LITHONIA LIGHTING®

| Catalog Number | |
|---|---|
| Notes | |
| Type | |

# LDNRV

## FEATURES & SPECIFICATIONS

**INTENDED USE** — LED downlight for retrofit of installed commercial mounting frames with incandescent, compact fluorescent (CFL), or high intensity discharge (HID) sources.

**CONSTRUCTION** — Innovative housing design that simultaneously retains and centers the fixture in the existing mounting frame.

See table for compatible ceiling opening and thickness ranges.

All installation can be performed from the room side without removing the existing mounting frame.

**OPTICS** — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Multiple lumen packages to replace the installed base of CFL or HID sources with energy savings of 50%-80%. See Lumen Equivalency Chart.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

**ELECTRICAL** — Multi-volt (120-277V, 50/60Hz) eldoLED 0-10V dimming drivers available in 10% or 1% minimum dimming levels.

70% lumen maintenance at 60,000 hours.

**LISTINGS** — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

**Note:** Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

**Open and Wallwash LED RETROFIT**

A+ Capable options indicated by this color background.

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** LDN6RV 35/30 LR6AR LSS MVOLT EZ10

| Series | | Color temperature | | Lumens[1] | | | | Aperture/Trim Color | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LDN4RV | 4-5" retrofit | 27/ | 2700K | 05 | 500 lumens | 40 | 4000 lumens | LR | Downlight | 4 | 4-5" aperture | AR | Clear |
| LDN6RV | 6" retrofit | 30/ | 3000K | 10 | 1000 lumens | 50 | 5000 lumens | LRW | Wallwash | 6 | 6" aperture | WR[2] | White |
| LDN7RV | 7" retrofit | 35/ | 3500K | 15 | 1500 lumens | 60 | 6000 lumens | | | 7 | 7" aperture | BR[2] | Black |
| LDN8RV | 8" retrofit | 40/ | 4000K | 20 | 2000 lumens | 80 | 8000 lumens | | | 8 | 8" aperture | | |
| LDN9RV | 9" retrofit | 50/ | 5000K | 25 | 2500 lumens | 100 | 10000 lumens | | | 9 | 9" aperture | | |
| LDN10RV | 10" retrofit | | | 30 | 3000 lumens | 120 | 12000 lumens | | | 10 | 10" aperture | | |

| Finish | | Voltage | | Driver | | Options | | | |
|---|---|---|---|---|---|---|---|---|---|
| LSS | Semi-specular | MVOLT | Multi-volt | GZ10 | 0-10V driver dims to 10% | SF[3] | Single Fuse | LH[5] | Lower overall height |
| LD | Matte diffuse | 120 | 120V | GZ1 | 0-10V driver dims to 1% | TRW[4] | White painted flange | NLTAIR2[6,7,8,9] | nLight® Air enabled |
| LS | Specular | 277 | 277V | EZ1 | eldoLED 1% 0-10V | TRBL[4] | Black painted flange | NLTAIRER2[6,7,8] | nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit |
| | | | | | | | | NLTAIREM2[6,7,8] | nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options. |
| | | | | | | | | 90CRI | High CRI (90+) available with 5000lm and below |

**Accessories:** *Order as separate catalog number.*

| | |
|---|---|
| RK2 SDT 347/120 75VA U | 347V step-down transformer mounted in box installed by others up to 5000lm |
| LDN_RVRGINIFB | Install from below rough-in frame. Fill in the blank with appropriate aperture size (Example: LDN6RVRGIN IFB).Refer to pg. 7 |
| LDN_RVRGIN | New Construction rough-in frame. Fill in blank with appropriate aperture size (Example: LDN6RVRGIN). Refer to pg. 8 |
| nPP16 D EFP[3] | nLight network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). |
| nPP16 D ER EFP[3] | nLight network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit. |
| NPS80EZ | nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ10). |
| NPS80EZER | nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency |

**Notes**

1. Refer to Available Lumen Package Table for lumen range available per aperture size. 8"-10" trims utilize different trims based on lumen package selected. 5000lm and below supplied with low lumen ("LL") trim; 6000lm and above with high lumen ("HL") trim.
2. Not available with finishes.
3. Must specify voltage 120V or 277V.
4. Available with clear (AR) trim color only.
5. Select LH option for lower overall height. Consult table on Page 2 and dimensional drawings.
6. Not available with ELV, CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
7. NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
8. NLTAIR2, NLTAIRER2 and NLTAIREM2 refer to nLight AIR Max Lumens Table.
9. When combined with EZ1 or EZ10 drivers, can be used as a normal power sensing device for nLight AIR devices and luminaires with EM options

# LDNRV

| Available Lumen Package Table | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Series | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 |
| LDN4RV | | | | | | | | | | | | |
| LDN6RV | | | | | | | | | | | | |
| LDN7RV | | | | | | | | | | | | |
| LDN8RV | | | | | | | | | | | | |
| LDN9RV | | | | | | | | | | | | |
| LDN10RV | | | | | | | | | | | | |
| Approx. LED Wattage | 8.5W | 13W | 20W | 23W | 30W | 35W | 44W | 55W | 68W | 98W | 117W | 146W |
| Comparable Fluorescent | 18W | 26W | 32W | 1/42W 2/26W | 2/32W 1/57W | >2/32W | 2/42W | 2/57W | | | | |
| Comparable HID | | | | | 50W | 70W | | | 100W | 150W | >175W | 250W |
| Comparable Incandescent | 65W BR30 | 120W BR40 | 150W A21 | 200W A21 | | 300W BR40 | | | | | | |
| Comparable Halogen PAR | 50W | 75W | 90W | 100W | | | | | | | | |

| Dimensions* | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Series | Standard Height Max Lumens | Standard Height | LH Height Max Lumens | LH Height | Min Ceiling Opening | Ceiling Thickness at Min Opening | Max Ceiling Opening | Ceiling Thickness at Max Opening | Reflector Aperture | Reflector Flange Diameter |
| LDN4RV | 2000LM | 7-1/4" | N/A | N/A | 4-7/8" | 1/2"-1-1/2" | 5-1/8" | 1/2"-1-1/2" | 4-5/8" | 5-3/8" |
| LDN6RV | 3000LM | 8-1/4" | 1500LM | 6-1/2" | 6" | 1/2" - 2" | 6-7/8" | 1"-2" | 5-1/4" | 7-3/16" |
| LDN7RV | 5000LM | 8-7/8" | N/A | N/A | 6-7/8" | 1/2" - 2" | 7-3/4" | 1"-2" | 6-1/4" | 8-1/16" |
| LDN8RV | 12,000LM | 13 11/16" | 5000LM | 8-5/8" + | 7-7/8" | 1/2" - 2" | 8-3/4" | 3/4"-2" | 7" | 9-3/16" |
| LDN9RV | 12,000LM | 13 11/16" | 4000LM | 9-1/2" | 8-7/8" | 1/2" - 2" | 9-7/8" | 3/4"-2" | 8-1/4" | 11-7/16" |
| LDN10RV | 12,000LM | 13 11/16" | 4000LM | 9-1/2" | 9-3/4" | 3/4"-2" | 10-3/4" | 1"-2" | 8-1/4" | 11-7/16" |

* All dimensions are inches + LH height 9-7/8" for 5000LM +Max ceiling thickness with NLTAIR2 option is 1.5"

| NLIGHT AIR MAX LUMENS TABLE | | |
|---|---|---|
| | Without LH Option | With LH Option |
| LDN4RV | 2000lm | N/A |
| LDN6RV | 3000lm | 1500lm |
| LDN7RV | 5000lm | N/A |
| LDN8RV | 5000lm | 5000lm |
| LDN9RV | 5000lm | 4000lm |
| LDN10RV | 5000lm | 4000lm |


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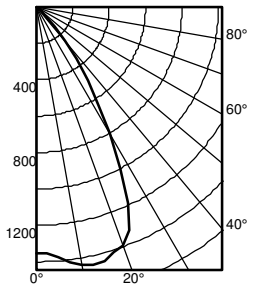
## PHOTOMETRY

| Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire |
|---|---|---|---|---|

### LDN4RV 35/10 LR4AR LS, input watts: 10.58, delivered lumens: 1085.2, LM/W=102.57, Spacing criterion at 0=1.04. ISF 30712P544



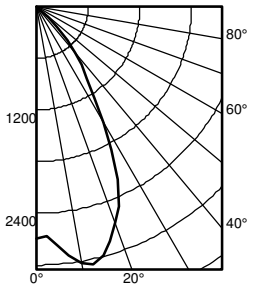

| | Ave | Lumens |
|---|---|---|
| 0 | 1353 | |
| 5 | 1382 | 134 |
| 15 | 1442 | 405 |
| 25 | 1191 | 525 |
| 35 | 491 | 308 |
| 45 | 69 | 68 |
| 55 | 1 | 2 |
| 65 | 1 | 1 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 1064.0 | 73.7 |
| 0° - 40° | 1372.4 | 95.1 |
| 0° - 60° | 1443.1 | 100.0 |
| 0° - 90° | 1443.8 | 100.0 |
| 90° - 120° | 0.0 | 0.0 |
| 90° - 130° | 0.0 | 0.0 |
| 90° - 150° | 0.0 | 0.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 1443.8 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 20% | | | 20% | | | 20% | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 109 | 107 | 105 | 105 | 103 | 101 |
| 2 | 103 | 99 | 96 | 102 | 98 | 95 | 98 | 95 | 93 |
| 3 | 96 | 92 | 88 | 95 | 91 | 87 | 92 | 89 | 86 |
| 4 | 90 | 85 | 81 | 89 | 84 | 80 | 87 | 83 | 79 |
| 5 | 85 | 79 | 75 | 84 | 78 | 74 | 82 | 77 | 74 |
| 6 | 79 | 73 | 69 | 79 | 73 | 69 | 77 | 72 | 68 |
| 7 | 75 | 69 | 64 | 74 | 68 | 64 | 73 | 68 | 64 |
| 8 | 70 | 64 | 60 | 70 | 64 | 60 | 69 | 63 | 60 |
| 9 | 66 | 60 | 56 | 66 | 60 | 56 | 65 | 60 | 56 |
| 10 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 |

| Mounting Height | Inital FC Center Beam | 50% beam - 55.6° Diameter | 50% beam - 55.6° FC | 10% beam - 78.0° Diameter | 10% beam - 78.0° FC |
|---|---|---|---|---|---|
| 8.0 | 44.7 | 5.8 | 22.4 | 8.9 | 4.5 |
| 10.0 | 24.1 | 7.9 | 12.0 | 12.2 | 2.4 |
| 12.0 | 15.0 | 10.0 | 7.5 | 15.4 | 1.5 |
| 14.0 | 10.2 | 12.1 | 5.1 | 18.6 | 1.0 |
| 16.0 | 7.4 | 14.2 | 3.7 | 21.9 | 0.7 |

### LDN7RV 35/15 LR7AR LS, input watts: 17.52, delivered lumens: 1521.9, LM/W=86.86, Spacing criterion at 0=0.96. ISF 33918P308



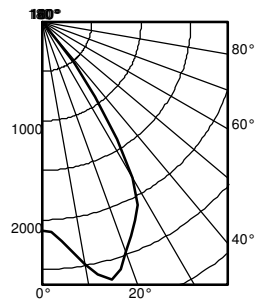

| | Ave | Lumens |
|---|---|---|
| 0 | 2693 | |
| 5 | 2782 | 274 |
| 15 | 2984 | 827 |
| 25 | 2212 | 991 |
| 35 | 1014 | 659 |
| 45 | 339 | 268 |
| 55 | 4 | 12 |
| 65 | 2 | 2 |
| 75 | 1 | 1 |
| 85 | 0 | 0 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 2092.2 | 69.0 |
| 0° - 40° | 2751.0 | 90.7 |
| 0° - 60° | 3030.8 | 99.9 |
| 0° - 90° | 3033.9 | 100.0 |
| 90° - 120° | 0.0 | 0.0 |
| 90° - 130° | 0.0 | 0.0 |
| 90° - 150° | 0.0 | 0.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 3033.9 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 20% | | | 20% | | | 20% | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 109 | 106 | 104 | 104 | 103 | 101 |
| 2 | 103 | 99 | 95 | 101 | 97 | 94 | 98 | 95 | 92 |
| 3 | 96 | 91 | 87 | 94 | 90 | 86 | 92 | 88 | 85 |
| 4 | 89 | 84 | 79 | 88 | 83 | 79 | 86 | 81 | 78 |
| 5 | 83 | 77 | 73 | 82 | 77 | 73 | 81 | 76 | 72 |
| 6 | 78 | 72 | 68 | 77 | 72 | 67 | 76 | 71 | 67 |
| 7 | 73 | 67 | 63 | 73 | 67 | 63 | 71 | 66 | 62 |
| 8 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 |
| 9 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 |
| 10 | 61 | 55 | 51 | 61 | 55 | 51 | 60 | 55 | 51 |

| Mounting Height | Inital FC Center Beam | 50% beam - 54.5° Diameter | 50% beam - 54.5° FC | 10% beam - 82.2° Diameter | 10% beam - 82.2° FC |
|---|---|---|---|---|---|
| 8.0 | 89.0 | 5.7 | 44.5 | 9.6 | 8.9 |
| 10.0 | 47.9 | 7.7 | 23.9 | 13.1 | 4.8 |
| 12.0 | 29.8 | 9.8 | 14.9 | 16.6 | 3.0 |
| 14.0 | 20.4 | 11.8 | 10.2 | 20.1 | 2.0 |
| 16.0 | 14.8 | 13.9 | 7.4 | 23.6 | 1.5 |

### LDN8RV 35/30 LR8AR LS, input watts: 34.75, delivered lumens: 2641, LM/W=67.36, Spacing criterion at 0=1.18. ISF 192189P104




| | Ave | Lumens |
|---|---|---|
| 0 | 2111 | |
| 5 | 2223 | 221 |
| 15 | 2701 | 738 |
| 25 | 2208 | 1006 |
| 35 | 927 | 590 |
| 45 | 58 | 67 |
| 55 | 17 | 15 |
| 65 | 2 | 2 |
| 75 | 1 | 1 |
| 85 | 0 | 0 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 1965.5 | 74.4 |
| 0° - 40° | 2555.6 | 96.8 |
| 0° - 60° | 2637.1 | 99.9 |
| 0° - 90° | 2640.7 | 100.0 |
| 90° - 120° | 0.0 | 0.0 |
| 90° - 130° | 0.0 | 0.0 |
| 90° - 150° | 0.0 | 0.0 |
| 90° - 180° | 0.3 | 0.0 |
| 0° - 180° | 2641.0 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 70% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 20% | | | 20% | | | 20% | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 109 | 107 | 105 | 105 | 103 | 101 |
| 2 | 103 | 99 | 96 | 102 | 98 | 95 | 98 | 95 | 93 |
| 3 | 96 | 92 | 88 | 95 | 91 | 87 | 92 | 89 | 86 |
| 4 | 90 | 85 | 81 | 89 | 84 | 80 | 87 | 83 | 79 |
| 5 | 84 | 79 | 74 | 84 | 78 | 74 | 82 | 77 | 73 |
| 6 | 79 | 73 | 69 | 78 | 73 | 69 | 77 | 72 | 68 |
| 7 | 74 | 69 | 64 | 74 | 68 | 64 | 73 | 68 | 64 |
| 8 | 70 | 64 | 60 | 70 | 64 | 60 | 68 | 63 | 60 |
| 9 | 66 | 60 | 56 | 66 | 60 | 56 | 65 | 60 | 56 |
| 10 | 62 | 57 | 53 | 62 | 56 | 53 | 61 | 56 | 53 |

| Mounting Height | Inital FC Center Beam | 50% beam - 61.8° Diameter | 50% beam - 61.8° FC | 10% beam - 76.6° Diameter | 10% beam - 76.6° FC |
|---|---|---|---|---|---|
| 8.0 | 69.8 | 6.6 | 34.9 | 8.7 | 7.0 |
| 10.0 | 37.5 | 9.0 | 18.8 | 11.8 | 3.8 |
| 12.0 | 23.4 | 11.4 | 11.7 | 15.0 | 2.3 |
| 14.0 | 16.0 | 13.8 | 8.0 | 18.2 | 1.6 |
| 16.0 | 11.6 | 16.2 | 5.8 | 21.3 | 1.2 |

| LUMEN OUTPUT MULTIPLIERS - FINISH | | | |
|---|---|---|---|
| | Clear (AR) | White (WR) | Black (BR) |
| Specular (LS) | 1.0 | N/A | N/A |
| Semi-specular (LSS) | 0.950 | N/A | N/A |
| Matte diffuse (LD) | 0.85 | N/A | N/A |
| Painted | N/A | 0.87 | 0.73 |

| LUMEN OUTPUT MULTIPLIERS - CCT | | | | |
|---|---|---|---|---|
| | 2700K | 3000K | 3500K | 4000K |
| 80CRI | 0.950 | 0.966 | 1.000 | 1.025 |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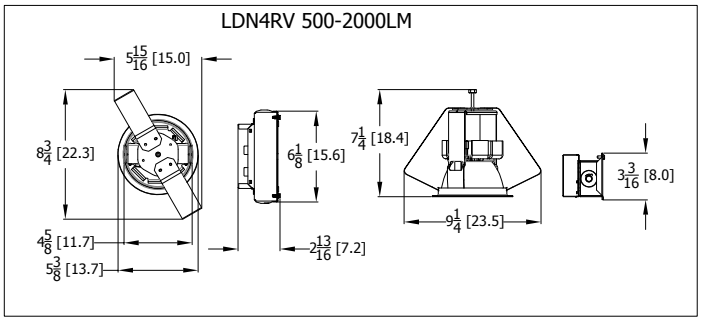
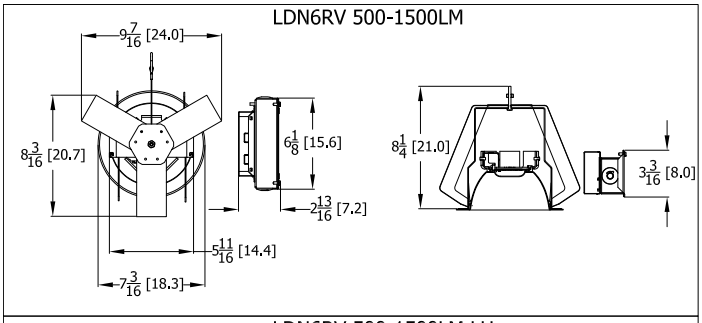
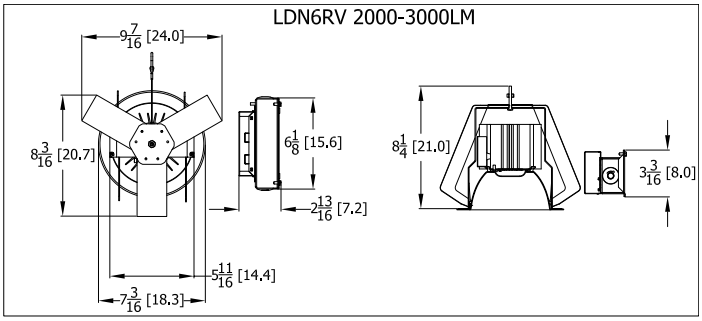
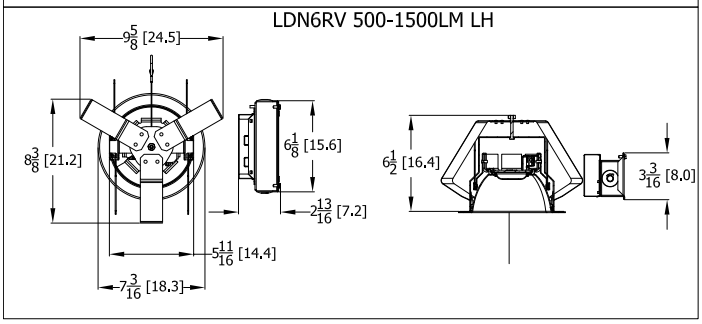
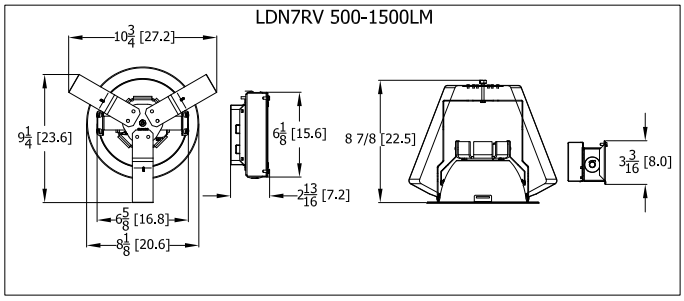
## LDN4RV

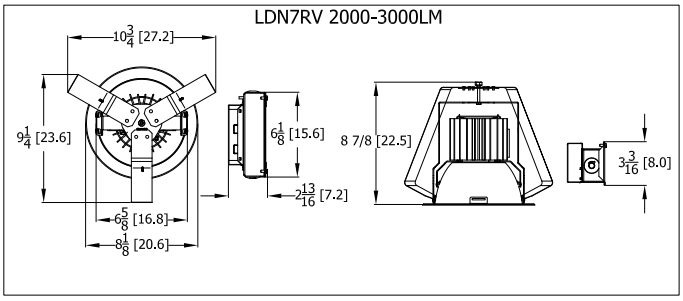


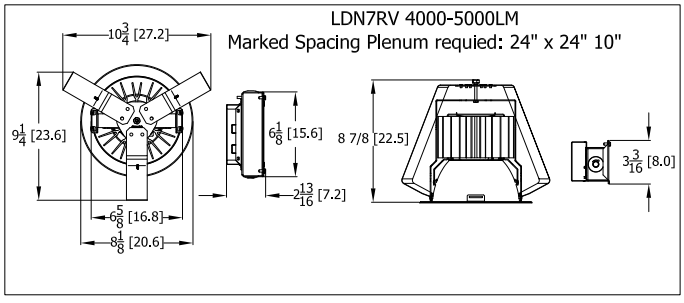





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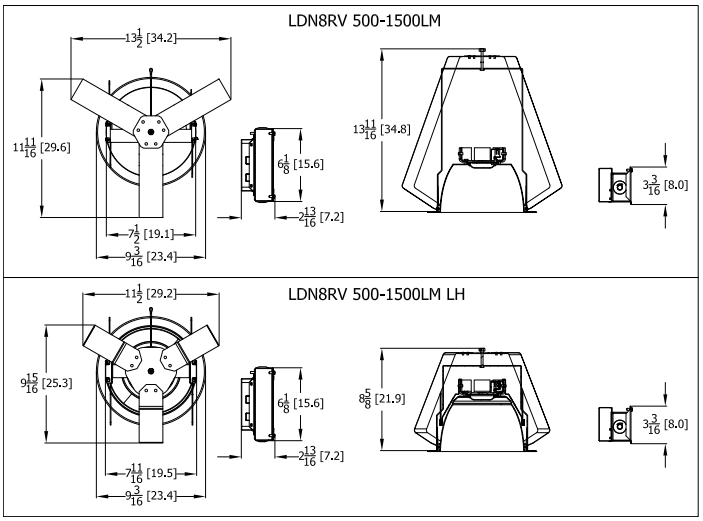
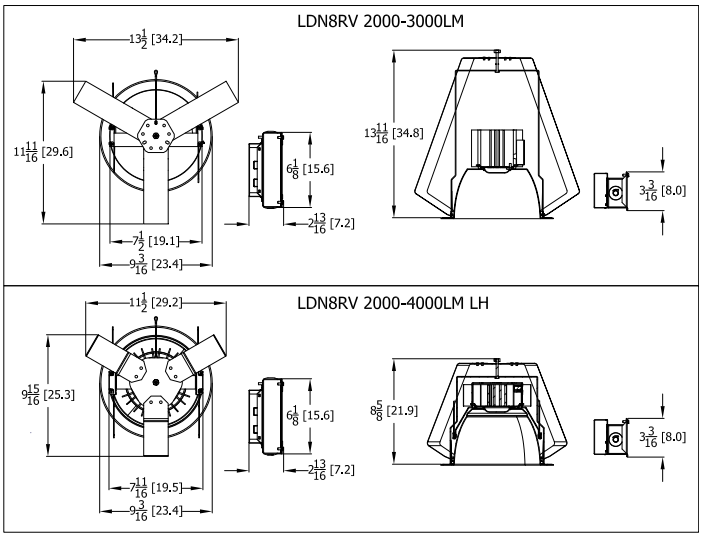
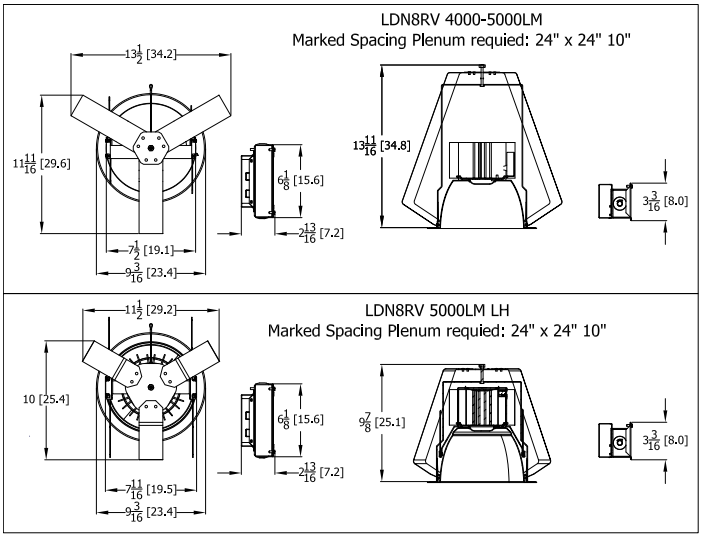
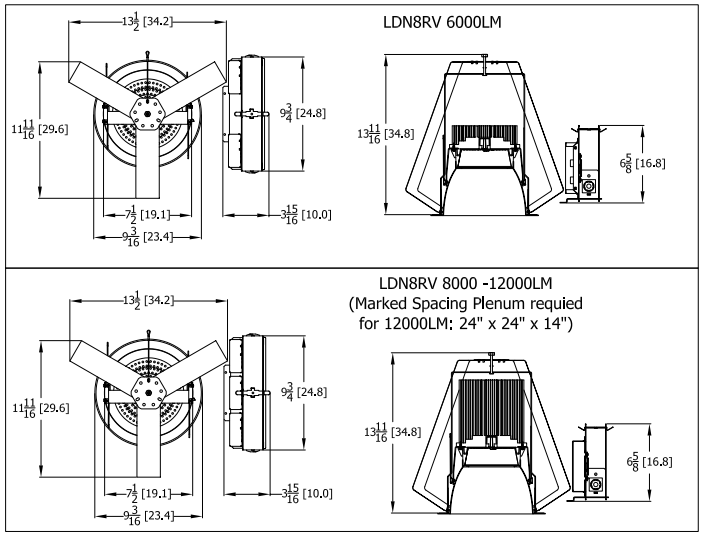
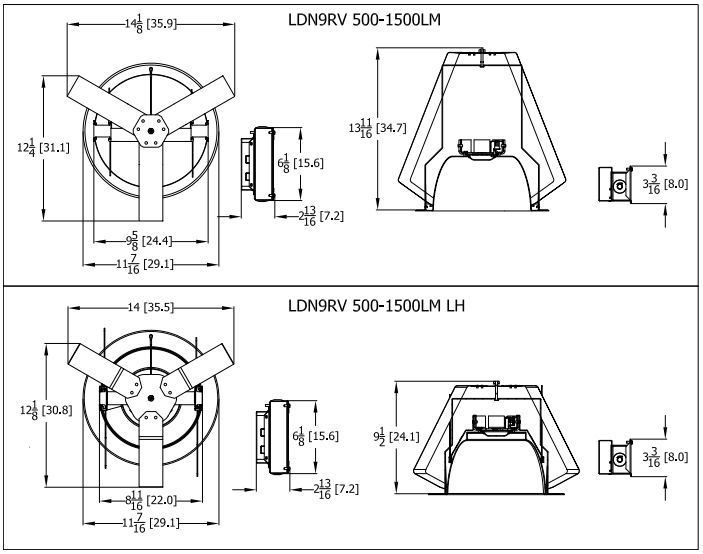
# LDNRV

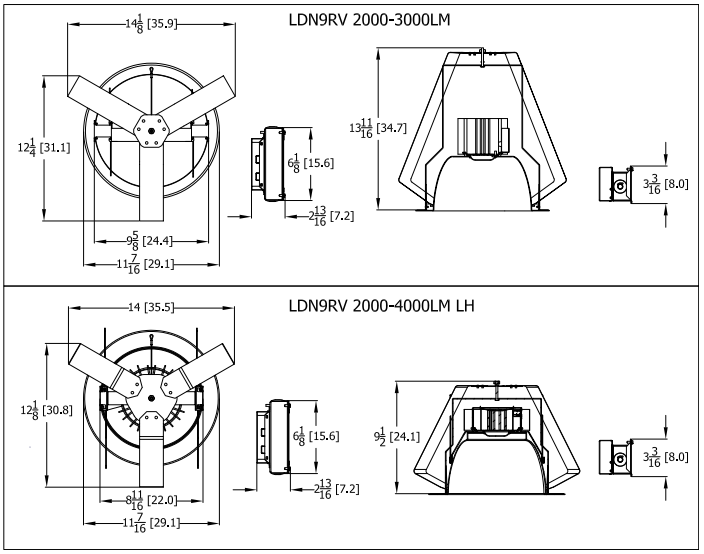




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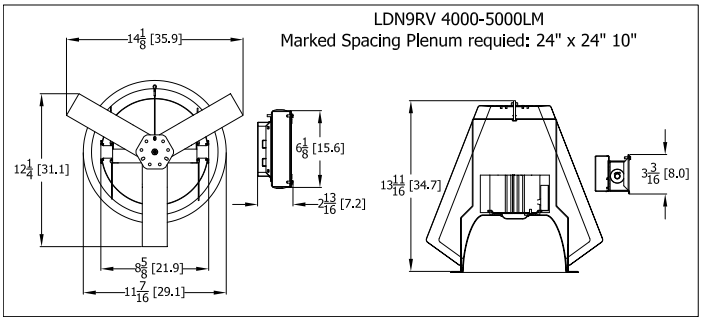
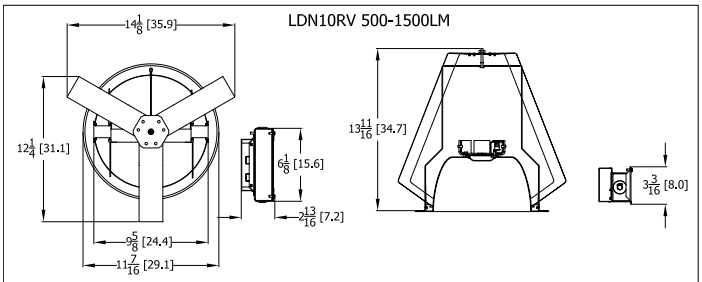
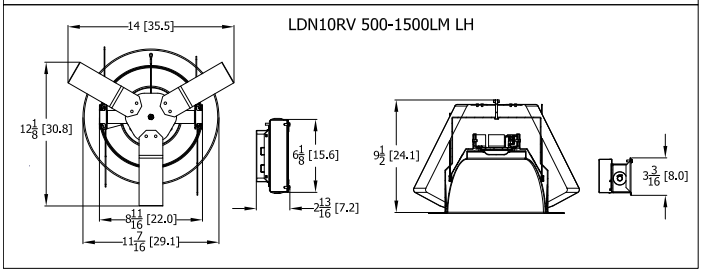
LDN9RV 4000-5000LM
Marked Spacing Plenum requied: 24" x 24" 10"



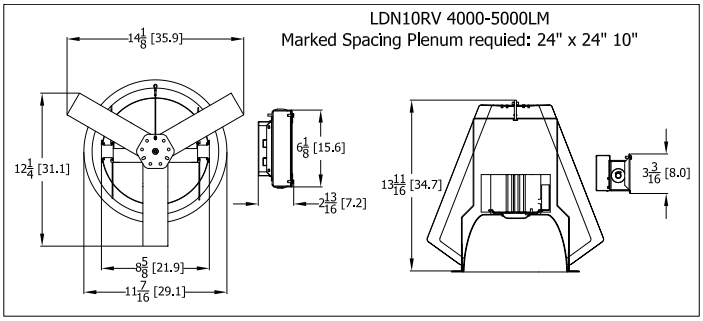

LDN10RV 500-1500LM



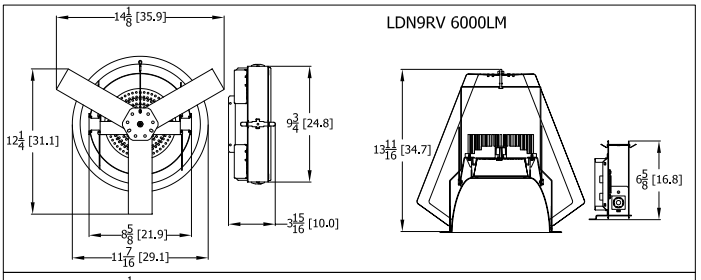

LDN10RV 500-1500LM LH



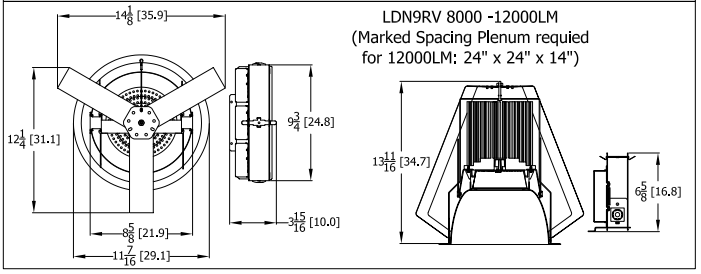

LDN10RV 4000-5000LM
Marked Spacing Plenum requied: 24" x 24" 10"



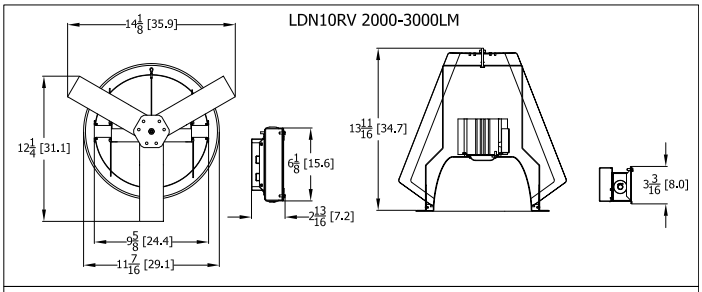

LDN9RV 6000LM



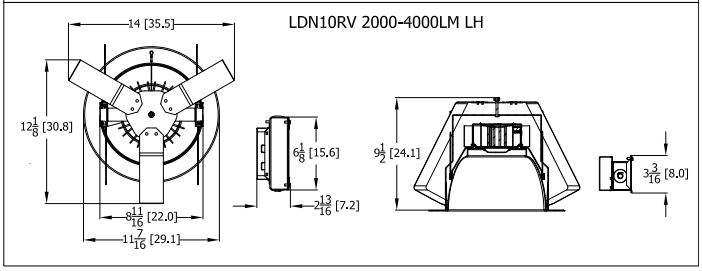

LDN9RV 8000 -12000LM
(Marked Spacing Plenum requied
for 12000LM: 24" x 24" x 14")



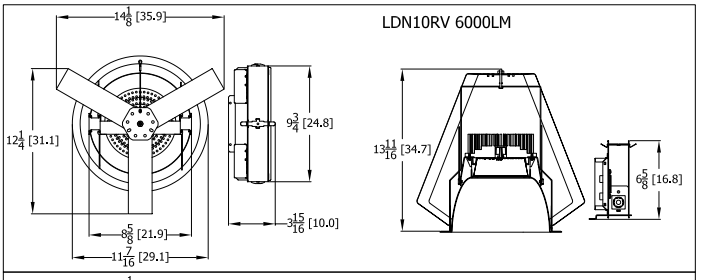

LDN10RV 2000-3000LM



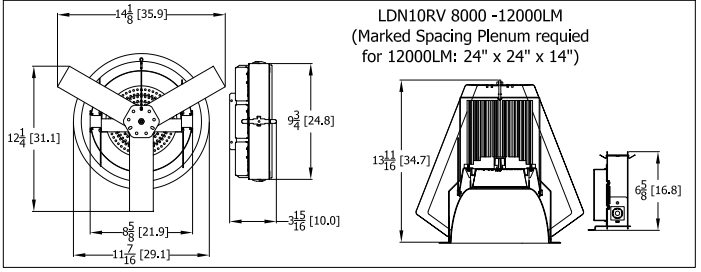

LDN10RV 2000-4000LM LH




LDN10RV 6000LM




LDN10RV 8000 -12000LM
(Marked Spacing Plenum requied
for 12000LM: 24" x 24" x 14")



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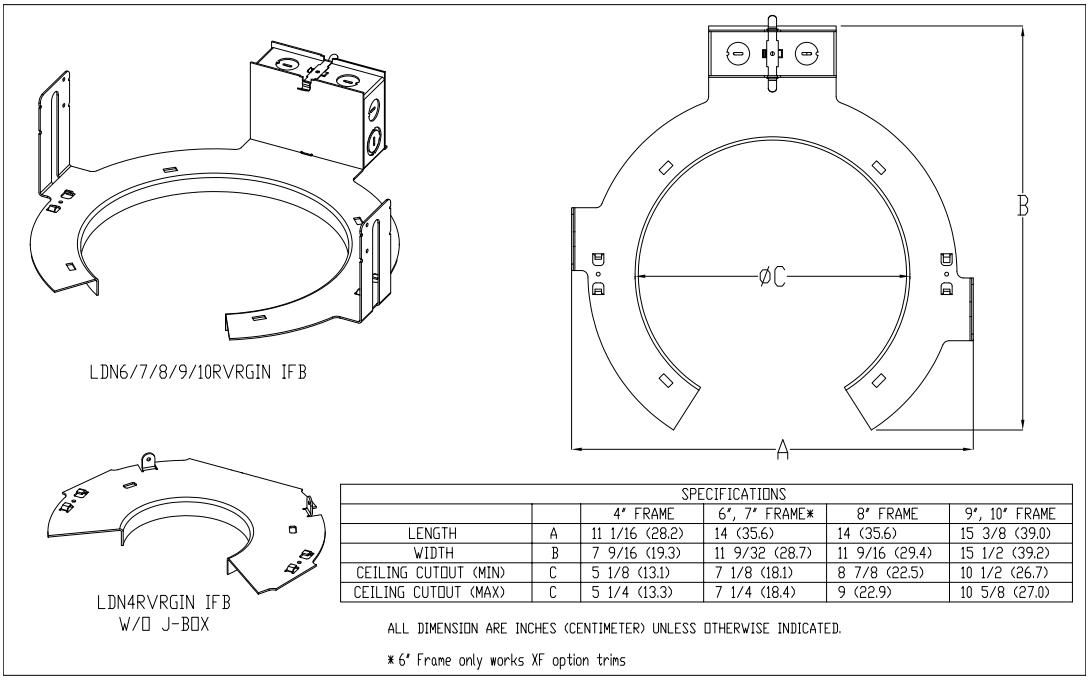
| SPECIFICATIONS FOR LDN RVRGIN IFB | | | | | |
|---|---|---|---|---|---|
| | | 4" FRAME | 6, 7" FRAME * | 8" FRAME | 9, 10" FRAME |
| | | LDN4RVRGIN IFB | LDN6RVRGIN IFB | LDN8RVRGIN IFB | LDN9/10RVRGIN IFB |
| LENGTH | A | 11 1/16 (28.2) | 14 (35.6) | 14 (35.6) | 15 3/8 (39.0) |
| WIDTH | B | 7 9/16 (19.3) | 11 9/32 (28.7) | 11 9/16 (29.4) | 15 1/2 (39.2) |
| CEILING CUTOUT (MIN) | C | 5 1/8 (13.1) | 7 1/8 (18.1) | 8 7/8 (22.5) | 10 1/2 (26.7) |
| CEILING CUTOUT (MAX) | D | 5 1/4 (13.3) | 7 1/4 (18.4) | 9 (22.9) | 10 5/8 (27.0) |

ALL DIMINSIONS ARE INCHES (CENTIMETER) UNLESS OTHERWISE INDICATED.




| SPECIFICATIONS | | | | | |
|---|---|---|---|---|---|
| | | 4" FRAME | 6", 7" FRAME* | 8" FRAME | 9", 10" FRAME |
| LENGTH | A | 11 1/16 (28.2) | 14 (35.6) | 14 (35.6) | 15 3/8 (39.0) |
| WIDTH | B | 7 9/16 (19.3) | 11 9/32 (28.7) | 11 9/16 (29.4) | 15 1/2 (39.2) |
| CEILING CUTOUT (MIN) | C | 5 1/8 (13.1) | 7 1/8 (18.1) | 8 7/8 (22.5) | 10 1/2 (26.7) |
| CEILING CUTOUT (MAX) | C | 5 1/4 (13.3) | 7 1/4 (18.4) | 9 (22.9) | 10 5/8 (27.0) |

ALL DIMENSION ARE INCHES (CENTIMETER) UNLESS OTHERWISE INDICATED.

* 6" Frame only works XF option trims



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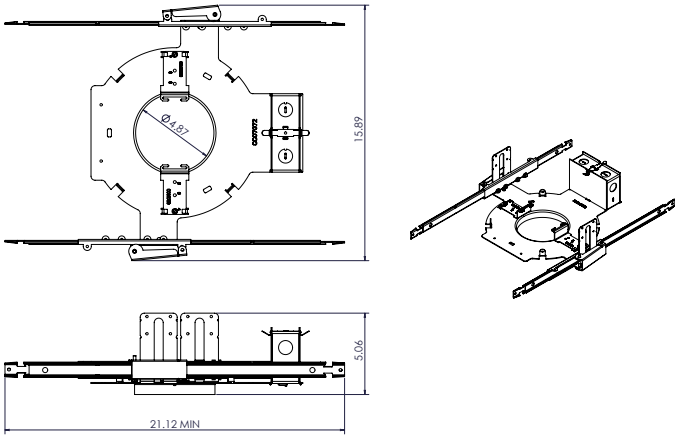
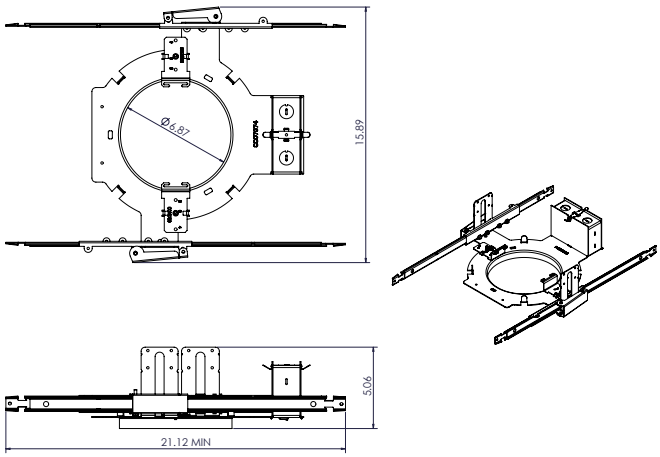
| SPECIFICATIONS FOR LDN RVRGIN | | | | | |
|---|---|---|---|---|---|
| | | 4" FRAME | 6, 7" FRAME * | 8" FRAME | 9, 10" FRAME |
| | | LDN4RVRGIN | LDN6RVRGIN | LDN8RVRGIN | LDN9/10RVRGIN |
| LENGTH | A | 21 1/8 (53.6) | 21 1/8 (53.6) | 21 1/8 (53.6) | 21 1/8 (53.6) |
| WIDTH | B | 15 7/8 (40.4) | 15 7/8 (40.4) | 15 7/8 (40.4) | 17 1/4 (43.8) |
| CEILING CUTOUT (MIN) | C | 5 1/8 (13.1) | 7 1/8 (18.1) | 8 7/8 (22.5) | 10 1/2 (26.7) |
| CEILING CUTOUT (MAX) | D | 5 1/4 (13.3) | 7 1/4 (18.4) | 9 (22.9) | 10 5/8 (27.0) |

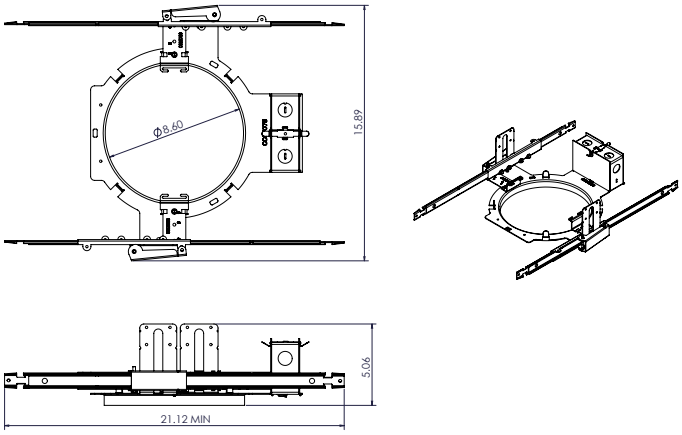
ALL DIMINSIONS ARE INCHES (CENTIMETER) UNLESS OTHERWISE INDICATED.



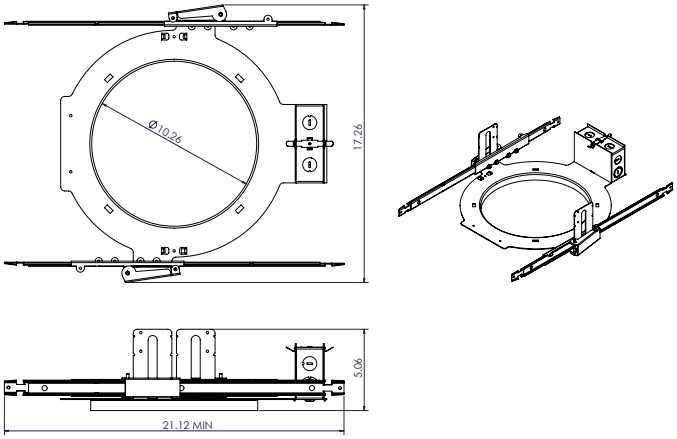

LDN4RVRGIN




LDN6/7RVRGIN




LDN8RVRGIN




LDN9/10RVRGIN



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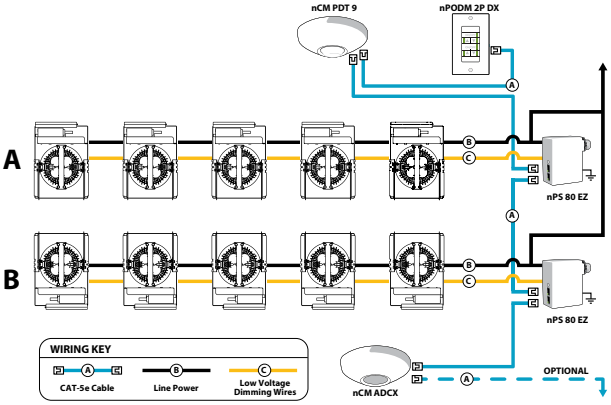
# LDNRV

**Choose Wall Controls.**
**nLIGHT** offers multiple styles of wall controls – each with varying features and user experience.

**Push-Button WallPod**
Traditional tactile buttons and LED user feedback

**Touch WallPod**
Contemporary capacitive touch style buttons with audible clicker for user feedback

**Graphic WallPod**
Full color touch screen provides a sophisticated look and feel




**EXAMPLE**
Group Fixture Control*
*Application diagram applies for fixtures with eldoLED drivers only.

**nPS 80 EZ** Dimming/Control Pack (qty 2 required)
**nPODM 2P DX** Dual On/Off/Dim Push-Button WallPod
**nCM ADCX** Daylight Sensor with Automatic Dimming Control
**nCM PDT 9** Dual Technology Occupancy Sensor

**Description:** This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

**nLight® AIR Control Accessories:**
*Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.*

| Wall switches | Model number |
|---|---|
| On/Off single pole | rPODB [color] |
| On/Off two pole | rPODB 2P [color] |
| On/Off & raise/lower single pole | rPODB DX [color] |
| On/Off & raise/lower two pole | rPODB 2P DX [color] |
| On/Off & raise/lower single pole | rPODBZ DX WH[1] |

**Notes**
1 Can only be ordered with the RES7Z zone control sensor version.

**nLight AIR**
nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The Lithonia LDNRV is available with the nLight AIR rPP20 Power Pack. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

Simple as 1,2,3

1. Install the nLight® AIR fixtures with nLight AIR rPP20
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, add a separate occupancy sensor in the space for additional control capabilities and energy savings

**UL924 Sequence of Operation**

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details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