

DLRv7

Recessed LED Downlight

Product Description

The DLRv7 is the newest generation of NICOR retrofit downlight, now with selectable lumen output. The DLRv7 from NICOR is a 4" or 5"/6" recessed LED downlight that is ideal for new construction using standard housings, the patented new construction frame, or as a retrofit into most 4", 5" or 6" housings. Improved to meet the newest certification standards, the DLR series is over 105 LPW, 90+ CRI and R9 greater than 50. With two micro-switches on the driver cap, the DLR Select offers the ability to adjust the CCT and lumen output. The DLRv7 downlight combined with the frame provides the lowest overall system cost for energy efficient, versatile, high quality lighting.

Construction

- Powder coated steel trim routes heat away from electrical components
- Polymer driver cover for durability
- Fully captured V-springs on 6" fixture
- Friction fit arms on 4" fixture
- Included EVA gasket to conform to AirTight rating when used with AT housing or DLR4-FRAME or DLR56-FRAME.

Optical System

- A dual emitter array enables CCT selection of 2700, 3000, 3500, 4000, or 5000K
- Utilizes high performing LEDs with 90+ CRI and an R9 > 50
- Polystyrene diffuser creates uniform distribution without sacrificing lumen output

Electrical

- Input voltage of 120VAC
- The 4" fixture provides outputs of 600/750/and 900 lumens
- The 6" fixture provides outputs of 900/1200/and 1500 lumens
- Dimmable to 5% with compatible leading edge (TRIAC)
- Operating temperature rating of -4°F to 104°F (-20°C to 40°C)

Finish

- Exterior white powder coat finish
- Available magnetic accessory trim covers in Black, Oil-Rubbed Bronze, and Nickel

Mounting and Installation

- Compatible with patented DLR frame
- Compatible with most 4" or 5" & 6" recessed housings
- Quick and easy installation with a quick connector and torsion spring or friction fit mounting system
- Ships with Edison base socket string (GU24 socket string available)

Listings

- LM-79, LM-80 testing performed in accordance with IESNA standards
- cETLus 1598 Classified for wet locations
- ENERGYSTAR listed
- CA Title 20 Compliant
- CA Title 24 Compliant
- Airtight when used with DLR frame
- Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5) for closet use
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- LED lumen maintenance: L70 >54,000 hrs for DLR47
- LED lumen maintenance: L70 >60,000 hrs for DLR567

Warranty

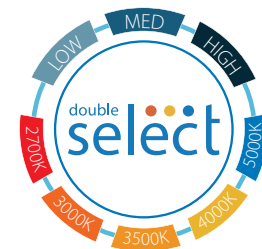
- 5-year limited system warranty
- Warranty does not cover product failure due to an overvoltage event (power surge). For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

Project

Catalog

Type

Date



DLR
4" and 5/6" Recessed LED Downlight
Lumen and CCT selectable



Ordering Information

Example: DLR4709S120S9WH

Series	Version	Wattage	Voltage	CCT's	CRI	Trim Color	Baffle
DLR4	7	095 (600/750/900 lm)	120 (120VAC)	S (Select : 27/30/35/40/50K)	9 (>90)	WH (White)	_ (blank)
DLR56		155 (900/1200/1500 lm)					BF (Baffle)

Specifications and dimensions subject to change without notice.

Accessories		accessories sold separately		Housing Compatibility ¹		Recommended Dimmers ¹	
		DLR4		DLR4		DLR4	
4" Oil Rubbed Bronze Trim		DLR4-6-TR-OB		DLR4-FRAME	DLR4v5 NEW CONSTRUCTION FRAME	Lutron Skylark SCL-153P	
4" Black Trim		DLR4-6-TR-BK		19000A-LED-ID	4" LED IC AIRTIGHT NEW CONSTRUCTION HOUSING	Lutron Nova T NTCL-250	
4" Black Baffle Trim		DLR4-6-TR-BK-BF		19001AR-LED-ID	4" LED IC AIRTIGHT REMODEL HOUSING	Leviton Decor DDL06-BLZ	
4" Nickel Trim		DLR4-6-TR-NK			MOST STANDARD 4" RECESSED HOUSINGS	DLR56	
		DLR56		DLR56		Lutron Skylark SCL-153P	
6" Oil Rubbed Bronze Trim		DLR56-6-TR-OB		DLR56-FRAME	DLR56v5 NEW CONSTRUCTION FRAME	Lutron Nova T NTCL-250	
6" Oil Rubbed Bronze Baffle Trim		DLR56-6-TR-OB-BF		17014A-LED-ID	6" LED IC AIRTIGHT NEW CONST. HOUSING	Leviton Decora 6672-1LW	
6" Black Trim		DLR56-6-TR-BK		17014AR-LED-ID	6" LED IC AIRTIGHT REMODEL HOUSING	Leviton Decor DDL06-BLZ	
6" Black Baffle Trim		DLR56-6-TR-BK-BF			MOST 5" OR 6" RECESSED HOUSINGS WITH USE OF ACCESSORY EDISON BASE		
6" Nickel Trim		DLR56-6-TR-NK					
6" Nickel Baffle Trim		DLR56-6-TR-NK-BF					
GU24 Socket String		GU24-IDEAL-SKT-STR					

¹Not a complete list. Check compatibility before installation.

Performance Data

Performance Data					
Model Number	CCT	Wattage Setting	Lumens	Watts	Lumens/Watt
DLR47	2700	6	620	5.4	115.2
	3000		630	5.3	118.4
	3500		657	5.3	124.9
	4000		684	5.3	129.4
	5000		701	5.4	129.5
	2700	7	752	6.6	114.8
	3000		764	6.5	117.9
	3500		797	6.4	123.8
	4000		830	6.5	128.7
	5000		850	6.6	129.3
	2700	8	924	7.9	116.6
	3000		938	7.8	120.3
	3500		964	7.7	124.5
	4000		962	7.7	124.2
	5000		946	7.9	120.2

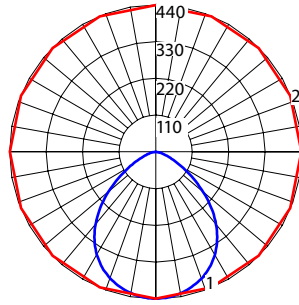
Performance Data					
Model Number	CCT	Wattage Setting	Lumens	Watts	Lumens/Watt
DLR567	2700	8	911	8.4	108.6
	3000		948	8.3	114.0
	3500		986	8.3	119.2
	4000		1001	8.3	120.1
	5000		986	8.4	118.0
	2700	12	1214	11.6	104.3
	3000		1264	11.6	108.7
	3500		1315	11.6	113.8
	4000		1334	11.7	114.5
	5000		1315	11.7	112.8
	2700	14	1518	13.9	109.4
	3000		1580	13.8	114.8
	3500		1644	13.5	121.4
	4000		1668	13.7	121.5
	5000		1650	13.9	119.0



Photometric Data

DLR47-BF @ 3000K

Input Voltage (VAC)	120
System Level Power (W)	7.8
Delivered Lumens (Lm)	938
System Efficacy (Lm/W)	120.3
Correlated Color Temp (K)	3000
Color Rendering Index (CRI)	93
Beam Angle (°)	93.5
Spacing Criteria	1.20



1 - Vertical Plane Through Horizontal Angle
2 - Horizontal Cone Through Vertical Angle

Intensity Summary (Candle Power)

Angle	Mean CP
0	440
5	436
15	416
25	378
35	315
45	227
55	128
65	56
75	22
85	0
90	0

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	27.5	8.5
6	12.2	12.8
8	6.9	17.0
10	4.4	21.3
12	3.0	25.5
14	2.2	29.8
16	1.7	34.0

CCT Data Multiplier

	6W	7W	8W
2700K	.661	.802	.985
3000K	.671	.814	1.000
3500K	.700	.850	1.027
4000K	.729	.885	1.025
5000K	.747	.906	1.008

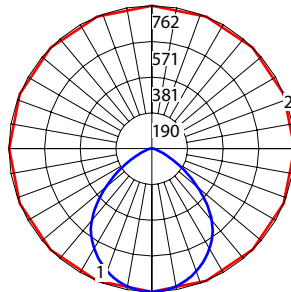
Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	335	35.8%
0-40	536	57.2%
0-60	843	89.8%
0-90	938	100%
90-180	0	0%
0-180	938	100%

DLR567-BF @ 3000K

Input Voltage (VAC)	120
System Level Power (W)	13.8
Delivered Lumens (Lm)	1580
System Efficacy (Lm/W)	114.8
Correlated Color Temp (K)	3000
Color Rendering Index (CRI)	95
Beam Angle (°)	93.4
Spacing Criteria	1.22



1 - Vertical Plane Through Horizontal Angle
2 - Horizontal Cone Through Vertical Angle

Intensity Summary (Candle Power)

Angle	Mean CP
0	761
5	757
15	723
25	657
35	564
45	411
55	228
65	88
75	29
85	5
90	0

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
4	47.5	8.5
6	21.1	12.7
8	11.9	17.0
10	7.6	21.2
12	5.2	25.5
14	3.8	29.7
16	2.9	34.0

CCT Data Multiplier

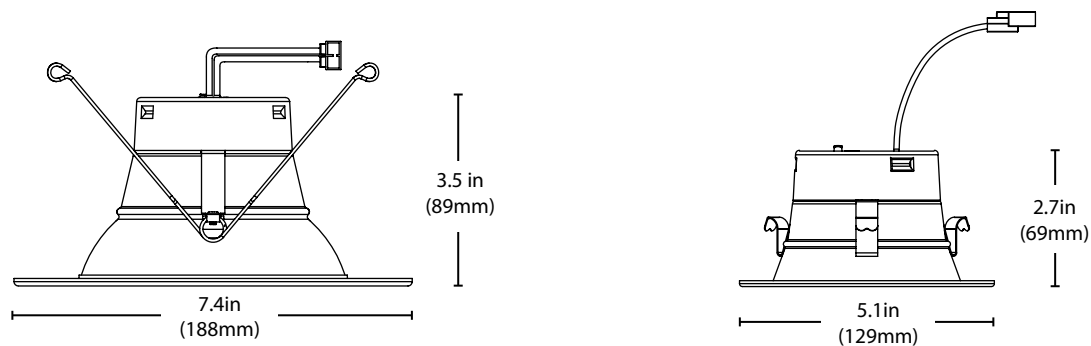
	8W	12W	14W
2700K	.576	.769	.961
3000K	.600	.800	1.000
3500K	.624	.832	1.041
4000K	.633	.845	1.056
5000K	.624	.832	1.044

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	578	36.6%
0-40	928	58.7%
0-60	1449	91.7%
0-90	1580	100%
90-180	0	0%
0-180	1580	100%

Dimensions



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.