

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices. **CONSTRUCTION** — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. 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 for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

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

LED light source concealed with diffusing optical lens.

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

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

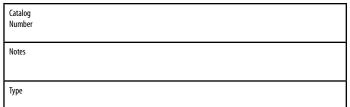
0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 50,000 hours.

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

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

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.





LDN₆

6" OPEN and WALLWASH LED Non-IC New Construction Downlight













ORDERING INFORMATION

A+ Capable options indicated by this color background.

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

Example: LDN6 35/15 LO6AR LSS MVOLT EZ10

LDN6						
Series	Color temperature	Lumens ¹	Aperture/Trim Color	Finish	Voltage	
LDN6 (6"round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 25 2500 lumens 10 1000 lumens 30 3000 lumens 15 1500 lumens 40 4000 lumens 20 2000 lumens 50 5000 lumens	LUG Downlight AR Clear LWG Wallwash WR² White BR² Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V	

EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10% Emergency battery pack with self-diagnostics, integral test switch to 10% Emergency battery pack with self-diagnostics, remote test switch with integral test switch end flicker-free deep dimming performance down to 10% Emergency battery pack with self-diagnostics, remote test switch with integral test switch end flicker-free E10WCPR Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch with remote test switch E21). ER controls fixtures on emergency circuit. HA0¹¹ High ambient option CP¹² Chicago Plenum WL Wet Location, specify for exterior use applications consistent factory installed option across all ABL luminain brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.				
to 10% TRWS White painted flange TRBLS Black painted flange EZ1 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 driver driver with self-diagnostics, integral test switch the flick switch the f	Driver	Options		
performance down to 1% NPP16D/ nLight® network power/relay pack with 0-10V dimming for non-eldoLED nLTAIR29.10 nLight® Air enabled nlight® Air enabled nLTAIR29.10 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	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	TRW ⁵ White painted flange TRBL ⁵ Black painted flange EL ⁶ Emergency battery pack with integral test switch ELR Emergency battery pack with remote test switch ELSD Emergency battery pack with self-diagnostics, integral test switch ELSD Emergency battery pack with self-diagnostics, remote test switch E10WCP Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch E10WCPR Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch NPP16D ⁷ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	NPS80EZ ⁷ NPS80EZER ⁷ HAO ¹¹ CP ¹² WL RRL NLTAIR2 ^{9, 10}	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. High ambient option Chicago Plenum Wet Location, specify for exterior use applications RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S. nLight® Air enabled nLight® AIR Dimming Pack Wireless Controls. Controls

Accessories: Order as separate catalog number.								
EAC ISSM 375	Compact interruptible emergency AC power system							
EAC ISSM 125	Compact interruptible emergency AC power system							
GRA68 JZ	Oversized trim ring with 8" outside diameter 1							
SCA6	Sloped ceiling adapter. Refer to TECH-SCA for more options.							

Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- 2 Not available with finishes.
- 3 Not available with emergency options.
- Must specify voltage 120V or 277V.
 Available with clear (AR) reflector only.
- 6 Add "SD" for self-diagnostic option (i.e. ELSD)
- 7 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.
- 9 Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options
- NPP16DER or N80 options.

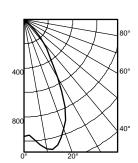
 10 NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
 - Fixture height is 6.5" for all lumen packages with HAO.
- 2 Must specify voltage for 3000lm. 5000lm with marked spacing 24 L x 24 W x 14 H.

DOWNLIGHTING LDN6

PHOTOMETRY

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

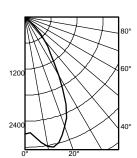
LDN6 35/10 LO6AR, input watts: 12.75, delivered lumens: 1082, LM/W = 84.86, spacing criterion at 0 = 1.02, test no. ISF 30716P31.



						pr				20	1%				
						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	961		0° - 30°	746.1	69.0	0	119	119	119	116	116	116	111	111	111
5	992	98	0° - 40°	981.1	90.7	1	111	108	106	109	106	104	104	103	101
15	1064	295	0° - 60°	1080.9	99.9	2	103	99	95	101	97	94	98	95	92
25	789	353	0° - 90°	1082.0	100.0	3	96	91	87	94	90	86	92	88	85
35	362	235	90° - 120°	0.0	0.0	4	89	84	79	88	83	79	86	81	78
45	121	96	90° - 130°	0.0	0.0	5	83	77	73	82	77	73	81	76	72
55	2	4	90° - 150°	0.0	0.0	6	78	72	68	77	72	67	76	71	67
65	1	1	90° - 180°	0.0	0.0	7	73	67	63	73	67	63	71	66	62
75	0	0	0° - 180°	1082.0	*100.0	8	69	63	59	68	62	58	67	62	58
85	0	0	*	Efficiency		9	65	59	55	64	59	55	63	58	54
90	0					10	61	55	51	61	55	51	60	55	51

		54.5	°	82.2	0
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	31.8	5.7	15.9	9.6	3.2
10.0	17.1	7.7	8.5	13.1	1.7
12.0	10.6	9.8	5.3	16.6	1.1
14.0	7.3	11.8	3.6	20.1	0.7
16.0	5.3	13.9	2.6	23.6	0.5

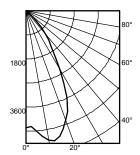
LDN6 35/30 L06AR, input watts: 34.69, delivered lumens: 3033.9, LM/W = 87.45, spacing criterion at 0 = 1.02, test no. ISF 30716P22.



						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	109
0	2693		0° - 30°	2092.2	69.0	0	119	119	119	116	116	116	111	111	11
5	2782	274	0° - 40°	2751.0	90.7	1	111	108	106	109	106	104	104	103	10
15	2984	827	0° - 60°	3030.8	99.9	2	103	99	95	101	97	94	98	95	92
25	2212	991	0° - 90°	3033.9	100.0	3	96	91	87	94	90	86	92	88	85
35	1014	659	90° - 120°	0.0	0.0	4	89	84	79	88	83	79	86	81	78
45	339	268	90° - 130°	0.0	0.0	5	83	77	73	82	77	73	81	76	72
55	4	12	90° - 150°	0.0	0.0	6	78	72	68	77	72	67	76	71	67
65	2	2	90° - 180°	0.0	0.0	7	73	67	63	73	67	63	71	66	62
75	1	1	0° - 180°	3033.9	*100.0	8	69	63	59	68	62	58	67	62	58
85	0	0	*	Efficiency		9	65	59	55	64	59	55	63	58	54
90	0					10	61	55	51	61	55	51	60	55	51

	50% beam - 54.5°			
Inital FC				
Center				
Beam	Diameter	FC	Diameter	FC
89.0	5.7	44.5	9.6	8.9
47.9	7.7	23.9	13.1	4.8
29.8	9.8	14.9	16.6	3.0
20.4	11.8	10.2	20.1	2.0
14.8	13.9	7.4	23.6	1.5
	Center Beam 89.0 47.9 29.8 20.4	54.5	S4.5° S4.5	S4.5° S2.2

LDN6 35/50 L06AR, input watts: 55.56, delivered lumens: 4922.1, LM/W = 88.59, spacing criterion at 0 = 1.02, test no. ISF 30716P40.

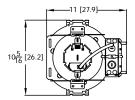


						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	4370		0° - 30°	3394.2	69.0	0	119	119	119	116	116	116	111	111	111
5	4513	445	0° - 40°	4463.2	90.7	1	111	108	106	109	106	104	104	103	101
15	4841	1341	0° - 60°	4917.1	99.9	2	103	99	95	101	97	94	98	95	92
25	3589	1608	0° - 90°	4922.1	100.0	3	96	91	87	94	90	86	92	88	85
35	1645	1069	90° - 120°	0.0	0.0	4	89	84	79	88	83	79	86	81	78
45	550	435	90° - 130°	0.0	0.0	5	83	77	73	82	77	73	81	76	72
55	7	19	90° - 150°	0.0	0.0	6	78	72	68	77	72	67	76	71	67
65	3	3	90° - 180°	0.0	0.0	7	73	67	63	73	67	63	71	66	62
75	2	2	0° - 180°	4922.1	*100.0	8	69	63	59	68	62	58	67	62	58
85	0	0	*	Efficiency		9	65	59	55	64	59	55	63	58	54
90	0					10	61	55	51	61	55	51	60	55	51

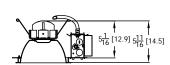
-			50% beam - 54.5°		10% beam 82.2°		
		Inital FC					
	Mounting	Center					
	Height	Beam	Diameter	FC	Diameter	FC	
	8.0	144.4	5.7	72.2	9.6	14.4	
	10.0	77.7	7.7	38.8	13.1	7.8	
	12.0	48.4	9.8	24.2	16.6	4.8	
	14.0	33.0	11.8	16.5	20.1	3.3	
	16.0	24.0	13.9	12.0	23.6	2.4	

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

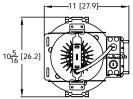
LDN6 1500 LUMEN



Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)



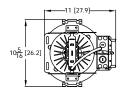
LDN6 3000 LUMEN



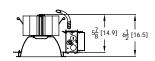


$5\frac{7}{8}$ [14.9] $6\frac{1}{2}$ [16.5]

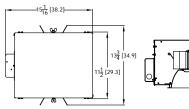
LDN6 5000 LUMEN



Marked Spacing: 24 x 24 x 10 Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)

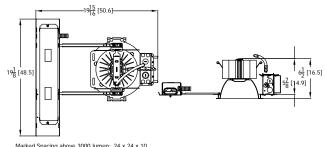


LDN6 CP



Marked Spacing above 3000 lumen: 24 x 24 x 10 Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)

19<mark>15</mark> [50.6]



LDN6 1500 EL-ELR

Marked Spacing above 3000 lumen: 24 x 24 x 1	(
Aperture: 6-1/4 (15.9)	
Ceiling Opening: 7-1/8 (18.1)	
Overlap trim: 7-1/2 (19.1)	

LDN6			
Target Lumen	Lumens @ 3500K	Wattage	LPW
500	662.2	7.6	87.1
1000	1082.0	12.8	84.5
1500	1606.0	20.5	78.3
2000	2023.0	22.6	89.5
2500	2529.5	27.1	93.3
3000	3034.0	34.7	87.4
4000	3977.5	44.1	90.2
5000	4922.2	55.5	88.7

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

LUMEN OUTPUT MUL	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	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

Notes

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



ADDITIONAL DATA

CO	MPATIBLE 0-10V WALL-MOUNT DIMMEF	RS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE	
	Diva® DVTV		
	Diva® DVSCTV	7	
Lutron®	Nova T® NTFTV		
	Nova® NFTV	7	
	AWSMT-7DW	CN100	
	AWSMG-7DW	PE300	
Leviton®	AMRMG-7DW		
	Leviton Centura Fluorescent Control System		
	IllumaTech® IP7 Series		
	ISD BC		
Synergy®	SLD LPCS	RDMFC	
	Digital Equinox (DEQ BC)		
Douglas Lighting Controls	WPC-5721		
Entertainment Technol- ogy	Tap Glide TG600FAM120 (120V)		
	Tap Glide Heatsink TGH1500FAM120 (120V)		
	Oasis OA2000FAMU	7	
Honeywell	EL7315A1019	EL7305A1010	
	EL7315A1009	(optional)	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH		
	Preset slide: PS-010-3W-IV and PS-010-3W-WH		
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V		
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V		
	Remote mounted unit: FD-010	7	
Lehigh Electronic Products	Solitaire	PBX	
PDM Electrical Products	WPC-5721		
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router	
WattStopper®	LS-4 used with LCD-101 and LCD-103		

** 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*

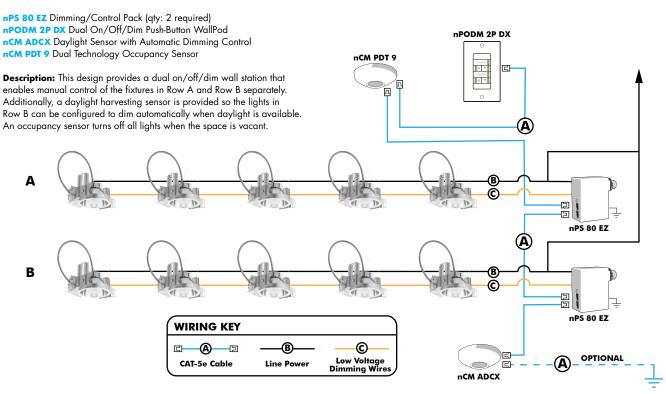
To learn more about A+, visit . *See ordering tree for details



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 Wallpod Traditional 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 catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.			
WallPod Stations	/allPod 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	
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:

nber. Visit www.acuitybrands.com/products/controls/nlightair.

oracl as separate catalog number. Visit www.acartyoranas.com/products/controls/imgne				
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

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

LITHONIA LIGHTING®

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 Indy L-Series 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

