CR150-2000L
150mm LED Downlight

CR150-2000L

Product Description

The CR150-2000L LED downlight delivers 2000 lumens of exceptional 90+ CRI light while achieving over 74 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. The CR150-2000L is available in a warm and cool color temperatures and has a variety of trim options. It easily installs into 150-175mm diameter ceiling openings, making the CR150-2000L perfect for use in both residential and commercial applications.

Performance Summary

Utilizes Cree TrueWhite® Technology

Active Color Management

Delivered Light Output: 2000 lumens

Input Power: 27 watts

CRI: 90

CCT: 3000K, 4000K

Input Voltage: 220-240 VAC

Warranty: 5 years†

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 5%*

Housings & Accessories
Reference Housing & Accessory documents for more details.

Trims & Reflectors
CT6A Diffuse anodized finish reflector
CT6AW Wheat diffuse anodized finish reflector
CT6AB Black diffuse anodized finish reflector
CT6BB Flat black finish trim and reflector

99mm

189.5mm

Ø 150-175mm
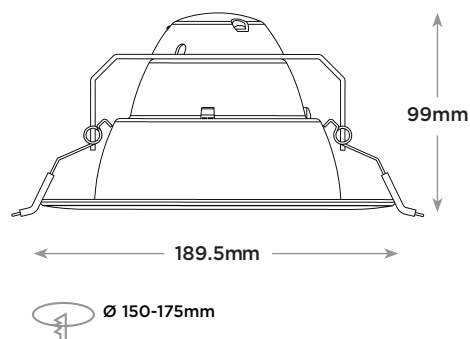
Ordering Information
Example: CR150-2000L-30K-23

CR150					
Product	**Lumen Output**	**Color Temperature**	**Voltage**	**Control**	**Options**
CR150	**2000L** 27W 2000 lumens - 74 LPW	**30K** 3000 Kelvin **40K** 4000 Kelvin	**23** 220-240 Volt	**BLANK** Triac Dimming to 5%*	**BLANK** CE/CB Certified **CP** Pending CCC Cerification

* Reference www.cree.com/lighting for recommended dimming control options.
† See www.cree.com/lighting/products/warranty for warranty terms.

NOTE: Not for U.S. shipment

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.

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum housing protects LEDs, driver and power supply. Spring clips resist heat while providing retention for flush ceiling fit.
- Engineered polycarbonate remote gear box protects driver, power supply and terminal block.
- Thermal management system uses integral heat sink to conduct heat away from LEDs and transfer it to the plenum space for optimal performance. LED junction temperatures stay below specified maximum when installed in non-insulated ceiling applications. Not for direct burial in insulation.
- One-piece aluminum lower reflector redirects light while also conducting heat away from LEDs. It creates a comfortable visual transition from the lens to the ceiling plane and easily accommodates CT6 snap-in trims.

OPTICAL SYSTEM

- Unique combination of reflective and refractive optical components achieves a uniform, comfortable appearance while eliminating pixelation and color fringing. This ensures smooth light patterns are projected with no hot spots and minimal striations.
- 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 shields direct view of LEDs while lower reflector balances brightness of lens with the ceiling to create a low-glare high angle appearance.
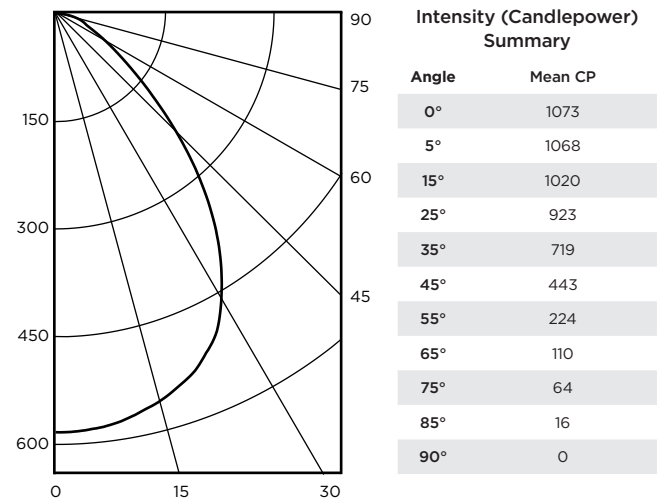
ELECTRICAL SYSTEM

- Remote high-efficiency driver and power supply.
- Power Factor > 0.9 nominal
- Input Voltage: 220-240V, 50/60Hz
- Dimming: Dimmable to 5% with recommended dimmers. Reference www.cree.com/lighting for recommended dimmers.

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE/CB Certified.
- Pending CCC Certification.

Photometry

CR150-2000L-3000K   BASED ON LTL REPORT #: 28507

Intensity (Candlepower) Summary

Angle	Mean CP
0°	1073
5°	1068
15°	1020
25°	923
35°	719
45°	443
55°	224
65°	110
75°	64
85°	16
90°	0

Zonal Lumen Summary

Zone	Lumens	% Lamp
0-30	811	41%
0-40	1257	63%
0-60	1804	90%
0-90	2000	100%

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

Installation

- Designed to easily install in 150-175mm diameter ceiling openings.
- Spring clips engage with ceiling to hold luminaire in place.
- Remote gear box contains a conduit installation plate and a sheathed wire installation plate.

NOTE: Reference www.cree.com/lighting for detailed installation instructions.