

Product Description

The $\text{CR4}^{\text{\tiny{TM}}}$ FD LED downlight delivers up to 575 lumens of warm, 2700K light at up to 46 lumens per watt. Using just one-fifth of the energy used by comparable incandescent lamps, the CR4™ FD is a direct replacement for most four-inch recessed downlights, using up to a 50 watt incandescent bulb, in existing IC or non-IC housings. With a wet location rating and commercial ENERGY STAR® qualification, this product is ideal for use in many residential and light commercial applications.

Performance Summary

Utilizes Cree Full Definition Color Quality Technology

Delivered Light Output: 575 lumens

Input Power: 12.5 watts

CRI: 83

CCT: 2700K

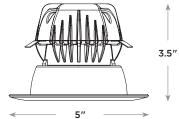
Warranty: 5 years[†]

Lifetime: Designed to last 35,000 hours

Dimming: Dimmable to 5%*

CR4™ FD





Ordering Information

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

CR4™ F	:D					
Series	Size	Source Lumen Output	сст	Voltage	Base Type	Options
CR	4 4 inch	575L 575 Lumens	27K 2700K	12 120 Volts	E26 Edison Base GU24 GU24 Base (Title 24 Compliant)	FD Full Definition

^{*} Reference www.cree.com/lighting for recommended dimmers.





 $^{^{\}scriptsize +}$ See www.cree.com/lighting for warranty terms.

Product Specifications

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

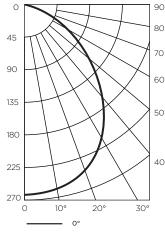
- Integral, high-efficiency driver and power supply.
- Power Factor > 0.9
- Input Voltage: 120V, 60Hz
- Dimming: Dimmable to 5% with most incandescent dimmers.
 Reference www.cree.com/lighting for recommended dimmers.

REGULATORY & VOLUNTARY QUALIFICATIONS

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

Photometry

CR4™ FD



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	201.2	34.8%
0-40	319.7	55.3%
0-60	511.3	88.4%
0-90	578.4	100%

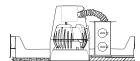
Intensity (Candlepower) Summary

Angle	Mean CP		
O°	265		
5°	264		
15°	253		
25°	228		
35°	190		
45°	143		
55°	91		
65°	44		
75°	18		
85°	2		
90°	0		

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™ FD. 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 × 4	575	10.5	46	0.59	37
6 x 6				0.28	18
8 x 8		12.5	46	0.16	10
10 x 10				0.09	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		12.5	46	0.38	14	
6' on Center				0.26	9	
8' on Center	575			0.2	7	
10' on Center				0.15	6	

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

