LITHONIA LIGHTING®

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 1/2"-3/4" and four 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.
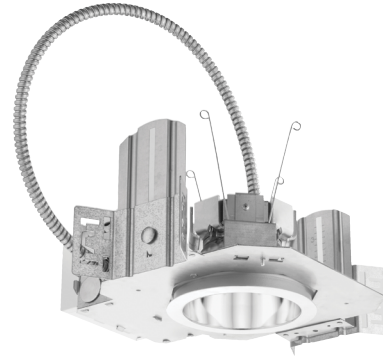
Max ceiling thickness 1-1/2".

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.

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.

LDN4

4" OPEN
Non-IC
New Construction Downlight

nLIGHT · WET LOCATION™ · DIMMABLE LED

C.E.C. TITLE 20 COMPLIANT battery pack · CSA+ CAPABLE

A+ Capable options indicated by this color background.

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

Example: LDN4 35/15 LO4AR LSS MVOLT EZ1

LDN4

Series	Color temperature	Lumens[1]	Aperture/Trim Color		Finish		Voltage	
LDN4 4" round	27/ 2700K	05 500 lumens	LO4 Downlight	AR Clear	LSS Semi-specular		MVOLT Multi-volt	
	30/ 3000K	10 1000 lumens	LW4 Wallwash	WR[2] White	LD Matte diffuse		120 120V	
	35/ 3500K	15 1500 lumens		BR[2] Black	LS Specular		277 277V	
	40/ 4000K	20 2000 lumens					347[3] 347V	
	50/ 5000K	25 2500 lumens						
		30 3000 lumens						

Driver		Options			
GZ10	0-10V driver dims to 10%	SF[4]	Single fuse	NPS80EZ[6]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
GZ1	0-10V driver dims to 1%	TRW[5]	White painted flange	NPS80EZER[6]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
EZ10	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	TRBL[5]	Black painted flange	N80[7]	nLight™ Lumen Compensation
		EL[4]	Emergency battery pack with integral test switch	HAO[8]	High ambient option (40°C)
		ELR[4]	Emergency battery pack with remote test switch	CP[9]	Chicago Plenum
EZ1	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELSD	Emergency battery pack with self-diagnostics, integral test switch	WL	Wet Location
		ELRSD	Emergency battery pack with self-diagnostics, remote test switch	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.
		E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant		
		NPP16D[6]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).		
		NPP16DER[6]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	USPOM	US point of manufacture

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.
4. Must specify voltage 120V or 277V.
5. Available with clear (AR) reflector only.
6. 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.
8. Fixture height is 5-11/16" for all lumen packages with HAO.
9. Must specify voltage for 3000lm.

DOWNLIGHTING   LDN4

LDN4

PHOTOMETRY

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

LDN4 35/10 LO4AR, input watts: 12.69, delivered lumens: 1025.1, LM/W = 80.78, spacing criterion at 0= 1.04, test no. ISF 30712P31.

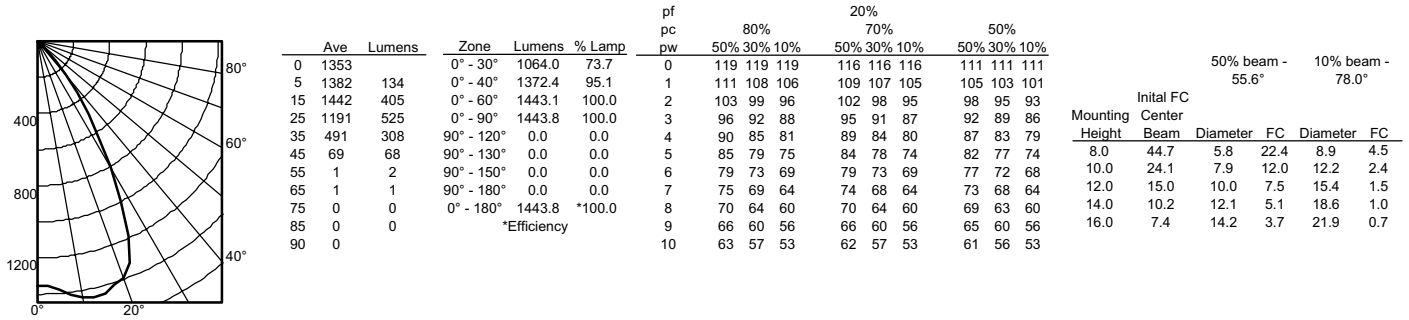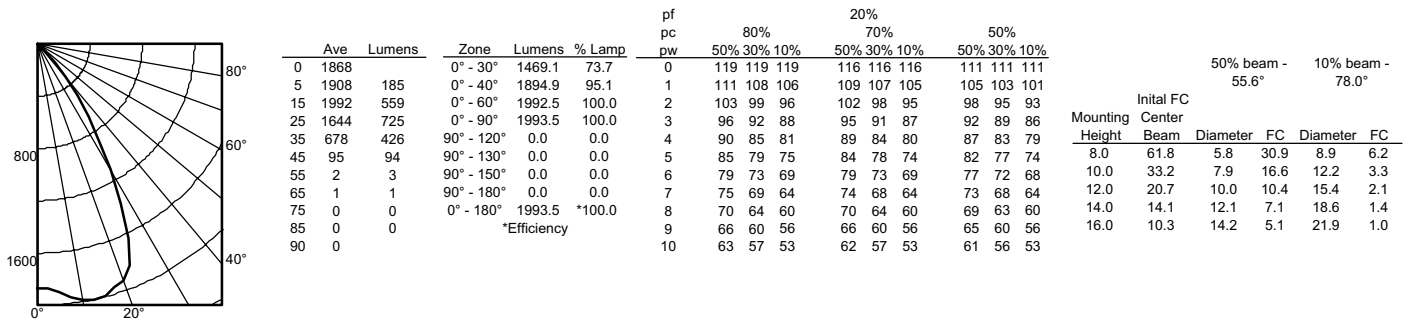|	Ave	Lumens	Zone	Lumens	% Lamp
0	961		0° - 30°	755.4	73.7
5	981	95	0° - 40°	974.4	95.1
15	1024	287	0° - 60°	1024.6	100.0
25	845	373	0° - 90°	1025.1	100.0
35	349	219	90° - 120°	0.0	0.0
45	49	48	90° - 130°	0.0	0.0
55	1	2	90° - 150°	0.0	0.0
65	1	0	90° - 180°	0.0	0.0
75	0	0	0° - 180°	1025.1	*100.0
85	0	0		*Efficiency	
90	0				

pf pc	80%			20% 70%			50%		
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

			50% beam - 55.6°		10% beam - 78.0°	
Mounting Height	Inital FC Center Beam	Diameter	FC		Diameter	FC
8.0	31.8	5.8	15.9		8.9	3.2
10.0	17.1	7.9	8.5		12.2	1.7
12.0	10.6	10.0	5.3		15.4	1.1
14.0	7.3	12.1	3.6		18.6	0.7
16.0	5.3	14.2	2.6		21.9	0.5

LDN4 35/15 LO4AR, input watts: 20.44, delivered lumens: 1443.8, LM/W = 70.63, spacing criterion at 0= 1.04, test no. ISF 30712P28.

	Ave	Lumens	Zone	Lumens	% Lamp
0	1353		0° - 30°	1064.0	73.7
5	1382	134	0° - 40°	1372.4	95.1
15	1442	405	0° - 60°	1443.1	100.0
25	1191	525	0° - 90°	1443.8	100.0
35	491	308	90° - 120°	0.0	0.0
45	69	68	90° - 130°	0.0	0.0
55	1	2	90° - 150°	0.0	0.0
65	1	1	90° - 180°	0.0	0.0
75	0	0	0° - 180°	1443.8	*100.0
85	0	0		*Efficiency	
90	0				

pf pc	80%			20% 70%			50%		
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

			50% beam - 55.6°		10% beam - 78.0°	
Mounting Height	Inital FC Center Beam	Diameter	FC		Diameter	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

LDN4 35/20 LO4AR, input watts: 22.52, delivered lumens: 1993.5, LM/W = 88.52, spacing criterion at 0= 1.04, test no. ISF 30712P25.

|	Ave	Lumens	Zone	Lumens	% Lamp
0	1868		0° - 30°	1469.1	73.7
5	1908	185	0° - 40°	1894.9	95.1
15	1992	559	0° - 60°	1992.5	100.0
25	1644	725	0° - 90°	1993.5	100.0
35	678	426	90° - 120°	0.0	0.0
45	95	94	90° - 130°	0.0	0.0
55	2	3	90° - 150°	0.0	0.0
65	1	1	90° - 180°	0.0	0.0
75	0	0	0° - 180°	1993.5	*100.0
85	0	0		*Efficiency	
90	0				

pf pc	80%			20% 70%			50%		
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

			50% beam - 55.6°		10% beam - 78.0°	
Mounting Height	Inital FC Center Beam	Diameter	FC		Diameter	FC
8.0	61.8	5.8	30.9		8.9	6.2
10.0	33.2	7.9	16.6		12.2	3.3
12.0	20.7	10.0	10.4		15.4	2.1
14.0	14.1	12.1	7.1		18.6	1.4
16.0	10.3	14.2	5.1		21.9	1.0

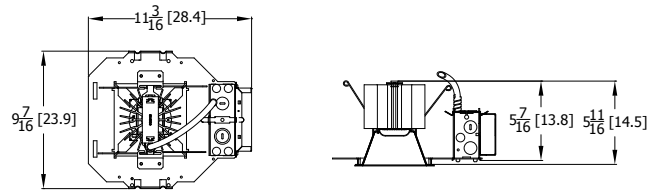| **Accessories:** *Order as separate catalog numbers (shipped separately).* |
|---|
| SCA4   Sloped ceiling adapter. |
| Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). |

LDN4

* All dimensions are inches (centimeters) unless otherwise noted.
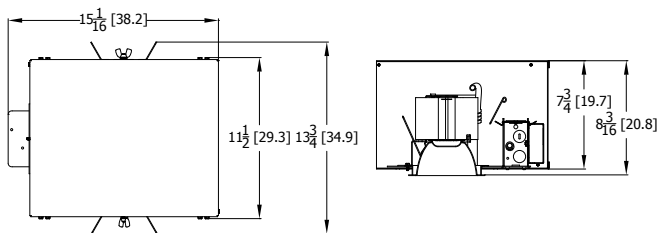
LDN4 1500 LUMEN
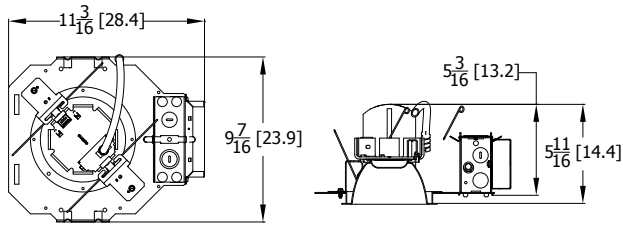
Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)
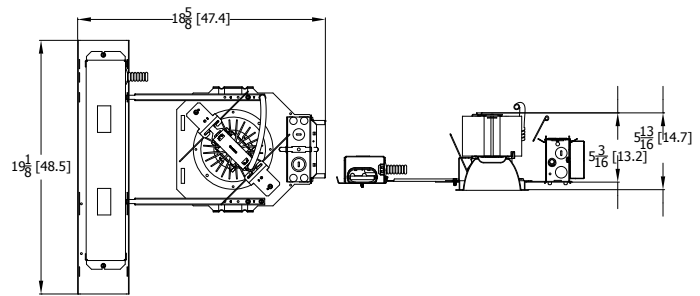
LDN4 3000 LUMEN

Aperture: 4-5/16 (11) Square
Ceiling Opening: 5-1/8 (13) Square
Overlap trim: 5-7/16 (13.8) Square

LDN4 CP

Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)

LDN4 EL-ELR

Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap trim: 5-7/16 (13.8)

LDN4			
Target Lumen	Lumens @ 3500K	Wattage	LPW
500	688.8	8.5	80.8
1000	1025.1	12.7	80.7
1500	1443.8	20.4	70.8
2000	1993.5	22.5	88.6
2500	2659.0	30.1	88.3
3000	2860.1	34.8	82.2

EL/ELR AVAILABILITY/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 - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

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

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

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
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	
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	

nCM PDT 9   nPODM 2P DX

A

B

nPS 80 EZ

nPS 80 EZ

WIRING KEY

CAT-5e Cable   Line Power   Low Voltage Dimming Wires

nCM ADCX   OPTIONAL
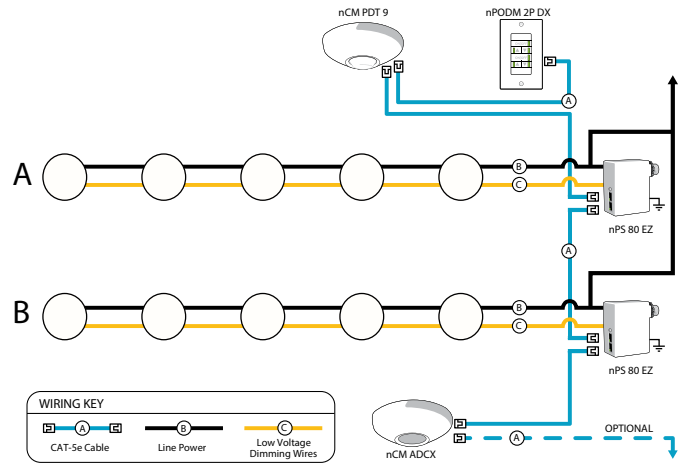
nLight® Control Accessories: *Order as separate catalog number.*			
WallPod stations	**Model number**	**Occupancy sensors**	**Model number**
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual 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

⟨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*

*See ordering tree for details