

# SureFit™ v5

## Ultra Slim Surface Mount LED Downlight

### Product Description

The NICOR SureFit™ Ultra Slim Surface Mount LED Downlight brings selectable lumen output and selectable CCT with an improved design that fits most 4" non-metallic boxes and 4/O metallic boxes simply using two screws. The DLFv5 features magnetic, interchangeable trims available in round, square, and wall wash styles. Each trim is offered in white, black, and oil-rubbed bronze to enhance the visual aesthetic of any living space. The NICOR SureFit™ is the perfect solution for residential and light commercial spaces including living rooms, bedrooms, home theaters, corridors, office, retail and more.

#### Construction

- Aluminum housing routes heat away from electrical components
- Custom designed, integrated driver recesses into junction box
- CCT and Lumen selections switches on side of housing
- Interchangeable magnetic trims available in round, square, and wall wash

#### Optical System

- Polystyrene diffuser creates uniform distribution without sacrificing lumen output
- Offered with 3 lumen selections of 600, 750, and 900lm for downlight distributions
- Offered with 5 CCT selection of 2700K, 3000K, 3500K, 4000K, and 5000K

#### Electrical

- Driver-on-board design minimizes installation height
- Input voltage of 120VAC, 60Hz
- Dimmable to less than 5% with compatible leading edge (TRIAC) and trailing edge (ELV) dimmers
- Operating temperature rating of -4°F to 104°F (-20°C to 40°C)

#### Finish

- White powder coat finish standard
- Optional round and square trims available in Black and Oil-Rubbed Bronze
- Wall wash available in White, Black and Oil-Rubbed Bronze

#### Mounting and Installation

- Easy installation in metallic and non-metallic new construction junction boxes (see compatibility list for more information)
- Fixture mounts directly to J-Boxes with two screws
- Keyhole slots allow quick and easy installation
- Three three-port poke-in connectors included
- Removable trim allows for easy mounting while providing a seamless trim finish
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

#### Listings

- cULus 1598 Listed for wet locations
- ENERGYSTAR Listed
- CA Title 24/JA8 Compliant
- Suitable for use in closets: Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >54,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

#### Warranty

- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



**DLFv5**  
Surface Mount LED Downlight  
600/750/900 Lumen  
2700/3000/3500/4000/5000K



# Ordering

## Ordering Information

Example: DLF5S120S9WH

| Series | Version | Wattage                 | Voltage    | CCT's            | CRI       | Trim Color |
|--------|---------|-------------------------|------------|------------------|-----------|------------|
| DLF    | 5       | S (Selectable 8/10/12W) | 120 (120V) | S (27/3/35/4/5K) | 9 (90CRI) | WH (White) |

Specifications and dimensions subject to change without notice. Please refer to the website for the most up-to-date information.

## Accessories

Accessories sold separately

| Round                        |                 | Square                        |                 | Wall wash Kit                    |                   |
|------------------------------|-----------------|-------------------------------|-----------------|----------------------------------|-------------------|
| Round Black Trim             | DLF4-TRIM-RD-BK | Square Black Trim             | DLF4-TRIM-SQ-BK | Wall wash Black Trim             | DLF4-WW-KIT-RD-BK |
| Round Oil-Rubbed Bronze Trim | DLF4-TRIM-RD-OB | Square Oil-Rubbed Bronze Trim | DLF4-TRIM-SQ-OB | Wall wash Oil-Rubbed Bronze Trim | DLF4-WW-KIT-RD-OB |
| Round White Trim             | DLF4-TRIM-RD-WH | Square White Trim             | DLF4-TRIM-SQ-WH | Wall wash White Trim             | DLF4-WW-KIT-RD-WH |



### Recommended Dimmers\*

Lutron Diva DVCL-153P  
 Leviton IPL06  
 Legrand Adorne SoftTap  
 Lutron Caseta PD-6WCL  
 Lutron Skylark SCL-153P

### Housing Compatibility\*

| 4/O Metallic             | 4" Non-Metallic     |
|--------------------------|---------------------|
| Any of depth $\geq 1.5"$ | Carlton B620 series |
|                          | Arlington f426      |
|                          | Legrand S120 Series |
|                          | Allied 935X Series  |

\*Not a complete list. Check compatibility before installation.

## Performance Data

### Performance Data - Downlight

| Wattage | CCT   | Lumens | Watts | Lumens/Watt |
|---------|-------|--------|-------|-------------|
| 8W      | 2700K | 637    | 7.8   | 81.5        |
|         | 3000K | 675    | 8.0   | 85.0        |
|         | 3500K | 724    | 8.1   | 89.2        |
|         | 4000K | 717    | 8.0   | 89.1        |
|         | 5000K | 681    | 7.9   | 86.5        |
| 10W     | 2700K | 763    | 9.7   | 80.1        |
|         | 3000K | 787    | 9.9   | 84.6        |
|         | 3500K | 840    | 10.2  | 87.8        |
|         | 4000K | 824    | 10.0  | 88.4        |
|         | 5000K | 754    | 9.7   | 84.3        |
| 12W     | 2700K | 912    | 11.4  | 80.2        |
|         | 3000K | 971    | 11.6  | 83.8        |
|         | 3500K | 1054   | 12.0  | 88.2        |
|         | 4000K | 1018   | 11.7  | 86.8        |
|         | 5000K | 955    | 11.5  | 83.2        |

### Performance Data - Wall wash

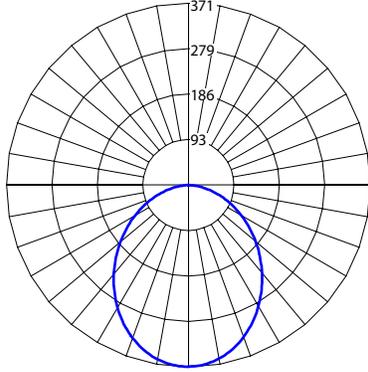
| Wattage | CCT   | Lumens | Watts | Lumens/Watt |
|---------|-------|--------|-------|-------------|
| 8W      | 2700K | 441    | 7.6   | 58.0        |
|         | 3000K | 455    | 7.4   | 61.5        |
|         | 3500K | 486    | 7.6   | 64.0        |
|         | 4000K | 477    | 7.6   | 62.8        |
|         | 5000K | 437    | 7.4   | 59.0        |
| 10W     | 2700K | 539    | 9.4   | 57.3        |
|         | 3000K | 556    | 9.1   | 61.1        |
|         | 3500K | 593    | 9.3   | 63.8        |
|         | 4000K | 582    | 9.3   | 62.6        |
|         | 5000K | 533    | 9.1   | 58.5        |
| 12W     | 2700K | 644    | 11.6  | 55.5        |
|         | 3000K | 664    | 11.3  | 58.8        |
|         | 3500K | 709    | 11.5  | 61.7        |
|         | 4000K | 696    | 11.5  | 60.5        |
|         | 5000K | 637    | 11.2  | 56.9        |

\*With round white trim

# Photometric Data

## DLF5 12W, 2700K Downlight Distribution

|                             |          |
|-----------------------------|----------|
| Input Voltage (VAC)         | 120V     |
| System Level Power (W)      | 11.38    |
| Delivered Lumens* (Lm)      | 912      |
| System Efficacy (Lm/W)      | 80.14    |
| Correlated Color Temp (K)   | 2676     |
| Color Rendering Index (CRI) | 93 R9=57 |
| Beam Angle                  | 98.3     |
| Spacing Criteria            | 1.17     |



| Intensity Summary<br>(Candle Power) |         |
|-------------------------------------|---------|
| Angle                               | Mean CP |
| 0                                   | 371     |
| 5                                   | 368     |
| 15                                  | 348     |
| 25                                  | 310     |
| 35                                  | 261     |
| 45                                  | 207     |
| 55                                  | 153     |
| 65                                  | 101     |
| 75                                  | 53      |
| 85                                  | 14      |
| 90                                  | 0       |

| Cone of Light Tabulation |                            |                    |
|--------------------------|----------------------------|--------------------|
| Mounted height<br>(Feet) | Footcandles<br>Beam Center | Diameter<br>(Feet) |
| 4                        | 23.2                       | 9.3                |
| 6                        | 10.3                       | 13.9               |
| 8                        | 5.8                        | 18.5               |
| 10                       | 3.7                        | 23.2               |
| 12                       | 2.6                        | 27.8               |

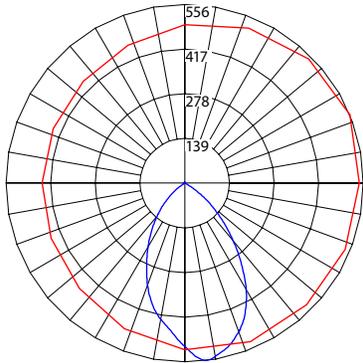
| Zonal Lumen Summary |        |                |
|---------------------|--------|----------------|
| Zone                | Lumens | % of Luminaire |
| 0-30                | 277    | 30.3%          |
| 0-40                | 441    | 48.4%          |
| 0-60                | 739    | 81.1%          |
| 0-90                | 912    | 100%           |
| 90-180              | 0      | 0%             |
| 0-180               | 912    | 100%           |

| Data Multiplier |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|
|                 | 2700K | 3000K | 3500K | 4000K | 5000K |
| 8W              | 0.685 | 0.707 | 0.755 | 0.741 | 0.678 |
| 10W             | 0.837 | 0.863 | 0.921 | 0.904 | 0.827 |
| 12W             | 1.000 | 1.064 | 1.155 | 1.116 | 1.047 |

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

## DLF5 12W, 2700K Wall wash Distribution

|                             |          |
|-----------------------------|----------|
| Input Voltage (VAC)         | 120V     |
| System Level Power (W)      | 11.6     |
| Delivered Lumens* (Lm)      | 644      |
| System Efficacy (Lm/W)      | 55.5     |
| Correlated Color Temp (K)   | 2718     |
| Color Rendering Index (CRI) | 93 R9=58 |
| Beam Angle (0°)             | 65.4     |
| Beam Angle (90°)            | 61.1     |
| Spacing Criteria (0°)       | 1.14     |
| Spacing Criteria (90°)      | 0.94     |



| Intensity Summary<br>(Candle Power) |         |
|-------------------------------------|---------|
| Angle                               | Mean CP |
| 0                                   | 508     |
| 5                                   | 549     |
| 15                                  | 526     |
| 25                                  | 445     |
| 35                                  | 309     |
| 45                                  | 170     |
| 55                                  | 58      |
| 65                                  | 1       |
| 75                                  | 0       |
| 85                                  | 0       |
| 90                                  | 0       |

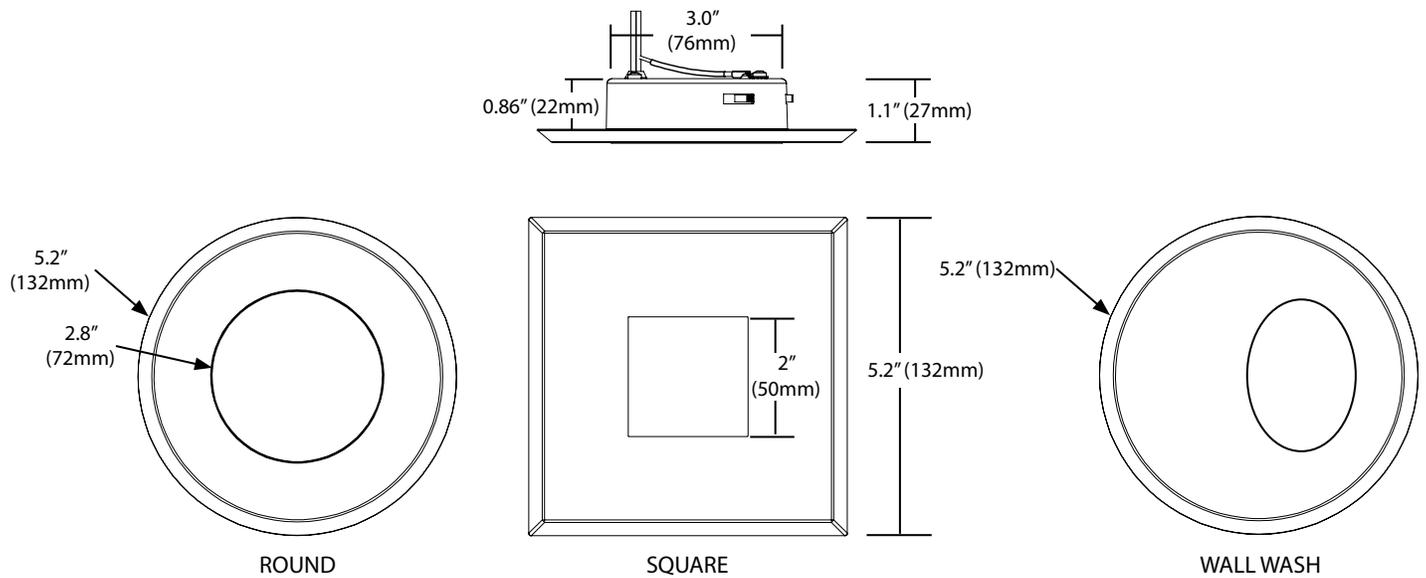
| Cone of Light Tabulation |                            |                    |
|--------------------------|----------------------------|--------------------|
| Mounted height<br>(Feet) | Footcandles<br>Beam Center | Diameter<br>(Feet) |
| 4                        | 32.1                       | 5.1                |
| 6                        | 14.4                       | 7.7                |
| 8                        | 8.2                        | 10.3               |
| 10                       | 5.3                        | 12.8               |
| 12                       | 3.7                        | 15.4               |

| Zonal Lumen Summary |        |                |
|---------------------|--------|----------------|
| Zone                | Lumens | % of Luminaire |
| 0-30                | 340    | 52.8%          |
| 0-40                | 492    | 76.3%          |
| 0-60                | 634    | 98.5%          |
| 0-90                | 644    | 100%           |
| 90-180              | 0      | 0%             |
| 0-180               | 644    | 100%           |

| Data Multiplier |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|
|                 | 2700K | 3000K | 3500K | 4000K | 5000K |
| 8W              | 0.685 | 0.707 | 0.755 | 0.741 | 0.678 |
| 10W             | 0.837 | 0.863 | 0.921 | 0.904 | 0.827 |
| 12W             | 1.000 | 1.031 | 1.101 | 1.081 | 0.989 |

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

## 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.