

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. 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 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 60,000 hours.

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

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to <u>www.acuitybrands.com/buy-american</u> 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.



ORDERING INFORMATION		Lead times will vary depending on options selected. Consult with your sales re	presentative.	Example: LDN6 35/1	5 LO6AR LSS MVOLT
LDN6					

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 07 750 lumens 30 3000 lumens 10 1000 lumens 40 4000 lumens 15 1500 lumens 50 5000 lumens 20 2000 lumens 40 4000 lumens	LO6 Downlight LW6 Wallwash BR ² Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V	

Driver	Options	
GZ100-10V driver dims to 10%GZ10-10V driver dims to 1%D10Minimum dimming 10% driver for use with JOTD1Minimum dimming 1% driver for use with JOTEZ10-10V eldoLED driver with smooth and flicker- free deep dimming performance down to 1%EDABeldoLED DALI SOLDRIVE dim to dark	SF ⁴ Single fuse TRW ⁵ White painted flange TRBL ⁵ Black painted flange EL ⁶ Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELR ⁶ Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELSD ⁶ Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELSD ⁶ Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS E10WCP ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB E10WCP ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB E10WCPR ⁶ Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB NPP16D ⁷ NLight [*] network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). NPP16DR7 NLight [*] network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	N80 [®] nLight™ Lumen Compensation JOT ¹³ Wireless room control with "Just One Touch" pairing 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. HA0 ¹¹ High ambient option CP ¹² Chicago Plenum RRL RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www. acuitybrands.com for the RELOC product specifications. NLTAIR2 ^{9,10,14} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options NLTAIREM2 ^{9,10,14} nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options. BAA Buy America(n) Act Compliant 90CRI High CRI (90+)

		Notes 1 Overall height varies based on lumen package; refer to dimensional chart	9 Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80
Accessories: Order as separate catalog number.		on page 3.	options.
PS1055CP	FMC Power Sentry batterypack, T20 compliant, field installable, 10w constant power	Not available with finishes. Not available with emergency options. Must specify voltage 120V or 277V. Available with clear (AR) reflector only.	 NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations. Fixture height is 6.5" for all lumen packages with HAO. Must specify voltage for 3000lm and above. S000lm with marked spacing
EAC ISSM 375	Compact interruptible emergency AC power system	 6 12.5" of plenum depth or top access required for battery pack maintenance. 	24 L x 24 W x 14 H. Not available with emergency battery pack option.
EAC ISSM 125	Compact interruptible emergency AC power system	7 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.	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
GRA68 JZ	Oversized trim ring with 8" outside diameter	8 Fixture begins at 80% light level. Must be specified with NPS80EZ or	with emergency backup power systems other than battery packs.
SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D	NPS80EZ ER. Only available with EZ10 and EZ1 drivers.	14 When combined with EZ1 or EZ10 drivers, can be used as a normal power sensing device for nLight AIR devices and lumiaires with EM options.

Catalog Number Notes



Туре

LDN6 6" Open and WallWash LED

Non-IC New Construction Downlight

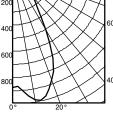


LT EZ10

LDN6

PHOTOMETRY

Distribution Curve	Distribution Data	Output Data		Coefficient	ofUtilization	II	luminance Data a a Single	at 30" Above F Luminaire	loor for
LDN6 35/10 LO6AR, inp	out watts: 10.44, del	ivered lumens: 987.10,	, LM/\	N = 94.54, sj	pacing criter	ion at $0 = 1.0$	2, test no. ISF	30716P262.	
			pc	80%	70%	50%			
	Ave Lumens	Zone Lumens % Lamp	pw	50% 30% 10%	50% 30% 10%	50% 30% 10%		50% beam -	10% beam -
80		0°-30° 680.7 69.0	0	119 119 119	116 116 116	111 111 111		50% beam - 54.5°	10% beam - 82.2°
	5 905 89	0°-40° 895.0 90.7	1	111 108 106	109 106 104	104 103 101	Inital FC	04.0	02.2
200	15 971 269	0°-60° 986.0 99.9	2	103 99 95	101 97 94	98 95 92			
$H^{(N)} \times \times / 1$	25 720 322	0°-90° 987.0 100.0	3	96 91 87	94 90 86	92 88 85	Mounting Center		



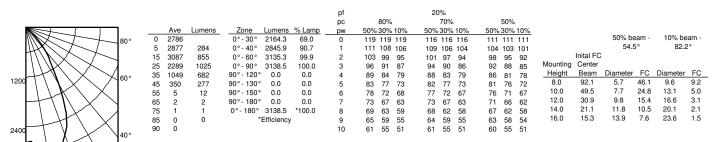
20°

87 79 73 68 25 35 45 55 65 75 85 94 88 82 77 73 68 64 61 85 78 72 67 Diameter 5.7 7.7 330 110 214 87 90°-120° 90°-130° 79 73 67 81 76 71 Height 8.0 Beam 29.0 0.0 0.0 4 89 83 78 73 69 84 77 72 67 63 59 55 83 77 72 67 62 59 55 86 81 76 71 67 63 0.0 0.0 5 6 7 15.6 9.7 1 4 90°-150° 0.0 10.0 0.0 63 59 55 51 63 58 55 51 66 62 58 55 62 58 54 51 12.0 9.8 1 90°-180° 0.0 0.0 0 0 0° - 180° 987.0 *100.0 14.0 6.6 11.8 8 0 0 0 *Efficiency 9 10 65 16.0 4.8 13.9 90 61 60

LDN6 35/15 LO6AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0 = 1.02, test no. ISF 30716P265.

							pf pc		80%		20	% 70%			50%							
		Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
80°	0	1396		0°-30°	1084.6	69.0	0	119	119	119	116	116	116	111	111	111			50% be		10% be	
	5	1442	142	0°-40°	1426.2	90.7	1	111	108	106	109	106	104	104	103	101			54.5	0	82.2	2°
	15	1547	429	0°-60°	1571.3	99.9	2	103	99	95	101	97	94	98	95	92		Inital FC				
	25	1147	514	0°-90°	1572.9	100.0	3	96	91	87	94	90	86	92	88	85	Mounting	Center				
\sim	35	526	342	90°-120°	0.0	0.0	4	89	84	79	88	83	79	86	81	78	Height	Beam	Diameter	FC	Diameter	FC
	45	176	139	90°-130°	0.0	0.0	5	83	77	73	82	77	73	81	76	72	8.0	46.2	5.7	23.1	9.6	4.6
$ X \setminus X $	55	2	6	90° - 150°	0.0	0.0	6	78	72	68	77	72	67	76	71	67	10.0	24.8	7.7	12.4	13.1	2.5
	65	1	1	90°-180°	0.0	0.0	7	73	67	63	73	67	63	71	66	62	12.0	15.5	9.8	7.7	16.6	1.5
	75	1	1	0°-180°	1572.9	*100.0	8	69	63	59	68	62	58	67	62	58	14.0	10.6	11.8	5.3	20.1	1.1
	85	0	0	*1	Efficiency	/	9	65	59	55	64	59	55	63	58	54	16.0	7.7	13.9	3.8	23.6	0.8
1200	90	0					10	61	55	51	61	55	51	60	55	51						
DAVI																						

LDN6 35/30 LO6AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.





Diameter 9.6 FC 2.9

13.1

16.6

20.1

23.6

1.6 1.0

0.7 0.5

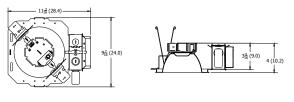
FC 14.5

7.8 4.9

3.3 2.4

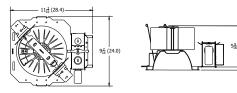
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6 500 - 1500 LUMENS

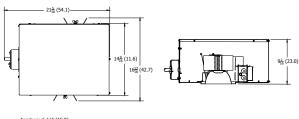


Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap Trim: 7-1/2 (19.1)

LDN6 4000 - 5000 LUMENS





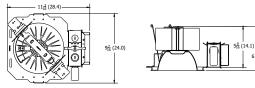


LDN6 CP

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

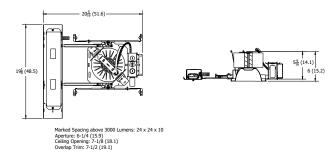
LDN6					
Nominal Lumens	Lumens	Wattage	Lm/W		
500	527.9	5.8	90.5		
750	758.1	8.9	85.1		
1000	950.1	10.4	91.0		
1500	1514	17.5	86.4		
2000	2006	22.5	89.1		
2500	2504	28.3	88.6		
3000	3021	34.8	86.9		
4000	4008	44.3	90.6		
5000	4975	57.7	86.3		

LDN6 2000 - 3000 LUMENS





LDN6 EL



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

 $\mbox{LPW}=\mbox{Lumen}$ 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	

6 (15.2)

Notes

• Tested in accordance with IESNA LM-79-08.

Tested to current IES and NEMA standards under stabilized laboratory conditions.

• CRI: 80 typical.

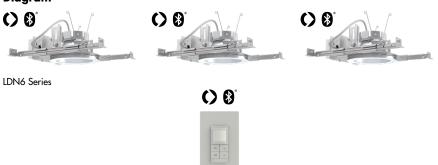


ADDITIONAL DATA



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 () Ø



Sensor Switch WSXA JOT

instructed. 2. Pair: Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.

1. Power: Install JOT enabled fixtures and controls as

3. Play: Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

C	OMPATIBLE 0-10V WALL-MOUNT DIMMERS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
	Diva® DVTV	
Lutron®	Diva® DVSCTV	
LULION	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	
	Tap Glide TG600FAM120 (120V)	
Entertainment Technology	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010
noneywell	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	
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	

Strain 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 <u>www.acuitybrands.com/aplus</u>.

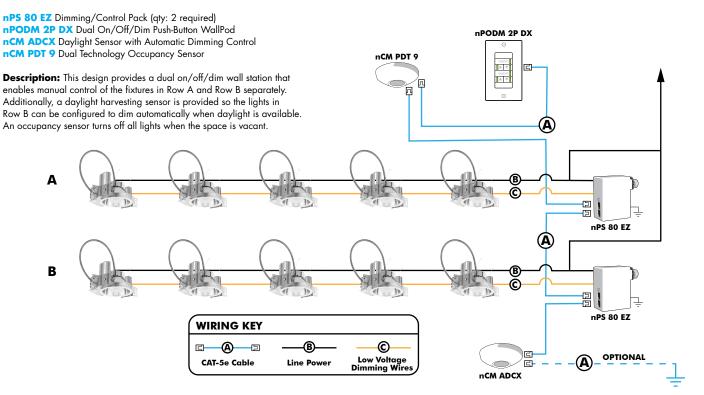
*See ordering tree for details



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 catalo	Order as separate catalog number. Visit <u>www.acuitybrands.com/products/controls/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	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, CAT5 15FT	CATS 15FT J1			



nLight [®] AIR Control Accessories: Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.				
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

1 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
- 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



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.