

## PRODUCT DESCRIPTION

The CR22™ troffer design is compact and efficient for spaces requiring high efficiency, high quality general purpose lighting. Powered by Cree TrueWhite® Technology, the CR22 troffer delivers high efficacy and world class CRI.

Ideal applications include office spaces, major retail stores, education, government, healthcare, and hospitality. Anywhere bright, beautiful, uniform light is required for general purpose lighting. Its high performance is coupled with affordability, making it the best solution for any lay-in project.

## PERFORMANCE SUMMARY

The CR22 troffer is designed to deliver an optimal amount of light with typical luminaire spacing.

**Utilizes Cree TrueWhite® Technology**

**Temperature Controlled Cooling**

**Efficacy:** 90 LPW

**Delivered Light Output:** 2000, 3200 Lumens

**Input Power:** 22, 35 Watts

**CRI:** 90

**CCT:** 3500K, 4000K

**Input voltage:** 120-277 VAC

**Warranty:** 5 Years

**Lifetime:** Designed to last minimum 50,000 hours

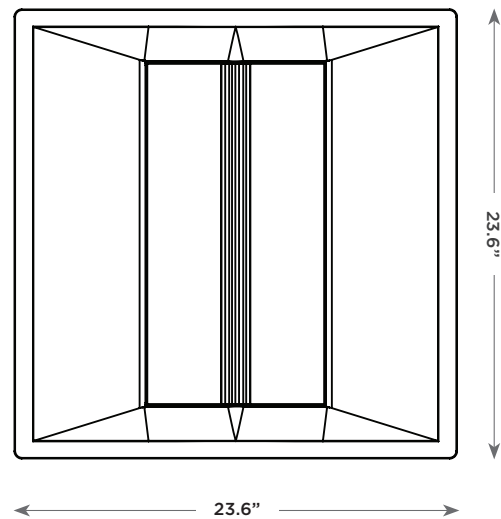
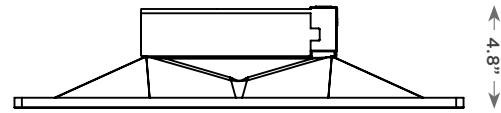
**Dimming:** Step Level to 50%, Analog 0-10V\*

**Mounting:** Recessed

**Dimensions:** L 23.6" x W 23.6" x H 4.8"

**Weight:** max 15lbs.

CR22  
2'x2' Troffer



## ORDERING INFORMATION

Examples: CR22-20L-35K-S-US

CR22				S		US
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Product Series & Size	Lumen Output	Color Temperature	Voltage	Control	Finish	Options	Source of Mfg.
CR22 2'x2'	20L 22W 2000 Lumen - 90 LPW	35K 3500 Kelvin	Blank 120 -277 Volt (Standard)	S Step Dimming to 50% A Analog 0-10V Dimming to 5%*	BLANK White Body & Anodized Aluminum Center Fin CUS Custom (Consult Factory)	CP Chicago Plenum**	US mfg. in US
	32L 35W 3200 Lumen - 90 LPW	40K 4000 Kelvin					

\*Analog Dimming Target Availability: Late 2011

\*\*CP Target Availability: Late 2011

## PRODUCT SPECIFICATIONS

### Cree TrueWhite® Technology

A revolutionary new way to generate white light with LEDs, this technology delivers high efficiency with beautiful color characteristics by mixing the light from unsaturated yellow and red LEDs. Active color management maintains superior color consistency over time and temperature. Every fixture is tuned as a complete system to the optimal color point before shipment, ensuring fixture-to-fixture color consistency.

### Temperature Controlled Cooling

An innovative thermal management system designed to maximize cooling effectiveness by integrating a unique room-side heat sink into the diffusing lens. This breakthrough design creates a pleasing architectural aesthetic while conducting heat away from the LEDs in a temperature controlled environment. This enables the LEDs to consistently run cooler, providing significant boosts to lifetime, efficacy, and color consistency.

### Optical System

Proprietary optical system utilizes a unique combination of reflective and refractive optical components to achieve a uniform, comfortable appearance. Pixelation, color fringing, and direct view of unshielded LEDs are eliminated. Lower reflector finished with a textured high reflectance white polyester powder coating creates a comfortable visual transition from the diffuser to the ceiling plane. Optimal distribution of light balances the delivery of high illuminance levels to horizontal surfaces with an ideal amount of light to vertical surfaces.

### Electrical System

Integral, high efficiency driver and power supply.

**Nominal Power Factor** = 0.9

**Dimming:** Step Dimming to 50%

**Battery Backup:** Consult factory

**Temperature Rating:** Designed to operate in temperatures 35°C and below room side and plenum side.

### Regulatory & Voluntary Qualifications

Suitable for damp locations.

### Lifetime

Designed to last minimum 50,000 hours.

### Construction & Materials

Durable 20 gauge steel housing with standard troffer access plate for electrical installation. Field replaceable light engine integrates LEDs, driver, power supply, thermal management, and optical mixing components. Optional t-bar clips and holes for mounting support wires enable recessed or suspended installation. Individual fixtures may be mounted end to end for a continuous row of illumination.

## UPGRADES & ACCESSORIES

**EJBCR:** Expanded size junction box for through wiring.

**EQCR/4:** Earthquake/Hurricane Clips

## APPLICATION REFERENCE

Open Space - Sample Applications						
Grid Spacing	Size	Performance				
		Lumens	Wattage	LPW	w/ft <sup>2</sup>	Actual fc
8x8	2x2	2000L	22W	90	0.35	28
		3200L	35W	90	0.55	44
8x10	2x2	2000L	22W	90	0.28	23
		3200L	35W	90	0.44	37
10 x 10	2x2	2000L	22W	90	0.22	20
		3200L	35W	90	0.35	31
10 x 12	2x2	2000L	22W	90	0.19	16
		3200L	35W	90	0.29	25

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

Corridor - Sample Applications					
Corridor Spacing	Size	Performance			
		Lumens	Wattage	LPW	Actual fc
8' on center	2x2	2000L	22W	90	17
		3200L	35W	90	27
10' on center	2x2	2000L	22W	90	14
		3200L	35W	90	22
12' on center	2x2	2000L	22W	90	12
		3200L	35W	90	18
14' on center	2x2	2000L	22W	90	10
		3200L	35W	90	16

10' ceiling: 80/50/20 reflectances; light levels on the ground  
LLF: 1.0 Initial  
Corridor: 6' wide x 100' long