

ZRRK Series

ZRRK™ LED Retrofit Troffer Kit

Rev. Date: V2 05/08/2020

Product Description

The ZRRK™ LED Retrofit Troffer Kit provides energy productivity and code compliance – all with installation that's so intuitive and simple. The ZRRK Series delivers from 2,000 to 8,000 lumens and 80 CRI quality light and is perfect for both retrofit and renovation. Multiple control options including 0-10V, Smartcast Technology, Lutron Vive, and Lutron Ecosystem products incorporate integrated ambient and occupancy sensing and wireless communication resulting in lower electricity bills, reduced maintenance and an improved total cost of ownership over traditional lighting control systems. The ZRRK™ LED Retrofit Troffer Kit installs into most existing fluorescent troffers, with 4 parts that snap and lock into place for quick and easy upgrading.

Performance Summary

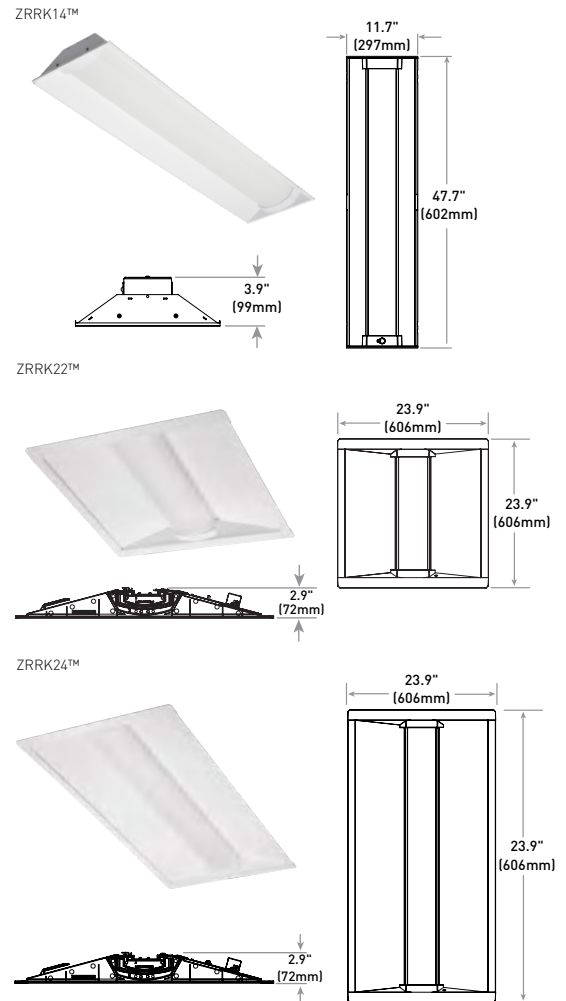
Efficacy: 130 LPW
Initial Delivered Lumens: 2,000 to 8,000
Input Power: 15W-61W
CRI: 80 CRI
CCT: 3000K, 3500K, 4000K, 5000K
Input Voltage: 120-277 VAC, 347VAC
Limited Warranty*: 5 years on retrofit kit
Limited Warranty Emergency Back Up (EB) Battery: 1 Year on Battery Back Up. Test regularly in accordance with local code
Controls: 0-10V, Smartcast Wireless DALI, Lutron Vive, Lutron Ecosystem
Mounting: Recessed

*See <http://creelighting.com/warranty> for warranty terms
Consult factory for non-standard grid applications.

Accessories

Field-Installed	
6' Flexible Power Whip PW-18/4-06-9T/SS SmartCast® Technology Configuration Tool CCT-CWC-1 - One required per project when SC5 control is selected	SmartCast® Technology Face Plates† CFP-1-WH - Matching face plate, 1-gang, white CFP-2-WH - Matching face plate, 2-gang, white CFP-3-WH - Matching face plate, 3-gang, white SmartCast® Technology Wireless Dimmer† CWD-CWC-WH SmartCast® Technology Wireless Switch† CWS-CWC-WH

† Refer to the Wireless Dimmer Smartcast Control spec sheet for more details



Ordering Information

Example: ZRRK24-60L-835-10V5-UNV

ZRRK	Series	Size	Lumens	CRI/CCT	Lens	Control	Voltage	Factory Installed Options*				
ZRRK	14	30L	3,000 Lumens	830	Blank ZR Curve	10V5 - 0-10V 5% Dimming	UNV - Universal 120-277V	EB Emergency Backup - Provides 90 minutes of emergency operation 6PW5W - Power Whip 6' 5 Wire 10PW5W - Power Whip 10' 5 Wire GTD - Generator Transfer Device				
			5,000 Lumens						3000K			
		40L	4,000 Lumens	835					80 CRI, 3500K			
			6,000 Lumens	840					80 CRI, 4000K			
		22	20L	2,000 Lumens					840	80 CRI, 4000K	L3DA - Lutron 3-Wire/Ecosystem 1% Dimming	34 - 347V
				4,000 Lumens								
	40L		4,000 Lumens	840	80 CRI, 4000K							
	24	30L	3,000 Lumens	840	80 CRI, 4000K	SC1 - Smartcast Technology with 1% Dimming, Integral motion and ambient sensors with wireless communications	UNV - Universal 120-277V					
			6,000 Lumens						850	80 CRI, 5000K		
40L		4,000 Lumens	840					80 CRI, 4000K				
24	30L	3,000 Lumens	840	80 CRI, 4000K	VDO - Lutron Vive Wireless Integral Fixture Control with Occupancy and Daylight Sensing	UNV - Universal 120-277V						
		6,000 Lumens					850	80 CRI, 5000K				
	40L	4,000 Lumens					840	80 CRI, 4000K				
24	30L	3,000 Lumens	840	80 CRI, 4000K	VRF - Lutron Vive Wireless Integral Fixture Control (RF Only)	UNV - Universal 120-277V						
		6,000 Lumens					850	80 CRI, 5000K				
	40L	4,000 Lumens					840	80 CRI, 4000K				
24	30L	3,000 Lumens	840	80 CRI, 4000K	LDE1 - Lutron HiLume 1% Ecosystem LED Driver with Soft-on, Fade to Black dimming technology	UNV - Universal 120-277V						
		6,000 Lumens					850	80 CRI, 5000K				
	40L	4,000 Lumens					840	80 CRI, 4000K				
24	30L	3,000 Lumens	840	80 CRI, 4000K	LDE5 - Lutron 5 Series 5% Ecosystem Driver	UNV - Universal 120-277V						
		6,000 Lumens					850	80 CRI, 5000K				
	40L	4,000 Lumens					840	80 CRI, 4000K				

*Consult factory for other options



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Product Specifications

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 3.9" (76mm) fixture height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations
- Luminaire is pre-painted for enhanced smooth finish
- Luminaire sides and ends are hemmed in for safe, easy handling

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

ELECTRICAL SYSTEM

- **Power Factor:** = 0.9 nominal
- **Input Power:** Stays constant over life
- **Input Voltage:** 120-277V, 347V, 60Hz
- **Operating Temperature Range:** 0°C - + 35°C (32°F - + 95°F)
- **Total Harmonic Distortion:** <20%
- **Dimming:** 1%-100% (Varies by control)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for damp locations
- Designed for indoor use
- UL924 (EB option). Maximum mounting height: 15.0' (4.6m)
- RoHS compliant. Consult factory for additional details
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions

 **CA RESIDENTS WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

SmartCast® Technology

INTEGRAL MOTION SENSOR

- Passive infrared (PIR)
- **Coverage area:** 100 sq. ft. (30.5m²) at 10 ft. (3.0m) mounting height
- Not intended to be mounted higher than 12 ft. (3.7m)
- **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 Configuration Tool

AMBIENT LIGHT SENSOR

- Sensor response matches response of human eye
- Not intended to be mounted higher than 12 ft. (3.7m)
- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree 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 certified
- IC certified

LUMINAIRE

- Luminaires operate at full intensity until OneButton™ Setup is initiated by the Cree Configuration Tool
- 10 year power fail memory of settings

DEPLOYMENT

- Please refer to the SmartCast® Deployment Guide at <https://www.creelink.com/exLink.asp?236135640H88E44139771048>

ZRRK Gen 2 Table

Form Factor	Est. Lumens	Est. Power
2x2	20L	15W
2x2, 1x4, 2x4	30L	23W
2x2, 1x4, 2x4	40L	30W
2x2, 1x4, 2x4	50L	38W
1x4, 2x4	60L	46W
2x4	80L	61W

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