

# ZR Series

LED Troffer



## Exceptional Performance at an Unexpected Price.

### **SUPERIOR**

#### Light Quality

Engineered with Cree TrueWhite® Technology, this fixture delivers 90 CRI and superior color saturation, enhancing the look of any space.

### **UNEXPECTED**

#### Price

Exceptional combination of brilliant light and enhanced aesthetics at a remarkable price, all backed by the Cree 10-year limited warranty.

### **EASY**

#### Installation

With an ultra-thin 3.9" height and lightweight design, the ZR Series troffer effectively targets a broad range of plenum spaces.

### **INSTANT**

#### Code Compliance

With continuous 0-10V dimming, the ZR Series troffer complies with CA Title 24 dimming codes as well as most nationwide energy codes.

# ZR Series LED Troffer

The ZR Series LED troffer portfolio offers 2x2, 1x4 and 2x4 options targeted for both new construction and renovation. The ZR Series troffer delivers up to 4000 lumens of 90 CRI color quality with a pleasing aesthetic look and includes 0-10V dimming, which increases energy savings and helps meet local energy codes. The ZR Series troffer embodies a breakthrough in balancing energy savings, visual comfort, and payback.

## PERFORMANCE SUMMARY

Cree TrueWhite® Technology

Assembled in the U.S. and Mexico

**EFFICACY:** 90 LPW

**DELIVERED LIGHT OUTPUT:** 3200, 4000 lumens

**INPUT POWER:** 35 to 44 watts

**CRI:** 90

**CCT:** 3500K, 4000K

**INPUT VOLTAGE:** 120-277 VAC

**LIMITED WARRANTY:** 10 years†

**LIFETIME:** Designed to last up to 75,000 hours

**CONTROLS:** 0-10V standard\*

**MOUNTING:** Recessed

Product specifications subject to change at any time.

\*Visit [www.cree.com/lighting](http://www.cree.com/lighting) for recommended dimming control options.

See [www.cree.com/lighting](http://www.cree.com/lighting) for warranty terms.†

## CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high efficacy light with superior color rendering and lifelong color consistency. Cree TrueWhite® Technology delivers a no compromise solution to enhance any space.

## CONSTRUCTION & MATERIALS

- Durable cold rolled steel housing provides strength and uniformity.
- Ultra-thin 3.9" fixture height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations.
- Fixture is pre-painted for enhanced smooth finish.
- Provided t-bar clips and holes for mounting support wires enable recessed or suspended installation.
- Fixture sides and ends are hemmed in for safe, easy handling.

## OPTICAL SYSTEM

- Unique fixture design creates perfect balance of both horizontal and vertical illumination.
- Optimized diffused lens eliminates pixelation and delivers a low-glare, smooth light distribution.

## ELECTRICAL SYSTEM

- Cree-born components including highly efficacious Cree® LED chips along with an integral highly-efficient Cree® driver.
- Power Factor = 0.9 nominal.
- Input Power: Stays constant over life.
- Input Voltage: 120-277V, 50/60Hz.
- Battery Backup: Consult factory.
- Temperature Rating: Designed to operate in temperatures 0° to 35°C and below room side and plenum side.
- Total Harmonic Distortion: <20%.

## CONTROLS

- Continuous dimming to 5% with 0-10V controls comes standard.\*

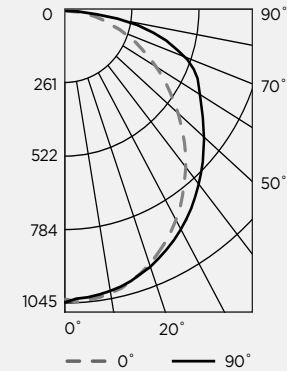
## REGULATORY & VOLUNTARY QUALIFICATIONS

- UL924 (EB14 option).
- cULus listed.
- Suitable for damp locations.
- Designed for indoor use.

## PHOTOMETRY

### ZR22™ / Based on CESTL Report Test #: 2014-0006

Fixture photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.



### Coefficients Of Utilization

RCC	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	107	102	97	93
2	97	88	81	74
3	88	77	68	61
4	80	68	58	51
5	74	60	51	44
6	68	54	45	38
7	63	49	40	33
8	59	45	36	30
9	55	41	32	27
10	51	38	30	24

Effective Floor Cavity Reflectance: 20%

### Average Luminance Table (cd/m<sup>2</sup>)

		Horizontal Angle		
		0°	45°	90°
Vertical Angle	0°	1035	1035	1035
	45°	664	710	759
	55°	504	579	657
	65°	342	451	570
	75°	186	321	408
	85°	53	104	125

### Zonal Lumen Summary

Zone	Lumens	% Lamp	Luminaire
0-30	808	N/A	24.7%
0-40	1328	N/A	40.5%
0-60	2394	N/A	73.1%
0-90	3274	N/A	100%
	3274	N/A	100%

Visit [www.cree.com/lighting](http://www.cree.com/lighting) for an explanation of calculations for these recommended ZR Series Lumen Maintenance Factors. Reference [www.cree.com/lighting](http://www.cree.com/lighting) for detailed photometric data.

