LR6-18L

6" LED Downlight

Product Description

The LR6-10L LED downlight delivers 1800 lumens of exceptional 90+ CRI light while achieving 90 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology, with an integrated driver and thermal management design. The LR6-10L 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.

Applications: Commercial new construction and retrofit

Performance Summary

Utilizes Cree TrueWhite® Technology

Active Color Management

Delivered Light Output: 1800 lumens

Input Power. 20 watts

CRI: 90

CCT: 2700K, 3000K, 3500K, 4000K

Limited Warranty[†]: 10 years

Lifetime: Designed to last 50,000 hours

Dimming: Dimmable to 5%*

Suitable for non-insulated ceilings only

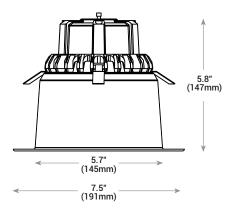
Housing & Accessories

Reference Housing & Accessory documents for more details.

Trims	
LT6A-DR	T6AB-DR
Diffuse anodized finish	Black anodized finish
LT6AW-DR	LT6WH-DR
Wheat diffuse anodized finish	Smooth white
LT6AP-DR Pewter diffuse anodized finish	LT6BB-DR Flat black finish trim and reflector

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





Ordering Information

Example: LR6-18L-35K-120V-A-DR

LR6™	10L		120V	A	DR
Series	Lumen Output	Color Temperature	Voltage	Version	Options
LR6™	18L 20W 1800 lumens - 90 LPW	27K 2700 Kelvin 30K 3000 Kelvin 35K 3500 Kelvin 40K 4000 Kelvin	120V 120 Volts - GU24 Base	A Version	DR Deep Recess - 20'Shield







Rev. Date: V2 09/30/2014



^{*} Reference www.cree.com/lighting for recommended dimmers † See www.cree.com/lighting/products/warrranty for warranty terms

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 aluminum housing protects the light source. Adjustable flip clips provide robust retention for flush ceiling fit
- Thermal management system uses integral heat sink to conduct heat away from LEDs for optimal performance. LED junction temperatures stay below specified maximum even when installed in with worst case installations
- · Suitable for non-insulated ceilings only
- 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, hot spots and minimizing glare
- 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 greater visual cut-off

ELECTRICAL SYSTEM

· Integral, high-efficiency driver and power supply

• Power Factor: > 0.9

Input Voltage: 120V, 60Hz

Dimming: Dimmable to 5% with certain incandescent dimmers*

REGULATORY & VOLUNTARY QUALIFICATIONS

ENERGY STAR® qualified

cULus Listed

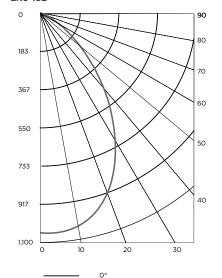
· Exceeds California Title-24 high efficacy luminaire requirements

Suitable for damp locations

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

Photometry

LR6-18L



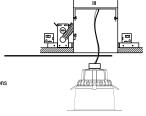
Intensity (Candlepower) Summary				
Angle	Mean CP			
0°	1059			
5°	1056			
15°	1007			
25°	846			
35°	602			
45°	369			
55°	212			
65°	106			
75°	55			
85°	10			
90°	0			

Zonal Lumen Summary					
Zone	Lumens	% Fix			
0-30	424	42.42%	42.42%		
0-40	629	62.89%	62.89%		
0-60	897	89.71%	89.71%		
0-90	1000	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 LR6-18L. 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	1800	20	90	0.56	50
6 x 6				0.31	27
8 x 8				0.20	18

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	1800	20	90	0.53	25
6' on Center				0.40	18
8' on Center				0.33	16

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

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