DESCRIPTION

6 inch LED recessed wide downlight specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Lumen packages include 2000 delivered lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. Suitable for commercial construction and exceeds high efficacy requirements (with designated trims) for T24. Energy Star qualified.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

PORTFOLIO™

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".

Universal Mounting Bracket

Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

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 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. Available in 80 or 90 CRI.

Driver

Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. 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. 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 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.

Warrantv

5 year warranty.

TOP VIEW - NEW CONSTRUCTION



Qualified and Compliant. Refer to the **ENERGY STAR® Qualified Product List** and CEC (T24) Appliance Database for listings.

ENERGY DATA Sound Rating: Class A standards Operating Temperature: 40°C (104°F) 2000 Lumen D010TE (Values at non-dimming line voltage) Minimum Starting Temperature: -30°C (-22°F)

LD6A20

2000 Lumen LED

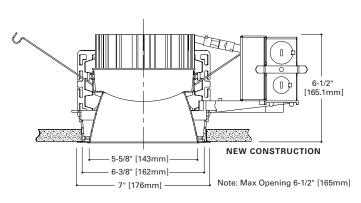
Wide Beam Downlight

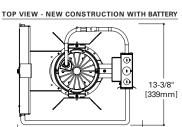
New Construction

6LW

6-Inch

	EMI/RFI: FCC Title 47 CFR,	Part 15, Class B (Consumer)
	Input Voltage: U	NV (120V - 277V)
12-1/4" [312mm]		al input 120-277 VAC & 100% of put Power)
← 12-1/4 [312HHH] →	Input Power: 31.5W	THD: <20%
	120V Input Current: .27A	277V Input Current: .12A
W - NEW CONSTRUCTION WITH BATTERY	Maximum Non-IC	Ambient Continuous
W - NEW CONSTRUCTION WITH BATTERY	Input Freque	ency: 50-60Hz
(a) 13-3/8"		





16-13/16" [472mm] -





ORDERING INFORMATION

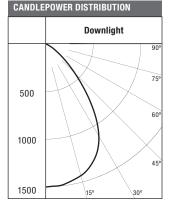
EXAMPLE: LD6A20D010TE ERW6A20835 6LW1LI=6" LED Wide Beam Reflector, 2000 Lumen 3,500 K Color with Universal 120 - 277V, 0 - 10 Driver

Housing	Lumens ¹	Driver	Options	Power Module	CRI	Color
LD6A=6" Aperture LD6ACP=6" Apeture, Chicago Plenum	20 =2000 Lumens	D010TE=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming D5LT=Fifth Light* (DALI) Dimming DL3=1 to 100% Dimming, 120-277V Lutron* Hi-Lume, Ecosystem or 3 Wire DLT=1 to 100% Dimming, 120V Lutron* Hi-Lume Forward Phase Dimming DMX=DMX Dimming	EMBOD= Bodine® Emergency Module with Remote Test Switch 3-4	ERW6A20=6", 2000 Lumen Module for Wide Beam Reflector	8=80 CRI 9=90 CRI	27=2700° K 30=3000° K 35=3500° K 40=4000° K 27CP=2700° K, Chicago Plenum 30CP=3000° K, Chicago Plenum 35CP=3500° K, Chicago Plenum 40CP

Reflector Finish Options Accessories 6LW0=6" Wide Beam Reflector, Self-flanged Only HB26=C-channel Bar Hanger, H347200=347 to 120V Step Down LI=Specular Clear B=Specular Black Polymer Trim Ring 6LW1=6" Wide Beam H=Semi-Specular Clear WMH=Warm Haze W=Gloss White WF=White 26" Long, Pair HB50=C-channel Bar Hanger, Transformer, 200VA Housings, Specify Painted Flange Slope Reflector, Self-flanged G=Specular Gold 6LW0 Only 50" Long, Pair HSA6=Slope Adapter for 6" Aperture BB=Black Baffle WB=White Baffle WH=Wheat RMB22=Wood Joist Bar Hanger, 22" Long, Pair Housings, Specify Slope
TRM6=MetalTrim Ring, Specify Color² WHH=Wheat Haze **GP**=Graphite H277=277 to 120V Step Down TRR6=Rimless Trim Ring² DT6=Deco trim² LGSKT6IP66=IP66 Gasket Kit GPH=Graphite Haze Transformer, 300VA H347=347 to 120V Step Down Transformer, 75VA

- Notes: 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
 2 Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
 - 3 Not available with Chicago Plenum.
 - 4 Not CSA approved.

PHOTOMETRICS



Test Number	P98615
LD6A20D010TE	ERW6A835 6LW1H
Lumens	2179
Efficacy	69.2 Lm/W
Watts	31.5
CCT	3500K
SC	1.13

CONE OF LIGHT			
Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter	
5'5"	49	6.0	
7'	/30	7.8	
8'	23	9.0	
9'	/ 18 \	10.0	
10'	14	11.2	
12'	10	13.4	

CANDELA	IABLE
Degrees Vertical	Candela
0	1491
5	1486
15	1421
25	1258
35	891
45	424
55	147
65	30
75	6
85	1
90	0

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Fixture	
0-30	1114	51.1	
0-40	1664	76.4	
0-60	2134	98.0	
0-90	2179	100	
90-180	0	0	
0-180	2179	100	

LUMINANCE		
Average Candella	Average 0°	
Degrees	Luminance	
45	39074	
55	16709	
65	4662	
75	1638	
85	823	

EMBOD MU	LTIPLIER
2000 Lumen=	31

CANDLEPOWER DISTRIBUTION		
	Downlight	
	90°	
550	75°	
	60°	
1100	45°	
1650	15° 30°	

Test Number	P97715
LD6A20D010TE	ERW6A835 6LW1LI
Lumens	2349
Efficacy	74.6 Lm/W
Watts	31.5
ССТ	3500K
SC	1.17

CONE OF LIGHT			
Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter	
5'5"	52	6.4	
7'	/32	8.0	
8'	24	9.2	
9'	/ 19 \	10.4	
10'	15	11.6	
12' /	11	14.0	

CANDELA	CANDELA TABLE				
Degrees Vertical	Candela				
0	1587				
5	1588				
15	1641				
25	1458				
35	989				
45	453				
55	93				
65	5				
75	2				
85	0				
90	0				

ZONAL LUMEN SUMMARY						
Zone	Lumens	%Fixture				
0-30	1280	54.5				
0-40	1893	80.6				
0-60	2337	99.5				
0-90	2349	100				
90-180	0	0				
0-180	2349	100				

LUMINANCE			
Average Candella	a Average 0°		
Degrees	Luminance		
45	35128		
55	8927		
65	687		
75	381		
85	0		

EMBOD MULTIPLIER 2000 Lumen= 31

PHOTOMETRICS

CCT Multiplication Factors		CCT [K]	Multiplier from 3500K	80 -> 90 CRI
80 CRI	2000 Lumen	2700	0.93	
		3000	0.99	
		3500	1.00	
		4000	1.01	
90 CRI	2000 Lumen	2700	0.88	0.79
		3000	0.94	0.80
		3500	1.00	0.84
		4000	1.03	0.85

