

DESCRIPTION

8-inch LED recessed narrow, medium, or wide beam downlight specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Offered with 1000-15,000 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K available in 80 or 90 CRI. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Self-flanged, spun .060" 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

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

Forged 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. 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. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Combination 0-10V/trailing edge 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. 1000 - 4000 lumen utilize one driver. 5000-10,000 utilize two drivers, 12,000-15,000 lumen utilizes three drivers.

Code Compliance

Thermally protected and cULus listed for protected wet locations. cCSAus 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. 8000 lumen and above are marked spacing and must follow spacing requirements.

Warranty

5-year warranty.

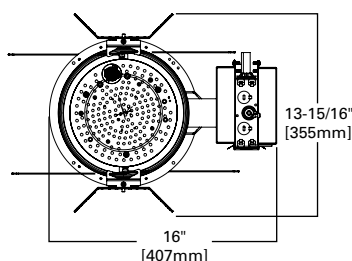
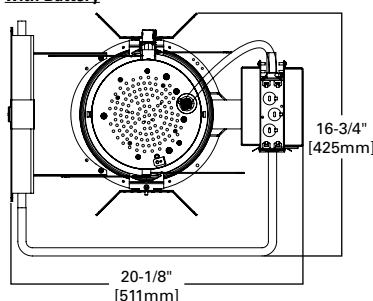


LD8A ER8A 8L

1,000-15,000 Lumen LED

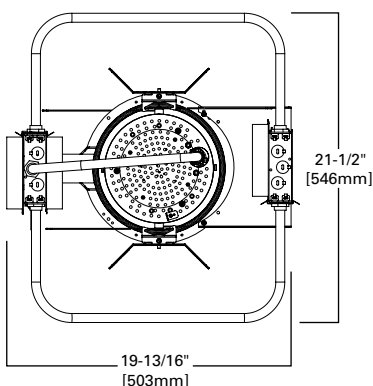
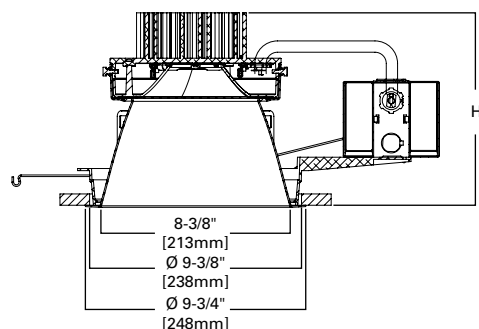
8-Inch Narrow, Medium, or Wide
Downlight
New Construction

with Battery



D2W™

12,000-15,000 Lumen



Distribution	Height
Narrow	9-1/16"
Medium	8-5/8"
Wide	7-7/8"

Showerlight



Refer to ENERGY STAR® Qualified Products List.

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fifthlight
technology



Powering Business Worldwide

ORDERING INFORMATION

EXAMPLE: LD8A501DE010 ER8A50835 8LW111LI= 8" LED Wide Beam Reflector, 5000 Lumen, 3,500 K Color with Universal 120 - 277V, 0 - 10 Driver

Housing	Lumens ¹	Voltage	Driver	Options ²	Power Module	Lumens	CRI	Color
LD8A =8" Aperture LD8ACP =8" Aperture, Chicago Plenum	1 =120V 2 =277V Blank =120-277V 1000 - 4000 lumen only	1000, 1500, 2000, 3000, 4000, 5000, 6000, 8000, 9000, 10,000⁶ 12,000 AND 15,000 LUMEN D010TE =0-10V 10% Dimming or Trailing Edge Dimming ⁴ 1000, 1500, 2000, 3000, 4000, 5000, 6000 AND 8000 LUMEN D5LT =Fifth Light® DALI 0% Dimming DMX =DMX 0% Dimming DE010 =0-10V 0% Dimming 1000, 1500, 2000, 3000, 4000, 5000 AND 6000 LUMEN DL3 =1% Lutron® Hi-Lume 3-Wire or Ecosystem D010TR =0-10V 10% Dimming or Leading Edge ⁴ 6500 LUMEN D010 =0-10V 10% Dimming DE010 =0-10V 1% Dimming	EM7 =7W Emergency Module with Remote Test Switch ³ EM14 =14W Emergency Module with Remote Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ³ IEM14 =14W Emergency Module with Integral Test Switch ³ EMBOD =7W Bodine® Emergency Module with Remote Test Switch IEMBOD =7W Bodine® Emergency Module with Integral Test Switch	ER8A =8" Module ER8ACP =8" Module, Chicago Plenum	10 =1000 Lumens 15 =1500 Lumens 20 =2000 Lumens S30 =3000 Lumens S40 =4000 Lumens 50 =5000 Lumens 60 =6000 Lumens 65 =6500 Lumens 80 =8000 Lumens ⁵ 90 =9000 Lumens ⁵ 100 =10000 Lumens ⁵ 120 =12000 Lumens ⁵ 150 =15000 Lumens ⁵	8 =80 CRI 9 =90 CRI	27 =2700° K 30 =3000° K 35 =3500° K 40 =4000° K 30D2W = Dim to warm 3000° K to 1850° K (2000 lumen and below, 90 CRI)	

Reflector ⁷	Finish	Options	Accessories
8LNO =8" 25" Narrow Reflector, Polymer Trim Ring 8LN1 =8" 25" Narrow Reflector, Self-flanged 8LNOE =8" 25" Narrow Reflector, Polymer Trim Ring for use with IEM Integral Emergency option 8LN1E =8" 25" Narrow Reflector, Self-flanged Trim Ring for use with IEM Integral Emergency option 8LM0 =8" 50" Medium Reflector, Polymer Trim Ring 8LM1 =8" 50" Medium Reflector, Self-flanged	LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze G =Specular Gold WH =Wheat WHH =Wheat Haze GP =Graphite GPH =Graphite Haze	B =Specular Black W =Gloss White 8LM0 Only BB =Black Baffle WB =White Baffle	Self-flanged Only WF =White Painted Flange HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Housings, Specify Slope HSAB =Slope Adapter for 8" Aperture Housings, Specify Slope LGSKT8IP65 =IP65 Gasket Kit PORLWTPD1 =LumaWatt Pro Wireless Sensor Kit (0-10V only)

- Notes:**
1. Nominal Lumens will vary depending on selected color, driver and reflector finish.
 2. Not available with Chicago Plenum.
 3. Not CSA approved.
 4. Trailing edge and leading edge 120V only.
 5. Product is marked spacing and must be installed with the following minimum spacing:
Center to Center of adjacent luminaires : 36"
Center of Luminaire to Side of Building Member : 18"
Minimum Overhead Clearance: 9"
 6. 0-10V recommended
 7. Distribution with LI finish.

ENERGY DATA

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
Power Factor: >0.90
Input Frequency: 50-60Hz

1000 Lumen D010TE	
120V Input Power: 15W	277V Input Power: 16W
120V Input Current: 0.13A	277V Input Current: 0.06A
Inrush 120 (Ap): 0.486	Inrush 277 (Ap): 0.848
Duration 120 (ms): 0.4	Duration 277 (ms): 0.182
THDi 120V: <13%	THDi 277V: <20%

1500 Lumen D010TE	
120V Input Power: 23W	277V Input Power: 24W
120V Input Current: 0.19A	277V Input Current: 0.09A
Inrush 120 (Ap): 0.717	Inrush 277 (Ap): 0.531
Duration 120 (ms): 1.58	Duration 277 (ms): 1.24
THDi 120V: <13%	THDi 277V: <20%

2000 Lumen D010TE	
120V Input Power: 31.5W	277V Input Power: 31.5W
120V Input Current: 0.27A	277V Input Current: 0.12A
Inrush 120 (Ap): 0.717	Inrush 277 (Ap): 0.531
Duration 120 (ms): 1.58	Duration 277 (ms): 1.24
THDi 120V: <13%	THDi 277V: <20%

3000 Lumen D010TE	
120V Input Power: 35W	277V Input Power: 34W
120V Input Current: .30A	277V Input Current: .13A
THD 120V: <10%	THD 277V: <20%

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
Power Factor: >0.90
Input Frequency: 50-60Hz

4000 Lumen D010TE	
120V Input Power: 46W	277V Input Power: 45W
120V Input Current: .39A	277V Input Current: .17A
THD 120V: <13%	THD 277V: <20%

5000 Lumen D010TE	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Power: 62W	THD: <17%
120V Input Current: 52A	277V Input Current: 22A
Inrush 120 (Ap): 0.787	Inrush 277 (Ap): 1.09
Duration 120 (ms): 1.16	Duration 277 (ms): 1.75

6000 Lumen D010TE	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Power: 77W	THD: <17%
120V Input Current: 64A	277V Input Current: 28A
Inrush 120 (Ap): 0.87	Inrush 277 (Ap): 0.96
Duration 120 (ms): 0.39	Duration 277 (ms): 0.31

6500 Lumen D010	
Input Power: 84W	THD: <17%
120V Input Current: 70A	277V Input Current: 30A
Inrush 120 (Ap): 2.88	Inrush 277 (Ap): 3.68
Duration 120 (ms): 0.815	Duration 277 (ms): 1.29

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
Power Factor: >0.90
Input Frequency: 50-60Hz

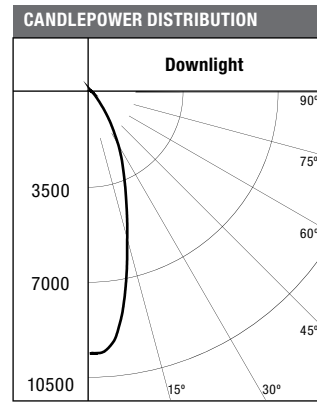
8000 Lumen D010TE	
120V Input Power: 96W	277V Input Power: 96W
120V Input Current: .79A	277V Input Current: .36A
Inrush 120 (Ap): 1.09	Inrush 277 (Ap): 1.23
Duration 120 (ms): 0.3	Duration 277 (ms): 0.294
THDi 120V: <13%	THDi 277V: <20%

9000 Lumen D010TE	
120V Input Power: 108W	277V Input Power: 107W
120V Input Current: .89A	277V Input Current: .39A
Inrush 120 (Ap): 0.48	Inrush 277 (Ap): 1.316
Duration 120 (ms): 0.1	Duration 277 (ms): 0.52
THDi 120V: <13%	THDi 277V: <20%

10,000 Lumen D010TE	
120V Input Power: 126W	277V Input Power: 123W
120V Input Current: 1.05A	277V Input Current: 47A
Inrush 120 (Ap): 1.312	Inrush 277 (Ap): 1.856
Duration 120 (ms): 0.05	Duration 277 (ms): 0.1
THDi 120V: <13%	THDi 277V: <20%

12,000 Lumen D010TE	
120V Input Power: 140W	277V Input Power: 141W
120V Input Current: 1.17A	277V Input Current: 0.51A
Inrush 120 (Ap): 1.09	Inrush 277 (Ap): 1.23
Duration 120 (ms): 0.3	Duration 277 (ms): 0.294
THDi 120V: <13%	THDi 277V: <20%

PHOTOMETRICS



Test Number P112471
LD8A50D010TE ER8A50835 8LN0LI
Lumens 4603 Lm
Efficacy 74 Lm/W
CCT 3500K
SC 0.6

CONE OF LIGHT

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	64	6
15'	45	8
20'	25	10
24'	17	13
28'	13	15

CANDELA TABLE

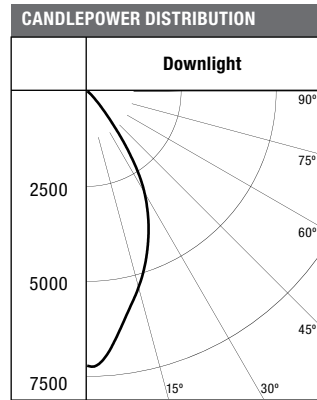
Degrees Vertical	Candela
0	10069
5	9738
15	5643
25	2940
35	1045
45	118
55	10
65	11
75	0
85	13
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	3785	82
0-40	4441	96
0-60	4567	99
0-90	4603	100
90-180	0	0
0-180	4603	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	5157
55	524
65	812
75	0
85	4430



Test Number P112343
LD8A50D010TE ER8A50835 8LM0LI
Lumens 4962 Lm
Efficacy 80 Lm/W
CCT 3500K
SC 0.8

CONE OF LIGHT

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	42	10
15'	29	12
20'	16	16
24'	11	19
28'	8	22

CANDELA TABLE

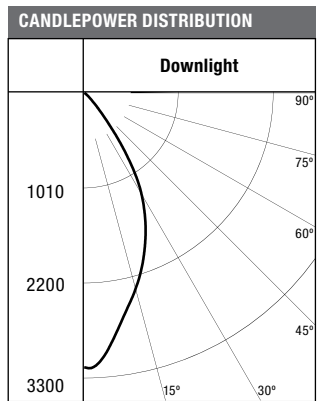
Degrees Vertical	Candela
0	6445
5	6573
15	5323
25	3488
35	1582
45	316
55	26
65	0
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	3598	72
0-40	4641	93
0-60	4952	99
0-90	4962	100
90-180	0	0
0-180	4962	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	13773
55	1421
65	0
75	166
85	0



Test Number P110167
LD8A50D010TE ER8A50835 8LW0LI
Lumens 5083 Lm
Efficacy 81.9 Lm/W
CCT 3500K
SC 1

CONE OF LIGHT

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	22	15
15'	15	18
20'	8	24
24'	6	29
28'	4	34

CANDELA TABLE

Degrees Vertical	Candela
0	3304
5	3395
15	3658
25	3398
35	2268
45	967
55	203
65	18
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	2740	54
0-40	4147	81
0-60	5052	99
0-90	5083	100
90-180	0	0
0-180	5083	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	42170
55	10921
65	1320
75	166
85	0

EM MULTIPLIER DATA

LUMENS	EM MULTIPLIER
	7
1000	0.47
1500	0.30
2000	0.30
3000	0.17
4000	0.12
5000	0.11
6000	0.09
6500	
8000	
9000	
10000	
120000	
150000	

MULTIPLIER FROM 5000 LUMENS
3000
4000
5000
6000
6500
8000
9000
10000

LPW	NARROW	MEDIUM	WIDE
1000	70.6	76.1	77.9
1500	69.8	75.2	77.0
2000	60.3	65.0	66.5
3000	83.0	89.5	91.7
4000	64.3	72.7	75.4
5000	74.2	80.0	82.0
6000	71.6	77.2	79.1
6500	73.7	79.5	81.4
8000	75.6	81.5	83.5
9000	75.1	81.0	83.0
10000	71.9	77.5	79.4
12000	74.2	80.0	82.0
15000	88.1	95.0	97.3