

LR6™

6" LED Downlight

Product Description

The LR6™ LED downlight delivers 650 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 LR6 is available in warm or neutral color temperatures and has a variety of trim options. It easily installs into most standard six-inch recessed IC or non-IC housings, making the LR6 perfect for use in commercial new construction or retrofit applications.

Performance Summary

Utilizes Cree TrueWhite® Technology

Active Color Management

Delivered Light Output: 650 lumens

Input Power: 10.5 watts

CRI: 90

CCT: 2700K, 3500K

Limited Warranty†: 10 years

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 20%*

Housing & Accessories

Reference Housing & Accessory documents for more details.

Trims

LT6A

Diffuse anodized finish

LT6AW

Wheat diffuse anodized finish

LT6AP

Pewter diffuse anodized finish

LT6AB

Black anodized finish

LT6WH

Smooth white

LT6BB

Flat black finish trim and reflector

Housing (Edison or GU24)

H6

Architectural

RC6

New Construction

RR6

Retrofit

SC6

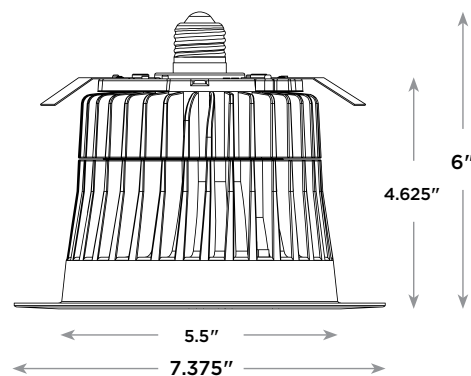
Cylindrical Surface Mount

SC6-CM

Cylindrical Cord Mount

SC6-WM

Cylindrical Wall Mount



Ordering Information

Example: LR6

QUICKSHIP™

For full list of Cree Quick Ship products visit www.cree.com/lighting/quickship

Product

LR6

2700K, Edison Base

LR6-GU24

2700K, GU24 Base

LR6C

3500K, Edison Base

LR6C-GU24

3500K, GU24 Base

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

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



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US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that 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 die-cast aluminum housing protects LEDs, driver and power supply. Adjustable flip clips resist heat while providing retention for flush ceiling fit
- 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 even when installed in attic insulation with ambient temperatures exceeding 60 °C
- 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 and easily accommodates LT6 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

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply
- Power Factor:** > 0.9
- Input Voltage:** 120V, 60Hz
- Dimming:** Dimmable to 20% with most incandescent dimmers*

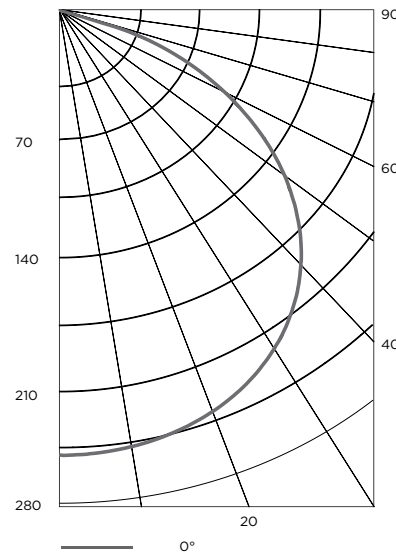
REGULATORY & VOLUNTARY QUALIFICATIONS

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

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

Photometry

LR6 LIGHTING SCIENCES INC. CERTIFIED TEST #: 22226



Intensity (Candlepower) Summary

Angle	Mean CP
0°	249
5°	248
15°	242
25°	228
35°	203
45°	165
55°	115
65°	62
75°	24
85°	6
90°	0

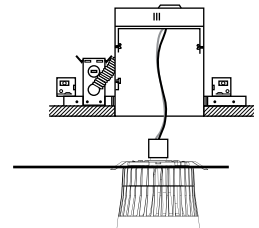
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fix
0-30	197	30.39%	30.39%
0-40	325	49.94%	49.94%
0-60	556	85.35%	85.35%
0-90	650	100%	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 LR6. 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	650	10.5	62	0.60	38
6 x 6				0.28	18
8 x 8				0.15	9
10 x 10				0.10	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	650	10.5	62	0.40	12
6' on Center				0.27	8
8' on Center				0.20	6
10' on Center				0.17	5

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