

# CR150-1000L

## 150mm LED Downlight

### Product Description

The CR150-1000L LED downlight delivers up to 1000 lumens of exceptional 90+ CRI light while achieving over 71 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite<sup>®</sup> Technology. The CR150-1000L is available in a warm and cool color temperatures and has a variety of trim options. It easily installs into 150mm diameter ceiling openings, making the CR150-1000L perfect for use in both residential and commercial applications.

### Performance Summary

Utilizes Cree TrueWhite<sup>®</sup> Technology

Active Color Management

**Delivered Light Output:** 1000 lumens

**Input Power:** 14 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

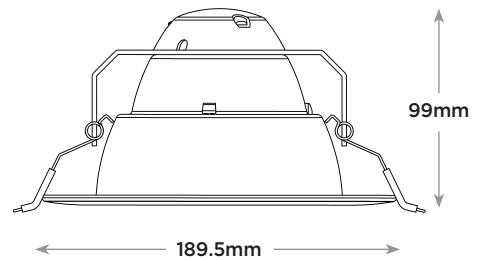
##### CT6AB

Black diffuse anodized finish reflector

##### CT6BB

Flat black finish trim and reflector

CR150-1000L



### Ordering Information

Example: CR150-1000L-30K-23

CR150					
Product	Lumen Output	Color Temperature	Voltage	Control	Options
CR150	1000L 14W 1000 lumens - 71 LPW	30K 3000 Kelvin 40K 4000 Kelvin	23 220-240 Volt	BLANK Triac Dimming to 5%*	BLANK CE/CB Certified

\* Reference [www.cree.com/lighting](http://www.cree.com/lighting) for recommended dimming control options.

† See [www.cree.com/lighting/products/warranty](http://www.cree.com/lighting/products/warranty) for warranty terms.

**NOTE: Not for U.S. shipment**

## CR150-1000L

### 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

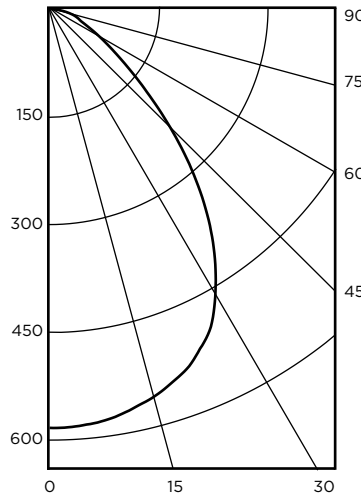
- Remote high-efficiency driver and power supply.
- Power Factor > 0.9 nominal
- Input Voltage: 220-240V, 50/60Hz
- Dimming: Dimmable to 5% with recommended dimmers. Reference [www.cree.com/lighting](http://www.cree.com/lighting) for recommended dimmers.

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- CE/CB Certified.
- Pending CCC Certification.

### Photometry

#### CR150-1000L-3000K BASED ON LTL REPORT #: 28507



#### Intensity (Candlepower) Summary

Angle	Mean CP
0°	543
5°	541
15°	519
25°	472
35°	361
45°	217
55°	107
65°	54
75°	33
85°	8
90°	0

#### Zonal Lumen Summary

Zone	Lumens	% Lamp
0-30	413	41%
0-40	637	64%
0-60	902	90%
0-90	1000	100%

Reference [www.cree.com/lighting](http://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](http://www.cree.com/lighting) for detailed installation instructions.

### Application Reference

Open Space					
Spacing (m)	Lumens	Wattage	LPW	w/m²	Average Lux
1.2 x 1.2	1000	14	71	9.33	462
1.8 x 1.8				4.36	214
2.4 x 2.4				2.33	117
3.0 x 3.0				1.56	78

Ceiling Height = 2.7m, 80/20/50 Reflectances, 0.75m workplane.  
LLF: 1.0 Initial. Open Space: 15m x 12m

Corridor					
Spacing (m)	Lumens	Wattage	LPW	w/m²	Average Lux
1.2m on Center	1000	14	71	1.94	144
1.8m on Center				1.32	357
2.4m on Center				0.93	174
3.0m on Center				0.78	242

Ceiling Height = 2.7m, 80/20/50 Reflectances, light levels on ground.  
LLF: 1.0 Initial. Corridor: 1.5m Wide x 30m Long