by dimming level: 20%
- Stand-by time: 0 Minute

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

C-SWISH[®] Field-Adjustable Troffer



TECHNICAL SPECIFICATIONS

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.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

PERFORMANCE

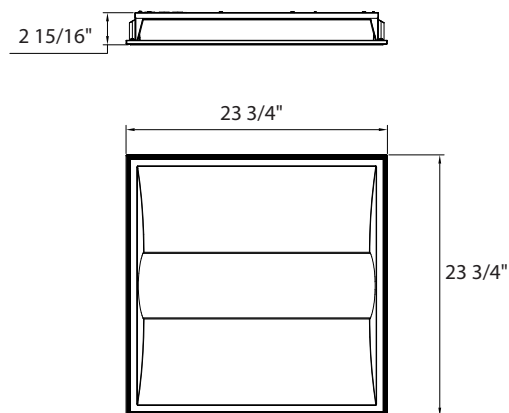
Lifespan

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

DIMENSIONS

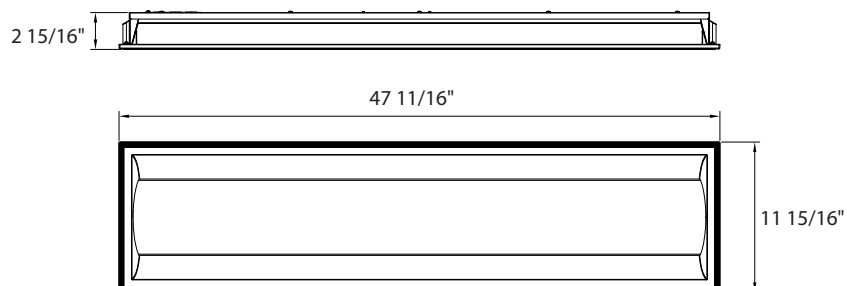
C-SWISH2X2

Weight: 7.04 lbs



C-SWISH1X4

Weight: 8.1 lbs



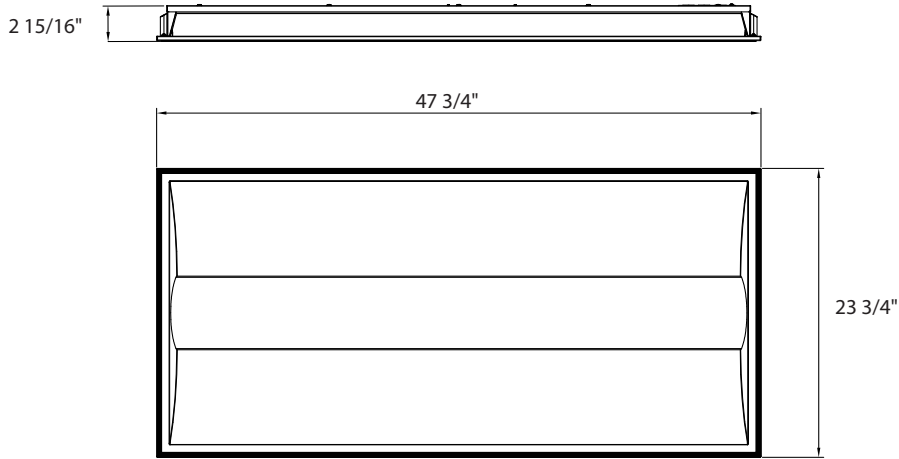
C-SWISH® Field-Adjustable Troffer



DIMENSIONS (CONTINUED)

C-SWISH2X4

Weight: 11.3 lbs



PERFORMANCE

5000K

C-SWISH2X2	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	30W			25W			20W		
INPUT WATTS	30.0W	29.2W	30.0W	24.9W	24.4W	24.9W	20.1W	19.7W	20.1W
LUMENS	3,936	4,028	4,010	3,280	3,347	3,343	2,661	2,704	2,714
LM/W	131.2	137.9	133.7	131.7	137.2	134.3	132.4	137.3	135.0
CRI	84	85	84	84	85	84	84	85	84
VOLTAGE	120-277V			120-277V			120-277V		





C-SWISH1X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	30W			25W			20W		
INPUT WATTS	29.2W	28.6W	29.3W	24.3W	23.9W	24.4W	19.6W	19.3W	19.7W
LUMENS	3,821	3,955	3,886	3,200	3,300	3,259	2,606	2,671	2,659
LM/W	130.9	138.3	132.6	131.7	138.1	133.6	133.0	138.4	135.0
CRI	83	85	83	83	85	84	83	85	84
VOLTAGE	120-277V			120-277V			120-277V		

C-SWISH2X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	36W			30W			20W		
INPUT WATTS	35.3W	34.3W	35.4W	29.7W	29.0W	29.8W	20.4W	19.7W	20.1W
LUMENS	4,711	4,884	4,829	4,048	4,170	4,153	2,830	2,810	2,828
LM/W	133.5	142.4	136.4	136.	14.8	139.4	138.7	142.6	140.7
CRI	85	86	85	85	85	84	85	85	84
VOLTAGE	120-277V			120-277V			120-277V		

C-SWISH® Field-Adjustable Troffer



ACCESSORIES (to be ordered separately)

Image	SKU#	UPC	Description
	MSR1	192552026055	MULTI SENSOR REMOTE
	SMKPANEL1X4	019813295824	LPANEL 1X4 SURFACE MOUNTING KIT WHITE
	SMKPANEL2X2	019813104973	LPANEL 2X2 SURFACE MOUNTING KIT WHITE
	SMKPANEL2X4	019813295831	LPANEL 2X4 SURFACE MOUNTING KIT WHITE

ORDERING MATRIX

C-SWISH FA

Family	Length/Wattages	Color Temperature	Finish	Voltage	Options	
C-SWISH						
2X2	2'X2' (30/25/20W)	Blank	3500/4000/5000K CCT Adjustable	Blank White	Blank 120-277V, 0-10V Dimming	Blank /E /LC /LC/E /MVS /MVS/E /LCBS/MVS /LCBS/MVS/E
1X4	1'X4' (30/25/20W)					No Option Battery Backup Lightcloud® Controller Lightcloud® Controller w/ Battery Backup Microwave Occupancy Sensor Microwave Occupancy Sensor w/ Battery Backup Lightcloud Blue enabled w/Occupancy Sensor Lightcloud Blue enabled Microwave Occupancy Sensor w/ Battery Backup
2X4	2'X4' (36/30/20W)					