DESCRIPTION

6 inch LED recessed narrow beam downlight specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Lumen packages include 1000 and 1500 delivered lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. Suitable for commercial construction and exceeds high efficacy requirements (with designated trims) for IECC-2009.

PORTFOLIO[™]

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Lower Shielding Reflector Self-flanged, spun .050" thick aluminum lower reflector in combination with a lensed upper optical chamber provides superior lumen output with minimal source brightness. Available in all Portfolio Alzak® finishes.

Trim Retention

Lower reflector is retained with two torsion springs holding the flange tightly to the finished ceiling surface.

Plaster Frame / Collar

New Construction Housing: Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Remodel Housina: Galvanized steel plaster ring adjusts to accept up to 1" ceiling thickness.

Universal Mounting Bracket

Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling (new construction housing only).

Junction Box

(4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring.

Thermal

Extruded aluminum heat sink conducts heat away from the LED module for improved performance and longer life.

LED

LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling.



Driver can be serviced from above or through the aperture.

Environmental

Fixture should not be operated in ambient temperatures above 40° C.

Code Compliance

Thermally protected and cULus listed for protected wet locations. IP54 Certified. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards.

Warranty 5 year warranty.

TOP VIEW - REMODEL

TOP VIEW - NEW CONSTRUCTION

12 1/4" [312mm]

12 3/4" [324mm]

16 13/16" [472mm] -

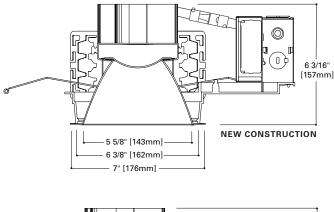
TOP VIEW - NEW CONSTRUCTION WITH BATTERY

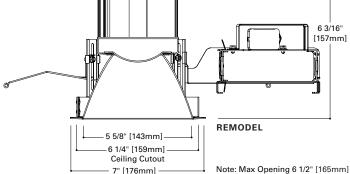
11 1/8" [281mm]

11 5/16" [287mm]

13 3/8"

[339mm]







Specifications and dimensions subject to change without notice. Consult your representative for additional options and finishes.

LD610 LD615 **LD6R10 LD6R15**

6LN

LED

6 Inch Narrow Downlight New Construction or Remodel



Qualified & Compliant with designated LED modules and trims,

Energy Data				
Sound Rating: Class A standards				
Operating Temperature: 40°C (104°F)				
1500 l	.umen			
(Values at non-dim	iming line voltage)			
Minimum Starting Temp: -				
EMI/RFI: FCC Title 47 CFR, (Consumer)	Part 18, Class B			
Input Voltage: UNV (90V -	305V)			
Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Ouput Power)				
Input Power: 24.8W	THD: <21%			
120V Input Current: .21A 277V Input Current: .09A				
Maximum Non-IC Ambient Continuous				
Input Frequency: 47-63Hz				
Rated Wattage: 24.8W				
1000 Lumen D120 / D010				
(Values at non-dimming line voltage)				
Minimum Starting Temp: -30°C (-22°F)				
EMI/RFI: FCC Title 47 CFR, Part 18, Class B (Consumer)				
Input Voltage: 120/120-305V				
Power Factor: >0.90				
Input Power: 14.3W	THD: <20%			
Input Frequency: 50/60Hz				
Rated Wattage: 14.3W/17.5W				

ORDERING INFORMATION

Example:

LD615D010 ERN6835 6LN0LI = 6" LED Narrow Beam Reflector Lens, 1500 lumen 3,500 K CCT with Universal 120 - 277V, 0 - 10 Driver

Housing	Delivered Lumens		Driver Options	Power Module	Color	Reflector	Finish	Options	Accessories
LD6 = 6" aperture LD6CP = 6" aperture, Chicago Plenum LD6R = 6" aperture remodel LD6RCP = 6" aperture remodel, Chicago Plenum	10 = 1000 lumens 15 = 1500 lumens	D010 = 10 to 100% dimming, 120-277V, 50/60Hz, 0-10V D120 = 15 to 100% dimming, 120V, 2 wire phase control, (1000 lumen only) DLUT = 1 to 100% dimming, 120-277V Lutron Hi-lume	EM = lota Emergency module with remote test switch ² EMBOD = Bodine Emergency module with remote test switch ^{2, 4} IEM = lota Emergency with integral test switch ^{2, 5} IEMBOD = Bodine Emergency with integral test switch ^{2, 4, 5}	ERN6 = 6" modu for narrow bean reflector 827 = 80 CRI, 2700 835 = 80 CRI, 3000 840 = 80 CRI, 3000 840 = 80 CRI, 400 827CP = 80 CRI, 27 Chicago Plenum 830CP = 80 CRI, 30 Chicago Plenum 835CP = 80 CRI, 40 Chicago Plenum	° K ° K ° K 700° K, 000° K,	6LN0 = Narrow reflector, polymer trim ring 6LN1 = Narrow reflector, self- flanged 6LN0E = Narrow reflector, polymer trim ring for use with IEM integral emergency option 6LN1E = Narrow reflector, self- flanged for use with IEM integral emergency option	WHH = Wheat Haze GP = Graphite GPH = Graphite Haze CC = Chocolate CCH = Chocolate Haze K = Cognac KH = Cognac Haze B = Specular Black W = Gloss White	HB26 = C Char Pair HB50 = C Char Pair RMB22 = Woo Long, Pair H277 = 277 to transformer, 7 H347 = 347 to transformer, 7 H347200 = 34 transformer, 2 HSA6 = Slope Housings, Spe	-fianged only) Innel Bar Hanger, 26" Long, Innel Bar Hanger, 50" Long, d Joist Bar Hanger, 22" 120V step down 00VA 120V step down 5VA 7 to 120V step down 00VA Adapter for 6" Aperture cify Slope
2 Not available	e with Chica	ens will vary dependir go Plenum. [,] trim ring (Consult sp				nd options).		TRR6 = Rimles DT6 = Deco tri	

Candela Distribution

Candela

3478

3118

1628

779

374

65

3

1

0 0

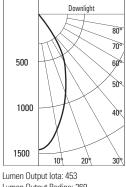
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4 Not CSA approved.

5 Not available with remodel.

PHOTOMETRICS

Candlepower Distribution Curve



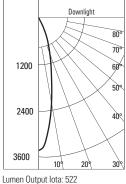
Test No. P83010 LD615D010 ERN6835 6LN1H Lumens = 1208 Watts = 24.4 Watts LPW = 49.5 CCT = 3500K SC = 0.8				
Cone of Light Distance Initial Fixture to Floctcandles Lighted Plane at Nadir				
By 23 6.5' 9' 18 7' 10' 15 8' 12'6" 9 10' 15' 7 10'				

Candela Dis	stribution	Zonal Lumen S	Summary	
Degrees	Candela	Zone	Lumens	%Fixture
Vertical		0-30	813	67.3
		0-40	1088	90.1
0	1469	0-60	1196	99.0
5	1417	0-90	1208	100.0
15 25	1120 797	90-180	0	0.0
25 35	446	0-180	1208	100.0
45	105	Luminance		
55	22	Luiiiiiaiice		1
65	8	Average Can		
75	2	Degrees	Avg. 0° Luminance	
85	0	45	4260	
90	0	55	548	

Lumen Output Bodine: 269

PHOTOMETRICS

Candlepower Distribution Curve



Lumen Output Bodine: 310

			eunuoru 210		
Test No. P83066			Degrees		
LD615D010 ERN6835 6LN1LI			Vertical		
Lumens = 13	0				
Watts = 24.4	5				
LPW = 57.0	15				
CCT = 3500k	25				
SC = 0.5	35				
Cone of Lig	45				
Distance	Initial	55			
Fixture to	Footcandles	65			
Lighted Plane	at Nadir	75			
8' 54 4'			85		
9' 43 4'			90		
5 43 4 10' 35 4.5' 12'6" 22 6' 15' 15 7'					

Zonal Lumen Summary

65

75

85

Zone	Lumens	%Fixture
0-30	1101	79.0
0-40	1332	95.6
0-60	1391	99.9
0-90	1393	100.0
90-180	0	0.0
0-180	1393	100.0

298

243

0

Luminance

Average Candela/M ²		
Degrees	Avg. 0° Luminance	
45	4279	
55	269	
65	122	
75	0	
85	0	



ABR6P = Remodel Adaptor Ring for 7" OD

ABR7P = Remodel Adaptor Ring for 8" OD **ABR8P** = Remodel Adaptor Ring for 9" OD