

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. 90 CRI optional.

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 nainted 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 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

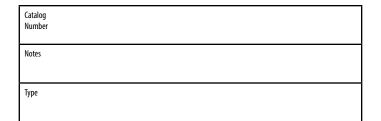
BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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 and WallWash LED Non-IC **New Construction Downlight**













Example: LDN4 35/15 LO4AR LSS MVOLT EZ1



ORDERING INFORMATION

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

LDN4					
Series	Color temperature	Lumens ¹	Aperture/Trim Color	Finish	Voltage
LDN4 4"round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 20 2000 lumens 07 750 lumens 25 2500 lumens 10 1000 lumens 30 3000 lumens 15 1500 lumens 40 4000 lumens	LO4 Downlight LW4 Wallwash	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V

Drive	r	Options			
GZ10 GZ1	0-10V driver dims to 10% 0-10V driver dims to 1%	SF ⁴ TRW ⁶	Single fuse	N80 ⁸ JOT ¹³	nLight™ Lumen Compensation Wireless room control with "Just One Touch" pairing
EZ10	0-10V eldoLED driver with	TRBL ⁶	White painted flange Black painted flange	NPS80EZ ⁷	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	smooth and flicker-free deep dimming performance down	EL⁵	Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	NPS80EZER ⁷	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
EZ1	to 10% 0-10V eldoLED driver with	ELR ⁵	Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	HAO ¹¹	High ambient option (40°C)
	smooth and flicker-free deep dimming performance down	ELSD ⁵	Emergency battery pack with self-diagnostics, 10W Constant Power,	CP ¹² RRL	Chicago Plenum RELOC®-ready luminaire connectors enable a simple and consistent
D10	to 1% Minimum dimming 10% driver	ELRSD ⁵	integral test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack with self-diagnostics, 10W Constant Power,		factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and
	for use with JOT	E10WCP ⁵	remote test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack, 10W Constant Power with integral test switch.	NLTAIR2 ^{9,10,14}	RRLC12S. nLight® Air enabled
D1	Minimum dimming 1% driver for use with JOT	E10WCPR ⁵	Certified in CA Title 20 MAEDBS Emergency battery pack, 10W Constant Power with remote test switch.	NLTAIRER29,10	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
EDAB	eldoLED DALI SOLDRIVE dim to dark	NPP16D ⁷	Certified in CA Title 20 MAEDBS nLight® network power/relay pack with 0-10V dimming for	NLTAIREM2 ^{9,10}	nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation,
			non-eldoLED drivers (GZ10, GZ1).	BAA	via power interrupt detection. Available with battery pack options. Buy America(n) Act Compliant
		NPP16DER ⁷	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	90CRI	High CRI (90+)

Accessories: Order as separate catalog number. PS1055CP FMC Power Sentry batterypack, T20 compliant, field installable, 10w constant power

EAC ISSM 375 Compact interruptible emergency AC power system EAC ISSM 125 Compact interruptible emergency AC power system

GRA46 JZ Oversized trim ring with 6" outside diameter

Sloped Ceiling Adapter. Degree of slope must be SCA4

specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D.

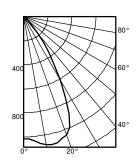
- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- Must specify voltage 120V or 277V.
- $12.5^{\prime\prime}$ of plenum depth or top access required for battery pack maintenance. 5
- Available with clear (AR) reflector only.
- 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 or N80 options.
- 10 NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations
- 11 Fixture height is 5-11/16" for all lumen packages with HAO.
- 12 Must specify voltage for 3000lm. Not available with emergency battery pack ontion
- 13 Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
- When combined with EZ1 or EZ10 drivers, an be used as a normal power sensing device for nLight AIR devices and luminaires with EM options

DOWNLIGHTING LDN4

PHOTOMETRY

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

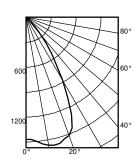
LDN4 35/10 LO4AR, input watts: 10.58, delivered lumens: 1085.2, LM/W = 102.57, spacing criterion at 0 = 1.04, test no. ISF 30712P229.



						pf				20)%				
						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	1017		0°-30°	799.7	73.7	0	119	119	119	116	116	116	111	111	111
5	1039	101	0°-40°	1031.5	95.1	1	111	108	106	109	107	105	105	103	101
15	1084	304	0°-60°	1084.7	100.0	2	103	99	96	102	98	95	98	95	93
25	895	395	0°-90°	1085.2	100.0	3	96	92	88	95	91	87	92	89	86
35	369	232	90° - 120°	0.0	0.0	4	90	85	81	89	84	80	87	83	79
45	52	51	90° - 130°	0.0	0.0	5	85	79	75	84	78	74	82	77	74
55	1	2	90° - 150°	0.0	0.0	6	79	73	69	79	73	69	77	72	68
65	1	1	90° - 180°	0.0	0.0	7	75	69	64	74	68	64	73	68	64
75	0	0	0°-180°	1085.2	*100.0	8	70	64	60	70	64	60	69	63	60
85	0	0	*	Efficiency		9	66	60	56	66	60	56	65	60	56
90	0			-		10	63	57	53	62	57	53	61	56	53

		50% be	10% be 78.0		
	Inital FC				
Mounting	Center				
_Height	Beam	Diameter	FC	Diameter	FC
8.0	33.6	5.8	16.8	8.9	3.4
10.0	18.1	7.9	9.0	12.2	1.8
12.0	11.3	10.0	5.6	15.4	1.1
14.0	7.7	12.1	3.8	18.6	8.0
16.0	5.6	14.2	2.8	21.9	0.6

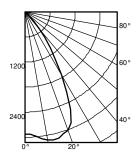
LDN4 35/15 LO4AR, input watts: 17.5, delivered lumens: 1570.1, LM/W = 89.72, spacing criterion at 0 = 1.04, test no. ISF 30712P234.



						pt				20	1%				
						рс		80%			70%			50%	
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	1472		0°-30°	1157.1	73.7	0	119	119	119	116	116	116	111	111	111
5	1503	146	0°-40°	1492.5	95.1	1	111	108	106	109	107	105	105	103	101
15	1569	440	0°-60°	1569.4	100.0	2	103	99	96	102	98	95	98	95	93
25	1295	571	0°-90°	1570.1	100.0	3	96	92	88	95	91	87	92	89	86
35	534	335	90° - 120°	0.0	0.0	4	90	85	81	89	84	80	87	83	79
45	75	74	90° - 130°	0.0	0.0	5	85	79	75	84	78	74	82	77	74
55	1	3	90° - 150°	0.0	0.0	6	79	73	69	79	73	69	77	72	68
65	1	1	90° - 180°	0.0	0.0	7	75	69	64	74	68	64	73	68	64
75	0	0	0°-180°	1570.1	*100.0	8	70	64	60	70	64	60	69	63	60
85	0	0	*	Efficiency		9	66	60	56	66	60	56	65	60	56
90	0					10	63	57	53	62	57	53	61	56	53

		50% be	eam -	10% be	am -	
		55.6	°°	78.0°		
	Inital FC					
Mounting	Center					
Height	Beam	Diameter	FC	Diameter	FC	
8.0	48.7	5.8	24.3	8.9	4.9	
10.0	26.2	7.9	13.1	12.2	2.6	
12.0	16.3	10.0	8.2	15.4	1.6	
14.0	11.1	12.1	5.6	18.6	1.1	
16.0	8.1	14.2	4.0	21.9	8.0	

LDN4 35/30 LO4AR, input watts: 32.1, delivered lumens: 3122.6, LM/W = 88.52, spacing criterion at 0 = 1.04, test no. ISF 30712P249.

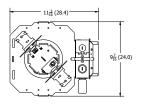


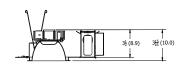
						рс		80%			70%			50%		
	Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	2927		0°-30°	2301.2	73.7	0	119	119	119	116	116	116	111	111	111	
5	2989	290	0°-40°	2968.2	95.1	1	111	108	106	109	107	105	105	103	101	
15	3120	875	0°-60°	3121.1	100.0	2	103	99	96	102	98	95	98	95	93	
25	2575	1136	0°-90°	3122.6	100.0	3	96	92	88	95	91	87	92	89	86	
35	1062	667	90° - 120°	0.0	0.0	4	90	85	81	89	84	80	87	83	79	
45	149	148	90° - 130°	0.0	0.0	5	85	79	75	84	78	74	82	77	74	
55	3	5	90° - 150°	0.0	0.0	6	79	73	69	79	73	69	77	72	68	
65	2	1	90° - 180°	0.0	0.0	7	75	69	64	74	68	64	73	68	64	
75	0	0	0°-180°	3122.6	*100.0	8	70	64	60	70	64	60	69	63	60	
85	0	0	*	Efficiency		9	66	60	56	66	60	56	65	60	56	
90	0					10	63	57	53	62	57	53	61	56	53	

		50% beam -		10% be	
		55.6	°°	78.0	0
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	96.8	5.8	48.4	8.9	9.7
10.0	52.0	7.9	26.0	12.2	5.2
12.0	32.4	10.0	16.2	15.4	3.2
14.0	22.1	12.1	11.1	18.6	2.2
16.0	16.1	14.2	8.0	21.9	1.6

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

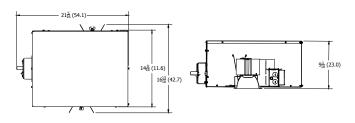
LDN4 500 - 2000 LUMENS





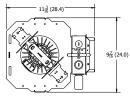
Aperture: 4-5/16" (11) Ceiling Opening: 5-1/8" (13) Overlap Trim: 5-7/16" (13.8)

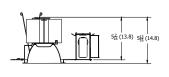
LDN4 CP



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

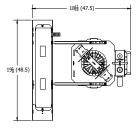
LDN4 2500 - 4000 LUMENS





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

LDN4 EL





1-6-		
	 5ॡ (13.8)	5½ (14.8)
		1
		•

LDN4	LDN4											
Nominal	Lumens	Wattage	Lm/W									
500	523.6	5.74	91.2									
750	751.1	8.6	87.3									
1000	1045	10.58	98.8									
1500	1512	17.5	86.4									
2000	2006	22.12	90.7									
2500	2551	26.1	97.7									
3000	3007	32.1	93.7									
4000	4212	43	98.0									

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

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	

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

JOT HIST ONE TOUGH

The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram







LDN4 Series



Sensor Switch WSXA JOT

- Power: Install JOT enabled fixtures and controls as instructed.
- Pair: Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- 3. Play: Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

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		
	SLD LPCS	RDMFC	
	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	
	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	1	
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		

4 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

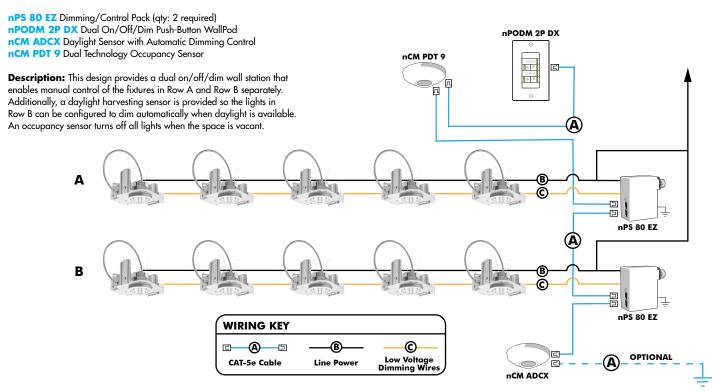


LDN4

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 WallpodFull color touch screen provides a sophisticated look and feel

nLight [®] Wired Controls Accessories:				
$Order\ as\ separate\ catalog\ number.\ Visit\ \underline{www.acuitybrands.com/products/controls/nlight}\ for\ complete\ listing\ of\ nLight\ controls.$				
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 On/Off single pole On/Off two pole On/Off & raise/lower single pole On/Off & raise/lower two pole	Model number rPODB [color] rPODB 2P [color] rPODB DX [color] rPODB 2P DX [color]
3 1	
On/Off & raise/lower single pole	rPODBZ DX WH¹

Notes

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

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- · EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight AIR

 $nLight\ AIR\ is\ the\ ideal\ solution\ for\ retrofit\ or\ new\ construction\ spaces\ where\ adding\ communication\ is\ cost\ prohibitive.\ The\ integrated\ nLight\ AIR\ is\ the\ ideal\ solution\ for\ retrofit\ or\ new\ construction\ spaces\ where\ adding\ communication\ is\ cost\ prohibitive.\ The\ integrated\ nLight\ AIR\ is\ the\ ideal\ solution\ for\ retrofit\ or\ new\ construction\ spaces\ where\ adding\ communication\ is\ cost\ prohibitive.$ 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

LDN4

/A LITHONIA LIGHTING®