

# FLEX Series

FLX14™, FLX22™, and FLX24™ Specification LED Troffers

Rev. Date: V12 10/22/2024

## Product Description

The FLEX Series LED troffer delivers up to 10,000 lumens with enhanced color quality and three different lens designs to fit the aesthetics of any space. The FLEX Series boasts a variety of inner optic accessories which provides greater design flexibility, making it perfect for both new construction and renovation. The slim and lightweight FLEX Series LED troffer boasts an efficacy of up to 159 LPW performance along with a wide variety of control options to meet local energy codes. The FLEX Series broad optionality of lumen packages, control packages, tunable white options, and factory installed accessories make this family highly specifiable.

## Performance Summary

Utilizes Cree TrueWhite® Technology (90 CRI)

**Efficacy:** Up to 159 LPW

**Initial Delivered Lumens:** 2,600 - 10,000 lumens

**Input Power:** 18 - 82 watts

**CRI:** 80+, 90+

**CCT:** 3000K, 3500K, 4000K, 5000K, Tunable White (SmartCast® Technology and Lutron Athena)

**Input Voltage:** 120-277 VAC or 347 VAC

**Limited Warranty\*:** 10 years for luminaire and SmartCast controls; 5 years for Lutron Athena controls; up to 5 years for SmartCast® accessories; 1 year for luminaire accessories

**Limited Warranty Emergency Back Up (EB) Battery:** 1 Year on Battery Back Up. Test regularly in accordance with local codes

**Controls:** 0-10V, SmartCast/SmartCast Wireless with Adjustable CCT option, DALI, Lutron Athena/Lutron Athena Tunable White

**Mounting:** Recessed [Designed for use in most ceiling grids including standard 1 1/2", 9/16", 15/16", hard ceiling, and surface mounting]

Room-side accessible removable lens

Assembled in the USA by Cree Lighting from US and imported parts

\* See <https://www.creelighting.com/resources/warranties/> for warranty terms. For SmartCast accessories, consult SmartCast spec sheets for details on warranty terms.

## Ordering Information

Example: FLX24-40L-835-ARC-10V1

FLX							
Family	Size	Lumen Package	CRI/CCT	Lens*	Controls	Voltage	Options**
FLX	14 1x4	30L 3,000 Lumens	830 80 CRI, 3000K	CRV ZR Curve ARC FLX Arc SQ Square	<b>10V10</b> 0-10V 10% Dimming - Available only with 26L-60L lumen packages <b>10V1</b> 0-10V 1% Dimming <b>SC1</b> SmartCast Wireless Technology with 1% Dimming, Integral Motion and Ambient Sensors - For adjustable CCT functionality, luminaire must be ordered with 9ACK CRI/CCT (26L-60L lumen packages only) - Utilizes a multifunction sensor <b>DALI</b> DALI Dimming to 1% <b>AWNRS*</b> Lutron Athena Wireless Integral Fixture Control (RF only) with 1% Dimming - Tunable white requires 9ACK CRI/CCT (26L-60L lumen packages only) - Utilizes a DALI2 driver <b>AWNS*</b> Lutron Athena Wireless Integral Fixture Control with 1% Dimming, Occupancy and Daylight Sensing - Tunable white requires 9ACK CRI/CCT (26L-60L lumen packages only) - Utilizes a DALI2 driver - Utilizes a multifunction sensor	<b>UNV</b> Universal voltage 120-277 Volt <b>34</b> 347 Volt - Not available with 10V10 controls	<b>CP Chicago Plenum</b> - Available with UNV voltage only - Available with all controls except AWRN - Not available with EB or GT options <b>EB Emergency Backup</b> - Available with UNV voltage only - Provides 10W and 90 minutes of emergency operation - Not available with CP or GT options <b>GT Generator Transfer Device</b> - Available with UNV voltage only - Not available with CP or EB options
		40L 4,000 Lumens	835 80 CRI, 3500K				
		50L 5,000 Lumens	840 80 CRI, 4000K				
	22 2x2	60L 6,000 Lumens	850 80 CRI, 5000K				
		26L 2,600 Lumens	930 90 CRI, 3000K				
		30L 3,000 Lumens	935 90 CRI, 3500K				
	24 2x4	40L 4,000 Lumens	940 90 CRI, 4000K				
		50L 5,000 Lumens	950 90 CRI, 5000K				
		70L 7,000 Lumens	9ACK 90 CRI, Adjustable Color 3000K-6500K in 100K increments - Available only with 26L-60L lumen packages (SC1 or AWRN/AWNS controls) - Available only with SC1 or AWRN/AWNS controls				

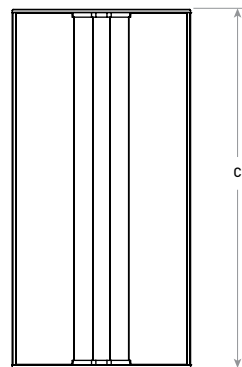
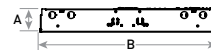
\* More information on Lutron controls can be found at [lutron.com](https://lutron.com).

\* Refer to page 5 for lens images.

\*\* Consult factory for other options.

10V10, 10V1, DALI, AND AWRN CONTROLS

Shown w/ARC Lens



10V10, 10V1, DALI & AWRN Dimensions						
	DIM "A"	DIM "A" w/EB	DIM "B"	DIM "C"	Weight	Weight w/EB
1x4	4.0" (101mm)	4.0" (101mm)	11.7" (298mm)	47.7" (1213mm)	11.0 lbs. (5.0kg)	16.0 lbs. (7.3kg)
2x2	4.0" (101mm)	3.3" (84mm)	23.7" (603mm)	23.8" (604mm)	9.0 lbs. (4.1kg)	14.0 lbs. (6.4kg)
2x4	4.0" (101mm)	3.3" (84mm)	23.7" (603mm)	47.7" (1213mm)	15.0 lbs. (6.8kg)	20.0 lbs. (9.1kg)

Refer to page 5 for lens assembly images and dimensions as well as dimensional information for SmartCast and Lutron AWRN controls.



SMARTCAST  
TECHNOLOGY

Athena



Cree TrueWhite®  
Technology

CREE LIGHTING®

Website: [creelighting.com](https://creelighting.com)

US: (800) 236-6800 Canada: (800) 473-1234

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

SMARTCAST® TECHNOLOGY

SmartCast® Technology is the most intuitive and easiest to install intelligent light solution on the market. SmartCast® Technology delivers up to 70% energy savings at up to half the cost of other solutions. Luminaires combine best-in-class light with onboard sensors and intelligence to deliver a better light experience. Extreme energy productivity, code compliance and a better light experience without any extra design, installation or setup work.

CONSTRUCTION & MATERIALS

- Durable 22 ga. cold rolled steel housing provides strength and uniformity
- Ultra-thin luminaire height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations
- Luminaire is pre-painted for enhanced matte finish
- Includes integrated hooks for mounting to t-bar, and cable slots for suspended mounting
- Luminaire sides and ends are hemmed in for safe, easy handling
- Room-side accessible/removable lens snaps and locks into end caps for tool-less entry
- Not for installation within 3" [76mm] of insulation
- Weight:** Refer to tables on pages 1 and 5.
- Includes QR code on the back of the troffer housing which provides access to: Online installation instructions, Luminaire information (Part number, Serial number, Build date, and Warranty end date), and Warranty claim submission form
- Duplicate 1" and 2" QR code labels are included. 1" labels can be affixed next to fixtures, on site plans, or in maintenance records. 2" labels can be scanned from the ground when placed at an appropriate height

OPTICAL SYSTEM

- Unique luminaire design creates perfect balance of both horizontal and vertical illumination
- Optimized smooth acrylic lens eliminates pixelation and delivers a low-glare, diffused light distribution
- Additional diffuser options available. Refer to Inner Optic Overlay Diffuser Accessories table on page 5 for additional details


ELECTRICAL SYSTEM

- Power Factor:** >90% at full load
- Input Power:** Stays constant over life
- Input Voltage:** 120-277V, 50/60Hz or 347V, 50/60Hz. 347V w/ 9ACK-SC1, and DALI are 60Hz only
- Operating Temperature Range:** 0°C - + 35°C (32°F - + 95°F)
- Total Harmonic Distortion:** < 20% at full load

10V DIMMING AND CONTROL

- 10V10 option provides continuous dimming to 10% and 10V1 option provides continuous dimming to 1% with 0-10V DC control protocol
- Maximum 10V Source Current:** 0.45mA
- For use with Class 2 dimming systems only
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Reference <https://cree.widen.net/s/2b8dlcswvg/cr-flex-zr-cs-ln-ls-ur-stylus-series-control-options-dimming-specsheet> for recommended dimming controls and wiring diagrams

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for damp locations
- Designed for indoor use only
- Requires minimum 90°C supply conductors
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Meets NEMA C82.77 standards
- UL924 (EB Option) Maximum mounting height: 15.0'(4.6m)
- EB option meets CA Title 20 Appliance Regulations
- CCEA approved when ordered with CP option. Not available with EB option
- RoHS compliant. Consult factory for additional details
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- DLC and DLC Premium qualified versions available. Please refer to <https://gpl.designlights.org/solid-state-lighting> for most current information
- Assembled in the USA by Cree Lighting from US and imported parts
- Some configurations meet requirements of BAA and/or BABA. Consult factory when needed for a project: [www.creelighting.com/BAA-BABA](http://www.creelighting.com/BAA-BABA)
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

SmartCast® Technology

INTEGRAL MOTION SENSOR

- Passive infrared (PIR)
- Coverage area:** Please refer to the PIR motion sensor coverage table
- Not intended to be mounted higher than 20 ft.
- Operation:**
  - Grouped with a wall control: Luminaire will operate in vacancy mode (manual-on/auto-off)
  - Not grouped with a wall control: Luminaire will operate in occupancy mode (auto-on/auto-off)
- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree Lighting Configuration Tool

AMBIENT LIGHT SENSOR

- Sensor response matches response of human eye
- Not intended to be mounted higher than 20 ft. [6.1m]
- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree Lighting Configuration Tool
- Daylight harvesting calibration performed automatically during OneButton™ Setup

INTEGRAL WIRELESS COMMUNICATION

- 2.4GHz wireless mesh technology with AES 128-bit encryption
- Self assigns to quietest channel during OneButton™ Setup
- Range:**
  - 30 ft. [9.1m] in typical commercial applications
  - 300 ft. [91.4m] open air without obstructions
- Network:** 250 devices max.
- Space:** 100 devices max. per group
- FCC and IC certifications

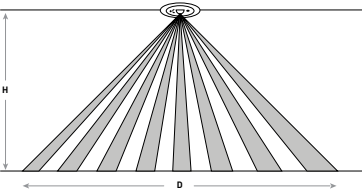
LUMINAIRE

- Energy metering with 4% accuracy
- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree Lighting Configuration Tool
- 10 year power fail memory of settings
- NOTE:** SmartCast luminaires must be installed on unswitched AC power. Constant power is required to maintain all luminaires on the SmartCast network. If wall control or manual dimming is required, a SmartCast wall control dimmer must be used for manual on, off, and dimming.

DEPLOYMENT

- Please refer to the SmartCast® Deployment Guide at <https://cree.widen.net/s/mvxtfd2pcz/smartcast-wireless-deployment-guide>

PIR Motion Sensor Coverage



Mounting Height - H (Feet)	Motion Sensor Coverage Diameter - D (Feet)		
	Sensitivity - High (Default)	Sensitivity - Medium	Sensitivity - Low
10	20	10	8
12	26	14	12
14	28	15	13
20	38	Not Recommended	Not Recommended

FLEX Series Ambient Adjusted Lumen Maintenance¹						
Ambient	CRI	Initial LMF	25K hr Reported² LMF	50K hr Reported² LMF	75K hr Estimated³ LMF	100K hr Estimated³ LMF
0°C (32°F)	80	1.04	1.00	0.90³	0.81	0.73
	90	1.04	0.99	0.95³	0.91	0.87
5°C (41°F)	80	1.04	1.00	0.90³	0.81	0.73
	90	1.04	0.99	0.95³	0.91	0.87
10°C (50°F)	80	1.03	0.99	0.89³	0.80	0.72
	90	1.03	0.98	0.94²	0.90	0.86
15°C (59°F)	80	1.02	0.98	0.88³	0.79	0.72
	90	1.02	0.97	0.93²	0.89	0.85
20°C (68°F)	80	1.01	0.97	0.87³	0.79	0.71
	90	1.01	0.96	0.92²	0.88	0.85
25°C (77°F)	80	1.00	0.96	0.86³	0.78	0.70
	90	1.00	0.95	0.91²	0.87	0.84
30°C (86°F)	80	0.99	0.95	0.85³	0.77	0.69
	90	0.99	0.93	0.89²	0.85	0.81
35°C (95°F)	80	0.98	0.94	0.85³	0.76	0.69
	90	0.98	0.91	0.86²	0.82	0.77

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Delivered Lumens & Electrical Data*																	
Size	Lumen Package	CRI	Control	Initial Delivered Lumens	Wattage		Current (A)						EB/GT Wattage	EB/GT Current (A)			
					120-277V	347V**	120V	208V	240V	277V	347V**	120-277V		120V	208V	240V	277V
2x2	26L	80	10V10, 10V1, SC1, DALI, AWRN, AWNS	2,600	18	18	0.17	0.10	0.08	0.07	0.05	21	0.19	0.11	0.09	0.08	
		90/9ACK	10V10, 10V1, SC1, DALI, AWRN, AWNS		21	24	0.19	0.11	0.10	0.09	0.07	24	0.22	0.13	0.11	0.10	
1x4, 2x2, 2x4	30L	80	10V10, 10V1, SC1, DALI, AWRN, AWNS	3,000	21	21	0.19	0.11	0.09	0.08	0.06	24	0.22	0.12	0.11	0.09	
		90/9ACK	10V10, 10V1, SC1, DALI, AWRN, AWNS		26	28	0.23	0.13	0.12	0.10	0.09	29	0.26	0.15	0.13	0.11	
1x4, 2x2, 2x4	40L	80	10V10, 10V1, SC1, DALI, AWRN, AWNS	4,000	27	29	0.24	0.14	0.12	0.10	0.09	30	0.27	0.15	0.13	0.11	
		90/9ACK	10V10, 10V1, SC1, DALI, AWRN, AWNS		33	36	0.31	0.18	0.16	0.14	0.12	36	0.34	0.19	0.17	0.15	
1x4, 2x2, 2x4	50L	80	10V10	5,000	35	N/A	0.31	0.18	0.15	0.13	N/A	38	0.34	0.19	0.17	0.14	
		90/9ACK	10V10, 10V1, SC1, DALI, AWRN, AWNS		41	44	0.35	0.20	0.17	0.15	0.13	44	0.37	0.21	0.18	0.16	
1x4, 2x4		80	10V1, SC1, AWRN, AWNS		35	35	0.31	0.18	0.15	0.13	0.12	38	0.34	0.19	0.17	0.14	
2x2		80	10V1, SC1, AWRN, AWNS		40	40	0.32	0.17	0.15	0.13	0.11	43	0.36	0.21	0.18	0.16	
1x4, 2x4	60L	80	10V10, 10V1, SC1, DALI, AWRN, AWNS	6,000	39	41	0.32	0.18	0.15	0.13	0.11	42	0.35	0.20	0.18	0.15	
		90/9ACK	10V10, 10V1, SC1, DALI, AWRN, AWNS		49	53	0.43	0.24	0.20	0.18	0.16	52	0.43	0.25	0.24	0.19	
2x4	70L	80	10V1, SC1, DALI, AWRN, AWNS	7,000	47	49	0.41	0.24	0.20	0.17	0.15	50	0.44	0.25	0.21	0.19	
		90	10V1, SC1, DALI, AWRN, AWNS		56	59	0.49	0.28	0.24	0.21	0.18	59	0.51	0.30	0.25	0.22	
2x4	80L	80	10V1, SC1, DALI, AWRN, AWNS	8,000	54	57	0.47	0.27	0.23	0.20	0.18	57	0.49	0.29	0.25	0.21	
		90	10V1, SC1, DALI, AWRN, AWNS		65	69	0.57	0.33	0.28	0.24	0.21	68	0.60	0.34	0.29	0.25	
2x4	100L	80	10V1, SC1, DALI, AWRN, AWNS	10,000	67	70	0.58	0.34	0.29	0.25	0.22	69	0.61	0.35	0.30	0.26	
		90	10V1, SC1, DALI, AWRN, AWNS		78	82	0.68	0.39	0.34	0.29	0.25	81	0.70	0.41	0.35	0.30	

\* Electrical data at 25°C (77°F). Actual wattage and lumens may differ by +/- 10% when operating between 120-277V or 347V +/- 10%.

\*\* Not available with 10V10 controls.

Delivered Emergency Lumens			
Size	Lumen Package	CRI	Approximate Delivered Emergency Lumens
2x2	26L	80	1,440
		90/ACK	1,240
1x4, 2x2, 2x4	30L	80	1,430
		90/ACK	1,150
1x4, 2x2, 2x4	40L	80	1,480
		90/ACK	1,210
1x4, 2x2, 2x4	50L	80	1,430
		90/ACK	1,220
1x4, 2x4	60L	80	1,430
		90/ACK	1,220
2x4	70L	80	1,490
		90	1,250
2x4	80L	80	1,480
		90	1,230
2x4	100L	80	1,490
		90	1,280

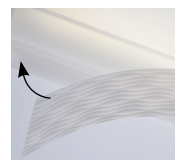
## Accessories

Field-Installed		
<b>Drywall Grid Adapter</b> <a href="#">DGA14-WHT</a> 1x4, Single Pack <a href="#">DGA14-WHT-10PK</a> 1x4, 10-Pack <a href="#">DGA22-WHT</a> 2x2, Single Pack <a href="#">DGA22-WHT-10PK</a> 2x2, 10-Pack <a href="#">DGA24-WHT</a> 2x4, Single Pack <a href="#">DGA24-WHT-10PK</a> 2x4, 10-Pack <b>Surface Mount Kit</b> <a href="#">SMK-FLX14</a> (1x4) <a href="#">SMK-FLX22</a> (2x2) <a href="#">SMK-FLX24</a> (2x4) - Not for use with AWRN control	<b>SmartCast® Technology Configuration Tool</b> <a href="#">CCT-CWC-1</a> - One required per project when SC1 control is selected <b>SmartCast® Technology Face Plates</b> <a href="#">CFP-1-WH</a> - Matching face plate, 1-gang, white <a href="#">CFP-2-WH</a> - Matching face plate, 2-gang, white <b>SmartCast® Technology Wireless Dimmer</b> <a href="#">CSC-CWD-UNVN-WH</a> (neutral wire required) <a href="#">CSC-CWD-UNV-WH</a> (no neutral required) <b>SmartCast® Technology Adjustable CCT Wireless Dimmer</b> <a href="#">CSC-CCD-UNVN-WH</a> (neutral wire required) <a href="#">CSC-CCD-UNV-WH</a> (no neutral required) - For use only with luminaires with SmartCast controls and 9ACK - 3000K-5000K adjustable CCT	<b>SmartCast® Technology Wireless Switch</b> <a href="#">CSC-CWS-UNVN-WH</a> (neutral wire required) <a href="#">CSC-CWS-UNV-WH</a> (no neutral required) <b>SmartCast® 5-Button Wireless Scene Controller</b> <a href="#">CSC-SC-A-5B-UNVN-WH</a> (w/o text) <a href="#">CSC-SC-A-5S-UNVN-WH</a> (w/scene text) <a href="#">CSC-SC-A-5C-UNVN-WH</a> (w/CCT text) - Available only with 9ACK <a href="#">CSC-SC-A-5X-UNVN-WH</a> (w/custom text) <b>SmartCast® Technology Wireless Plug Load Controller</b> <a href="#">CPLC-JB-CWC</a> <b>SmartCast® 10V Zone Controller</b> <a href="#">CSC-ZC-10V-CWC</a> - Intelligent sensing and control of 0-10V luminaires

## Inner Optic Overlay Diffuser Accessories (for use with ARC Lens only)

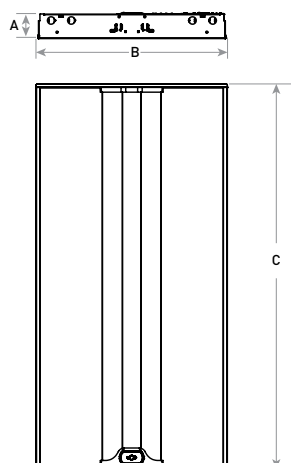
Field-Installed	
<b>For use with 10V10, 10V1, DALI, and AWRN controls</b>	
<b>Wavy Inner Optic Diffuser, 10-Pack</b>	
FLX-WVD-4 (1x4 & 2x4 luminaires)	
FLX-WVD-2 (2x2 luminaires)	
<b>Perforated Inner Optic Diffuser, 10-Pack</b>	
FLX-PFD-4 (1x4 & 2x4 luminaires)	
FLX-PFD-2 (2x2 luminaires)	
<b>Diffuse Inner Optic, 10-Pack</b>	
FLX-STD-4 (1x4 & 2x4 luminaires)	
FLX-STD-2 (2x2 luminaires)	
<b>Brushed Metal Inner Optic Diffuser, 10-Pack</b>	
FLX-BMD-4 (1x4 & 2x4 luminaires)	
FLX-BMD-2 (2x2 luminaires)	
<b>Striped Inner Optic Diffuser, 10-Pack</b>	
FLX-STRD-4 (1x4 & 2x4 luminaires)	
FLX-STRD-2 (2x2 luminaires)	
<b>Sample Inner Optic Diffuser Kit</b>	
FLX-SMPL-4 (1x4 & 2x4 luminaires)	
FLX-SMPL-2 (2x2 luminaires)	
- Includes one of each optic overlay diffuse accessory (wavy, perforated, diffuse, brushed metal and striped)	
<b>For use with SC1 and AWRN Controls</b>	
<b>Wavy Inner Optic Diffuser, 10-Pack</b>	
FLX-SCLV-WVD-4 (1x4 & 2x4 luminaires)	
FLX-SCLV-WVD-2 (2x2 luminaires)	
<b>Perforated Inner Optic Diffuser, 10-Pack</b>	
FLX-SCLV-PFD-4 (1x4 & 2x4 luminaires)	
FLX-SCLV-PFD-2 (2x2 luminaires)	
<b>Diffuse Inner Optic, 10-Pack</b>	
FLX-SCLV-STD-4 (1x4 & 2x4 luminaires)	
FLX-SCLV-STD-2 (2x2 luminaires)	
<b>Brushed Metal Inner Optic Diffuser, 10-Pack</b>	
FLX-SCLV-BMD-4 (1x4 & 2x4 luminaires)	
FLX-SCLV-BMD-2 (2x2 luminaires)	
<b>Striped Inner Optic Diffuser, 10-Pack</b>	
FLX-SCLV-STRD-4 (1x4 & 2x4 luminaires)	
FLX-SCLV-STRD-2 (2x2 luminaires)	

## Inner Optic Overlay Diffuser Accessories

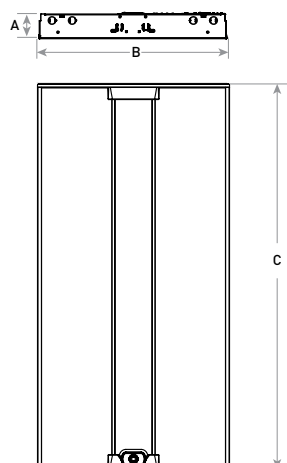


Brushed Metal
Striped
Perforated
Wavy
Diffuse

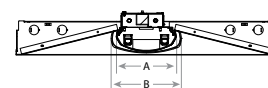
SC1 SMARTCAST® TECHNOLOGY CONTROL  
SHOWN WITH ARC LENS



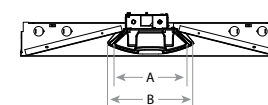
AWNS CONTROLS  
SHOWN WITH CRV LENS



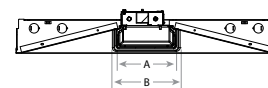
LENS ASSEMBLY



CRV



ARC



SQ

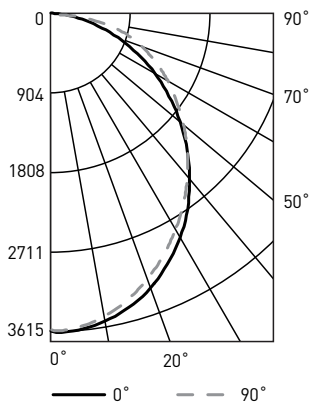
SC1 and AWRN Dimensions						
	DIM "A"	DIM "A" w/EB	DIM "B"	DIM "C"	Weight	Weight w/EB
1x4	4.0" [101mm]	4.0" [101mm]	11.7" [298mm]	47.7" [1213mm]	11.0 lbs. [5.0kg]	16.0 lbs. [7.3kg]
2x2	4.0" [101mm]	3.3" [84mm]	23.7" [603mm]	23.8" [604mm]	9.0 lbs. [4.1kg]	14.0 lbs. [6.4kg]
2x4	4.0" [101mm]	3.3" [84mm]	23.7" [603mm]	47.7" [1213mm]	15.0 lbs. [6.8kg]	20.0 lbs. [9.1kg]

Lens Assembly Dimensions		
	Lens Width DIM "A"	Endcap Width DIM "B"
CRV	7.3" [185mm]	7.9" [200mm]
ARC	5.4" [138mm]	6.2" [157mm]
SQ	5.4" [138mm]	6.2" [157mm]

## Photometry

### FLX24-100L-930-ARC-10V1-UNV BASED ON RESTL REPORT TEST #: PL16330-001A

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	108	103	99	95
2	98	90	83	77
3	90	79	71	64
4	82	70	61	54
5	76	63	54	47
6	70	56	47	41
7	65	51	42	36
8	60	47	38	32
9	56	43	35	29
10	53	40	32	27

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	4,495	4,373	4,454
55°	4,145	4,133	4,377
65°	3,739	4,003	4,497
75°	3,110	4,066	4,960
85°	2,061	4,185	5,209

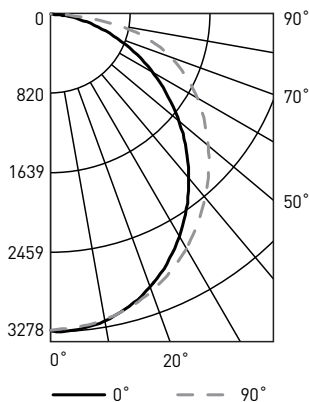
Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	2,697	N/A	28.0%
0-40	4,338	N/A	45.0%
0-60	7,468	N/A	77.5%
0-90	9,641	N/A	100%
0-180	9,641	N/A	100%

Reference <https://creelighting.com/products/indoor/troffers/flex-series> for detailed photometric data.

## Photometry

### FLX24-100L-930-CRV-10V1-UNV BASED ON RESTL REPORT TEST #: PL16304-001A

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	108	103	98	94
2	98	89	82	75
3	89	78	69	62
4	81	69	59	52
5	74	61	52	45
6	69	55	46	39
7	64	50	41	35
8	59	45	37	31
9	55	42	33	28
10	52	38	30	25

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	4,051	4,341	4,714
55°	3,738	4,292	4,892
65°	3,377	4,409	5,313
75°	2,846	4,804	6,064
85°	2,059	5,089	5,578

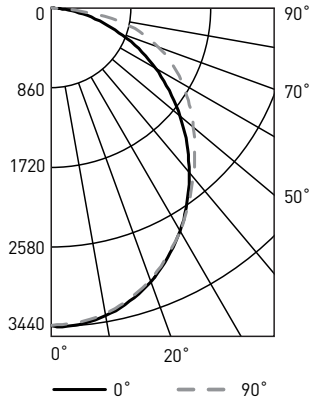
Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	2,496	N/A	25.9%
0-40	4,070	N/A	42.3%
0-60	7,216	N/A	74.9%
0-90	9,631	N/A	100%
0-180	9,631	N/A	100%

Reference <https://creelighting.com/products/indoor/troffers/flex-series> for detailed photometric data.

## Photometry

### FLX24-100L-930-SQ-10V1-UNV BASED ON RESTL REPORT TEST #: PL16329-001B

Luminaire photometry has been conducted in accordance with IES LM-79. IES LM-79 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method					
RC %:	80				
RW %:	70	50	30	10	
RCR: 0	119	119	119	119	
1	108	103	99	95	
2	98	89	82	76	
3	89	78	70	63	
4	82	69	60	53	
5	75	62	53	46	
6	69	56	47	40	
7	64	51	42	35	
8	60	46	38	32	
9	56	42	34	28	
10	52	39	31	26	

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)				
Vertical Angle	Horizontal Angle			
	0°	45°	90°	
45°	4,246	4,346	4,498	
55°	3,927	4,244	4,604	
65°	3,565	4,284	4,955	
75°	3,011	4,478	5,512	
85°	2,030	4,015	4,278	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	2,596	N/A	27.0%
0-40	4,192	N/A	43.6%
0-60	7,322	N/A	76.2%
0-90	9,610	N/A	100%
0-180	9,610	N/A	100%

Reference <https://creelighting.com/products/indoor/troffers/flux-series> for detailed photometric data.

## Application Reference

Open Space							
Spacing	Lumen Package	CRI	Initial Delivered Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	26L	80	2,600	18	144	0.27	36
		90/9ACK		21	124	0.32	
	30L	80	3,000	21	143	0.32	42
		90/9ACK		26	115	0.39	
	40L	80	4,000	27	148	0.41	56
		90/9ACK		33	121	0.50	
	50L	80	5,000	35	143	0.53	70
		90/9ACK		41	122	0.62	
	26L	80	2,600	18	144	0.23	30
		90/9ACK		21	124	0.26	
8 x 10	30L	80	3,000	21	143	0.26	35
		90/9ACK		26	115	0.33	
	40L	80	4,000	27	148	0.34	47
		90/9ACK		33	121	0.41	
	50L	80	5,000	35	143	0.44	58
		90/9ACK		41	122	0.51	
10 x 10	26L	80	2,600	18	144	0.18	24
		90/9ACK		21	124	0.21	
	30L	80	3,000	21	143	0.21	28
		90/9ACK		26	115	0.26	
	40L	80	4,000	27	148	0.27	37
		90/9ACK		33	121	0.33	
	50L	80	5,000	35	143	0.35	47
		90/9ACK		41	122	0.41	
10 x 12	26L	80	2,600	18	144	0.14	19
		90/9ACK		21	124	0.17	
	30L	80	3,000	21	143	0.17	22
		90/9ACK		26	115	0.21	
	40L	80	4,000	27	148	0.22	30
		90/9ACK		33	121	0.26	
	50L	80	5,000	35	143	0.28	37
		90/9ACK		41	122	0.33	

10' ceiling: 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial  
Open Space: 50' x 40' x 10  
Applies to ARC, CRV and SQ lenses.

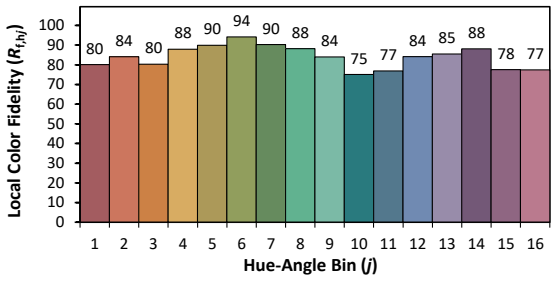
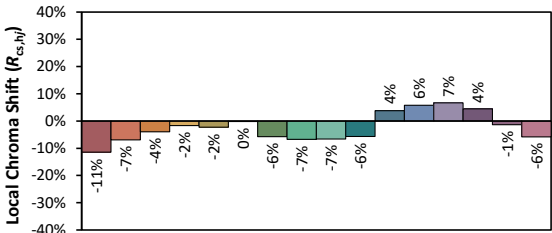
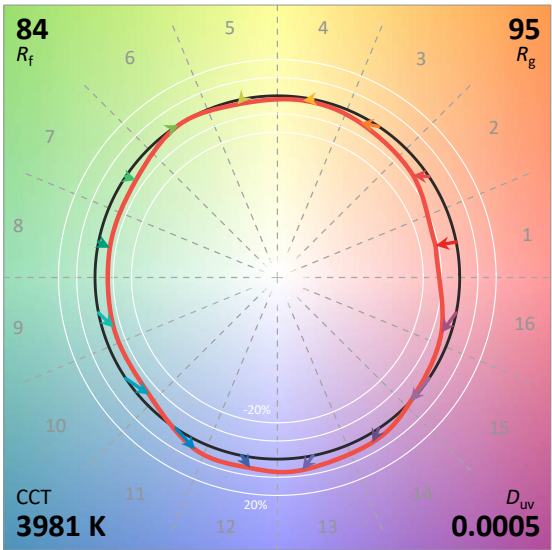
## Application Reference

Open Space							
Spacing	Lumen Package	CRI	Initial Delivered Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	60L	80	6,000	42	143	0.63	56
		90/9ACK		49	122	0.74	
	70L	80	7,000	47	149	0.71	65
		90		56	125	0.84	
	80L	80	8,000	54	148	0.81	74
		90		65	123	0.98	
	100L	80	10,000	67	149	1.01	93
		90		78	128	1.17	
8 x 10	60L	80	6,000	42	143	0.53	46
		90/9ACK		49	122	0.61	
	70L	80	7,000	47	149	0.59	54
		90		56	125	0.70	
	80L	80	8,000	54	148	0.68	61
		90		65	123	0.81	
	100L	80	10,000	67	149	0.84	77
		90		78	128	0.98	
10 x 10	60L	80	6,000	42	143	0.42	37
		90/9ACK		49	122	0.49	
	70L	80	7,000	47	149	0.47	43
		90		56	125	0.56	
	80L	80	8,000	54	148	0.54	49
		90		65	123	0.65	
	100L	80	10,000	67	149	0.67	62
		90		78	128	0.78	
10 x 12	60L	80	6,000	42	143	0.34	29
		90/9ACK		49	122	0.39	
	70L	80	7,000	47	149	0.38	34
		90		56	125	0.45	
	80L	80	8,000	54	148	0.43	39
		90		65	123	0.52	
	100L	80	10,000	67	149	0.54	49
		90		78	128	0.62	

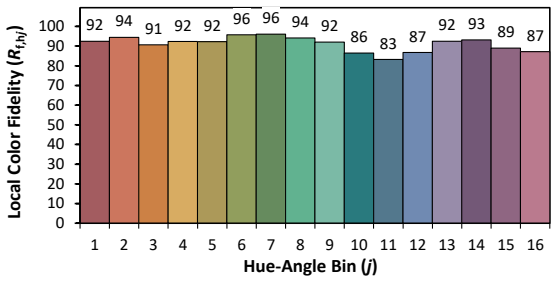
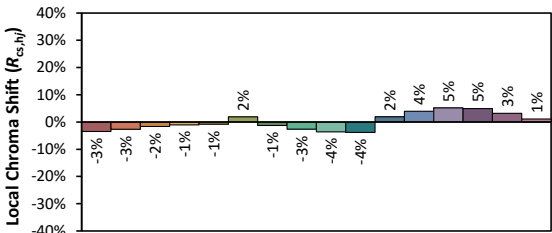
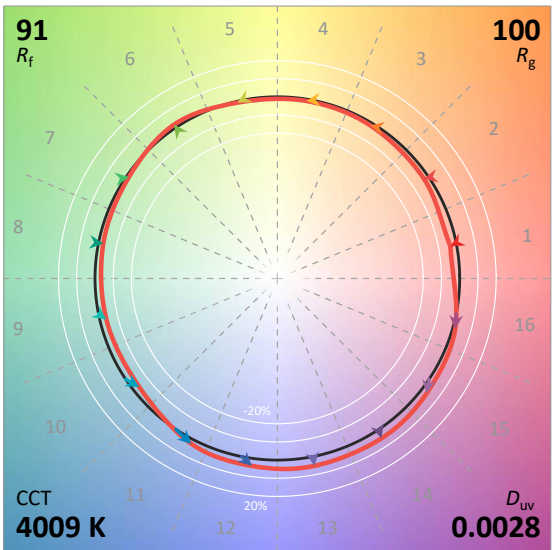
25' ceiling: 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial  
Open Space: 50' x 40' x 10  
Applies to ARC, CRV and SQ lenses.

ANSI/IES TM-30-18

4000K, 80 CRI  
Based on RESTL TEST #: PL16472-001



4000K, 90 CRI  
Based on RESTL TEST #: PL16468-001





Replacement Parts
<b>EB Replacement Kit</b> FLX-EBKIT-10 - Replaces EB driver in existing ZR/FLX luminaires - Available only with UNV voltage

Lens Replacement Kits

			RLK
Product	Lens	Controls	Replacement Lens Kit
<b>FLX14/24</b> - For use with 1x4 and 2x4 luminaires <b>FLX22</b> - For use with 2x2 luminaires	<b>CRV</b> - ZR Curve <b>ARC</b> - FLX Arc <b>SQ</b> - Square	<b>BLANK</b> - For use with 10V10, 10V1, LDE1, DALI, and AWNR controls <b>SCLV</b> - For use with SC1, VD0, VRF, and AWNS controls	<b>RLK</b> - Replacement Lens Kit

