

LE14 & LE12

CR Series Light Engine

Product Description

The LE14 and LE12 light engines deliver up to 5000 lumens of exceptional 90+ CRI light while achieving 90-110 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology with a unique thermal management approach. The LE14 and LE12 are available in warm or cool color temperatures and have both 1-10V and DALI dimming options. Their compact, lightweight designs easily accommodate surface mount or suspended installations, making the LE14 and LE12 perfect for use in commercial new construction or retrofit applications.

Performance Summary

Utilizes Cree TrueWhite® Technology
Active Color Management
Room-Side Heat Sink
Efficacy: 90 LPW
Delivered Light Output: 3200, 4000 lumens
Input Power: 22-50 watts
CRI: 90
CCT: 3000K, 4000K
Input Voltage: 220-240 VAC
Warranty†: 10 years
Lifetime: Designed to last 50,000 hours standard
Dimming*: 1-10V Dimming to 5%
LE14 Dimensions: L 1083mm x W 270mm x H 109mm
LE12 Dimensions: L 543mm x W 270mm x H 109mm
Weight: max 7 Kg

LE14



LE12



Ordering Information

Example: LE12-32L-40K-23

Product	Lumen Output	Color Temperature	Control	Voltage
LE12 543mm x 270mm	20L 22W 2000 lumens - 100 LPW 32L 35W 3200 lumens - 90 LPW	30K 3000 Kelvin 40K 4000 Kelvin	Blank Non-dimming ADIM 1-10V Dimming to 5% DALI ^ DALI Dimming to 5%	23 220-240 Volt (Standard)
LE14 1083mm x 270mm	22L 22W 2200 lumens - 100 LPW 40L 44W 4000 lumens - 90 LPW 40LHE** 36W 4000 lumens - 110 LPW (30K) 38W 4000 lumens - 105 LPW (40K) 50L 50W 5000 lumens - 100 LPW	30K 3000 Kelvin 40K 4000 Kelvin	Blank Non-dimming ADIM 1-10V Dimming to 5% DALI ^ DALI Dimming to 5%	23 220-240 Volt (Standard)

† See www.cree.com/lighting/products/warranty for warranty terms.
 * Reference www.cree.com/lighting for recommended dimming control options.
 ** 3000K HE model is 36W (110 LPW), 4000K HE model is 38 (105 LPW)
 ^ DALI only available in 32L or 40L Lumen Output models.



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Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology mixes the light from the highest performing red and unsaturated yellow LEDs. This patented approach 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.

ROOM-SIDE HEAT SINK

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 LEDs in a temperature-controlled environment. This enables the LEDs to consistently run cooler, providing significant boosts to lifetime, efficacy, and color consistency.

LUMEN MAINTENANCE FACTORS

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

CONSTRUCTION & MATERIALS

- Light engine integrates LEDs, driver, power supply, thermal management, and optical mixing components.
- Hanging tabs enable suspended installation.

NOTE: Reference www.cree.com/lighting for detailed instructions on field replacement of the light engine.

OPTICAL SYSTEM

- Unique combination of reflective and refractive optical components achieves a uniform, comfortable appearance while eliminating pixelation and color fringing.
- 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. This increases the perception of spaciousness.
- Diffusing lens integrated with upward-facing LED strip eliminates direct view of LEDs while lower reflector balances brightness of lens with the ceiling to create a low-glare high angle appearance.

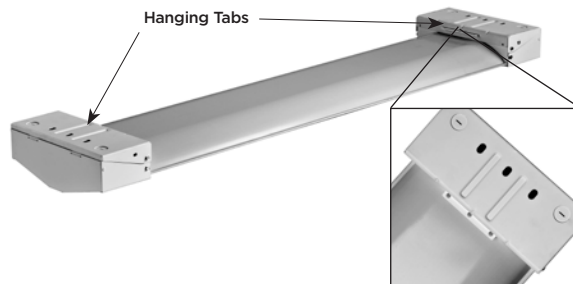
ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply.
- **Power Factor** = 0.9 nominal
- **Input Power:** Stays constant over life.
- **Input Voltage:** 220-240V, 50/60Hz
- **Dimming:** Dimmable to 5% with Analog 1-10V or DALI control protocols. Reference www.cree.com/lighting for recommended dimming controls.
- **Temperature Rating:** Designed to operate in temperatures 35 C and below room side and plenum side.
- **Total Harmonic Distortion:** < 20%

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE certified.
- CCC certified.
- IP20

Installation



NOTE: Hanging materials not included. Must be purchased separately.