

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 $\frac{1}{2}$ " -3/4" and four $\frac{1}{2}$ " 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.

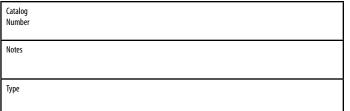
WARRANTY — 5-year limited warranty. Complete warranty terms located at:

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**











Example: LDN6 35/15 LO6AR LSS MVOLT EZ10





ORDERING INFORMATION

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

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 AR Clear LW6 Wallwash WR ² White BR ² 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%	SF ⁴ Single fuse TRW ⁵ White painted flange TRBL ⁵ Black painted flange EL ⁶ Emergency battery pack with integral test switch ELR Emergency battery pack with self-diagnostics, integral test switch ELSD Emergency battery pack with self-diagnostics, remote test switch ELRSD Emergency battery pack with self-diagnostics, remote test switch E10WCP Emergency battery pack, 10W Constant Power, CA Title 20 compliant NPP16D ⁷ nLight® network power/relay pack with 0-10V dimming for non- eldoLED drivers (GZ10, GZ1). NPP16DER ⁷ nlight® network power/relay pack with 0-10V dimming for non- eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NPS80EZ ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). NPS80EZER ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. N80® nLight™ Lumen Comensation HA0® High ambient option CP¹º Chicago Plenum WL Wet Location RRL 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. USPOM US point of manufacture

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

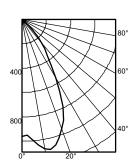
- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes
- Not available with emergency options.
- Must specify voltage 120V or 277V. 5 Available with clear (AR) reflector only.
- Add "SD" for self-diagnostic option (i.e. ELSD)
- Specify voltage. 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
- 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.

DOWNLIGHTING IDN6

PHOTOMETRY

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

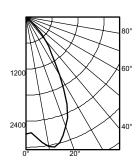
LDN6 35/10 L06AR, input watts: 12.75, delivered lumens: 1082, LM/W = 84.86, spacing criterion at 0 = 1.02, test no. ISF 30716P31.



						pt				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

			30 /0 DE	aiii-	10 /0 DE	aiii -
			54.5	°	82.2	0
		Inital FC				
- 1	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

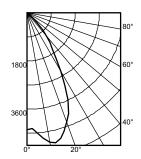
LDN6 35/30 L06AR, input watts: 34.69, delivered lumens: 3033.9, LM/W = 87.45, spacing criterion at 0 = 1.02, test no. ISF 30716P22.



						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	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		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.

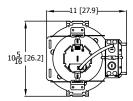


						Pi				20	,,0				
						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	4370		0° - 30°	3394.2	69.0	0	119	119	119	116	116	116	111	111	111
5	4513	445	0° - 40°	4463.2	90.7	1	111	108	106	109	106	104	104	103	101
15	4841	1341	0° - 60°	4917.1	99.9	2	103	99	95	101	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

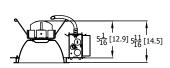
		50% be		10% be 82.2	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	144.4	5.7	72.2	9.6	14.4
10.0	77.7	7.7	38.8	13.1	7.8
12.0	48.4	9.8	24.2	16.6	4.8
14.0	33.0	11.8	16.5	20.1	3.3
16.0	24.0	13.9	12.0	23.6	2.4

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

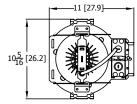
LDN6 1500 LUMEN



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



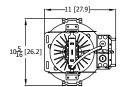
LDN6 3000 LUMEN



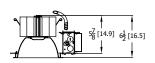
Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)

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

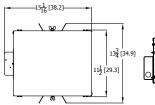
LDN6 5000 LUMEN



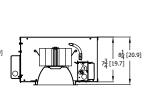
Marked Spacing: 24 x 24 x 10 Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)



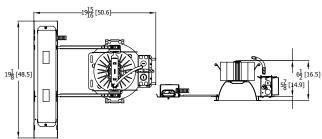




Marked Spacing above 3000 lumen: $24 \times 24 \times 10$ Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)



LDN6 1500 EL-ELR



Marked Spacing above 3000 lumen: $24 \times 24 \times 10$ 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

EL/ELR AVA	ILABILITY/COMPATIBILITY - INITIAL LUMENS								
Lumen package	Watts	Initial lumens EL/ELR	Emergency LED driver						
500	12	500	PS1050						
1000	18	575	PS1050						
1500	26	640	PS1050						
2000	35	690	PS1050						

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 O	LUMEN OUTPUT MULTIPLIERS - CCT							
	2700K	3000K	3500K	4000K	5000K			
80CRI	0.950	0.966	1.000	1.025	1.101			

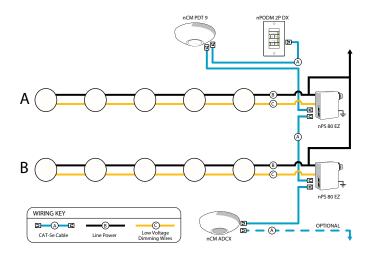
Notes

- 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 DIMMER	RS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE	
	Diva® DVTV		
1	Diva® DVSCTV	1	
Lutron®	Nova T® NTFTV		
	Nova® NFTV		
	AWSMT-7DW	CN100	
	AWSMG-7DW	PE300	
Leviton®	AMRMG-7DW		
	Leviton Centura Fluorescent Control System		
	IllumaTech® IP7 Series		
	ISD BC	RDMFC	
Synergy®	SLD LPCS		
	Digital Equinox (DEQ BC)		
Douglas Lighting Controls	WPC-5721		
F T	Tap Glide TG600FAM120 (120V)		
Entertainment Technol- ogy	Tap Glide Heatsink TGH1500FAM120 (120V)		
ogy	Oasis OA2000FAMU		
Honeywell	EL7315A1019	EL7305A1010	
noneywen	EL7315A1009	(optional)	
	Preset slide: PS-010-IV and PS-010-WH		
	Preset slide: PS-010-3W-IV and PS-010-3W-WH		
HUNT Dimming	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		



nLight® Control Accessories: Order as separate catalog number. Visit <u>www.sensorswitch.com/nLight</u> 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	nPODM 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	CAT5 10FT J1				
		15', CAT5 15FT	CAT5 15FT J1				

** 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

