

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.

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.

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.

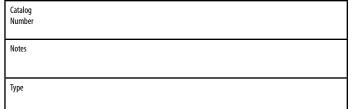
WARRANTY — 5-year limited warranty. Complete warranty terms located at:

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.





LDN₆

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













A+ Capable options indicated by this color background.

ORDERING INFORMATION

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

Example: LDN6 35/15 L06AR 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	LO6 Downlight LW6 Wallwash R2 Clear 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	TRW ⁵ TRBL ⁵ EL ELR	Single fuse White painted flange Black painted flange Emergency battery pack with integral test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack with remote test switch. Not Certified in CA Title 20 MAEDBS	N80 ⁷ NPS80EZ ⁶ NPS80EZER ⁶ HA0 ¹⁰ CP ¹¹	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. High ambient option Chicago Plenum
performance down to 10% EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD E10WCP E10WCPR	Emergency battery pack with self-diagnostics, integral test switch. Not Certified in CA Title 20 MAEDBS 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.	WL RRL NLTAIR2 ^{8,9} NLTAIRER2 ^{8,9}	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
	NPP16D ⁶ NPP16DER ⁶	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.	USPOM	fixtures on emergency circuit US point of manufacture

Accessories: Order as separate catalog number.

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

Notes

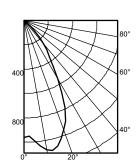
- 1 Overall height varies based on lumen package; refer to
- dimensional chart on page 3.
 2 Not available with finishes.
- 3 Not available with emergency options.
- Must specify voltage 120V or 277V.
 Available with clear (AR) reflector only.
- 5 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- 7 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 or N80 options.
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
- 10 Fixture height is 6.5" for all lumen packages with HAO.
- Must specify voltage for 3000lm. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.

DOWNLIGHTING LDN6

PHOTOMETRY

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

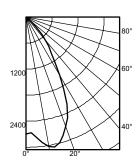
LDN6 35/10 L06AR, input watts: 12.75, delivered lumens: 1082, LM/W = 84.86, spacing criterion at 0 = 1.02, test no. ISF 30716P31.



						pf				20	%				
						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

		30 /0 DE	aiii-	10 / Dealli -		
		54.5	0	82.2°		
	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	

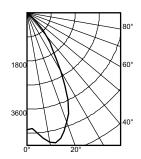
LDN6 35/30 LO6AR, input watts: 34.69, delivered lumens: 3033.9, LM/W = 87.45, spacing criterion at 0 = 1.02, test no. ISF 30716P22.



						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	2693		0° - 30°	2092.2	69.0	0	119	119	119	116	116	116	111	111	111
5	2782	274	0° - 40°	2751.0	90.7	1	111	108	106	109	106	104	104	103	101
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% be 54.5		10% be 82.2	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	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

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.



						Pi				20	,,0				
						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

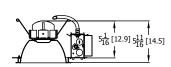
		50% be 54.5		10% be 82.2	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	144.4	5.7	72.2	9.6	14.4
10.0	77.7	7.7	38.8	13.1	7.8
12.0	48.4	9.8	24.2	16.6	4.8
14.0	33.0	11.8	16.5	20.1	3.3
16.0	24.0	13.9	12.0	23.6	2.4

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

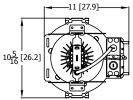
LDN6 500-1500 LUMEN

10 5 [26.2]

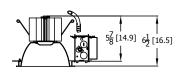
Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)



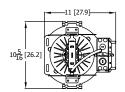
LDN6 2000-3000 LUMEN



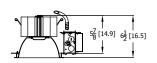




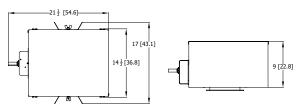
LDN6 4000-5000 LUMEN



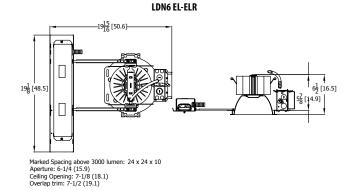
Marked Spacing: 24 x 24 x 10 Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)







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 **Designlight Consortium**.

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.
- $\bullet \ \ \, \text{Tested to current IES and NEMA standards under stabilized laboratory conditions}.$
- CRI: 80 typical.



ADDITIONAL DATA

COMPATIBLE 0-10V WALL-MOUNT DIMMERS				
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE		
	Diva® DVTV			
Lutron®	Diva® DVSCTV	1		
	Nova T® NTFTV			
	Nova® NFTV			
	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 Technology	Tap Glide TG600FAM120 (120V)			
	Tap Glide Heatsink TGH1500FAM120 (120V)			
	Oasis OA2000FAMU			
U II	EL7315A1019	EL7305A1010		
Honeywell	EL7315A1009	(optional)		
	Preset slide: PS-010-IV and PS-010-WH			
HUNT Dimming	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 www.acuitybrands.com/aplus.

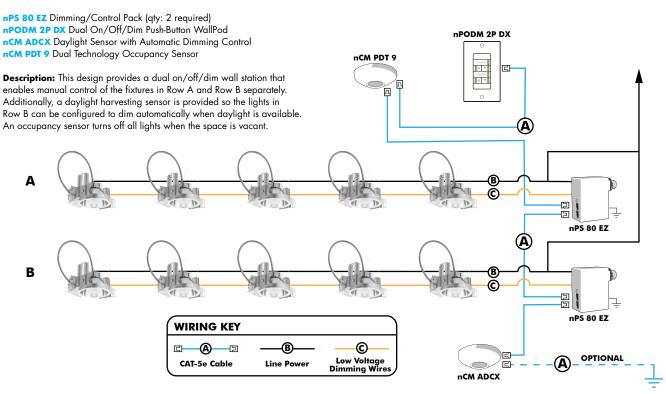
*See ordering tree for details



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 Wallpod Traditional tactile buttons and LED user feedback



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

nLight [®] Wired Controls Accessories:				
$\label{thm:controls} \textbf{Order as separate catalog number. Visit } \underline{\textbf{www.acuitybrands.com/products/controls/nlight}} \text{ for complete listing of nLight controls.}$				
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.

oraci as separate catalog name on visit management, products, controls, mig			
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.

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

LDN6