

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Portfolio

### LD8B ER8B 8LB

8" Narrow, Medium, or Wide  
New Construction Downlight  
1,000-20,000 Lumen

#### Typical Applications

Office • Education • Healthcare • Hospitality

#### Interactive Menu

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- Product Warranty

#### Product Certification



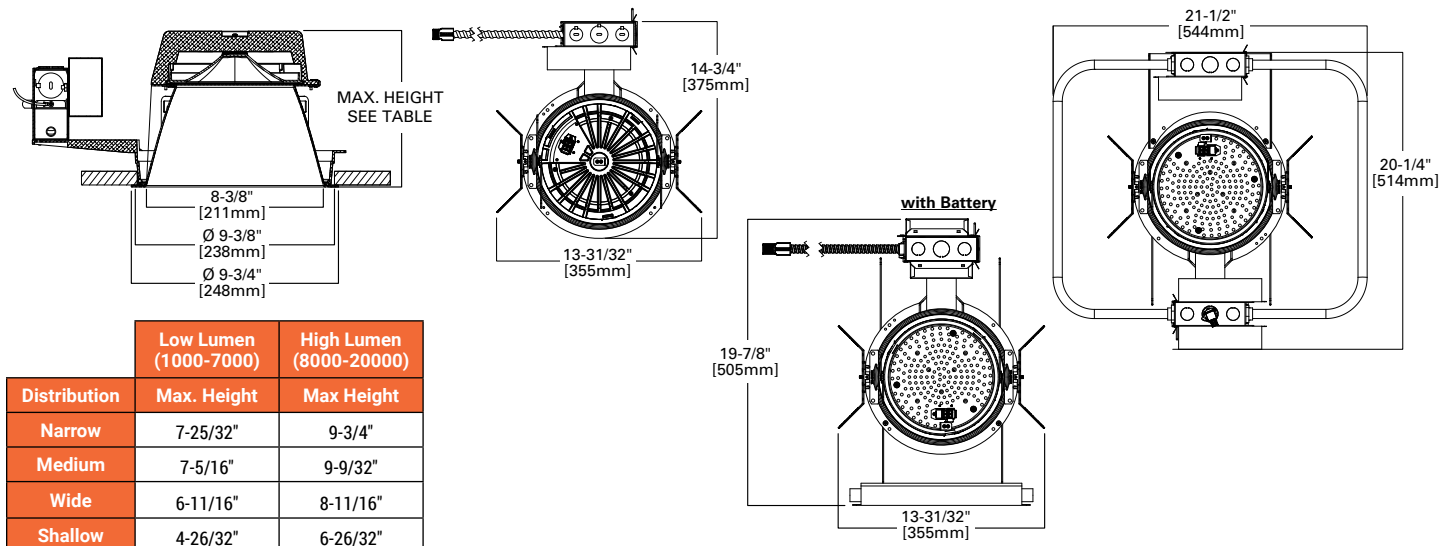
#### Product Features



#### Top Product Features

- 1,000 to 20,000 lumens; Offered in 80, 90 and 97 CRI; narrow beam, medium beam and wide beam distributions
- Two-stage reflector system produces smooth beam; Color variation within 3-step MacAdam ellipses
- Flexible disconnect for easy LED engine replacement and installation
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K

#### Dimensional and Mounting Details



## Order Information

SAMPLE ORDER NUMBER: **LD8B50D010IEMBOD**

Housing	Lumens	Voltage	Driver Options	
Housing	Lumens <sup>(1)</sup>	Voltage <sup>(10)</sup>	1 Driver	2 and 3 Drivers
<b>LD8B</b> =LED Downlight 8" Nominal Aperture <b>LD8BCP</b> =LED Downlight 8" Nominal Aperture, Chicago Plenum	<b>10</b> =1000 lumens <b>15</b> =1500 lumens <b>20</b> =2000 lumens <b>30</b> =3000 lumens <b>40</b> =4000 lumens <b>50</b> =5000 lumens <b>60</b> =6000 lumens <sup>(8)</sup> <b>70</b> =7000 lumens <sup>(8)</sup> <b>80</b> =8000 lumens <sup>(8)</sup> <b>90</b> =9000 lumens <sup>(8)</sup> <b>100</b> =10000 lumens <sup>(8)</sup> <b>120</b> =12000 lumens <sup>(8)</sup> <b>150</b> =15000 lumens <sup>(8)</sup> <b>175</b> =17500 lumens <sup>(8)</sup> <b>200</b> =20000 lumens <sup>(8)</sup>	<b>Blank</b> =120-277 7000 lumen and below. <b>3</b> =347V step down transformer <sup>(11)</sup>	<b>1000-4000 Lumen<sup>(13)</sup></b> <b>D010</b> =0-10 120-277V Dimming, 1 to 100% <b>D010TR</b> =0-10V 120-277V or 120V Line Voltage Dimming, 1% to 100% <b>DE010</b> =0-10V Linear Dimming, 0% to 100% <b>D5LT</b> =Fifth Light® (DALI) Logarithmic Dimming, 0% to 100% <b>DMX</b> =DMX/RDM Logarithmic Dimming, 0% to 100% <sup>(12)</sup> <b>DL2</b> =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only <b>DLE</b> =Lutron Ecosystem dimming 1% to 100% <b>DMXC5</b> =DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection  <b>5000, 6000, and 7000 Lumen<sup>(14)</sup></b> <b>D010TE</b> =0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V (120V Only for Trailing Edge Dimming)  <b>Tunable white 1000-2000</b> <b>DE010W2N</b> =0-10V dimming, 0% to 100%,120V <b>D5LW2N</b> =Fifth Light (DALI) Logarithmic Dimming, 0% to 100%	<b>4000 and 6000 Lumen D2W (2 Drivers)</b> <b>6000, 8000 and 9000 Lumen (2 Drivers)</b> <b>9000 Lumen D2W (3 Drivers)</b> <b>12,000 Lumen (3 Drivers)</b> <b>1D010</b> =0-10V, 120V Dimming, 1% to 100% <b>2D010</b> =0-10V, 277V Dimming, 1% to 100% <b>1D010TR</b> =0-10V or 120V Line Voltage Dimming, 1% to 100% <b>2D010TR</b> =0-10V, 277V Dimming, 1% to 100% <b>1DE010</b> =0-10V, 120V Linear Dimming, 0% to 100% <b>2DE010</b> =0-10V, 277V Linear Dimming, 0% to 100% <b>1D5LT</b> =120V Fifth Light® (DALI) Logarithmic Dimming, 0% to 100% <b>2D5LT</b> =277V Fifth Light® (DALI) Logarithmic Dimming, 0% to 100% <b>1DMX</b> =120V, DMX/RDM Logarithmic Dimming, 0% to 100% <sup>(12)</sup> <b>2DMX</b> =277V, DMX/RDM Logarithmic Dimming, 0% to 100% <sup>(12)</sup> <b>1DMXC5</b> =120V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection <b>2DMXC5</b> =277V, DMX/RDM Logarithmic Dimming 0% to 100% with RJ45 connection <b>1DL2</b> =120V Lutron® Hi-Lume Forward Phase Dimming, 1% to 100% <b>1DLE</b> =120V, Lutron Ecosystem dimming 1% to 100% <b>2DLE</b> =277V, Lutron Ecosystem dimming 1% to 100%  <b>10,000, 12,000, 15,000, 17,500, 20,000 Lumen</b> <b>1D010TE</b> =0-10V or Trailing Edge Dimming, 5% to 100%, 120V <b>2D010TE</b> =0-10V, 5% to 100%  <b>Tunable white 3000-4000</b> <b>1DE010W2N</b> =0-10V dimming, 0% to 100%,120V <b>2DE010W2N</b> =0-10V dimming, 0% to 100%,277V <b>1D5LW2N</b> =120V, Fifth Light (DALI) Logarithmic Dimming, 0% to 100% <b>2D5LW2N</b> =277V, Fifth Light (DALI) Logarithmic Dimming, 0% to 100%
	<b>Notes</b> (1) Nominal Lumens will vary depending on selected color, driver and reflector finish. (8) 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: 1/2" -20,000 Lumens minimum overhead: 6"	<b>Notes</b> (10) For single driver. (11) 347V step down transformer only available up to 7000 Lumen	<b>Notes</b> (12) DMX fixtures default to full on upon loss of DMX signal. (13) For D2W up to 3000 lumens. (14) Not for use with D2W.	

Color Control	Options		
Color Control <sup>(9)</sup>	Options <sup>(9)</sup>		
<b>Blank</b> =No color control or D2W for 2000 lumens and below <b>D2W</b> =For 4000, 6000 and 9000 dim 2 warm <b>2050</b> =For W2N 2000K - 5000K <b>2765</b> = For W2N 2700K - 6500K	<b>WTA</b> =Factory installed WaveLinX Sensor Kit (WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only) <sup>(2)(3)</sup> <b>LWTPD1</b> =Factory Installed Enlighted Wireless Sensor Kit (use with 0-10V driver) <sup>(2)(3)</sup>	<b>EMBOD</b> =Bodine® Emergency Module with Remote Test Switch <sup>(3)</sup> <b>EMBOD7ST</b> =Bodine® Emergency Module with Self Test Remote Test Switch <sup>(3)</sup> <b>EM7</b> =7W Emergency Module with Remote Test Switch <sup>(3)</sup> <b>EM14</b> =14W Emergency Module with Remote Test Switch <sup>(3)</sup> <b>IEMBOD</b> =Bodine® Emergency Module with Integral Test Switch <sup>(3)</sup> <b>IEM7</b> =7W Emergency Module with Integral Test Switch <sup>(3)</sup> <b>IEM14</b> =14W Emergency Module with Integral Test Switch <sup>(3)</sup>	<b>EMV7</b> =7W Low Voltage Emergency Module with Remote Test Switch <sup>(4)</sup> <b>EMV14</b> =14W Low Voltage Emergency Module with Remote Test Switch <sup>(4)</sup> <b>IEMV7</b> =7W Low Voltage Emergency Module with Integral Test Switch <sup>(4)</sup> <b>IEMV14</b> =14W Low Voltage Emergency Module with Integral Test Switch <sup>(4)</sup>
<b>Notes</b> (9) Field required for D2W 4000, 6000 and 9000 lumens only.	<b>Notes</b> (2) Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. (3) Not available with Chicago Plenum or IC rating. (4) ULus listed only.		

## Order Information

SAMPLE ORDER NUMBER: **ER8B30408035**

Power Module	Lumen Levels	Color	
<b>ER8B=8" LED Module</b>	<b>1 Driver</b> 1020=1000, 1500, or 2000 Lumens 3040=3000 or 4000 Lumens 5070=5000, 6000, or 7000 lumens  <b>2 Drivers</b> 60=6000 lumens, 2 LEDs 80120=8000, 9000, 10000, or 12000 lumens  <b>3 Drivers</b> 120=12000 lumens, 3 LEDs 150200=15000, 17500 or 20000 lumens	<b>80 CRI</b> 8027= 80CRI, 2700K 8030= 80CRI, 3000K 8035= 80CRI, 3500K 8040= 80CRI, 4000K 8050= 80CRI, 5000K  <b>Dim 2 Warm 1 Driver</b> 109030D2W=1000 Lumen, 90 CRI, Dim 2 Warm, IC Rated 159030D2W=1500 Lumen, 90 CRI, Dim 2 Warm, IC Rated 209030D2W=2000 Lumen, 90 CRI, Dim 2 Warm, IC Rated 309030D2W=3000 Lumen, 90 CRI, Dim 2 Warm  <b>Dim 2 Warm 2 Drivers</b> 409030D2W=4000 Lumen, 90 CRI, Dim 2 Warm 609030D2W=6000 Lumen, 90 CRI, Dim 2 Warm  <b>Dim 2 Warm 3 Drivers</b> 909030D2W=9000 Lumen, 90 CRI, Dim 2 Warm	<b>90 CRI</b> 9027= 90CRI, 2700K 9030= 90CRI, 3000K 9035= 90CRI, 3500K 9040= 90CRI, 4000K 9050= 90CRI, 5000K  <b>97 CRI</b> 9727= 97CRI, 2700K 9730= 97CRI, 3000K  <b>W2N Tunable White 1 Driver<sup>(16)</sup></b> 10W2N902050=1000 lumens, 90 CRI, Tunable white 2000K - 5000K 10W2N902765=1000 lumens, 90 CRI, Tunable white 2700K - 6500K 15W2N902050=1500 lumens, 90 CRI, Tunable white 2000K - 5000K 15W2N902765=1500 lumens, 90 CRI, Tunable white 2700K - 6500K 20W2N902050=2000 lumens, 90 CRI, Tunable white 2000K - 5000K 20W2N902765=2000 lumens, 90 CRI, Tunable white 2700K - 6500K  <b>W2N Tunable White 2 Drivers</b> 30W2N902050=3000 lumens, 90 CRI, Tunable white 2000K - 5000K 30W2N902765=3000 lumens, 90 CRI, Tunable white 2700K - 6500K 40W2N902050=4000 lumens, 90 CRI, Tunable white 2000K - 5000K 40W2N902765=4000 lumens, 90 CRI, Tunable white 2700K - 6500K
	<b>Notes</b> (1) Nominal Lumens will vary depending on selected color, driver and reflector finish.	<b>Notes</b> (16) Non-IC.	

SAMPLE ORDER NUMBER: **8LBM1LI**

Trim	Distribution	Flange	Finish	Options
<b>8LB=8" Reflector</b>	<b>N=Narrow Spun Aluminum</b> <b>M=Medium Spun Aluminum</b> <b>W=Wide Spun Aluminum</b> <b>S=Shallow Spun Aluminum</b>	<b>0=White Polymer Trim Ring</b> <b>1=Self-flanged<sup>(7)</sup></b> <b>2=White Painted Self-flanged</b>	<b>LI=Specular Clear</b> <b>H=Semi-Specular Clear</b> <b>WMH=Warm Haze</b> <b>WH=Wheat</b> <b>GPH=Graphite Haze</b> <b>B=Specular Black</b> <b>MW=Matte White</b>	<b>E=Integral Emergency Test Switch Hole<sup>(6)</sup></b>
	<b>Notes</b> (5) Beam angles are nominal with LI finish trims. See chart.	<b>Notes</b> (7) Flange is the same finish as the reflector.		<b>Notes</b> (6) Only available with Narrow, Medium and Wide Spun Aluminum trims. Required for use with all IEMB0D, IEM7, IEM14, IEMV7 and IEMV14 housings.

### Accessories

Accessories
<b>HSA8=Slope Adapter for 8" Aperture Housings, Specify Slope<sup>(5)</sup></b>  <b>Bar Hangers</b> HB26=C-channel Bar Hanger, 26" Long, Pair HB50=C-channel Bar Hanger, 50" Long, Pair  <b>Transformers</b> H347=347 to 120V Step Down Transformer, 75VA H347200=347 to 120V Step Down Transformer, 200VA  <b>Connected Lighting Systems</b> PORLWTPD1=Enlighted Wireless Sensor kit (use with 0-10V), field installed <sup>(2)</sup> WTA=WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX system specifications and guides for details) Field installed <sup>(2)</sup>
<b>Notes</b> (2) Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. (15) Consult accessory specification sheet for ordering information.

## Product Specifications

### Lower Shielding Reflector

- Self-flanged, spun .060" thick aluminum lower reflector
- Lensed upper optical chamber
- Provides superior lumen output with minimal source brightness
- Available in all Portfolio Alzak® finishes

### Trim Retention

- Two torsion springs hold lower reflector 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" Electric Metallic Tube (EMT), C-channel and bar hangers
- Adjusts 5" vertically from above and below the ceiling

### Junction Box

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

### Thermal

- 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 transitional lens producing even distribution with no pixilation
- Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours)
- Color variation within 3-step MacAdam ellipses

- Flexible disconnect allows for tool-less replacement of LED engine from below ceiling
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Available in 80, 90 or 97 color rendering index (CRI)

### VividTune™ Color Tuning Solutions

- D2W™ – Dim-to-Warm shifts CCT from 3000K to 1850K as fixture dims, mimicking halogen sources
- W2N – Tunable white CCT range from 2700K to 6500K or 2000K to 5000K; 90 CRI

### 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
- 1,000-7,000 lumens utilize one driver; 8,000-12,000 lumens utilize two drivers; 15,000-20,000 lumens utilize three drivers; reference ordering information for other variations

### Connected Systems

- Factory installed WaveLinx tile mount sensor kit and Field installed WaveLinx accessory tile mount sensor kit.
  - The WTA WaveLinx tile mount sensor kit offers daylight dimming, PIR motion sensing control, and optional RLTS - Real Time Location Services available. (Refer to WaveLinx system specifications and application guides for details)
  - The WTA WaveLinx kit includes control module that mounts on the luminaire electrical junction box via 1/2" knock-out, and tilemount sensor with direct-mount spring clips or for octagon ceiling box with included mounting bracket. (Field mount kit ordered and installed separately).

- Enlighted wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

### Compliance

- Thermally protected
- cULus Listed for protected wet locations
- cULus Certified IP65 below ceiling
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- Insulated ceiling (IC) rated up to 2,000 lumens; 3,000 lumens and above are non-IC rated (insulation must be kept 3" from top and sides of housing)
- RoHS compliant
- T24 compliant
- IP20 above ceiling
- IP65 below ceiling finish
- Photometric testing completed in accordance with IES LM-79 standards
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- 6,000 lumens and above are marked spacing and must follow spacing requirements

### Warranty

- Five-year warranty

## Color Metric Summary

8027		8030		8035		8040		8050		9027	
R <sub>f</sub>	93.2	R <sub>f</sub>	83.4	R <sub>f</sub>	83.7	R <sub>f</sub>	83.3	R <sub>f</sub>	82.5	R <sub>f</sub>	92
R <sub>g</sub>	94.1	R <sub>g</sub>	94.4	R <sub>g</sub>	94.8	R <sub>g</sub>	94	R <sub>g</sub>	94.3	R <sub>g</sub>	98.4
CRI	81.3	CRI	82.4	CRI	83.1	CRI	83.7	CRI	94.2	CRI	93.4
R <sub>9</sub>	0.7	R <sub>9</sub>	4.5	R <sub>9</sub>	9.1	R <sub>9</sub>	9.9	R <sub>9</sub>	11.9	R <sub>9</sub>	59.3

9030		9035		9040		9050		9727		9730	
R <sub>f</sub>	91.6	R <sub>f</sub>	90.9	R <sub>f</sub>	89.4	R <sub>f</sub>	88.4	R <sub>f</sub>	95	R <sub>f</sub>	94.2
R <sub>g</sub>	98.6	R <sub>g</sub>	98.3	R <sub>g</sub>	96.6	R <sub>g</sub>	96.8	R <sub>g</sub>	100.1	R <sub>g</sub>	99.6
CRI	93.2	CRI	93.3	CRI	91.8	CRI	91	CRI	98	CRI	98.5
R <sub>9</sub>	60.2	R <sub>9</sub>	63.1	R <sub>9</sub>	58	R <sub>9</sub>	55.2	R <sub>9</sub>	93.9	R <sub>9</sub>	94.7

## Energy

ENERGY DATA	
Sound Rating: Class A standards	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -20°C (-4°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Power Factor: >0.90	
Input Frequency: 50/60Hz	

NOMINAL BEAM ANGLES WITH LI FINISH				
	Narrow	Medium	Wide	Shallow
1000-7000	15	40	73	86
8000-12000	30	44	73	86
15000-20000	34	46	73	86

1000 Lumen D010	
Input Power: 11W	THD <14%
Input Current: 0.09A	277V Input Current: 0.04A

1500 Lumen D010	
Input Power: 15.5W	THD <13%
Input Current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010	
Input Power: 21.2 W	THD <9%
Input Current: 0.18A	277V Input Current: 0.08A

3000 Lumen D010	
Input Power: 27.6 W	THD <10%
Input Current: 0.23A	277V Input Current: 0.10A

4000 Lumen D010	
Input Power: 41.6 W	THD <13%
Input Current: 0.35A	277V Input Current: 0.15A

5000 Lumen D010TE	
Input Power: 57.9 W	THD <14%
Input Current: 0.49A	277V Input Current: 0.22A

6000 Lumen D010TE	
Input Power: 59.7W	THD <14%
Input Current: 0.50A	277V Input Current: 0.22A

7000 Lumen D010TE	
Input Power: 75.8 W	THD <13%
Input Current: 0.64A	277V Input Current: 0.29A

8000 Lumen D010	
Input Power: 73.8 W	THD <13%
Input Current: 0.62A	277V Input Current: 0.26A

9000 Lumen D010	
Input Power: 86.9 W	THD <13%
Input Current: 0.72A	277V Input Current: 0.32A

10000 Lumen D010TE	
Input Power: 115.4 W	THD <13%
Input Current: 0.96A	277V Input Current: 0.42A

12000 Lumen D010TE	
Input Power: 119.4 W	THD <13%
Input Current: 1.0A	277V Input Current: 0.43A

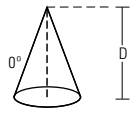
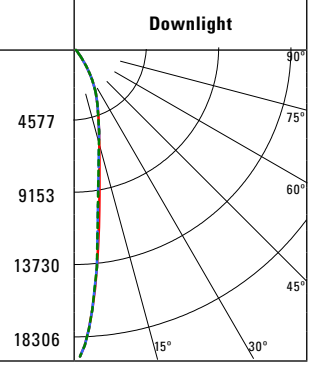
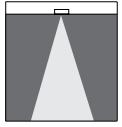
15000 Lumen D010TE	
Input Power: 173.7 W	THD <13%
Input Current: 1.45A	277V Input Current: 0.63A

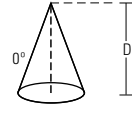
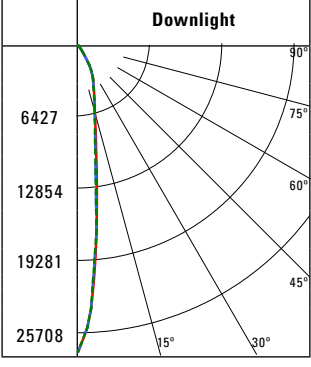
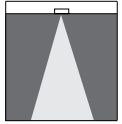
17500 Lumen D010TE	
Input Power: 179.1 W	THD <13%
Input Current: 1.49A	277V Input Current: 0.65A

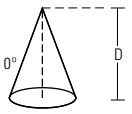
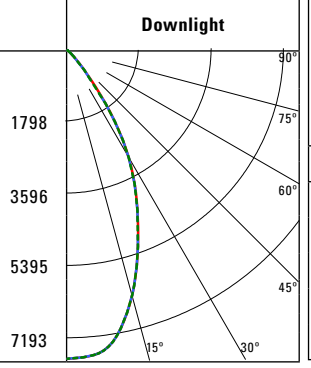
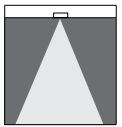
20000 Lumen D010TE	
Input Power: 227.4 W	THD <13%
Input Current: 1.9A	277V Input Current: 0.82A

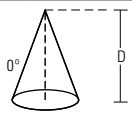
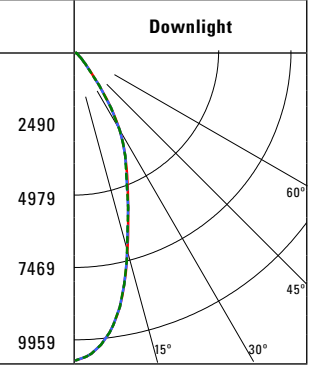
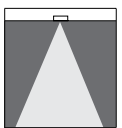
## Photometric Data

 View IES files

NARROW (15° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010					0	18310	0-30	4214	84.5	45	4330
Module	ER8B50835					5	14091	0-40	4883	97.9	55	253
Trim	8LBN0H					15	5762	0-60	4983	99.9	65	88
Lumens	4986					25	3117	0-90	4986	100	75	143
Efficacy	94.1 Lm/W					35	1021	90-180	0	0	85	0
SC	0.32					45	99	0-180	4986	100		
						55	5					
						65	1					
						75	1					
						85	0					
						90	0					

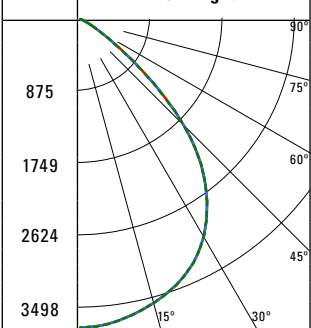
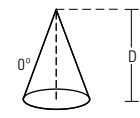
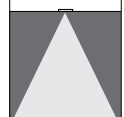
NARROW (15° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010					0	25712	0-30	4514	86	45	4422
Module	ER8B50835					5	17790	0-40	5134	97.8	55	382
Trim	8LBN0LI					15	5743	0-60	5238	99.8	65	518
Lumens	5248					25	3148	0-90	5248	100	75	429
Efficacy	99 Lm/W					35	879	90-180	0	0	85	0
SC	0.25					45	101	0-180	5248	100		
						55	7					
						65	7					
						75	4					
						85	0					
						90	0					

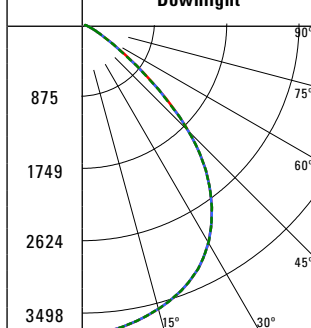
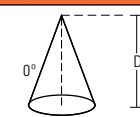
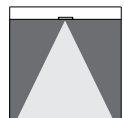
MEDIUM (40° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010					0	7197	0-30	4078	75.2	45	10619
Module	ER8B50835					5	7141	0-40	5174	95.4	55	887
Trim	8LBM0H					15	5914	0-60	5422	99.9	65	175
Lumens	5426					25	3883	0-90	5426	100	75	143
Efficacy	102.4 Lm/W					35	1774	90-180	0	0	85	0
SC	0.8					45	244	0-180	5426	100		
						55	16					
						65	2					
						75	1					
						85	0					
						90	0					

MEDIUM (40° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number		<b>Downlight</b>				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010					0	9963	0-30	4491	78.6	45	9546
Module	ER8B50835					5	9498	0-40	5481	96	55	1435
Trim	8LBM0LI					15	6587	0-60	5702	99.8	65	518
Lumens	5711					25	3908	0-90	5711	100	75	214
Efficacy	107.8 Lm/W					35	1559	90-180	0	0	85	0
SC	0.63					45	219	0-180	5711	100		
						55	27					
						65	7					
						75	2					
						85	0					
						90	0					

## Photometric Data

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SHALLOW (86° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number								Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010							0	3502	0-30	2670	44.2	45	71087
Module	ER8B50835			5	3477	0-40	4240	70.2	55	24682				
Trim	8LBS0H			15	3322	0-60	5920	98.1	65	6100				
Lumens	6035			25	3056	0-90	6035	100	75	2121				
Efficacy	113.9 Lm/W	35	2525	90-180	0	0	85	1274						
SC	1.2	45	1630	0-180	6035	100								
		MH	FC	L	W									
		4'	218.9	4.6	4.6									
		7'	71.5	8.2	8.2									
		9'	43.2	10.6	10.6									
		13'	20.7	15.4	15.4									
		16'	13.7	19	19									

SHALLOW (86° BEAM)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number								Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	LD8B50D010							0	3460	0-30	2850	45.9	45	69395
Module	ER8B50835			5	3462	0-40	4513	72.7	55	22488				
Trim	8LBS0LI			15	3498	0-60	6132	98.8	65	4159				
Lumens	6206			25	3343	0-90	6206	100	75	631				
Efficacy	117.1 Lm/W	35	2681	90-180	0	0	85	637						
SC	1.28	45	1591	0-180	6206	100								
		MH	FC	L	W									
		4'	216.3	5	5									
		7'	70.6	8.8	8.8									
		9'	42.7	11.4	11.4									
		13'	20.5	16.6	16.6									
		16'	13.5	20.4	20.4									

Nominal Scaling From 80 CRI 3500K		
CRI	CCT	Lumen Mult
80	2700	0.938
80	3000	0.962
80	3500	1.000
80	4000	0.993
80	5000	1.013
90	2700	0.784
90	3000	0.826
90	3500	0.853
90	4000	0.891
90	5000	0.922
97	2700	0.696
97	3000	0.737

Nominal Scaling From 5000 lumen package	
LUMEN PACKAGE	LUMEN MULT
1000 LUMEN	0.207
1500 LUMEN	0.280
2000 LUMEN	0.398
3000 LUMEN	0.562
4000 LUMEN	0.799
5000 LUMEN	1.000
6000 LUMEN	1.133
7000 LUMEN	1.368
8000 LUMEN	1.535
9000 LUMEN	1.729
10,000 LUMEN	1.994
12,000 LUMEN	2.261
15,000 LUMEN	2.949
17,500 LUMEN	3.329
20,000 LUMEN	3.924