

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 ½"-3/4" and four ½" 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.

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.

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.



LDN6

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 05 500 lume 30/ 3000K 10 1000 lum 35/ 3500K 15 1500 lum 40/ 4000K 20 2000 lum 50/ 5000K 5000 k 500 k	ens 30 3000 lumens ens 40 4000 lumens	LO6 Downlight LW6 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 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 1% 	SF4Single fuseTRW5White painted flangeTRBL5Black painted flangeEL6Emergency battery pack with integral test switchELREmergency battery pack with remote test switchELSDEmergency battery pack with self-diagnostics, integral test switchELSDEmergency battery pack with self-diagnostics, remote test switchE10WCPEmergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switchE10WCPREmergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switchNPP16D7nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).NPP16DER7nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NPS80EZ ⁷ Light® (EZ10, EZ) NPS80EZER ⁷ nLight® EZ1). ER HA0 ¹¹ High am CP ¹² Chicago WL Wet Loc RRL RELOC®. consiste brands. only in F NLTAIR2 ^{9,10} nLight® NLTAIRER2 ^{9,10} nLight®	 ⁴ Lumen Compensation ⁴ dimming pack controls 0-10V eldoLED drivers Z1). dimming pack controls 0-10V eldoLED drivers (EZ10, controls fixtures on emergency circuit. nbient option Plenum ready luminaire connectors enable a simple and ent factory installed option across all ABL luminaire Refer to RRL for complete nomenclature. Available RRLA, RRLB, RRLAE, and RRLC12S. 'Air enabled AIR Dimming Pack Wireless Controls. Controls on emergency circuit to manufacture

Accessories: Order as separate catalog number.

EAC ISSM 375 Compact interruptible emergency AC power system

EAC ISSM 125 Compact interruptible emergency AC power system

Sloped ceiling adapter.

Oversized trim ring with 8" outside diameter 1

Notes 1 Ove

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
 Not available with emergency options.
- 4 Must specify voltage 120V or 277V.
- 5 Available with clear (AR) reflector only.
- 6 Add "SD" for self-diagnostic option (i.e. ELSD)
- 7 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.

9 Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.

8

- 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.

GRA68 JZ

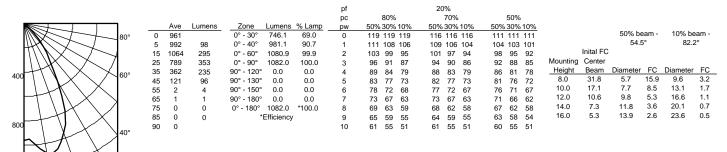
SCA6

LDN6

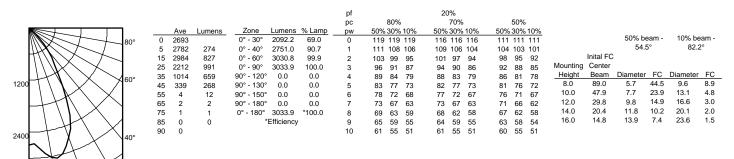
PHOTOMETRY

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

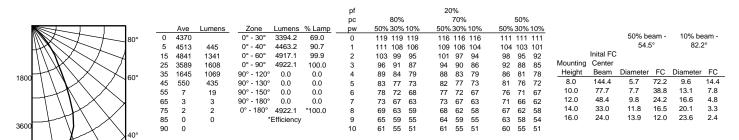
LDN6 35/10 L06AR, input watts: 12.75, delivered lumens: 1082, LM/W = 84.86, spacing criterion at 0= 1.02, test no. ISF 30716P31.



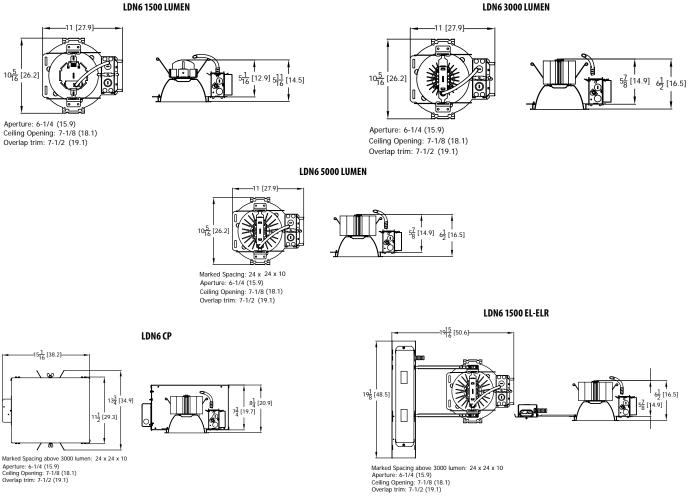
LDN6 35/30 LO6AR, input watts: 34.69, delivered lumens: 3033.9, LM/W = 87.45, spacing criterion at 0 = 1.02, test no. ISF 30716P22.



LDN6 35/50 LOGAR, input watts: 55.56, delivered lumens: 4922.1, LM/W = 88.59, spacing criterion at 0 = 1.02, test no. ISF 30716P40.



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



Marked Spacing above 3000 lumen: 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					
Target Lumens@ Lumen 3500K		Wattage	LPW		
500	662.2	7.6	87.1		
1000	1082.0	12.8	84.5		
1500	1606.0	20.5	78.3		
2000	2023.0	22.6	89.5		
2500	2529.5	27.1	93.3		
3000	3034.0	34.7	87.4		
4000	3977.5	44.1	90.2		
5000	4922.2	55.5	88.7		

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.

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

С0	MPATIBLE 0-10V WALL-MOUNT DIMMER	S
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
	Diva® DVTV	
Lutron®	Diva® DVSCTV]
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)]
Douglas Lighting Controls	WPC-5721	
	Tap Glide TG600FAM120 (120V)	
Entertainment Technol-	Tap Glide Heatsink TGH1500FAM120 (120V)	1
ogy	Oasis 0A2000FAMU	1
llen en en ll	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	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	

Section 2 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.

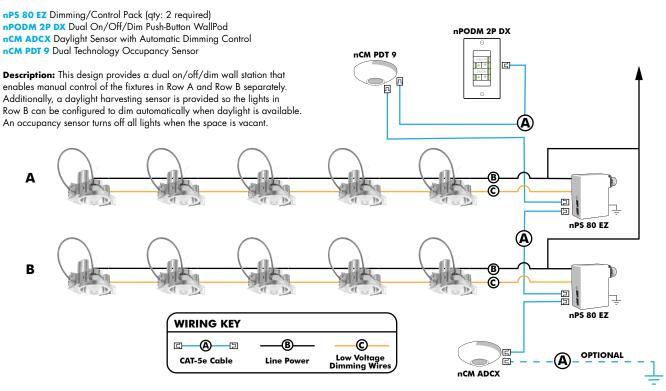
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

*See ordering tree for details

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.



nLight® AIR Control Accessories:

On/Off & raise/lower single pole

On/Off & raise/lower single pole

On/Off & raise/lower two pole

Wall switches

Notes

1

On/Off single pole On/Off two pole

 Graphic Wallpod

 Push-Button Wallpod
 Full color touch screen

 Traditional tactile buttons
 provides a sophisticated

 and LED user feedback
 look and feel

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Model number rPODB [color]

rPODB 2P [color]

rPODB DX [color]

rPODBZ DX WH

rPODB 2P DX [color]

	nLight [®] Wired Controls Accessories:					
Order as separate catalo	og number. Visit <u>www.</u>	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

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 Indy L-Series Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.









- 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



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