

# 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 bottomhinged 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 MacAdam Ellipse; 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.

A+ 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 when used with Acuity Brands controls products. All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates. To learn more about A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equeal to or less than 60deg per CIE 117-1996 Discomfort Galre in Interior Lighting. UGR FAQs

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.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. Drivers are ROHS compliant

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also

qualifies as manufactured in the United States under DOT Buy America regulations.

BABA — Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

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.

# PERFORMANCE DATA

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				

### Notes

Tested in accordance with IESNA LM-79-08 Tested to current IES and NEMA standards under stabilized laboratory conditions Based on LDN4 AR LSS 35K 80CRI



Catalog Number

Notes

Туре

# LDN4 STATIC WHITE





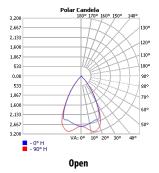


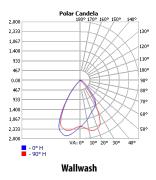
Non-IC

Open Trim

Wallwash Trim

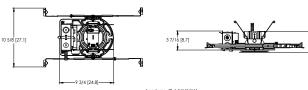
# DISTRIBUTIONS





### DIMENSIONS

### LDN4 500-2000 Lumens



Aperture: Ø 4-5/16" [11] Ceiling Cutout: Ø 5-1/8" [13] Self-flanged Overlap Trim: Ø 5-7/16" [13.8] Ceiling Cutout: Ø 5-1/4" [13.3] Flangeles

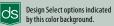
See page 4 for other fixture dimensions

3 13/16 [9.7]

# LDN4

SF‡

Single fuse



ORDERING INFORM	INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.					Ex	cample: LDN43	35/15 LO4 A	R LSS MVOLT EZ1			
LDN4												
Series	Color temperature	Lumens ‡			Trim Style	Trim Color			Trim	n Finish	Flange Co	lor <del>‡</del>
LDN4 4" round	30/ 3000K 35/ 3500K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens	20 2000 lui 25 2500 lui 30 3000 lui 40 4000 lui	mens mens	LO4 Downlight LW4 Wallwash	AR WR <b>‡</b> BR <b>‡</b> TRALTBD <b>‡</b> TCPC <b>‡</b>	Clear White Black RAL painte Custom pai trim		LSS LD LS	Semi-specular Matte diffuse Specular	TRW TRBL FRALTBD FCPC	White painted flange Black painted flange RAL painted flange only Custom painted flange only
Voltage	Driver		Emergency	;				Control	Input	t‡		
MVOLT Multi-volt   120 120V   277 277V   347 ‡ 347V	use with JOT D1 Minimum dimm use with JOT	ns to 1% ning 10% driver for ning 1% driver for driver with smooth deep dimming own to 1%	Emergency #   (blank) No emergency option   EL Emergency battery pack with integral test switch. 10W   Constant Power, Not Certified in CA Title 20 MAEDBS   ELR Emergency battery pack with remote test switch. 10W   Constant Power, Not Certified in CA Title 20 MAEDBS   ELSD Emergency battery pack with self-diagnostics, 10W   Constant Power, integral test switch. Not Certified in CA Title 20 MAEDBS   ELRD Emergency battery pack with self-diagnostics, 10W   Constant Power, remote test switch. Not Certified in CA Title 20 MAEDBS   ELRSD Emergency battery pack, 10W Constant Power with self-diagnostics, 10W   Constant Power, remote test switch. Not Certified in CA Title 20 MAEDBS   E10WCP Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDBS   E10WCPR Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDBS   E10WRSTAR Emergency battery pack, 10W with remote test switch and lota STAR technology		AEDBS ch. 10W AEDBS 10W fied in 10W ied in CA with EDBS with EDBS	(blank) NPP16D NP16D N80 JOT NPS80EZ NPS80EZ NLTAIRE NLTAIRE	ER Z ZER R2	No control option nLight® network p dimming for non- nLight® network p dimming for non- ER controls fixture nLight® Lumen Co Wireless room con pairing nLight® dimming drivers (EZ10, EZ1) mergency circuit. nLight® Air enable nLight® Air enable nLight® Air Mable with bat nLight® AIR Dimmi UL924 Emergency detection. Available	eldoLED driver power/relay pa eldoLED driver is on emergen impensation trrol with "Just pack controls of back controls of ER controls fix ed ing Pack Wirer n emergency tery pack optic (or pack wirer of the pack of the peration, via	rs (GZ10, GZ1). ck with 0-10V rs (GZ10, GZ1). cy circuit. t One Touch" 0-10V eldoLED -10V eldoLED trures on less Controls. circuit, not ons ess Controls. power interrupt		

Options	
HAO <b>‡</b> CP <b>‡</b>	High ambient option (40°C) 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.
BAA	Buy America(n) Act and/or Build America Buy America Qualified
90CRI	High CRI (90+)



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit <u>www.acuitybrands.com/designselect</u>. \*See ordering tree for details

(Maximum order quantity for design select lead times is 160.)

	<b>‡</b> Option Value Ordering Restrictions				
Option value	Restriction				
Lumen Packages	Overall height varies based on lumen package, refer to dimensional charts on page 4				
WR, BR	Not available with finish (LSS, LD, LS)				
TRALTBD, FRALTBD	RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options. Not available with TCPC or FCPC				
TRW, TRBL	Available with clear (AR) trim color only				
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details. Not available with TRAL or FRAL				
347	Not available with emergency options				
All Emergency	12.5" of plenum depth or top access required for battery pack maintenance.				
NPP16D, NPP16DER	Not available with MVOLT. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.				
SF	Must specify 120 or 277 volt				
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.				
NPP16D, NPP16DER, NPPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.				
NLTAIR2, NLTAIRER2, NLATAIREM2	Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. Not recommended for metal ceiling installations.				
NLTAIR2	When combined with EZ1 or EZ10 drivers, can be used as a normal power				
JOT	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.				
HAO	Fixture height is 5-11/16" for all lumen packages with HAO.				
СР	Must specify voltage for 3000lm. Not available with emergency battery pack option.				
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch.				

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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				
SCA4	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D.				

# **Emergency Battery Pack Options - Field Installable**

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL 924 Listed products that are certified for field install external/remote to the fixture. \*Minimum delivered lumen output to assist in product selection for increased fixture mounting height. The CP10 delivered emergency illuminations outperforms legacy 1400 lumen fluorescent emergency ballasts. Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

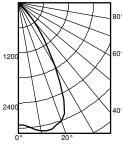


# LDN4

# **PHOTOMETRY**

#### **Distribution Curve Distribution Data Output Data** Illuminance Data at 30" Above Floor for a Single Luminaire

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.



•			-			
		Ave	Lumens	Zone	Lumens	
80°	0	2927		0°-30°	2301.2	
	5	2989	290	0°-40°	2968.2	
	15	3120	875	0°-60°	3121.1	
	25	2575	1136	0°-90°	3122.6	
60°	35	1062	667	90°-120°	0.0	
00	45	149	148	90°-130°	0.0	
	55	3	5	90°-150°	0.0	
	65	2	1	90°-180°	0.0	
	75	0	0	0°-180°	3122.6	
	85	0	0	*	Efficiency	
	90	0				

	Lumens	% Lamp								
	2301.2	73.7				50% be		10% be		
	2968.2	95.1				55.6	6°	78.0	0	
	3121.1	100.0			Inital FC					
	3122.6	100.0	Mo	unting	Center					
þ	0.0	0.0	H	eight	Beam	Diameter	FC	Diameter	FC	
þ	0.0	0.0		3.0	96.8	5.8	48.4	8.9	9.7	
þ	0.0	0.0	1	0.0	52.0	7.9	26.0	12.2	5.2	
þ	0.0	0.0	1	2.0	32.4	10.0	16.2	15.4	3.2	
	3122.6	*100.0	1	4.0	22.1	12.1	11.1	18.6	2.2	
*1	Efficiency		1	6.0	16.1	14.2	8.0	21.9	1.6	

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

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.

### Notes

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

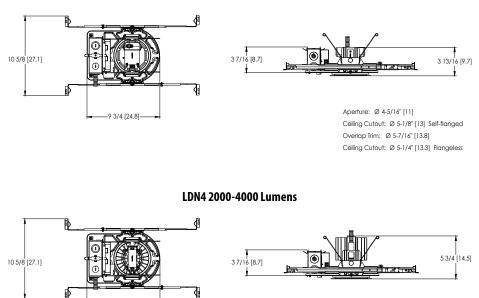
• Tested to current IES and NEMA standards under stabilized laboratory conditions.

• CRI: 80 typical.



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

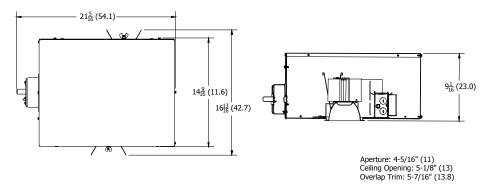
LDN4 500-2000 Lumens



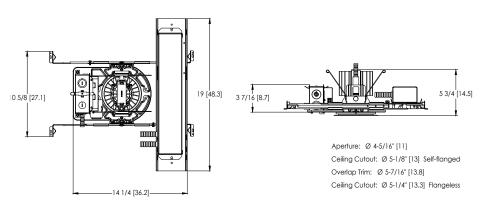
Aperture: Ø 4-5/16" [11] Ceiling Cutout: Ø 5-1/6" [13] Self-flanged Overlap Trim: Ø 5-7/16" [13.8] Ceiling Cutout: Ø 5-1/4" [13.3] Flangeless

LDN4 CP

-9 3/4 [24.8]-



LDN4 EL



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### **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



LDN4 Series



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Sensor Switch WSXA JOT



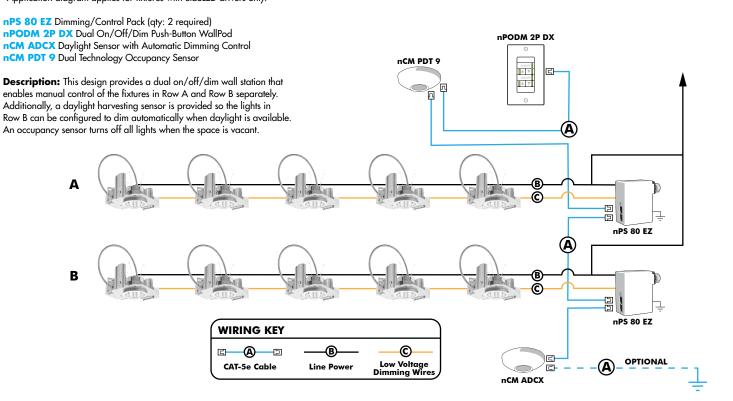
- Power: Install JOT enabled fixtures and controls as instructed.
- **2. Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- **3. Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS					
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE			
	Diva* DVTV				
	Diva® DVSCTV				
Lutron®	Nova T <sup>®</sup> 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				
	Tap Glide TG600FAM120 (120V)				
Entertainment Technology	Tap Glide Heatsink TGH1500FAM120 (120V)	]			
	Oasis 0A2000FAMU				
Heneuwell	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	]			
Lehigh Electronic Products	Solitaire	РВХ			
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				



### EXAMPLE

Group Fixture Control\* \*Appiication 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 catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.						
WallPod Stations Model number Occupancy sensors Model Number						
0n/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:

On/Off & raise/lower two pole

On/Off & raise/lower single pole

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]

rPODB 2P DX [color]

rPODBZ DX WH1

### Notes

Can only be ordered with the RES7Z zone control sensor version. 1

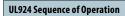
### nLight AIR

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  $\mathsf{CL}\mathsf{AIR}\mathsf{ITY}$  app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



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 com-
- mands, 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.



Mobile Device

