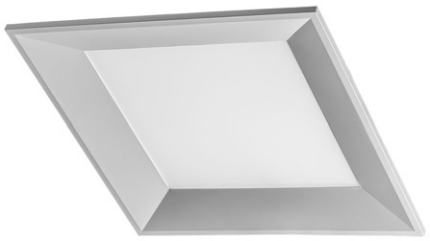
LR22

LR22™ 595 mm x 595 mm LED Troffer

Product Description

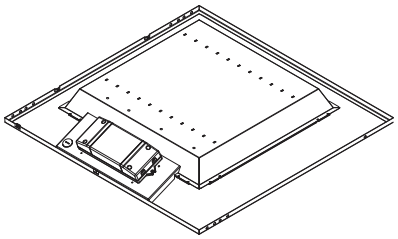
The recessed flat panel design of the LR22 LED troffer blends seamlessly into any ceiling and offers soft, smooth, fully-luminous light, creating a quiet ceiling that keeps spaces bright and vibrant. The innovatively thin <100mm depth of the LR22 LED troffer easily accommodates narrow plenums and is ideal for both retrofit and new construction. The LR22 LED troffer delivers up to 3400 lumens of exceptional 90 CRI light while achieving an efficacious 95 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. A variety of dimming and control options offer even more energy savings opportunity while providing a new level of flexibility that enables a more personal lighting experience with DALI controls.

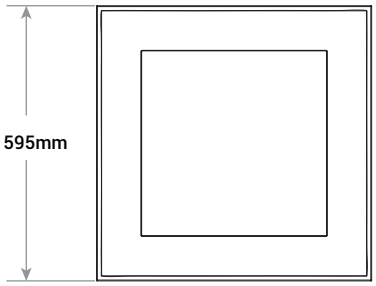
Applications: Office, shops, education, petroleum

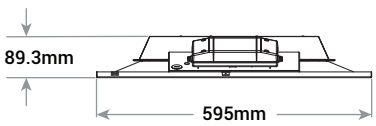


Performance Summary

- Utilizes Cree TrueWhite® Technology
- **Efficacy:** 95 LPW
- **Delivered Light Output:** 3400 lumens
- **Input Power:** 35 watts
- **CRI:** 90 CRI
- **CCT:** 3000K, 4000K
- **Input Voltage:** 220-240 VAC
- **Limited Warranty**: 10 years
- **Lifetime:** 50,000 hours L_{70} at 25˚
- **Controls:** ADIM (1-10V) Dimming to 5% or DALI dimming to 5%
- **Mounting:** Recessed







Ordering Information
Example: LR22 34L 40K-ADIM-23V

LR22	34L	40K	ADIM	23V
Product	**Lumen Output**	**Color Temp**	**Control**	**Voltage**
LR22	**34L** 35W 3400 lumens – 95 LPW	**30K*** 3000 Kelvin **40K** 4000 Kelvin	**ADIM** Dimming to 5% **DALI** Dimming to 5%	**23V** 220-240V (Standard)

* 3000K delivers 3200 lumens

CREE TRUE WHITE TECHNOLOGY

www.cree-europe.com Ph. +39 055 343081 Fax +39 055 34308200

Rev. Date: 25 February 2015

CREE®

Product Specifications

CREE TRUEWHITE® TECHNOLOGY OPTION

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.

CREE LED TECHNOLOGY

Cree's total systems approach to product development is a comprehensive engineering philosophy that combines the most advanced LED sources, driver technologies, optics and forms. The result is highly-reliable luminaire solutions for both indoor and outdoor applications that reduce energy use, extend lifetimes, and maximize illumination performance and quality.

CONSTRUCTION & MATERIALS

- Durable cold rolled steel housing provides strength and uniformity
- Ultra-thin 100mm fixture height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations
- Fixture is powder coated for a soft textured 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

- Recessed flat panel design delivers more surface area light creating a soft highly diffused light source
- Components work together to optimize distribution, balancing the delivery of high illuminance levels on horizontal surfaces with an ideal amount of light on walls and vertical surfaces

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply
- Power Factor : = 0.9 nominal
- Input Power : Stays constant over life
- Input Voltage: 220-240V, 50/60Hz
- Temperature Rating: 0-35˚C
- Total Harmonic Distortion: < 20%

CONTROLS

- Dimming: Dimmable to 5% with Analog 1-10V or DALI control protocols. Reference www.cree.com/lighting for recommended dimming controls

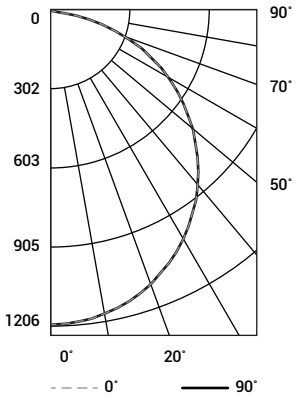
REGULATORY & VOLUNTARY QUALIFICATIONS

- CE certified
- Suitable for damp locations
- Designed for Indoor use

Photometry

LR22 34L 40K BASED ON RESTL REPORT TEST #: PL05176-001

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	0
RCR: 0	119	119	119	119
1	109	104	100	97
2	99	91	84	79
3	90	80	72	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	29
10	53	40	32	27

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)				
	Horizontal Angle			
Vertical Angle		0°	45°	90°
	45°	3,441	3,456	3,449
	55°	3,297	3,320	3,311
	65°	3,070	3,101	3,091
	75°	2,342	2,584	2,385
	85°	491	611	579

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	933	N/A	27.7%
0-40	1,527	N/A	45.3%
0-60	2,696	N/A	80.0%
0-90	3,372	N/A	100%

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

Application Reference

Open Space					
Spacing (m)	Lumens	Wattage	LPW	w/ft²	Average fc
2.4 x 2.4	3,400	35	95	0.54	48
2.4 x 3.0	3,400	35	95	0.45	40
3.0 x 3.0	3,400	35	95	0.36	32
3.0 x 3.6	3,400	35	95	0.29	26

3m ceiling: 80/50/20 reflectances; 0.75m workplane, open room. LLF: 1.0 Initial
Open Space: 15m x 12m x 3m

www.cree-europe.com Ph. +39 055 343081 Fax +39 055 34308200