

FEATURES & SPECIFICATIONS

INTENDED USE — 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. 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.

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 60,000 hours.

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

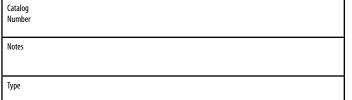
WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

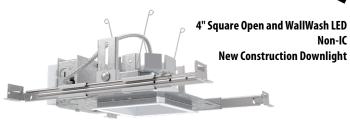
Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



LDN4SQ

















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

Example: LDN4SQ 35/15 LS4AR LSS MVOLT EZ1

LDN4SQ						
Series	Color temperature	Lumens ¹	Aperture/Trim Color	Finish	Voltage	
(LDN4SQ) 4" square	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 20 2000 lume 07 750 lumens 25 2500 lume 10 1000 lumens 30 3000 lume 15 (1500 lumens 40 4000 lume	LSW4 Wallwash WR ² White BR ² Black	LSS Semi-specular LD Matte diffuse LS Specular	MVOLT Multi-volt 120 120V 277 277V 347 ³ 347V	

Driver	Options	
GZ10 0-10V driver dims to 10% GZ1 0-10V driver dims to 10% D10 Minimum dimming 10% driver for use with JOT D1 Minimum dimming 19% driver for use with JOT 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% EDAB eldoLED DALI SOLDRIVE dim to dark	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 ELR6 Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELSD6 Emergency battery pack with self-diagnostics, 10W Constant Power, integral test switch. Not Certified in CA Title 20 MAEDBS ELRSD6 Emergency battery pack with self-diagnostics, 10W Constant Power, remote test switch. Not Certified in CA Title 20 MAEDBS E10WCP6 Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB E10WCP7 Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB NPP16D7 Inlight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). NPP16DER7 Inlight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NLTAIRER2 ^{8,10} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options NLTAIREM2 ^{8,10} nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options. N80° nLight™ Lumen Compensation JOT¹³ Wireless room control with "Just One Touch" pairing

- 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
- 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.
- NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with F710 and F71 drivers
- Not available with CP, NPS80EZ, NPS80EZER,
- NPP16D, NPP16DER or N80 options.
 Fixture height is 5-11/16" for all lumen packages
- Must specify voltage for 3000lm. Not available
- with emergency battery pack option.
 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.

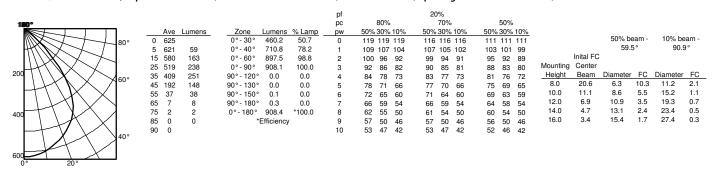
DOWNLIGHTING LDN4SQ

LDN4SQ

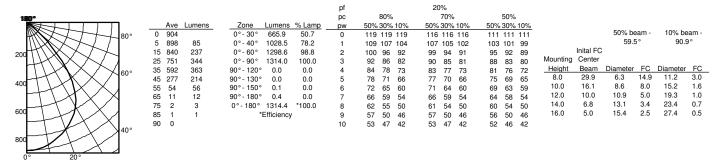
PHOTOMETRY

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: 10.58, delivered lumens: 908.4, LM/W = 85.86, spacing criterion at 0= 1.15, test no. ISF 35250P109



LDN4SQ 35/15 LS4AR, input watts: 17.5, delivered lumens: 1314.4, LM/W = 75.10, spacing criterion at 0 = 1.15, test no. ISF 35250P114.



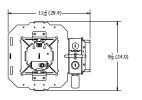
LDN4SQ 35/30 LS4AR, input watts: 32.1, delivered lumens: 2614.1, LM/W = 83.78, spacing criterion at 0 = 1.15, test no. ISF 31036P129.

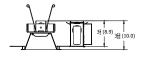
							Pi				20	70										
180°							рс		80%			70%			50%							
		Ave	Lumens	Zone	Lumens	% Lamp	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
80°	0	1797		0°-30°	1324.3	50.7	0	119	119	119	116	116	116	111	111	111			50% be		10% be	
HXIXX	5	1786	169	0°-40°	2045.4	78.2	1	109	107	104	107	105	102	103	101	99			59.5	5°	90.9)°
	15	1670	470	0°-60°	2582.5	98.8	2	100	96	92	99	94	91	95	92	89		Inital FC				
	25	1493	685	0°-90°	2613.2	100.0	3	92	86	82	90	85	81	88	83	80	Mounting	Center				
600	35	1178	721	90° - 120°		0.0	4		78			77			76		Height	Beam	Diameter	FC	Diameter	FC
$1//\times/\times \times \times_{00}$	45	551	426	90° - 130°	0.0	0.0	5			66		70			69		8.0	59.4	6.3	29.7	11.2	5.9
$HT \setminus IX \setminus I$	55	107	111	90° - 150°		0.0	6			60		64			63		10.0	32.0	8.6	16.0	15.2	3.2
	65	21	24	90° - 180°		0.0	7	66		54	66		54		58		12.0	19.9	10.9	10.0	19.3	2.0
	75	5	6			*100.0	8	62		50	61		50		54		14.0	13.6	13.1	6.8	23.4	1.4
1200 \ \ \ \ \		1	1		Efficiency		q	57	50		57				50		16.0	9.9	15.4	4.9	27.4	1.0
		'n	•				10															
40°	30	U					10	55	47	42	55	47	42	32	40	42						
	85 90	0	1	·	Efficiency	,	9 10		50 47	46 42	57 53		46 42		50 46		16.0	5.5	13.4	4.5	27.4	1.0



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

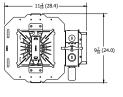
LDN4 500 - 1500 LUMENS

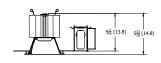




LDN4 2000 - 3000 LUMENS

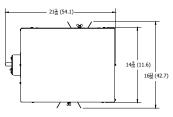
LDN4 EL

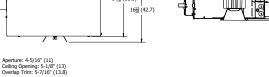




Aperture: 4-5/16" (11) Ceiling Opening: 5-1/8" (1 Overlap Trim: 5-7/16" (13

LDN4 CP





19½ (48.5)

91 (23.0)



9	
	5½ (13.0)
	5½ (13.0) 5½ (14.1)

LDN4SQ							
Nominal	Lumens	Wattage	Lm/W				
500	432.5	5.7	75.3				
750	620	8.6	72.1				
1000	863	10.6	81.6				
1500	1249	17.5	71.4				
2000	1657	22.1	74.9				
2500	2218	26.1	85.0				
3000	2483	32.1	77.4				
4000	3479	43.0	80.9				

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	4000K	5000K			
80CRI	0.950	0.966	1.000	1.025	1.101		

Notes

- Tested in accordance with IESNA LM-79-08.
- $\bullet \ \ \text{Tested to current IES and NEMA standards under stabilized laboratory conditions}.$
- 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







LDN4SQ Series



Sensor Switch **WSXA JOT**

- 1. Power: Install JOT enabled fixtures and controls as instructed.
- 2. 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.

MANUFACTURER	PART NO.	POWER BOOSTER	
		AVAILABLE	
	Diva® DVTV	4	
Lutron®	Diva® DVSCTV	_	
24.1011	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		
U	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 Discosion	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V		
HUNT Dimming	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		

****** 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.

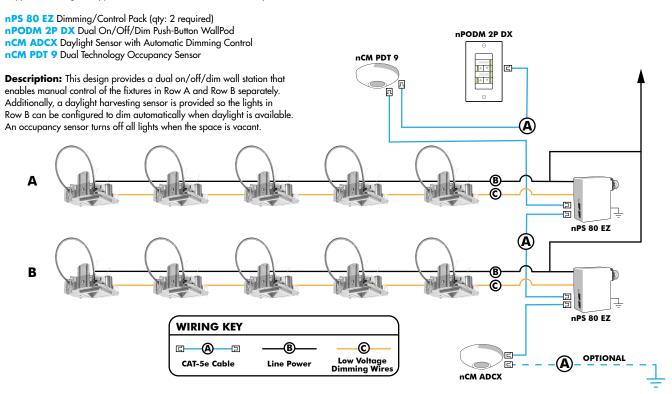
*See ordering tree for details



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 catalo	Order as separate catalog number. Visit 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.

oraci as separate catalog number. Visit www.acartyoranas.com, produces, controls, in					
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

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

LDN4SQ

