

# SD4DR / IC430

## 4" SD LED Downlight

|          |  |                |  |
|----------|--|----------------|--|
| JOB NAME |  | CATALOG NUMBER |  |
| NOTES    |  | TYPE           |  |

### ELECTRICAL DATA

| LED Light Engine | System Wattage* @ 120V | CCT   | Nominal Delivered Lumens** | Efficacy |
|------------------|------------------------|-------|----------------------------|----------|
| L0               | 8W                     | 3500K | 750 lm                     | 94 lm/W  |
| L1               | 10W                    | 3500K | 1000 lm                    | 103 lm/W |
| L2               | 14W                    | 3500K | 1500 lm                    | 110 lm/W |
| L3               | 19W                    | 3500K | 2000 lm                    | 108 lm/W |
| L4               | 23W                    | 3500K | 2500 lm                    | 111 lm/W |
| L5               | 28W                    | 3500K | 3000 lm                    | 110 lm/W |
| L6               | 33W                    | 3500K | 3500 lm                    | 109 lm/W |
| L7               | 38W                    | 3500K | 4000 lm                    | 108 lm/W |

\*System Wattage includes driver and LED Module consumption. | \*\*Delivered lumen output will vary depending on CCT selection.

### LED MODULE / OPTICS

- 80/90 CRI at 2700K, 3000K, 3500K, 4000K with 2 SDCM
- 70% lumen maintenance at 50,000 hours
- 30° Narrow Flood, 50° Flood or 70° Wide Flood

### ELECTRICAL SYSTEM

- Dedicated voltage options of 120V, 277V or 347V must be specified in catalog code.
- Phase dimming available in 120V only
- 347V available with Osram 0-10V 1% Dimming only

### REFLECTOR

Specification grade reflector with 1.2mm thickness. Architectural, discrete polished self flange standard. Optional painted white flange is available. Meets RP-1 requirements with controlled light distribution at a 50° cut off.

### DIMMING

- 0-10V Dimming 1%
- Phase Dimming 120V only, Forward 1% / Reverse 5%
- EldoLED 0-10V 0.1% or 1%
- Lutron® LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
- DMX512 RDM 0.1%

### FRAME CONSTRUCTION

Heavy duty galvanized steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling.

### INSTALLATION

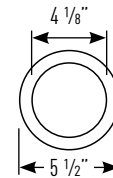
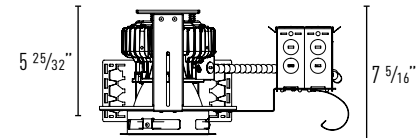
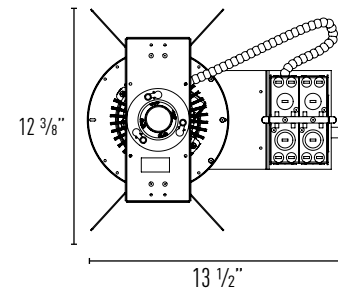
The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Maximum ceiling thickness is 1 1/4". Max. ambient temperature: 95°F (35°C).

### EMERGENCY BACKUP

External battery operates LED load of up to 7W at a minimum of 800 lumens for 90 minutes (EM7), or 20W at a minimum of 2300 lumens for 90 minutes (EM20). Available with remote or integral test switch, must specify.

### LISTING/WARRANTY

- ETL listed to US and Canadian standards for damp locations.
- 5-Year Intense LED Limited Warranty



Ceiling Cut Out: 4 3/4"  
Maximum Ceiling Thickness: 1 1/4"

Housing Part Number (Example: SD4DRL130-D101-NF)

| Housing | LED Module            | CCT / CRI            | Dimming                                       | Voltage                | Optic     | Options  |
|---------|-----------------------|----------------------|---|------------------------|-----------|--|
| SD4DR   | L0 <sup>1</sup> (8W)  | 27 (2700K / 80 CRI)  | -D101 (Osram 0-10V 1%)                        | blank (120V)           | -NF (30°) | EM7 (7W Emergency Backup with Remote Test Switch)                |
|         | L1 (10W)              | 279 (2700K / 90 CRI) | -DIM <sup>3,4</sup> (Phase Dimming)           | 27 (277V)              | -FL (50°) |  |
|         | L2 (14W)              | 30 (3000K / 80 CRI)  | -ED10V1 (eldoLED 0-10V 1%)                    | 34 <sup>7</sup> (347V) | -WF (70°) | EM7T (7W Emergency Unit with Integral Test Switch)               |
|         | L3 (19W)              | 309 (3000K / 90 CRI) | -ED10V01 (eldoLED 0-10V 0.1%)                 |                        |           | EM20 <sup>8</sup> (20W Emergency Backup with Remote Test Switch) |
|         | L4 (23W)              | 35 (3500K / 80 CRI)  | -LUT <sup>5</sup> (Lutron® LDE1 EcoSystem 1%) |                        |           |  |
|         | L5 (28W)              | 359 (3500K / 90 CRI) | -DMXR <sup>6</sup> (DMX512 RDM 0.1%)          |                        |           |  |
|         | L6 (33W)              | 40 (4000K / 80 CRI)  |   |                        |           |  |
|         | L7 <sup>2</sup> (38W) | 409 (4000K / 90 CRI) |   |                        |           |  |

Reflector Part Number (Example: IC430HZ-SF)

| Reflector | Reflector / Flange Finish         | Option                      | Accessories                   |
|-----------|-----------------------------------|-----------------------------|-------------------------------|
| IC430     | C-SF (Clear, Self-Flanged)        | W-SF (White, Self-Flanged)  | I100 (C-Channel Bar Hangers)  |
|           | C-SFW (Clear, Self-Flanged White) | B-SF (Black, Self-Flanged)  | I200 (Flat Bar Hangers)       |
|           | HZ-SF (Haze, Self-Flanged)        |                             | I400 (Wood Joist Bar Hangers) |
|           | HZ-SFW (Haze, Self-Flanged White) | EM7T (Integral Test Switch) |                               |

#### Notes:

- L0 only available with -D101
- 347V Not available with L7 option
- Not available in L1 and L2
- Not available in 277V
- Lutron not available in L1 and L7
- DMX512 RDM not available in L1 and L2
- 347V Only available with Osram 0-10V 1% Dimming
- 20W Emergency not available in L1, L2, and L3

SS-DOWNLIGHTING L/M-841.26 P-1

INTENSE LIGHTING | 3725 Landwehr Road, Northbrook, IL 60062 | tel 714 630-9877

For Intense Lighting's limited product warranty, go to [www.intenselighting.com](http://www.intenselighting.com). For a printed copy of the warranty, you may call 714 630-9877.

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# SD4DR / IC430

4" SD LED Downlight

|          |  |                |  |
|----------|--|----------------|--|
| JOB NAME |  | CATALOG NUMBER |  |
| NOTES    |  | TYPE           |  |

| Electrical Table |         |         |       |               |              |
|------------------|---------|---------|-------|---------------|--------------|
| Lumen Package    | Voltage | Wattage | VA    | Input Current | Power Factor |
| L0               | 120     | 7.43    | 7.99  | 0.07          | 0.930        |
|                  | 277     | 8.41    | 11.87 | 0.04          | 0.709        |
| L1               | 120     | 9.75    | 10.37 | 0.09          | 0.94         |
|                  | 277     | 10.82   | 14.18 | 0.05          | 0.76         |
| L2               | 120     | 13.71   | 14.35 | 0.12          | 0.96         |
|                  | 277     | 14.85   | 18.06 | 0.07          | 0.82         |
| L3               | 120     | 18.27   | 18.54 | 0.15          | 0.99         |
|                  | 277     | 19.77   | 22.92 | 0.08          | 0.86         |
| L4               | 120     | 22.74   | 23.04 | 0.19          | 0.99         |
|                  | 277     | 24.09   | 27.31 | 0.10          | 0.88         |
| L5               | 120     | 27.18   | 27.44 | 0.23          | 0.99         |
|                  | 277     | 28.93   | 32.00 | 0.12          | 0.90         |
| L6               | 120     | 32.76   | 32.84 | 0.27          | 1.00         |
|                  | 277     | 34.09   | 36.72 | 0.13          | 0.93         |
| L7               | 120     | 37.71   | 37.79 | 0.31          | 1.00         |
|                  | 277     | 38.86   | 41.77 | 0.15          | 0.93         |

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4" SD LED Downlight

|          |  |                |  |
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| NOTES    |  | TYPE           |  |

## SD4DRL135 IC430C

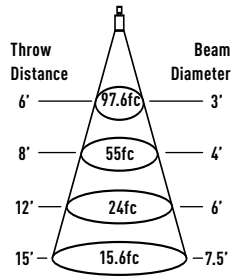
### CCT MULTIPLIERS:

|       | 80 CRI   | 90 CRI   |
|-------|----------|----------|
| 2700K | (x 0.92) | (x 0.79) |
| 3000K | (x 0.98) | (x 0.79) |
| 3500K | (x 1.00) | (x 0.82) |
| 4000K | (x 1.01) | (x 0.84) |

### FINISH MULTIPLIERS

|       | 30°      | 50°      | 60°      |
|-------|----------|----------|----------|
| Clear | (x 1.00) | (x 1.00) | (x 1.00) |
| Haze  | (x 0.96) | (x 0.96) | (x 0.88) |
| White | (x 0.96) | (x 0.97) | (x 0.90) |

### -NF (30° Narrow Flood)

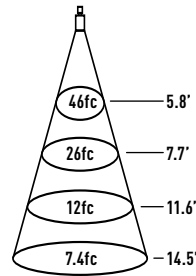


Footcandles at Nadir

Watts: 10      LPW: 100.8  
Lumens: 1008      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 3513 |
| 5°        | 3123 |
| 15°       | 1580 |
| 25°       | 485  |
| 35°       | 88   |
| 45°       | 5    |

### -FL (50° Flood)

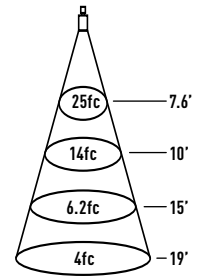


Footcandles at Nadir

Watts: 10      LPW: 107.7  
Lumens: 1077      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 1665 |
| 5°        | 1653 |
| 15°       | 1546 |
| 25°       | 915  |
| 35°       | 105  |
| 45°       | 5    |

### -WF (70° Wide Flood)



Footcandles at Nadir

Watts: 10      LPW: 99.4  
Lumens: 994      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 899  |
| 5°        | 984  |
| 15°       | 1084 |
| 25°       | 789  |
| 35°       | 320  |
| 45°       | 36   |

## SD4DRL235 IC430C

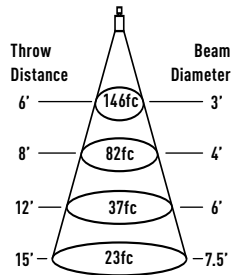
### CCT MULTIPLIERS:

|       | 80 CRI   | 90 CRI   |
|-------|----------|----------|
| 2700K | (x 0.92) | (x 0.79) |
| 3000K | (x 0.98) | (x 0.79) |
| 3500K | (x 1.00) | (x 0.82) |
| 4000K | (x 1.01) | (x 0.84) |

### FINISH MULTIPLIERS

|       | 30°      | 50°      | 70°      |
|-------|----------|----------|----------|
| Clear | (x 1.00) | (x 1.00) | (x 1.00) |
| Haze  | (x 0.96) | (x 0.96) | (x 0.88) |
| White | (x 0.96) | (x 0.97) | (x 0.90) |

### -NF (30° Narrow Flood)

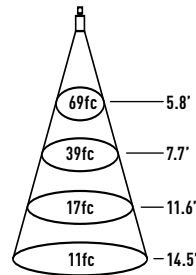


Footcandles at Nadir

Watts: 14      LPW: 107.9  
Lumens: 1511      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 5269 |
| 5°        | 4684 |
| 15°       | 2370 |
| 25°       | 727  |
| 35°       | 132  |
| 45°       | 7    |

### -FL (50° Flood)

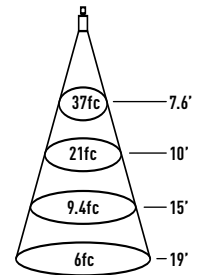


Footcandles at Nadir

Watts: 14      LPW: 115.4  
Lumens: 1616      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 2498 |
| 5°        | 2480 |
| 15°       | 2320 |
| 25°       | 1372 |
| 35°       | 158  |
| 45°       | 8    |

### -WF (70° Wide Flood)



Footcandles at Nadir

Watts: 14      LPW: 106.5  
Lumens: 1491      CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 1348 |
| 5°        | 1477 |
| 15°       | 1625 |
| 25°       | 1183 |
| 35°       | 480  |
| 45°       | 54   |

# SD4DR / IC430

4" SD LED Downlight

|          |  |                |  |
|----------|--|----------------|--|
| JOB NAME |  | CATALOG NUMBER |  |
| NOTES    |  | TYPE           |  |

## SD4DRL335 IC430C

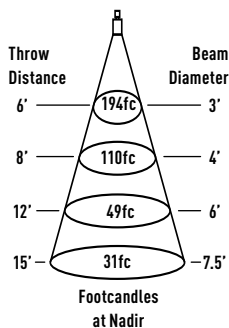
### CCT MULTIPLIERS:

|       | 80 CRI   | 90 CRI   |
|-------|----------|----------|
| 2700K | (x 0.92) | (x 0.79) |
| 3000K | (x 0.98) | (x 0.79) |
| 3500K | (x 1.00) | (x 0.82) |
| 4000K | (x 1.01) | (x 0.84) |

### FINISH MULTIPLIERS

|       | 30°      | 50°      | 70°      |
|-------|----------|----------|----------|
| Clear | (x 1.00) | (x 1.00) | (x 1.00) |
| Haze  | (x 0.96) | (x 0.96) | (x 0.88) |
| White | (x 0.96) | (x 0.97) | (x 0.90) |

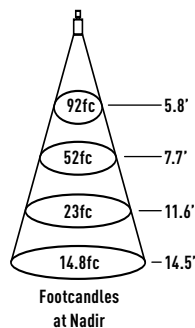
### -NF (30° Narrow Flood)



Watts: 19    LPW: 105.89  
Lumens: 2012    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 7014 |
| 5°        | 6234 |
| 15°       | 3155 |
| 25°       | 968  |
| 35°       | 176  |
| 45°       | 9    |

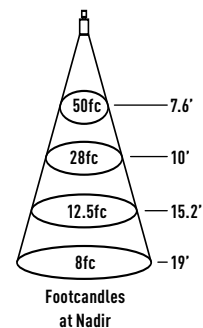
### -FL (50° Flood)



Watts: 19    LPW: 113.2  
Lumens: 2151    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 3324 |
| 5°        | 3300 |
| 15°       | 3087 |
| 25°       | 1826 |
| 35°       | 210  |
| 45°       | 11   |

### -WF (70° Wide Flood)



Watts: 19    LPW: 104.5  
Lumens: 1985    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 1794 |
| 5°        | 1965 |
| 15°       | 2164 |
| 25°       | 1575 |
| 35°       | 639  |
| 45°       | 72   |

## SD4DRL435 IC430C

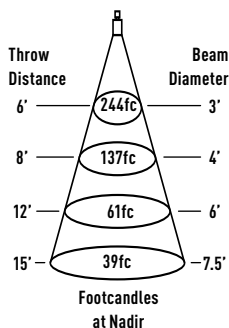
### CCT MULTIPLIERS:

|       | 80 CRI   | 90 CRI   |
|-------|----------|----------|
| 2700K | (x 0.92) | (x 0.79) |
| 3000K | (x 0.98) | (x 0.79) |
| 3500K | (x 1.00) | (x 0.82) |
| 4000K | (x 1.01) | (x 0.84) |

### FINISH MULTIPLIERS

|       | 30°      | 50°      | 70°      |
|-------|----------|----------|----------|
| Clear | (x 1.00) | (x 1.00) | (x 1.00) |
| Haze  | (x 0.96) | (x 0.96) | (x 0.88) |
| White | (x 0.96) | (x 0.97) | (x 0.90) |

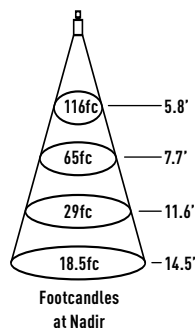
### -NF (30° Narrow Flood)



Watts: 23    LPW: 109.3  
Lumens: 2515    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 8770 |
| 5°        | 7795 |
| 15°       | 3945 |
| 25°       | 1210 |
| 35°       | 220  |
| 45°       | 12   |

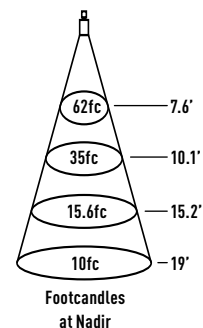
### -FL (50° Flood)



Watts: 23    LPW: 116.9  
Lumens: 2690    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 4157 |
| 5°        | 4127 |
| 15°       | 3861 |
| 25°       | 2283 |
| 35°       | 263  |
| 45°       | 13   |

### -WF (70° Wide Flood)



Watts: 23    LPW: 107.9  
Lumens: 2482    CCT: 3500K

| Luminance |      |
|-----------|------|
| Degree    | CBCP |
| 0°        | 2243 |
| 5°        | 2458 |
| 15°       | 2705 |
| 25°       | 1969 |
| 35°       | 799  |
| 45°       | 90   |