DESCRIPTION

6 inch LED recessed wide downlight specially designed for below ceiling installation. 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 Title 24-2008 and 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 Housing: 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 3step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling.

Driver

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. Title 24 2008 Compliant with designated trims. ARRA 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 - NEW CONSTRUCTION



TOP VIEW - NEW CONSTRUCTION WITH BATTERY





LD610 LD615 LD6R10 LD6R15

6LW

LED

6 Inch Wide Beam Downlight



Qualified & Compliant with designated LED modules and trims.

Energy Data					
Sound Rating: Class A standards					
Operating Temperature: 4	D°C (104°F)				
1500 l	Lumen				
(Values at non-dim	nming line voltage)				
Minimum Starting Temp: -	30°C (-22°F)				
EMI/RFI: FCC Title 47 CFR, Part 18, Class B Consumer)					
nput Voltage: UNV (90V -	305V)				
Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Ouput Power)					
nput Power: 24.8W	THD: <21%				
20V Input Current: .21A 277V Input Current: .09A					
Maximum Non-IC A	Ambient Continuous				
nput 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)					
nput Voltage: 120/120-305V					
Power Factor: >0.90					
nput Power: 14.3W THD: <20%					
nput Frequency: 50/60Hz					
Rated Wattage: 14.3W/17.5W					

F



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

ORDERING INFORMATION

Example:

LD615D010 ERW6835 6LW0LI = 6" LED Wide Reflector Lens, 1500 lumen 3,500 K CCT with Universal 120 - 277V, 0 - 10 Driver

Housing	Delivered Lumens ¹	Driver	Options	Power Module	Color	Reflector	Finish	Options	Accessories
2 Not availab	le with Chicag	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	oved.		• K • K • K • K • K • K • K • K • K • K	iicago Plenum iicago Plenum iicago Plenum	K = Cognac K = Cognac R = Specular Black W = Gloss White BB = Black Baffle (6LW0 only) WB = White Baffle (6LW0 only)	IP66 = IP66 HB26 = C Chan Pair HB50 = C Chan Pair RMB22 = Wood Long, Pair H277 = 277 to 1 transformer, 30 H347 = 347 to 1 transformer, 75 H347200 = 347 transformer, 20 HSA6 = Slope A Housings, Spee	flanged only) Certified nel Bar Hanger, 26" Long, nel Bar Hanger, 50" Long, l Joist Bar Hanger, 22" l20V step down 0VA l20V step down VA to 120V step down 0VA dapter for 6" Aperture ify Slope rimi Ring, Specify Color ³

PHOTOMETRICS



Candela Distribution

Candela

964

966

997

885

601

275

57

3

1

0

0

Degrees

Vertical

0

5

15

25

35

45

55

65

75

85

90

PHOTOMETRICS



Test No. P20529 LD615835D010 6LW51LI Lumens = 1427 Watts = 24.8 LPW = 57.5 CCT = 3500K SC = 1.1						
Cone of Lig	ght					
Distance Fixture to Lighted Plane						
5'5" 7' 8' 9' 10'	32 20 15 12 10	6.5' 8' 9' 10.5' 11.5'				

Zonal Lumen S	ummary	
Zone	Lumens	%Fixture
0-30	780	54.7
0-40	1153	80.9
0-60	1420	99.6
0-90	1426	100.0
90-180	0	0.0
0-180	1426	100.0

Luminance

Average Candela/M ²				
Degrees	Avg. 0° Luminance			
45	47953			
55	12253			
65	875			
75	476			
85	0			



PORTFOLIO[™]

	PORTFOLIO LD6* IECC and T24 COMPLIANT HOUSING/TRIM COMPATIBILITY							
ROUPED FAMILY	D010	LD6*15D010 ERS827 - - -	- LD6*15D010 ERS830 - -	- - LD6*15D010 ERS835 LD6*15D010 ERS840	-			
<u>ں</u> م	D120	-	-	-	LD6*10D120 ERS827 LD6*10D120 ERS830 - -	- - LD6*10D120 ERS835 LD6*10D120 ERS840		
HOUSINGS BY DRIVE	ргит		-	-	-	-		
QUALIFYING TRIMS -		6LW*LI**	6LW*LI** 6LW*W**	6LW*WH** 6LW*W+** 6LW*WH**	ETM.TI ETM.AN. ETM.	6LW*CI+* 6LW*W+* 6LW*W+* 6LW*WH+* 6LW*WH+* 6LW*WH+* 6LW*WH+* 6LW*WH+* 6LW*GP**		
CHICAGO PLENUM HOUSINGS/TRIMS ARE ONLY IECC QUALIFIED. FOR CHICAGO PLENUM HOUSINGS SUBSTITUTE LD6CP* FOR LD6* IN ABOVE MATRIX								

