Product Description

The LR6-DR650 deep recess LED downlight delivers 650 lumens of exceptional 90+ CRI light while achieving over 54 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite* Technology. The LR6-DR650 is available in warm or neutral color temperatures and has a variety of trim options. It easily installs into Cree six-inch GU24 housings or may be retrofitted with a GU24 whip adapter, making the LR6-DR650 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: 12 watts

CRI: 90

CCT: 2700K, 3500K

Limited Warranty†: 10 years

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 5%*

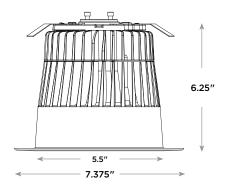
Housing & Accessories

Reference Housing & Accessory documents for more details.

LT6AB-DR					
Black anodized finish					
LT6WH-DR					
Smooth white					
LT6BB-DR					
Flat black finish trim and reflector					

Housing (Edison or GU24)	
Н6	SC6
Architectural	Cylindrical Surface Mount
RC6	SC6-CM
New Construction	Cylindrical Cord Mount
RR6	SC6-WM
Retrofit	Cylindrical Wall Mount





Ordering Information

Example: LR6-DR650

Product

LR6-DR650

2700K

LR6C-DR650

NOTE: Intended for use with Cree six-inch GU24 housings. May be retrofitted into six-inch housings from select manufacturers using the supplied GU24 whip adapter.

- † See www.cree.com/lighting/products/warranty for warranty terms
- * Reference www.cree.com/lighting for recommended dimmers





Rev. Date 04/14/2014



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 spaciousnesss
- Deep set diffusing lens shields direct view of LEDs and provides more precise optical control with greater visual cut-off

ELECTRICAL SYSTEM

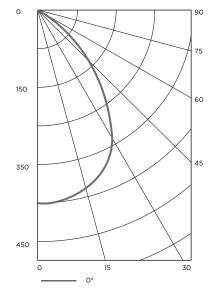
- Integral, high-efficiency driver and power supply
- Power Factor: > 0.9
- Input Voltage: 120V, 60Hz
- Dimming: Dimmable to 20% with certain incandescent dimmers*

REGULATORY & VOLUNTARY QUALIFICATIONS

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

Photometry

LR6-DR650 Based on OnSpex #: 22721



Intensity (Candlepower) Summary

Angle	Mean CP
0°	388
5°	386
15°	364
25°	301
35°	214
45°	134
55°	78
65°	39
75°	21
85°	4
90°	0

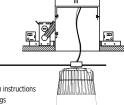
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fix
0-30	276	42.42%	42.42%
0-40	409	62.89%	62.89%
0-60	583	89.71%	89.71%
0-90	650	100%	100%

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

Installation

- Designed to easily install in standard 6" housings from Cree and other manufacturers*
- Quick install system utilizes a unique retention feature. Simply attach socket to LR6-DR650. 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

Spacing	Lumens	Wattage	LPW	w/ft²	Average FC	
4 x 4	650	12	54	0.69	38	
6 x 6				0.33	18	
8 x 8				0.17	10	
10 x 10				0.12	7	

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	12	54	0.46	14
6' on Center				0.31	10
8' on Center				0.23	7
10' on Center				0.19	6

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



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