

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. 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.

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

 $\underline{www.acuitybrands.com/support/customer-support/terms-and-conditions}$

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.



Catalog

Number

Notes

Туре



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











Example: LDN6 35/15 LO6AR LSS MVOLT EZ10



A+ Capable options indicated by this color background.

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	05 500 lumens 25 2500 lumens 10 1000 lumens 30 3000 lumens 15 1500 lumens 40 4000 lumens 20 2000 lumens 50 5000 lumens	LW6 Wallwash WR2 White BR2 Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V

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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 10%	SF4 Single fuse TRW5 White painted flange TRBL5 Black painted flange EL6 Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELR7 Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELSD6 Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELRSD6 Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS E10WCP6 Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB E10WCP6 Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB NPP16D7 Remergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB 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 NPS80EZF7 nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). NPS80EZER7 nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. HA0¹¹ High ambient option CP¹² Chicago Plenum 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. NLTAIR2®.¹¹⁰ nLight® Air enabled NLTAIRER2®.¹¹⁰ nLight® Air enabled NLTAIRER2®.¹¹⁰ nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options USPOM US point of manufacture 90CRI High CRI (90+)

Accessories: 0	rder 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
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.
- 2 Not available with finishes.
- 3 Not available with emergency options.
- Must specify voltage 120V or 277V.
 Available with clear (AR) reflector only.
- 12.5" of plenum depth or top access required for battery
- pack maintenance.

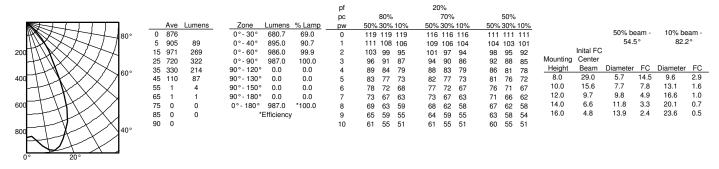
 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- 8 Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
- 10 NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
- 11 Fixture height is 6.5" for all lumen packages with HAO.
- 12 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

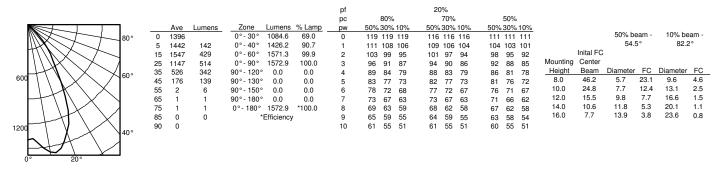
PHOTOMETRY

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

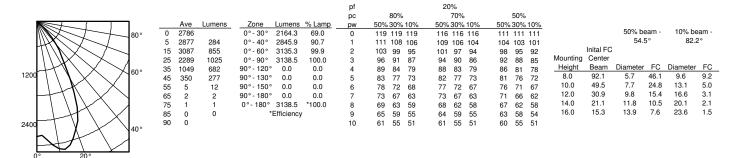
LDN6 35/10 L06AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0 = 1.02, test no. ISF 30716P262.



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.

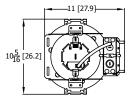


LDN6 35/30 LO6AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0 = 1.02, test no. ISF 30716P274.

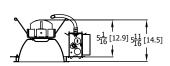


* All dimensions are inches (centimeters) unless otherwise noted.

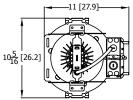
LDN6 500-1500 LUMEN

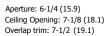


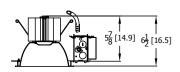
Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)



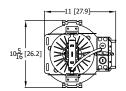
LDN6 2000-3000 LUMEN



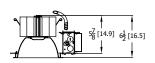




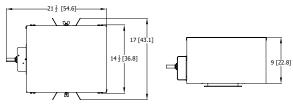
LDN6 4000-5000 LUMEN



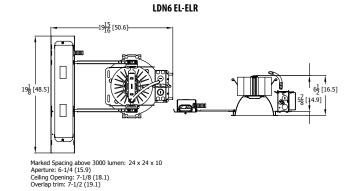
Marked Spacing: 24 x 24 x 10 Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap trim: 7-1/2 (19.1)











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

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.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.



ADDITIONAL DATA

CO	MPATIBLE 0-10V WALL-MOUNT DIMMEF	RS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE	
	Diva® DVTV		
	Diva® DVSCTV	7	
Lutron®	Nova T® NTFTV		
	Nova® NFTV	7	
	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 Technol-	Tap Glide Heatsink TGH1500FAM120 (120V)		
ogy	Oasis OA2000FAMU	7	
Hanauuuall	EL7315A1019	EL7305A1010	
Honeywell	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		

** 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.

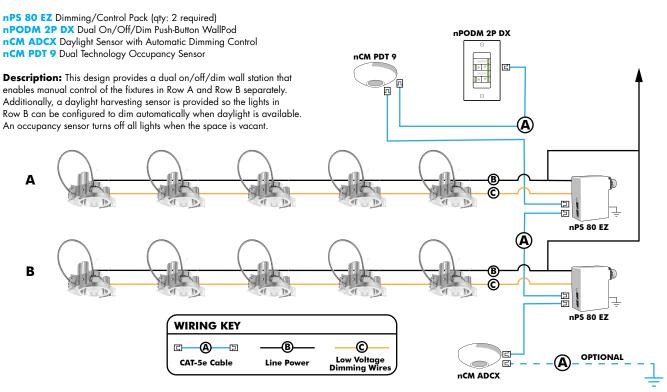
*See ordering tree for details



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:						
$Order\ as\ separate\ catalog\ number.\ Visit\ \underline{www.acuitybrands.com/products/controls/nlight}\ for\ complete\ listing\ of\ nLight\ controls.$						
WallPod Stations	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.

Model number	
rPODB [color]	
rPODB 2P [color]	
rPODB DX [color]	
rPODB 2P DX [color]	
rPODBZ DX WH ¹	
	rPODB [color] rPODB 2P [color] rPODB DX [color] rPODB 2P DX [color]

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





LDN6