

# 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

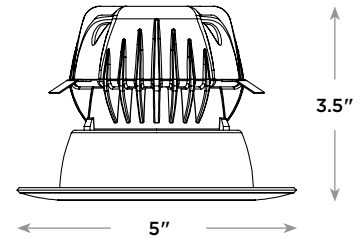
**CCT:** 2700K, 3000K, 3500K, 4000K

**Warranty:** 5 years†

**Lifetime:** Designed to last 50,000 hours

**Dimming:** Dimmable to 5%\*

CR4™



### Ordering Information

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

**QUICKSHIP™**

For full list of Cree Quick Ship products visit [www.cree.com/lighting/quickship](http://www.cree.com/lighting/quickship)

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

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

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



Rev. Date 02/07/2014



**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**

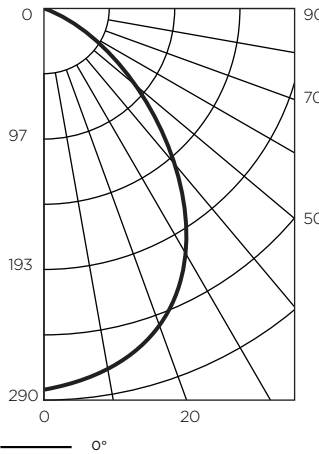
- Integral, high-efficiency driver and power supply.
- **Power Factor** > 0.9
- **Input Voltage:** 120V, 60Hz
- **Dimming:** Dimmable to 5% with most incandescent dimmers. Reference [www.cree.com/lighting](http://www.cree.com/lighting) for recommended dimmers.

**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

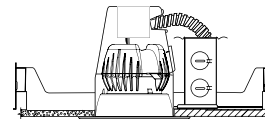
**Zonal Lumen Summary**

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

\*Reference [www.cree.com/lighting](http://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

© 2014 Cree, Inc. and/or one of its subsidiaries. All rights reserved. For informational purposes only. Content is subject to change. See [www.cree.com/patents](http://www.cree.com/patents) for patents that cover these products. Cree®, and the Cree logo are registered trademarks, and CR4™ and the Quick Ship logo are trademarks of Cree, Inc. and/or one of its subsidiaries. ENERGY STAR® and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency. The UL logo is a registered trademark of UL LLC.

