

## **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 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** — <u>UGR</u> is zero for fixtures aimed at nadir with a cut-offequal to or less than 60deg, per CIE 117-1996 Discomfort Glare in Interior Lighting.

**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. L70/60,000 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 <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: <u>www.acuitybrands.com/support/warranty/terms-and-conditions</u>

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**

LDN6 3500K AR LSS 80CRI						
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			

#### Notes

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

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



Catalog Number

Notes

Туре

# LDN6 STATIC WHITE



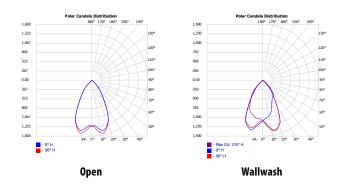




Open Trim

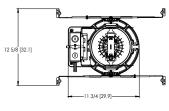
Wallwash Trim

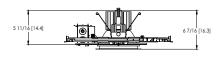
## DISTRIBUTIONS



## DIMENSIONS

#### LDN6 500-3000 Lumens





Aperture: Ø 6-1/4" [15.9] Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged Overlap Trim: Ø 7-1/2" [19.1]

See page 4 for other fixture dimensions

# LDN6

LDN6													
Series	Color temp	erature	Lumens‡	Trim Style	Trim Color		Trim	Finish	Flange Co	lor ‡		Voltage	
LDN6 6" round	27/ 270 30/ 300 35/ 350 40/ 400 50/ 500	ОК ОК ОК ОК	05     500 lumens       07     750 lumens       10     1000 lumens       15     1500 lumens       20     2000 lumens       25     2500 lumens       30     3000 lumens       40     4000 lumens       50     5000 lumens	LO6 Downlight LW6 Wallwash	AR WR <b>‡</b> BR <b>‡</b> TCPC <b>‡</b> TRALTBD <b>‡</b>	Clear White Black Custom painted trim RAL painted trim	LD	Semi-specular Matte diffuse Specular		Black pain Custom pa	ited flange ted flange inted flange only d flange only	MVOLT 120 277 347 <b>‡</b>	Multi-volt 120V 277V 347V
Driver		Emergen	cy ‡		Control Inp	ut‡				Optio	ons		
GZ10 0-10V driver d GZ1 0-10V driver d D10 Minimum din driver for use D1 Minimum din driver for use EZ1 0-10V eldoLEI smooth and fl free deep dim performance EDAB eldoLED DALI dim to dark	ims to 1% ming 10% with JOT ming 1% with JOT driver with icker- ming down to 1%	(blank) EL ELR ELSD ELRSD E10WCP E10WCPR E10WRSTA	No Emergency Needd Battery pack (10W cc non-T20 compliant, i Battery pack (10W cc non-T20 compliant, i Self-diagnostic batte constant power), noi integral test switch Self-diagnostic batte constant power), noi remote test switch Battery pack (10W cc compliant, integral t Battery pack (10W cc compliant, remote test R Emergency battery p remote test switch a technology	onstant power), ntegral test switch unstant power), remote test switch ery pack (10W h-T20 compliant, ery pack (10W h-T20 compliant, h-T20 compliant, set switch unstant power), T20 est switch uack, 10W with	(blank) JOT NPP16D NPP16DER NPS80EZ NPS80EZER N80 NLTAIR2 NLTAIRER2	nLight® netw ming for non- nLight® netw dimming for r controls fixtuu nLight® dimm drivers (EZ1). nLight® dimm ers (EZ1). ER co nLight® Lume nLight® Air en nLight® Air en nLight® Air en nLight® AIR D	n contro ork pow eldoLEI ork pow non-eld res on e ning pac ontrols en Comp nabled Vimming res on e back opt imming	ol with "Just One To ver/relay pack with D drivers (GZ10, GZ ver/relay pack with oLED drivers (GZ10, mergency circuit. ck controls 0-10V ef fixtures on emerge pensation g Pack Wireless Co mergency circuit,	h 0-10V dim- 71). h 0-10V O, GZ1). ER eldoLED eldoLED driv- ency circuit. ntrols. not available ntrols. UL924	BAA 90CR SF <del>+</del>	Chicago Plenun RELOC®-ready I enable a simple installed optior brands. Refer tv nomenclature. RRLB, RRLAE, a Buy America (n) America Buy Ar	n uminaire c and consi across all RRL for cc Available c nd RRLC12 Act and/o	onnectors stent factory ABL luminaire omplete only in RRLA, S. r Build

	Option Value Ordering Restrictions
Option value	Restriction
Lumens	Overall height varies based on lumen package; refer to dimensional chart.
WR, BR	Not available with finishes.
347	Not available with emergency options.
SF	Must specify voltage 120V or 277V.
TRW, TRBL	Available with clear (AR) reflector only.
EL, ELR, ELSD, ELRSD, E10WCP, E10WCPR	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER, NPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed. See UL 924 Sequence of Operation table.
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ1 drivers.
NLTAIR, NLTAIR2, NLTAIRER2, NLTAIREM2	Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. not recommended for metal ceiling installations.
HAO	Fixture height is 6.5" for all lumen packages with HAO.
СР	Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
TOL	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.
Reloc <sup>®</sup> Options	Refer to RRL specification sheet on acuitybrands.com for further details.
RRLAE	Commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.
RRLC12S	RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.
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
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
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

Accessories: Order as separate catalog number.							
EAC ISSM 375	Compact interruptible emergency AC power system	SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D,				
EAC ISSM 125	Compact interruptible emergency AC power system		25D, 30D). Ex: SCA6 10D				
GRA68 JZ	Oversized trim ring with 8" outside diameter						



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 112.)



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

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
<u>ILB CP07 2H A</u>	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 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 illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at <u>techsupport@iotaengineering.com</u> for any Emergency Battery related questions.

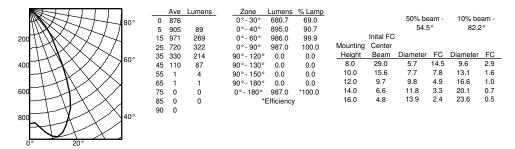


## LDN6

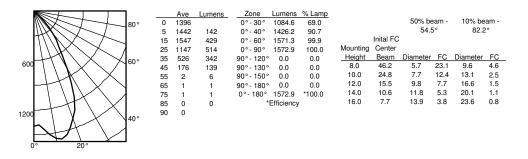
## PHOTOMETRY

<b>Distribution Curve</b>	<b>Distribution Data</b>	Output Data	Illuminance Data at 30" Above Floor for
			a Single Luminaire

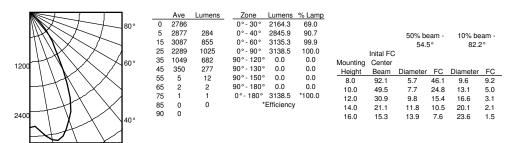
LDN6 35/10 LO6AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0 = 1.02, test no. ISF 30716P262.



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.



HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MOD		JME
Use the formula below to estimate the delivered lumens		
in emergency mode	Sp	ecul
Delivered Lumens = 1.25 x P x LPW	Se	mi-s
P = Ouput power of emergency driver. P = 10W for PS1055CP	Ma	atte
LPW = Lumen per watt rating of the luminaire. This information is available	able Pa	inte
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.

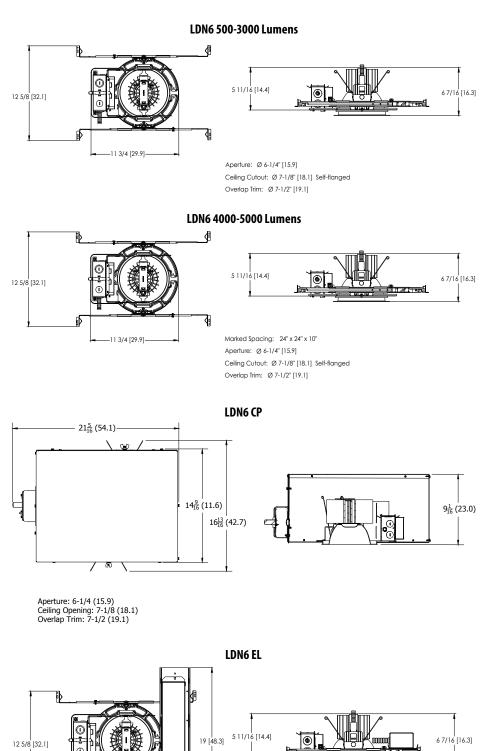


LUMEN OUTPUT MULTIPLIERS - FINISH						
	Clear (AR)	White (WR)	Black (BR)			
Specular (LS)	1.0	N/A	N/A			
Semi-specular (LSS)	0.950	N/A	N/A			
Matte diffuse (LD)	0.85	N/A	N/A			
Painted	N/A	0.87	0.73			

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

LUMEN OUTPUT N	IULTIPLIERS - CRI
80	1.0
90	0.874

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



Marked Spacing above 3000lm: 24" x 24" x 10" Aperture: Ø 6-1/4" [15.9] Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged Overlap Trim: Ø 7-1/2" [19.1]



Þ

-15 1/4 [38.8]-

## **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



C) 8



- 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.

LDN6 Series



Sensor Switch WSXA JOT

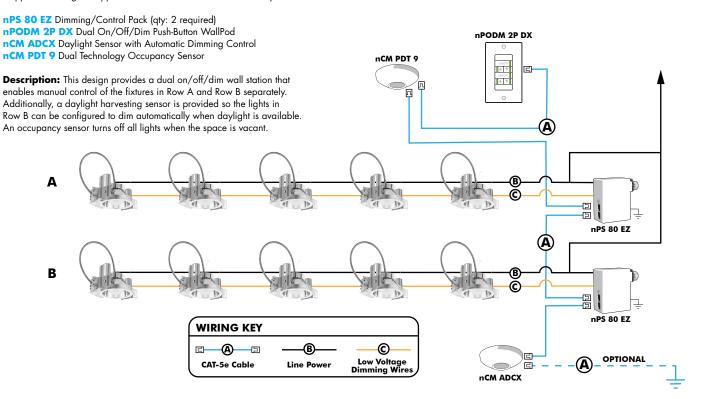
C	OMPATIBLE 0-10V WALL-MOUNT DIMMERS	
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
	Diva® DVTV	
Lutron®	Diva® DVSCTV	]
	Nova T <sup>®</sup> NTFTV	]
	Nova® NFTV	]
	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
Leviton®	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	]
	IllumaTech® IP7 Series	
Synergy <sup>®</sup>	ISD BC	
	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
noneyweii	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	1
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 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, 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 <sup>1</sup>

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

Mobile Device

**UL924 Sequence of Operation** 

The below information applies to all nLight AIR devices with an EM option.

normal power sensing device to receive NPS broadcasts.

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 CL**AIR**ITY+ mobile app, EM devices must be associated with a group that includes a

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.



LDN6