DR Series

DR4™ LED Downlight – 4"

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.

The DR4[™] LED downlight, engineered with Cree TrueWhite[®] Technology, delivers 575 lumens with unmatched 90+ CRI light while achieving up to 72 lumens per watt. The DR4 is available in a soft white 2700K color temperature, uses up to 85% less energy and is designed to last 35 times longer than a traditional incandescent. It easily installs into most standard four-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: 575 lumens

Input Power: 8-9 watts (50W equivalent)

CRI: 90+

CCT: 2700K, 5,000K

Limited Warranty*: 5 years Commercial use

Lifetime: Designed to last 35,000 hours

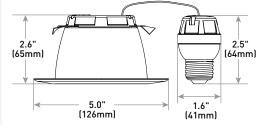
Dimming: Dimmable to 5% with select dimmers

ENERGY STAR[®] Certified

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

+See http://lighting.cree.com/warranty for warranty terms





Ordering Information

Example:	DR4-575L-27K-B1
Example.	BIG BIGE ENTED

DR	4		27К			B1
Series	Size	Initial Delivered Lumens	сст	Voltage	Base	Packaging Options
DR	4	575L 27K: 9W, 575 Lumens - 64 LPW 50K: 8W, 575 Lumens - 72 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)
DR4-575L-27K-B1	SRDL4-0572700FH-12DE26-1-11004S0	849665011927	10849665011924	4	9	200	90+	2700K	575	35,000
DR4-575L-50K-B1	SRDL4-0575000FH-12DE26-1-11004S0	849665011941	10849665011948	4	8	200	90+	5000K	575	35,000









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 LED and power supply. Adjustable flip clips resist heat while providing retention for flush ceiling fit
- Thermal management system uses the 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-niece 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)

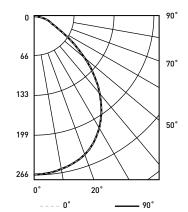
REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Classified
- Suitable for wet locations for covered ceilings only EnergyStar[®] certified. Please refer to https://www.energystar.gov/productfinder/product/certified-lightfixtures/results for most currentinformation DR4-575L-27K-B1: SRDL4-0572700FH-12DE26-1 DR4-575L-50K-B1: SRDL4-0575000FH-12DE26-1
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- RoHS Compliant. Consult factory for additional details

Photometry

DRDL4-05727009-12DE26-1C100 BASED ON CESTL REPORT TEST #: PL03421-001*

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%.



Average Luminance Table (cd/m²)

٥°

Horizontal Angle

45°

90°

Coefficients Of Utilization – Zonal Cavity Method							
RC %:	80						
RW %:	70	50	30	10			
RCR: 0	119	119	119	119			
1	110	106	103	99			
2	102	94	89	84			
3	94	84	77	71			
4	87	76	68	62			
5	80	69	60	54			
6	74	62	54	48			
7	69	57	49	43			
8	65	52	44	39			
9	61	48	40	35			
10	57	45	37	32			

Effective Floor Cavity Reflectance: 20%

578

45°	37.825	37.825	37.825				
-10	07,020	07,020	07,020				
55°	26,635	26,635	26,635		Zonal I	Lumen Sum	imary
65°	16,520	16,520	16,520		Zone	Lumens	% La
75°	15,247	15,247	15,247		0-30	205	N/A
85°	11,759	11,759	11,759		0-40	327	N/A
co.http://liv	ahtina.cree.	com/produv	J	0-60	510	N/A	

nce http://lighting.cree.com/products/indoor/	0-60
	0-90

retrofit-downlights/dr-series for detailed photometric data

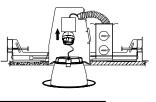
* Updated photometry coming soon

Installation

Vertical Angle

Refere

- Designed to easily install in standard 4" (102mm) downlight housings with minimum housing height of 4.4" (112mm) and diameter of 4.0" - 4.1" (102mm - 104mm)
- Quick install system utilizes a unique retention feature. Simply attach socket to DR4. Move light to ready position and slide into housina



% Lamp

N/A

Luminaire

35.4%

56.6%

88.4%

100.0%

NOTE:

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

Application Reference

Open Space							
Spacing	Lumens	Wattage	LPW	w/ft ²	Average FC		
4 x 4	575	9	64	0.54	34		
6 x 6				0.25	16		
8 x 8				0.13	9		
10 x 10				0.09	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/ft ²	Average FC		
4' on Center	575	9		0.36	11		
6' on Center			64	0.24	8		
8' on Center				0.18	6		
10' on Center				0.15	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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