

CR4™

Four-Inch LED Downlight

Product Description

The CR4™ LED downlight delivers 575 lumens of exceptional 90+ CRI light while achieving over 60 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. The CR4 is available in a warm color temperature and easily installs into most standard four-inch recessed IC or non-IC housings, making the CR4 perfect for use in both residential and light commercial, new construction or retrofit, applications.

Performance Summary

Utilizes Cree TrueWhite® Technology

Delivered Light Output: 575 lumens

Input Power: 9.5 watts

CRI: 90

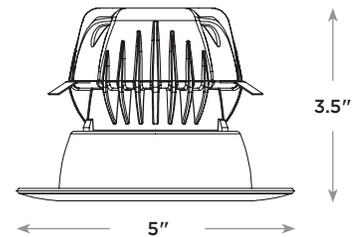
CCT: 2700K, 3000K, 3500K, 4000K

Warranty: 5 years*

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 5%*

CR4™



Ordering Information

Example: CR4-575L-27K-12-E26

CR4™		Source Lumen Output		CCT		Voltage		Base Type		Options	
Series	Size	575L	575 Lumens	27K	2700K	12	120 Volts	E26	Edison Base	D	Specular Reflector
CR	4 4 inch			30K	3000K			GU24	GU24 Base (Title 24 Compliant)		
				35K	3500K						
				40K	4000K						

* Reference www.cree.com/lighting for recommended dimmers.

† See www.cree.com/lighting for warranty terms.



Rev. Date 05/09/2013



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 upper housing protects LEDs, driver and power supply. Adjustable flip clips resist heat while providing retention for flush ceiling fit.
- Thermal management system uses the lower reflector to conduct heat away from LEDs and transfer it to the plenum space for optimal performance. LED junction temperatures stay below specified maximum even when installed in attic insulation.
- Suitable for insulated and non-insulated ceilings.
- 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.

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 .

ELECTRICAL SYSTEM

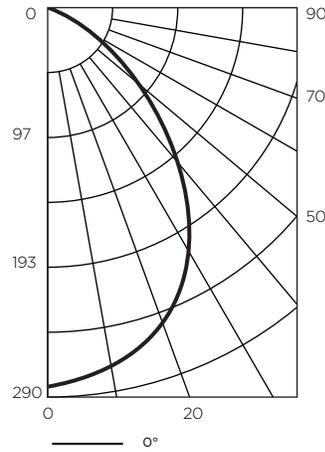
- Integral, high-efficiency driver and power supply.
- **Power Factor** > 0.9
- **Input Voltage:** 120V, 60Hz
- **Dimming:** Dimmable to 5% with most incandescent dimmers. Reference www.cree.com/lighting for recommended dimmers.

REGULATORY & VOLUNTARY QUALIFICATIONS

- ENERGY STAR® qualified.
- cULus Listed
- Exceeds California Title-24 high efficacy luminaire requirements.
- Suitable for wet locations.

Photometry

CR4-575 BASED UPON CREE TEST REPORT #: 2,066



Intensity (Candlepower) Summary

Angle	Mean CP
0°	276
5°	274
15°	260
25°	237
35°	210
45°	168
55°	104
65°	31
75°	1
85°	0
90°	0

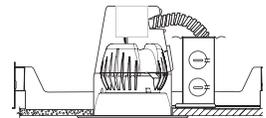
Zonal Lumen Summary

Zone	Lumens	% Fix
0-30	209.4	36.40%
0-40	330.2	57.40%
0-60	506.9	88.20%
0-90	575	100%

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

Installation

- Designed to easily install in standard 4" downlight housings.*
- Quick install system utilizes a unique retention feature. Simply attach socket to CR4. Move light to ready position and slide into housing.



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

*Reference www.cree.com/lighting for a list of compatible housings.

Application Reference

Open Space					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4 x 4	575	9.5	61	0.52	38
6 x 6				0.25	18
8 x 8				0.14	10
10 x 10				0.08	6

10' Ceiling, 80/50/20 Reflectances, 2.5 workplane.
LLF: 1.0 Initial. Open Space: 50' x 40' x 10'

Corridor					
Spacing	Lumens	Wattage	LPW	w/ft²	Average FC
4' on Center	575	9.5	61	0.33	15
6' on Center				0.23	10
8' on Center				0.17	8
10' on Center				0.13	6

10' Ceiling, 80/50/20 Reflectances, Light levels on the ground.
LLF: 1.0 Initial. Corridor: 6' Wide x 100' Long

