



**Lightolier LED Retrofit Downlight** provides an easy to install downlight solution with a great and modern look. Perfect option for existing ceilings or new constructions.



CCT with Select Switch

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Fixture

example: RD256R11E301W

| Family                 | Size                   | Lumens           | Dimming              | CCT   | Input Voltage | Finish                 |
|------------------------|------------------------|------------------|----------------------|---|---------------|------------------------|
| <b>RD2</b>             |                        |                  |                      |   |               | <b>W</b>               |
| RD2 Retrofit Downlight | <b>4R</b> 4in Round    | <b>8</b> 800lm   | <b>E</b> TRIAC to 5% | <b>30 SCT</b> <sup>1</sup> 3000K Field Selectable 5CCT (2700K, 3000K, 3500K, 4000K & 5000K) | <b>1</b> 120V | <b>W</b> White (matte) |
|                        | <b>56R</b> 5/6in Round | <b>11</b> 1100lm |                      |   |               |                        |

1. Default settings for selectable features: 4000K CCT.

### Accessories

|  |  |
|--|--|
| <b>RD4RN</b> Retrofit DL 4" Frame-in kit housing | <b>RD6RN</b> Retrofit DL 6" Frame-in kit housing |
| <b>RD4RR</b> Retrofit DL 4" Remodeler housing    | <b>RD6RR</b> Retrofit DL 6" Remodeler housing    |

### Features

- Flange:** Die cast aluminum.
- Junction Box:** Extruded aluminum steel.
- Lifetime:** L70 at 50,000 hours and backed by a 5-year warranty.
- Trim:** Baffle trim for a commercial and residential look
- Brackets:** Stainless steel inner friction brackets to secure downlight.
- Gasket:** Foam gasket supplied with the fixture.
- Connectors:** Quick connectors supplied with the fixture for ease of installation.

### Electronic

- Power supply:** RoHS compliant. Isolated driver, Class 2 Power Unit. Remote power supply can only accommodate one LED module and cannot be shared with other LED module.
- Dimming:** 120V versions are compatible with ELV/TRIAC (120V) dimmers. (Review our Dimmer Compatibility list for further information)

### Electrical

Electronic power supply:  
 RoHS compliant.  
 Class 2 driver  
 Dimming:  
 Intended for ELV/TRIAC (120V) dimming.

### Labels

ETL listed (UL 1598)  
 Wet location rated (covered ceiling)  
 IC rated for direct contact with thermal insulation.  
 Operating temperature: -30°C to 40°C  
 AirSeal for minimal air leakage.  
 ENERGY STAR® certified.  
 Title 24 compliant (JA8).  
 Warranty Lifetime: Expected lifetime 50,000 hours and backed by a 5-year warranty (<https://www.genlyte.com/en-us/support/warranties> for details).

|                        | Lumen Output | Input voltage | Input Freq | Max. Input current | Max. Input power | Max. THD | Power factor | CRI |
|------------------------|--------------|---------------|------------|--------------------|------------------|----------|--------------|-----|
| <b>4" Round 120V</b>   | 800lm        | 120V          | 60Hz       | 0.036A             | 9.3W             | 20%      | 0.9          | 90  |
| <b>5/6" Round 120V</b> | 1100lm       | 120V          | 60Hz       | 0.052A             | 12.7W            | 20%      | 0.9          | 90  |

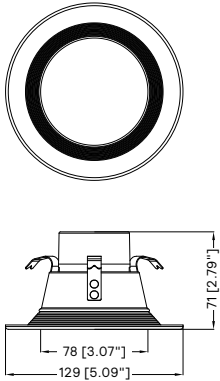
\* Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.

# RD Retrofit Downlight

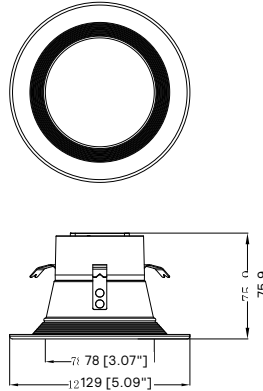
## Round 4" & 5/6" Apertures

### Dimensions

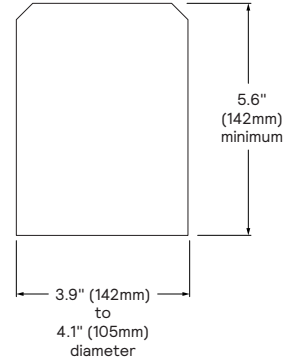
**Retrofit Downlight 4"**  
(Field Selectable)



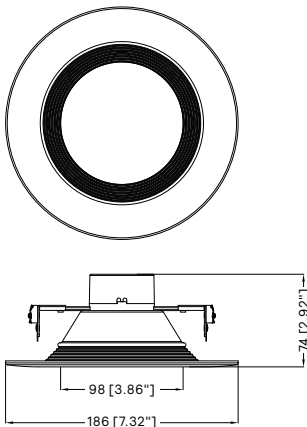
**Retrofit Downlight 4"**  
(3000K)



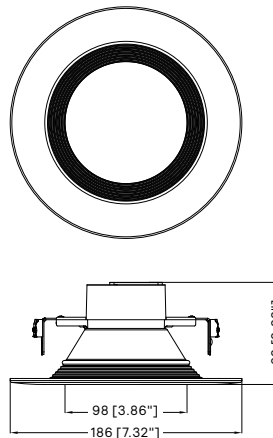
**Retrofit Downlight 4"**



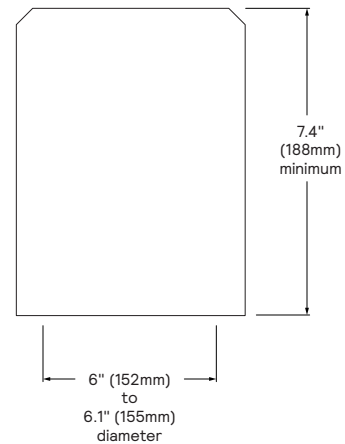
**Retrofit Downlight 5/6"**  
(Field Selectable)



**Retrofit Downlight 5/6"**  
(3000K)



**Retrofit Downlight 5/6"**

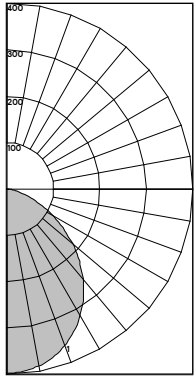


Note: All dimensions shown are in millimeters and inches

# RD Retrofit Downlight

## Round 4" & 5/6" Apertures

### Retrofit Downlight 4" Round



Fixture: **RD4R79SCT1W**

Output lumens: 871 lms  
 Input watts: 8.7 W  
 Efficacy: 99.7 lm/W  
 CRI: 90min  
 Spacing Criterion 1.2  
 Beam Angle: 95°

#### Zonal summary

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 299    | 34.3%      |
| 0-40 | 476    | 54.6%      |
| 0-60 | 771    | 88.5%      |
| 0-90 | 871    | 100.0%     |

| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 397     |        |
| 5     | 395     |        |
| 10    | 389     | 38     |
| 15    | 377     |        |
| 20    | 361     | 106    |
| 25    | 340     |        |
| 30    | 315     | 155    |
| 35    | 287     |        |
| 40    | 261     | 177    |
| 45    | 220     |        |
| 50    | 184     | 167    |
| 55    | 146     |        |
| 60    | 110     | 128    |
| 65    | 78      |        |
| 70    | 49      | 73     |
| 75    | 26      |        |
| 80    | 11      | 24     |
| 85    | 3       |        |
| 90    | 0       | 3      |

#### Single unit data

| Height to lighted plane | Initial center beam foot-candles | Beam diameter (ft)* |
|-------------------------|----------------------------------|---------------------|
| 5'                      | 16                               | 6.0'                |
| 6'                      | 11                               | 7.2'                |
| 7'                      | 8                                | 8.4'                |
| 8'                      | 6                                | 9.6'                |
| 9'                      | 5                                | 10.8'               |

#### Multiple unit data - RCR 2

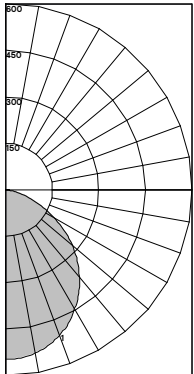
| Spacing on center | Initial center beam foot-candles | Watts per sq. ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 37.0                             | 0.39              |
| 6'                | 24.0                             | 0.25              |
| 7'                | 17.0                             | 0.18              |
| 8'                | 14.0                             | 0.15              |
| 9'                | 11.0                             | 0.12              |

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

#### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 105 | 99  | 100 | 96  | 97  | 93  | 88  |
|                   | 2   | 102 | 95  | 90  | 85  | 93  | 84  | 90  | 82  | 87  | 80  | 76  |
|                   | 3   | 94  | 85  | 78  | 72  | 84  | 72  | 81  | 71  | 78  | 69  | 66  |
|                   | 4   | 87  | 76  | 69  | 63  | 75  | 62  | 73  | 62  | 71  | 61  | 58  |
|                   | 5   | 81  | 69  | 61  | 55  | 68  | 55  | 66  | 54  | 64  | 54  | 51  |
|                   | 6   | 75  | 63  | 55  | 49  | 62  | 48  | 60  | 48  | 58  | 48  | 45  |
|                   | 7   | 70  | 57  | 49  | 43  | 56  | 43  | 55  | 43  | 54  | 43  | 41  |
|                   | 8   | 65  | 52  | 45  | 39  | 52  | 39  | 51  | 39  | 49  | 39  | 37  |
|                   | 9   | 61  | 48  | 41  | 35  | 48  | 35  | 47  | 35  | 46  | 35  | 33  |
|                   | 10  | 57  | 45  | 37  | 32  | 44  | 32  | 43  | 32  | 42  | 32  | 30  |

### Retrofit Downlight 5/6" Round



Fixture: **RD6R99SCT1W**

Output lumens: 1259 lms  
 Input watts: 12.7 W  
 Efficacy: 99.4 lm/W  
 CRI: 90 min  
 Spacing Criterion 1.2  
 Beam Angle: 98°

#### Zonal summary

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 414    | 32.9%      |
| 0-40 | 664    | 52.7%      |
| 0-60 | 1101   | 87.5%      |
| 0-90 | 1259   | 100.0%     |

| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0     | 549     |        |
| 5     | 547     |        |
| 10    | 537     | 52     |
| 15    | 523     |        |
| 20    | 503     | 146    |
| 25    | 477     |        |
| 30    | 444     | 216    |
| 35    | 409     |        |
| 40    | 369     | 250    |
| 45    | 326     |        |
| 50    | 280     | 243    |
| 55    | 228     |        |
| 60    | 175     | 194    |
| 65    | 125     |        |
| 70    | 78      | 114    |
| 75    | 39      |        |
| 80    | 15      | 37     |
| 85    | 4       |        |
| 90    | 0       | 5      |

#### Single unit data

| Height to lighted plane | Initial center beam foot-candles | Beam diameter (ft)* |
|-------------------------|----------------------------------|---------------------|
| 5'                      | 22                               | 6.0'                |
| 6'                      | 15                               | 7.2'                |
| 7'                      | 11                               | 8.4'                |
| 8'                      | 9                                | 9.6'                |
| 9'                      | 7                                | 10.8'               |

#### Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq. ft. |
|-------------------|----------------------------------|-------------------|
| 5'                | 52.0                             | 0.56              |
| 6'                | 34.0                             | 0.37              |
| 7'                | 25.0                             | 0.26              |
| 8'                | 21.0                             | 0.22              |
| 9'                | 16.0                             | 0.18              |

38' x 38' x 10' Room, Workplane 2 1/2' above floor, 80/50/20% Reflectances

#### Coefficients of utilization

| Ceiling           | 80%   |     |     |     | 70% |     | 50% |     | 30% |     | 0%  |     |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Wall              | 70  | 50  | 30  | 10  | 50  | 10  | 50  | 10  | 50  | 10  | 0   |     |
| RCR               | Zonal cavity method - Effective floor reflectance = 20% |     |     |     |     |     |     |     |     |     |     |     |
| Room Cavity Ratio | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 |
|                   | 1   | 111 | 107 | 103 | 100 | 104 | 98  | 100 | 95  | 96  | 92  | 88  |
|                   | 2   | 102 | 95  | 89  | 84  | 93  | 83  | 89  | 81  | 86  | 79  | 75  |
|                   | 3   | 94  | 84  | 77  | 71  | 83  | 71  | 80  | 70  | 77  | 68  | 65  |
|                   | 4   | 86  | 76  | 68  | 62  | 74  | 61  | 72  | 60  | 70  | 60  | 57  |
|                   | 5   | 80  | 68  | 60  | 54  | 67  | 54  | 65  | 53  | 63  | 52  | 50  |
|                   | 6   | 74  | 62  | 53  | 47  | 61  | 47  | 59  | 47  | 57  | 46  | 44  |
|                   | 7   | 69  | 56  | 48  | 42  | 55  | 42  | 54  | 42  | 53  | 42  | 39  |
|                   | 8   | 64  | 52  | 44  | 38  | 51  | 38  | 50  | 38  | 48  | 37  | 35  |
|                   | 9   | 60  | 47  | 40  | 34  | 47  | 34  | 46  | 34  | 45  | 34  | 32  |
|                   | 10  | 56  | 44  | 36  | 31  | 43  | 31  | 42  | 31  | 41  | 31  | 29  |

\* Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.