CR150-1000L





150mm LED Downlight

Product Description

The CR150™ 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® Technology.

The CR150 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 perfect for use in both residential and commercial applications.

Performance Summary

Utilizes Cree TrueWhite® 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%

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 CreeLighting.com/International for detailed installation instructions

Accessories

Reference Downlight Trims Section for more details

s & Reflectors
s & Reflectors

CT6AB CT6AB

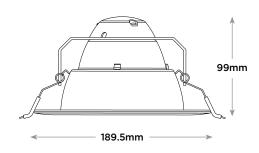
Diffuse anodized finish reflector

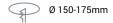
Black diffuse anodized finish reflector

CT6AW CT6BB

Wheat diffuse anodized finish reflector Flat black finish trim and reflector







Ordering Information Example: CR150-1000L-30K-23					
CR150					
Product	Product Lumen Output	Color Temperature	Voltage	Control	Options
CR150	1000L 1000 lumens	30K 3000 Kelvin 40K 4000 Kelvin	23 220-240V	No code Triac Dimming to 5%*	No code CE/CB certified

^{*} Reference CreeLighting.com/International for recommended dimmers

† Reference CreeLighting.com/International for recommended dimming control options

CR150-1000L

150mm LED Downlight



CREE & LIGHTING

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 effi cacy—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
- UGR <22/25 depending on the configuration for office applications in compliance with EN 12464-1

SISTEMA ELETTRICO

- · Remote high-efficiency driver and power supply
- · Power Factor 0,9
- Input Voltage: 220-240V, 50/60Hz
- Dimming: Dimmable to 5% with recommended dimmers.
 Reference CreeLighting.com/International for recommended dimmers

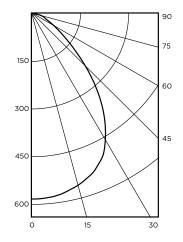
REGULATORY & VOLUNTARY QUALIFICATIONS

· CE/CB certified.

Photometry

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

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%.



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				
Lumen	% Lamp			
413	41%			
637	64%			
902	90%			
1000	100%			
	Lumen 413 637 902			

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

Glare Evaluation Table				
X = 4H Y = 4H				
Reflection factors	0,2/0,5/0,7			
UGR transversal	<22			
UGR longitudinal	<22			

Application Reference

Open Space					
Interdistanza (m)	Lumen	Potenza Elettrica	L/W	w/m²	Lux medi
1.2 x 1.2	1000	14	71	9.33	733
1.8 x 1.8		14	71	4.36	340
2.4 x 2.4		14	71	2.33	186
3.0 x 3.0		14	71	1.56	123

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

Corridor					
Spacing (m)	Lumens	Wattage	LPW	w/m²	Average Lux
1.2 m al centro	1000	14	71	1.94	287
1.8 m al centro		14	71	1.32	242
2.4 m al centro		14	71	0.93	175
3.0 m al centro		14	71	0.78	144

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

© 2016 Cree, Inc. and/or one of its subsidiaries. All rights reserved. For informational purposes only. Content is subject to change. Patent www.cree.com/patents. Cree $^{\circ}$, the Cree logo, Cree TrueWhite $^{\circ}$, and the Cree TrueWhite Technology logo are registered trademarks, and CR150-1000LTM is a trademark of Cree, Inc.