

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. C-channel T-bar fastener options available.

Two combination ½"-3/4" and four ½" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing

Passive cooling thermal management; light engine and drivers are accessible from above or below ceiling Max ceiling thickness 1-1/2"

OPTICS — 3 SDCM; 80 CRI typical

Diffusing lens covers optical chamber

General illumination 1.0 S/MH

55° cutoff to source and source image

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes.

ELECTRICAL — Multi-volt 0-10V dimming available.

0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled

70% lumen maintenance at 50,000 hours

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional).

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

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.

Catalog Number Notes Туре



LDN8

8" OPEN Non-IC **New Construction Downlight**











Example: LDN8 35/50 LO8AR LSS MVOLT EZ1





ORDERING INFORMATION

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

LDN8					
Series	Color temperature	Lumens	Aperture/Trim Color	Finish	Voltage
LDN8 8" round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K	50 5000 lumens 60 6000 lumens 80 8000 lumens 100 10000 lumens	LO8 Downlight AR Clear LW8 Wallwash WR2 White BR2 Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V

Driver	Options				
GZ10 0-10V driver dims to 10% GZ1 0-10V driver dims to 1% EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10% EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	SF4 Single fuse TRW5 White painted flange TRBL6 Black painted flange EL Emergency battery pack with integral test switch. Not Certified in CA Title 20 MAEDBS ELR Emergency battery pack with remote test switch. Not Certified in CA Title 20 MAEDBS ELSD Emergency battery pack with self-diagnostics, integral test switch. Not Certified in CA Title 20 MAEDBS	ELRSD E10WCP E10WCPR NPP16D ⁶ NPP16DER ⁶	Emergency battery pack with self-diagnostics, remote test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	N807 NPS80EZER6 NPS80EZER6 WL RRL NLTAIR289 NLTAIRER289	nLight™ Lumen Compensation nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. Wet location, specify for exterior applications Reloc®-ready nLight® Air enabled nlight® AIR Dimming Pack Wire- less Controls. Controls fixtures on emergency circuit, not available with battery pack options

Notes

- $347 \mbox{V}$ is 3' x 3' x 6" over top Marked Spacing for 8000 lumens and above
- Not available with finishes.
- 347V only available with EZ10 and EZ1 driver options. Supplied with step-down transformer. Not available with emergency
- Voltage-specific 120, 277V.
- Only available with AR finish.

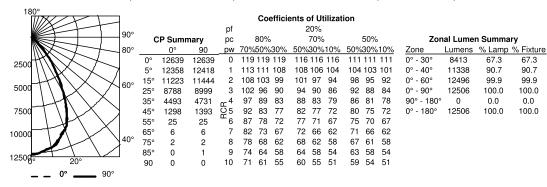
- Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations

DOWNLIGHTING LDN8

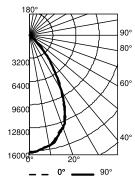
PHOTOMETRY

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

LDN8 35/120 L08AR LS, INPUT WATTS: 148.6, DELIVERED LUMENS: 12506.4, LM/W = 84.16, TEST NO. ISF 30850P28



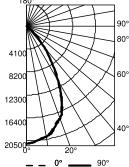
LDN8 35/150 LO8AR LS, INPUT WATTS: 184.5, DELIVERED LUMENS: 16024.4, LM/W = 86.85, TEST NO. ISF 30850P25

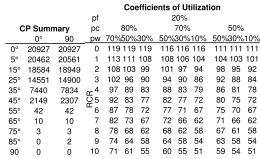


Coefficients of Utilization 20% **CP Summary** рс 80% 70% 50% pw 70%50%30% 50%30%10% 50%30%10% 90 16194 0 119 119 119 116 116 116 111 111 111 16194 15834 15911 113 111 108 108 106 104 104 103 101 15° 14381 14663 108 103 99 101 97 94 98 95 92 3 25° 11260 11530 102 96 90 94 90 86 92 88 BCR FCR 97 89 83 88 83 79 86 81 78 35° 5757 6062 45° 1663 1785 92 83 77 82 77 72 80 75 72 87 72 77 71 67 75 70 67 78 55° 32 32 72 82 73 67 66 62 66 65° 8 8 75° 3 78 68 62 68 62 58 67 58 3 64 85° 0 64 58

Zonal Lumen Summary Lumens % Lamp % Fixture Zone 0° - 30° 67.3 0° - 40° 14527 90.7 90.7 0° - 60° 16012 99.9 99.9 0° - 90° 16024 100.0 100.0 90° - 180° 0 0.0 0.0 16024 0° - 180° 100.0 100.0

LDN8 35/200 LO8AR LS, INPUT WATTS: 265.4, DELIVERED LUMENS: 20707.9, LM/W = 78.02, TEST NO. ISF 30850P22.



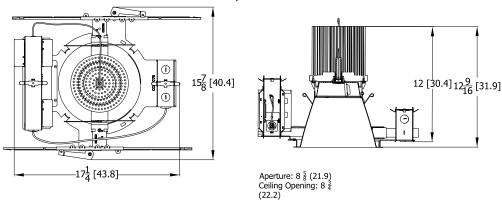


Zor	ial Lumei	n Summa	ry
Zone	Lumens	% Lamp	% Fixture
0° - 30°	13930	67.3	67.3
0° - 40°	18773	90.7	90.7
0° - 60°	20691	99.9	99.9
0° - 90°	20708	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	20708	100.0	100.0

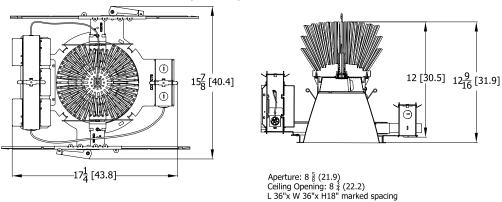
*All dimensions in inches (centimeters) unless otherwise noted.

5000lm-6000lm below 157 [40.4] Aperture: 8 § (21.9) Ceiling Opening: 8 § (22.2)

8000lm-12,000lm below



15,000lm-20,000lm below



Notes

- Tested in accordance with IESNA LM-79-08.
- $\bullet \ \ \text{Tested to current IES and NEMA standards under stabilized laboratory conditions}.$
- CRI: 80 typical.



ADDITIONAL DATA

COMF	ATIBLE 0-10V AND LINE VOLTAGE	DIMMERS
MANUFACTURER	PART NO.	CONTOL DEVICE DIM CURVE
Synergy®	ISD 400 ELV 120	Logarithmic
	ISD 600 I 120	Logarithmic
	ISD 1000 I 120	Logarithmic
Leviton®	IllumaTech-IPE04	Logarithmic
	IllumaTech-IPI06	Logarithmic
	IllumaTech-IPI10	Logarithmic
	IllumaTech- IPL06-10	Logarithmic
	Sureslide 6633-P 600-watt 3-way	Linear
	Sureslide 6674-P 600-watt single pole	Linear
	Sureslide 6674-P 600-watt 3-way	Linear

Nominal			
Nominai Lumens @ 3500K	Delivered Lumens	Wattage	LPW
5000	5353	61.1	87.6
6000	6138	73	84.1
8000	8520	92.1	92.5
10000	10582	118.83	89.1
12000	12506	148.7	84.1
15000	16025	184.5	86.9
20000	20707	265.4	78.0

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at **Designlight Consortium**.

****** 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.

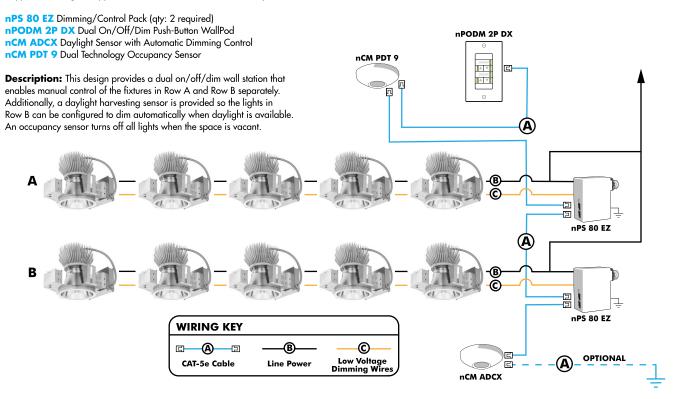
*See ordering tree for details



EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.



Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button WallpodTraditional tactile buttons
and LED user feedback



Graphic Wallpod
Full color touch screen
provides a sophisticated
look and feel

nLight [®] Wired Controls Accessories:			
Order as separate catalo	og number. Visit <u>www.</u>	acuitybrands.com/products/controls/nlight for	complete listing of nLight controls.
WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CATS 10FT J1
		15, CATS 15FT	CATS 15FT J1

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 integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. 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 embedded smart sensor
- 2. Install the wireless battery-powered wall switch
- 3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome





nLight AIR rPODB 2P DX

LDN8