

# LR6 Series

LR6-DR1000 Deep Recess LED Downlight - 6"

## Product Description

The LR6-DR1000 deep recess LED downlight delivers 1,000 lumens of exceptional 90+ CRI light while achieving 80 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. The LR6-DR1000 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-DR1000 perfect for use in commercial new construction or retrofit applications.

## Performance Summary

Utilizes Cree TrueWhite® Technology
<b>Delivered Light Output:</b> 1,000 lumens
<b>Input Power:</b> 12.5 watts
<b>CRI:</b> 90
<b>CCT:</b> 2700K, 3500K
<b>Limited Warranty:</b> 10 years
<b>Lifetime:</b> Designed to last 50,000 hours
<b>Dimming:</b> Dimmable to 20%*

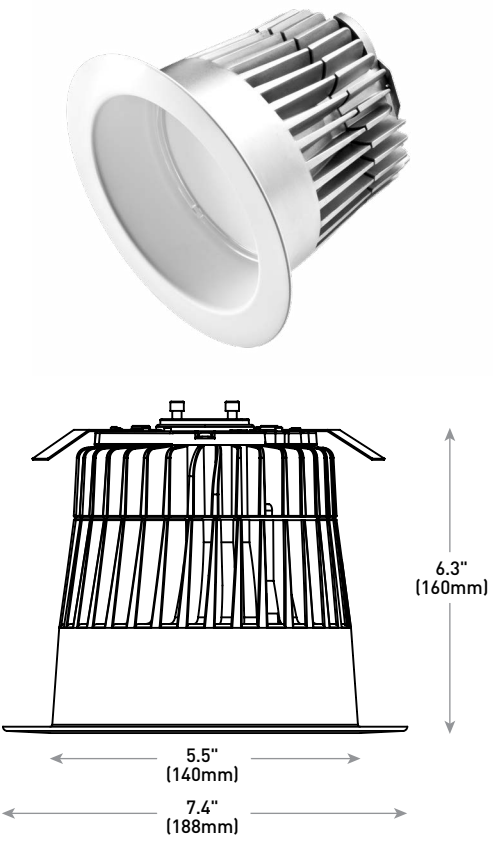
\* See <http://lighting.cree.com/warranty> for warranty terms  
 \* Reference <http://lighting.cree.com/lighting> for recommended dimmers

## Housings & Trims

Reference Housing & Accessory documents for more details

Housings	
<b>120V GU24 Base Recessed Housings</b> H6-GU24 - Architectural new construction RC6-GU24 - New construction RR6-GU24 - Retrofit	<b>120V GU24 Base Cord Mount Housings</b> SC6-CM-GU24 - Textured white finish SC6-CM-BL-GU24 - Textured black finish
<b>120V GU24 Base Surface Mount Housings</b> SC6-GU24 - Textured white finish SC6-BL-GU24 - Textured black finish	<b>120V GU24 Base Wall Mount Housings</b> SC6-WM-GU24 - Textured white finish

Trims		
<b>LT6A-DR</b> Diffuse anodized reflector w/white flange	<b>LT6AP-DR</b> Pewter diffuse anodized reflector w/white flange	<b>LT6WH-DR</b> Smooth white painted reflector/flange
<b>LT6AW-DR</b> Wheat diffuse anodized reflector w/white flange	<b>LT6AB-DR</b> Black anodized reflector w/white flange	<b>LT6BB-DR</b> Flat black reflector/flange



## Ordering Information

Example: LR6-DR1000-GU24

Product
<b>LR6-DR1000-GU24</b> 2700K <b>LR6C-DR1000-GU24</b> 3500K

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  
 NOTE: Price adder may apply depending on configuration



Rev. Date: V2 05/04/2016



# LR6-DR1000 LED Downlight – 6"

## 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
- 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\*

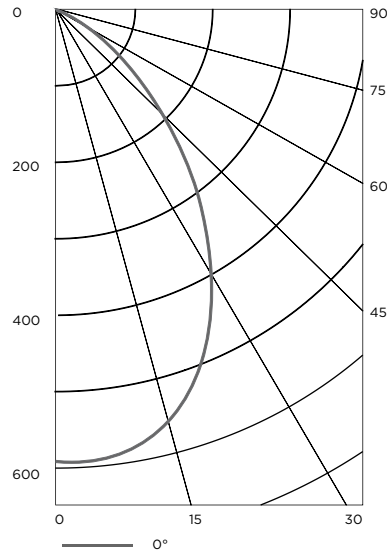
### REGULATORY & VOLUNTARY QUALIFICATIONS

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

\* Reference <http://lighting.cree.com/products/indoor/retrofit-downlights/lr6-series> for recommended dimmers

## Photometry

### LR6-DR1000 BASED ON LTL #: 22718



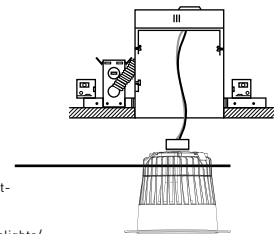
Intensity (Candlepower) Summary	
Angle	Mean CP
0°	597
5°	593
15°	559
25°	463
35°	329
45°	207
55°	120
65°	61
75°	32
85°	7
90°	0

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fix
0-30	424	42.42%	42.42%
0-40	629	62.89%	62.89%
0-60	897	89.71%	89.71%
0-90	1,000	100%	100%

Reference <http://lighting.cree.com/products/indoor/retrofit-downlights/lr6-series> 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-DR1000. Move light to ready position and slide into housing



**NOTE:** Reference <http://lighting.cree.com/products/indoor/retrofit-downlights/lr6-series> for detailed photometric data for detailed installation instructions

\* Reference <http://lighting.cree.com/products/indoor/retrofit-downlights/lr6-series> for a list of compatible housings

## Application Reference

Open Space					
Spacing	Lumens	Wattage	LPW	w/ft <sup>2</sup>	Average FC
4 x 4	1,000	12.5	80	0.72	59
6 x 6				0.34	28
8 x 8				0.18	15
10 x 10				0.12	10

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/ft <sup>2</sup>	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

