DR Series

DR6™ LED Downlight – 6"

Product Description

At Cree[®], we believe in better lighting. Better light is beautiful light. But it's more than just beautiful. It is light that makes you feel more productive, more relaxed and safer. Better light changes everything. That's why the new and improved Cree LED bulbs feature high color rendering that enhances your space and makes the colors of your décor appear vibrant, richer and more natural – true colors the way they are meant to be experienced.

DR6[™] LED downlight, engineered with Cree TrueWhite[®] Technology, delivers up to1,100 lumens with unmatched 90+ CRI light while achieving up to 76 lumens per watt. The DR6 is available in a soft white 2700K color temperature or cool 5000K color temperature (650L), uses up to 87% less energy and is designed to last 35 times longer than a traditional incandescent. It easily installs into most standard six-inch recessed IC or non-IC housings.

Applications: New construction or upgrade for residential and commercial lighting

Performance Summary

Utilizes Cree TrueWhite® Technology

Initial Delivered Lumens: 650-1,100 lumens

Input Power: 8.5-10 watts (65W equivalent); 16 watts (100W equivalent)

CRI: 90+

CCT: 2700K, 5000K

Limited Warranty*: 5 years Commercial use

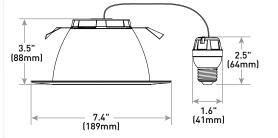
Lifetime: Designed to last 35,000 hours

Dimming: Dimmable to 5% with select dimmers

ENERGY STAR® Certified

Must order in multiples of master carton (MC) quantities; MC = 4





Ordering Information

Example: DR6-650L-27K-B1

DR	6					B1
Series	Size	Initial Delivered Lumens	сст	Voltage	Base	Packaging Options
DR	6	650L 27K: 10W, 650 Lumens - 65 LPW 50K: 8.5W, 650 Lumens - 76 LPW 1100L - Available in 2700K only 27K: 16W, 1,100 Lumens - 69 LPW	27K 2700K 50K 5000K	Blank 120 Volt	Blank E26 (screw base)	B1 (1) Single Pack (MC = 4)

Ordering Number	Product Number	Unit UPC	Master Carton ITF-14	Lamps per Master Carton	Watts	Pallet Qty	CRI	ССТ	Lumens	Rated Life (Hrs)
DR6-650L-27K-B1	SRDL6-0652700FH-12DE26-1-11004S0	849665012047	10849665012044	4	10.4W	200	90+	2700K	650	35,000
DR6-650L-50K-B1	SRDL6-0655000FH-12DE26-1-11004S0	849665012061	10849665012068	4	8.5W	200	90+	5000K	650	35,000
DR6-1100L-27K-B1	SRDL6-1102700FH-12DE26-1-11004S0	849665012085	10849665012082	4	16.0W	200	90+	2700K	1,100	35,000





US



Rev. Date: V9 09/23/2016



Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-guality 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 housing protects LEDs and power supply. Adjustable flip clips resist heat while providing retention for flush ceiling fit
- Thermal management system uses 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
- 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 polycarbonate 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 power supply
- Power Factor: > 0.9
- Total Harmonic Distortion: < 20%
- Input Voltage: 120V, 50/60Hz
- Dimming: Dimmable to 5% with most incandescent dimmers.Reference http://lighting.cree.com/products/indoor/retrofit-downlights/dr-series for recommended dimmers
- Operating Temperature Range: -25°C +35°C (-13°F +95°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

cULus Classified

Application Reference

Lumens

650

Open Space Spacing

4 x 4

6 x 6

8 x 8

10 x 10

- Suitable for wet locations for covered ceilings only ENERGY STAR® certified: Please refer to www.energystar.gov/productfinder/product/certified-light-bulbs/results for most current information DR6-650L-27K-B1: SRDL6-0652700FH-12DE26-1 DR6-650L-50K-B1: SRDL6-0655000FH-12DE26-1 DR6-1100L-27K-B1: SRDL6-1102700FH-12DE26-1
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- RoHS Compliant. Consult factory for additional details

Wattage

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

10

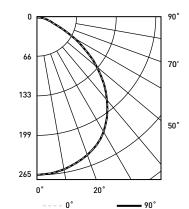
LPW

65

Photometry

DRDL6-06227009-12DE26-1C100 BASED ON CESTL REPORT TEST #: PL03441-001*

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method						
RC %:	80					
RW %:	70	50	30	10		
RCR: 0	119	119	119	119		
1	110	106	102	99		
2	101	94	88	83		
3	93	84	76	70		
4	86	75	67	61		
5	79	67	59	53		
6	73	61	53	47		
7	68	56	47	41		
8	64	51	43	37		
9	60	47	39	34		
10	56	43	36	31		

Horizontal Angle

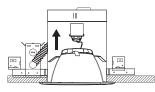
		0°	45°	90°	
ngle	45°	16,073	16,073	16,073	
Vertical Angle	55°	12,950	12,950	12,950	
Verti	65°	8,238	8,238	8,238	
	75°	5,571	5,571	5,571	
	85°	4,833	4,833	4,833	

Average Luminance Table (cd/m²)

Reference http://lighting.cree.com/products/indoor/

* Updated photometry coming soon

- Designed to easily install in standard 6" (152mm), and most 5" (127mm) downlight housings with minimum depth 5.5" (140mm) and diameter of 5.25" - 6.5 (133mm - 165mm)
- Quick install system utilizes a unique retention feature. Simply attach socket to DR6. Move light to ready position and slide into housing NOTE:



N/A

N/A

Luminaire

32.9%

53 3%

87.6%

100.0%

Reference http://lighting.cree.com/products/indoor/retrofit-downlights/dr-series for detailed installation instructions

Corridor						
Spacing	Lumens	Wattage	LPW	w/ft ²	Average FC	
4' on Center	- 650	10	65	0.40	12	
6' on Center				0.26	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

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w/ft²

0.60

0.28

0.15

0.10

Average FC

38 18

9

6



Zone Lumens % Lamp 0-30 206 N/A 0-40 333 N/A

548

625

0-60

0-90

Effective Floor Cavity Reflectance: 20%

Zonal Lumen Summary

retrofit-downlights/dr-series for detailed photometric data

Installation