

Product Description

The ZR22™ LED troffer delivers 3200 lumens of superior 90 CRI light quality and is perfect for both new construction or renovation. Powered by Cree TrueWhite® Technology, the slim and lightweight ZR22 LED troffer boasts an efficacious 90 LPW performance along with 0-10V dimming to meet local energy codes. The ZR22 LED troffer embodies a breakthrough in balancing energy savings, visual comfort and initial cost.

Performance Summary

Utilizes Cree TrueWhite® Technology

Assembled in the US & Mexico

Efficacy: 90 LPW

Delivered Light Output: 3200 lumens

Input Power: 35 watts

CRI: 90 CRI

CCT: 3500K, 4000K

Input Voltage: 120-277 VAC

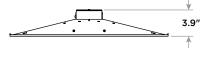
Limited Warranty: 10 years†

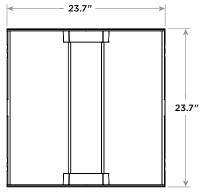
Lifetime: Designed to last up to 75,000 hours

Controls: 0-10V (Standard)*

Mounting: Recessed







Ordering Information

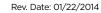
Example: ZR22-32L-35K-10V

Example. 2122 321 331 10 V						
ZR22	32L			10V		
Product	Lumen Output	Color Temp	Voltage	Control	Options	
ZR22™	32L 35W, 3200 Lumens	35K 3500 Kelvin 40K 4000 Kelvin	Blank 120-277 Volt (Standard)	10V 0-10V Dimming 5%	EB Emergency Backup**	

 $^{^{\}scriptsize +}$ See www.cree.com/lighting/products/warranty for warranty terms









^{*} Reference www.cree.com/lighting for recommended dimming controls and wiring diagrams

^{**} EB option available Q2 2014

ZR22™ LED Troffer

Product Specifications

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.

LUMEN MAINTENANCE FACTORS

· Reference www.cree.com/lighting for detailed lumen maintenance factors

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 smooth lens eliminates pixelation and delivers a low-glare, diffused light distribution

ELECTRICAL SYSTEM

- Cree born components including highly efficacious Cree® LED chips along with an integral high-efficiency 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 0-35 °C and below room side and plenum side
- Total Harmonic Distortion: <20%

CONTROLS

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

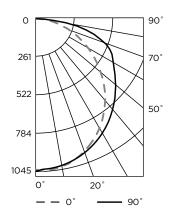
REGULATORY & VOLUNTARY QUALIFICATIONS

- UL924 (EB 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	

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m2)

	Horizontal Angle				
		0°	45°	90°	
•	٥°	1035	1035	1035	
Vertical Angle	45°	664	710	759	
cal A	55°	504	579	657	
/erti	65°	342	451	570	
	75°	186	321	408	
	85°	53	104	125	

Zonal Lumen Summary

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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%
0-180	3274	N/A	100%

Reference www.cree.com/lighting for detailed photometric data.

Application Reference

Open Space					
Spacing	Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	3200L	35W	90	0.53	45
8 x 10	3200L	35W	90	0.44	37
10 x 10	3200L	35W	90	0.35	30
10 x 12	3200L	35W	90	0.28	24

9' ceiling: 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial Open Space: 50° x 40° x 10°



^{*}Reference www.cree.com/lighting for recommended dimming controls and wiring diagrams