

### **FEATURES & SPECIFICATIONS**

 $\textbf{INTENDED USE} \ \ \, \textbf{--} \ \, \textbf{Typical applications include corridors, lobbies, conference rooms and private offices.}$ **CONSTRUCTION** — Durable square metal reflectors retained by torsion springs.

Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches.

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.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes.

**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.

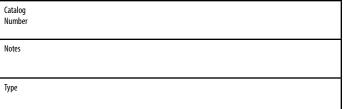
WARRANTY - -- 5 - year limited warranty. Complete warranty terms located at:

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.





LDN4SQ

4" Square Open Non-IC **New Construction Downlight** 











Example: LDN4SQ 35/15 LS4AR LSS MVOLT EZ1





### ORDERING INFORMATION

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

LDN4SQ						
Series	Color temperature	Lumens <sup>1</sup>	Aperture/Trim Color		Finish	Voltage
LDN4SQ 4" square	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens	LS4 Downlight LSW4 Wallwash	AR Clear WR <sup>2</sup> White BR <sup>2</sup> Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 <sup>3</sup> 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 perfor- mance down to 10% EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming perfor- mance down to 1%	SF4 TRW5 TRBL5 EL  ELR  ELSD  ELRSD  E10WCP  E10WCPR  NPP16D6  NPP16DER6	Single fuse White painted flange Black painted flange Emergency battery pack with integral test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack with remote test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack with self-diagnostics, integral test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack with self-diagnostics, remote test switch. Not Certified in CA Title 20 MAEDBS Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB Ilight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). Ilight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	N806 NPS80EZER6  HA09 CP10 WL RRL NLTAIR27.8 NLTAIRER27.8 USPOM	nLight™ Lumen Compensation nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. High ambient option (40°C) Chicago Plenum Wet Location, specify for exterior use applications 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. nLight® Air enabled nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit US point of manufacture

- 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.

- 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
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling instal-
- Fixture height is 5-11/16" for all lumen packages with HAO.
- Must specify voltage for 3000lm. Not available with emergency battery pack option.

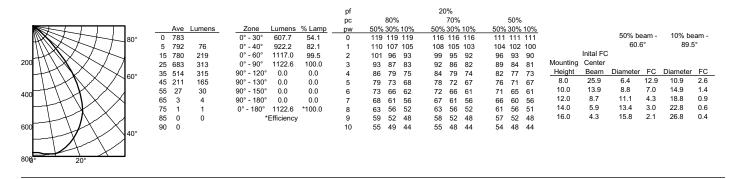
**DOWNLIGHTING** LDN4SQ

# LDN4SQ

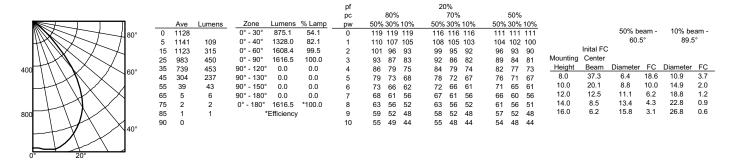
## **PHOTOMETRY**

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

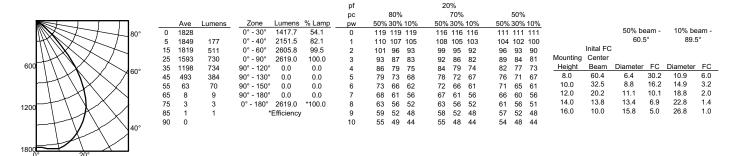
**LDN4SQ 35/10 LS4AR**, input watts: 12.58, delivered lumens: 1122.6, LM/W = 89.23, spacing criterion at 0 = 1.18, test no. ISF 30712P31.



**LDN4SQ 35/15 LS4AR**, input watts: 20.2, delivered lumens: 1616.5, LM/W = 80.02, spacing criterion at 0 = 1.18, test no. ISF 31036P25.



**LDN4SQ 35/20 LS4AR**, input watts: 30.11, delivered lumens: 2619, LM/W = 86.98, spacing criterion at 0= 1.18, test no. ISF 31036P34.



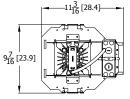
\* All dimensions are inches (centimeters) unless otherwise noted.

### **LDN4 500-1500 LUMEN**

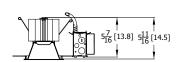
# $\begin{array}{c} 11\frac{3}{16} \, [28.4] \\ \hline \\ 9\frac{7}{16} \, [23.9] \\ \hline \\ \end{array}$ Aperture: 4-5/16 (11)

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

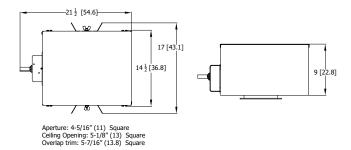
### LDN4 2000-3000 LUMEN



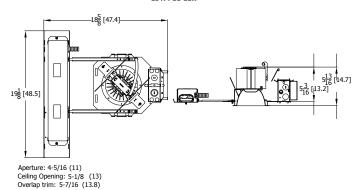
Aperture: 4-5/16 (11) Square Ceiling Opening: 5-1/8 (13) Square Overlap trim: 5-7/16 (13.8) Square











LDN4SQ			
Target Lumens @ Lumen 3500K		Wattage	LPW
500	782.0	8.6	90.9
1000	1122.6	12.6	89.1
1500	1616.5	20.2	80
2000	2025.1	22.5	90
2500	2619.0	30.1	87
3000	2812.8	34.9	80.6

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

### 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 - 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**

COMP	ATIBLE 0-10V WALL-MOUNT DIMI	MERS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE	
	Diva® DVTV		
	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		
Synergy®	SLD LPCS	RDMFC	
	Digital Equinox (DEQ BC)	1	
Douglas Lighting Controls	WPC-5721		
F	Tap Glide TG600FAM120 (120V)		
Entertainment Technol-	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		

# \*\* 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 <a href="https://www.acuitybrands.com/aplus">www.acuitybrands.com/aplus</a>.

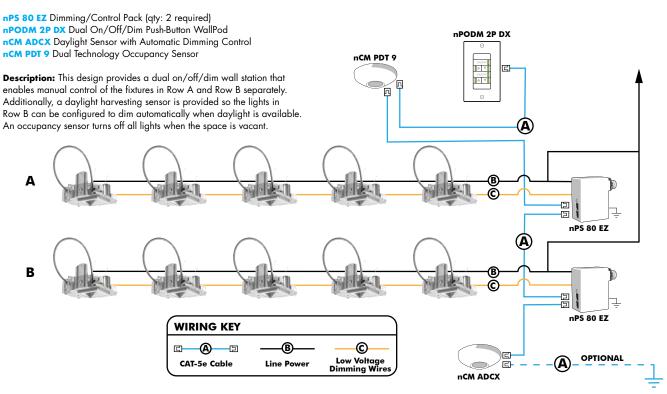
\*See ordering tree for details



### **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 <sup>®</sup> Wired Controls Accessories:					
Order as separate catalo	Order as separate catalog number. Visit <a href="https://www.acuitybrands.com/products/controls/nlight">www.acuitybrands.com/products/controls/nlight</a> 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:

nber. Visit www.acuitybrands.com/products/controls/nlightair.

oracl as separate catalog number. Visit www.acatyoranas.com/products/controls/inig				
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 <sup>1</sup>			

### 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





nLight AIR rPODB 2P DX

