Product Description

The CR6[™] FD LED downlight delivers up to 625 lumens of warm, 2700K light at up to 50 lumens per watt. Using just one-fifth of the energy used by comparable incandescent lamps, the CR6[™] FD is a direct replacement for most six-inch recessed downlights, using up to a 65 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: 625 lumens
Input Power: 12.5 watts
CRI : 83
ССТ: 2700К
Warranty: 5 years ⁺
Lifetime: Designed to last 35,000 hours
Dimming: Dimmable to 5%*

Housings & Accessories

Reference Housing & Accessory documents for more details.

Housings (Edison or GU24)		
H6	SC6	
Architectural	Cylindrical Surface Mount	
RC6	SC6-CM	
New Construction	Cylindrical Cord Mount	
RR6	SC6-WM	
Retrofit	Cylindrical Wall Mount	



7.5″

Ordering Information

Example: CR6-625L-27K-12-E26-FD

CR6™ F	D					
Series	Size	Source Lumen Output	сст	Voltage	Base Type	Options
CR	6 6 inch	625L 625 Lumens	27K 2700K	12 120 Volts	E26Edison BaseGU24GU24 Base (Title 24 Compliant)	FD Full Definition

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

⁺ 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 and 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 insulated ceilings.
- 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 while lower reflector balances brightness of lens with the ceiling to create a low-glare high angle appearance.

ELECTRICAL SYSTEM

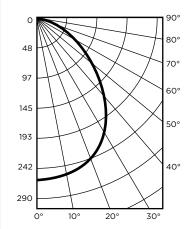
- Integral, high-efficiency driver and power supply.
- Power Factor > 0.9
- Input Voltage: 120V, 60Hz
- Dimming: Dimmable to 5% with most incandescent dimmers. Reference www.cree.com/lighting for recommended dimmers.

REGULATORY & VOLUNTARY QUALIFICATIONS

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

Photometry

CR6[™] FD



Intensity (Candlepower) Summary				
Summary				
Angle	Angle Mean CP			
0°	284			
5°	284			
15°	273			
25°	251			
35°	210			
45°	155			
55°	94			
65°	42			
75°	18			
85°	3			
90°	0			

Zonal Lumen Summary

	Zone	Lumens	% Luminaire
	0-30	215.6	35.9%
	0-40	342.4	57%
	0-60	537.9	89.6%
	0-90	600.6	100%

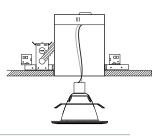
Reference www.cree.com/lighting for detailed photometric data.

Installation

- Designed to easily install in standard 6" downlight housings from Cree and other manufacturers.*
- Quick install system utilizes a unique retention feature. Simply attach socket to CR6[™] 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/ft ²	Average FC	
4 x 4	625	12	50	0.78	38	
6 x 6				0.38	19	
8 x 8				0.21	10	
10 x 10				0.12	6	

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

Wattage LPW w/ft² Average FC Spacing Lumens 4' on Center 0.50 15 6' on Center 0.34 10 12 50 625 8' on Center 0.26 8 10' on Center 0.20 6

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

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