

DESCRIPTION

4 inch LED recessed medium or wide beam wall wash specially designed for LED technology. Two-stage reflector system combined with gradient kicker, produces high levels of uniform vertical illumination on the wall with minimal source brightness. Lumen packages include 900, 1300, 1800 and 2800 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. 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 Wall Wash Reflector

Lower Wall Wash Reflector Spun .050" thick aluminum lower reflector with gradient kicker in combination with a lensed upper optical chamber provides superior lumen output, high level vertical illumination 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 optimal performance and long 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. Available in 80 or 90 CRI.

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

Catalog

Project

Comments

Prepared by

Type

Date

Driver

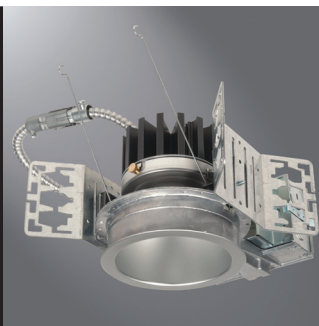
Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Code Compliance

Thermally protected and cULus listed for protected damp 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. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5-year warranty.



LD4A09 LD4A13 LD4A18 LD4A28

900, 1300 Lumen LED

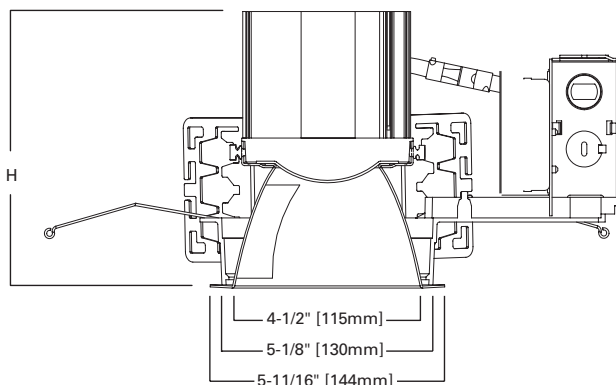
1800, 2800 Lumen LED

4-Inch

Medium or Wide Beam Wall Wash

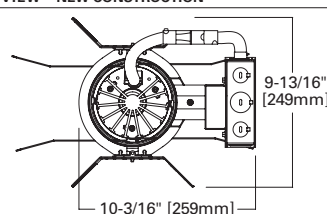
New Construction

D2W™

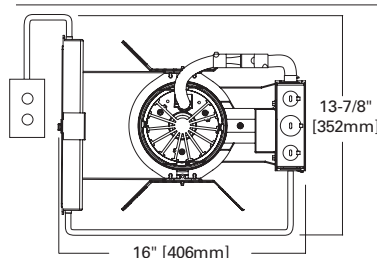


Distribution	Lumens	Height
Wide Beam Wall Wash	900/1300	5-3/16"
Medium Beam Wall Wash	900/1300	5-11/16"
Wide Beam Wall Wash	1800/2800	7-3/16"
Medium Beam Wall Wash	1800/2800	7-11/16"

TOP VIEW - NEW CONSTRUCTION



TOP VIEW - NEW CONSTRUCTION WITH BATTERY



Refer to ENERGY STAR® Qualified Products List.

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technology



Powering Business Worldwide



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ORDERING INFORMATION

EXAMPLE: LD4A13D010TE ERW4A13835 4LM111LI=4" LED Medium Beam Wall Wash, 1300 Lumen, 3,500 K Color with Universal 120 - 277V, 0 - 10 Driver

Housing	Lumens ¹	Driver	Options ²	Power Module	Lumens	CRI	Color
LD4A=4" Aperture LD4ACP=4" Aperture, Chicago Plenum	09=900 Lumens 13=1300 Lumens 18=1800 Lumens 28=2800 Lumens	900, 1300, 1800 and 2800 Lumen D010TE =120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming D5LT =Fifth Light* (DALI) 0% Dimming DE010 =0 to 100% Dimming, 120-277V 50/60Hz, 0-10V DL3 =1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire DLT =Hi-Lume Forward Phase 2-wire Dimming 120V DMX =DMX 0% Dimming 900, 1300 and 1800 Lumen D010TR =120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	EMBOD =7W Bodine® Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch ³ EM14 =14W Emergency Module with Remote Test Switch ³	ERM4A =4" Module for Medium Beam Reflector ERW4A =4" Module for Wide Beam Reflector 09 =900 Lumen 13 =1300 Lumen 18 =1800 Lumen 28 =2800 Lumen		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 =4000° K, Chiago Plenum 30D2W = Dim to warm 3000° K to 1850° K (2000 lumen and below, 90 CRI)

Reflector	Finish	Options	Accessories
4LM111 =4" Medium Reflector, Single Wall Wash, Self-flanged 4LM121 =4" Medium Reflector, Double Wall Wash, Self-flanged 4LM110 =4" Medium Reflector, Single Wall Wash, Polymer Trim Ring 4LM120 =4" Medium Reflector, Double Wall Wash, Polymer Trim Ring	4LW111 =4" Wide Reflector, Single Wall Wash, Self-flanged 4LW121 =4" Wide Reflector, Double Wall Wash, Self-flanged 4LW110 =4" Wide Reflector, Single Wall Wash, Polymer Trim Ring 4LW120 =4" Wide Reflector, Double Wall Wash, Polymer Trim Ring	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 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

Notes: 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.

2 Not available with Chicago Plenum.

3 Not CSA approved.

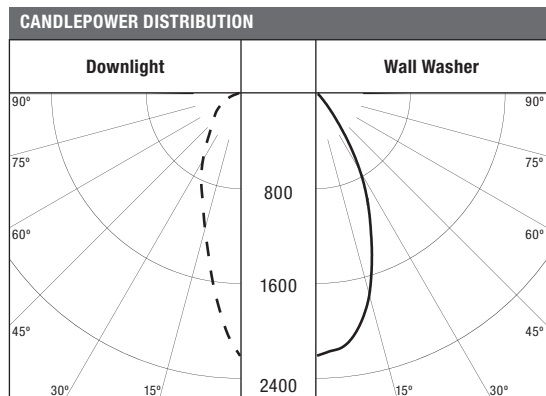
ENERGY

ENERGY DATA			
Sound Rating: Class A standards			
(Values at non-dimming line voltage)			
Minimum Starting Temperature: -30°C (-22°F)			
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)			
Input Voltage: UNV (120V - 277V)			
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)			
Input Frequency: 50/60Hz			
2800 Lumen D010TE		1800 Lumen D010TE	
Input Power: 43.4W	THD: <17%	Input Power: 31.5W	THD: <20%
120V Input Current: .36A	277V Input Current: .16A	120V Input Current: .27A	277V Input Current: .06A
1300 Lumen D010TE		900 Lumen D010TE	
Input Power: 22.4W	THD: <20%	Input Power: 14.1W	THD: <20%
120V Input Current: .12A	277V Input Current: .09A	120V Input Current: .12A	277V Input Current: .06A

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
900/1000	0.486	0.4	0.848	0.182
1300/1500	0.717	1.58	0.531	1.24
1800/2000	0.832	0.405	1.25	0.788
2800/3000	1.09	0.3	1.23	0.294

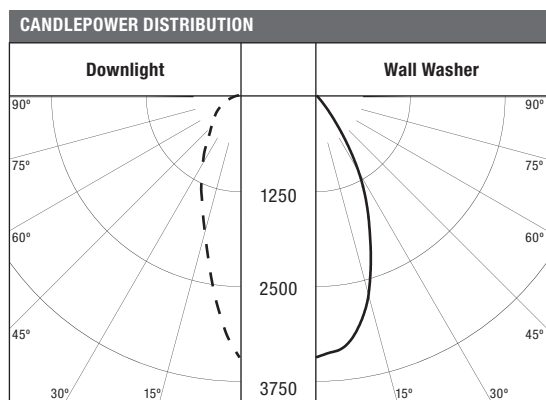
PHOTOMETRICS

Test Number	P133922
Platform	LD4A13D010TE
Element	ERM4A13835 4LM111LI
Lumens	1583
Efficacy	70.0 Lm/W



LEGEND:
 0-deg: - - - - -
 90-deg: —————

Test Number	P133954
Platform	LD4A18D010TE
Element	ERM4A18835 4LM111LI
Lumens	2478
Efficacy	75.5 Lm/W



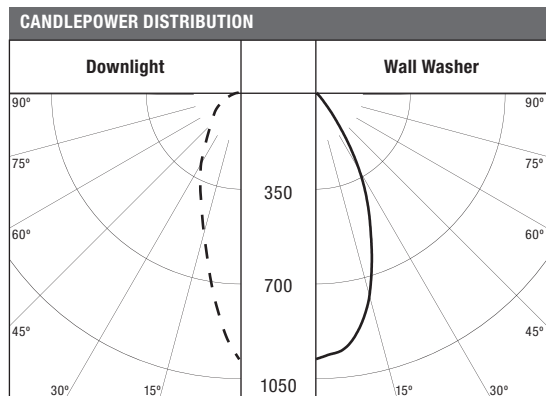
LEGEND:
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SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
DD	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	7	5	3	1	18	19	18	15	13	15	9	10	9	8	8	8
2'	14	12	7	4	30	33	30	25	25	25	22	24	22	18	19	18
3'	13	12	8	4	25	28	25	21	23	21	21	23	21	18	20	18
4'	11	10	7	4	21	24	21	18	19	18	18	19	18	15	16	15
5'	9	8	6	4	17	19	17	14	16	14	15	17	15	13	15	13
6'	7	7	5	4	14	15	14	12	13	12	13	13	13	11	12	11
7'	6	5	5	3	10	11	10	9	10	9	10	11	10	9	10	9
8'	4	4	4	3	8	9	8	7	8	7	8	9	8	7	8	7
9'	4	3	3	3	6	7	6	6	6	6	7	7	7	6	7	6
10'	3	3	3	2	5	5	5	5	5	5	5	6	5	5	5	5

SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
DD	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	11	8	4	2	28	30	28	23	20	23	15	16	15	12	12	12
2'	22	19	12	6	47	52	47	39	39	39	34	37	34	28	30	28
3'	21	18	12	7	40	44	40	32	36	32	33	37	33	28	31	28
4'	17	15	11	6	33	37	33	27	30	27	28	30	28	23	26	23
5'	14	13	10	6	27	30	27	22	26	22	24	26	24	20	23	20
6'	12	11	8	6	21	23	21	18	21	18	20	21	20	17	19	17
7'	9	9	7	5	16	17	16	14	16	14	16	17	16	14	16	14
8'	7	7	6	5	13	13	13	12	13	12	13	13	13	12	13	12
9'	6	5	5	4	10	11	10	9	10	9	10	11	10	10	10	10
10'	5	4	4	3	8	8	8	8	8	8	8	9	8	8	8	8

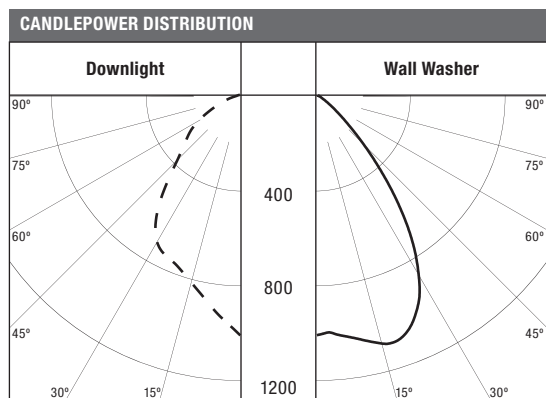
PHOTOMETRICS

Test Number	P133978
Platform	LD4A28D010TE
Element	ERM4A28835 4LM111LI
Lumens	2911
Efficacy	64.1 Lm/W



LEGEND:
0-deg: - - - - -
90-deg: —————

Test Number	P166414
Platform	LD4A13D010TE
Element	ERW4A13835 4LW111LI
Lumens	1613
Efficacy	71.4 Lm/W



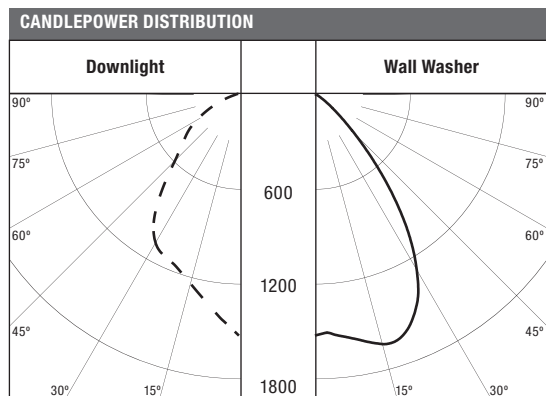
LEGEND:
0-deg: - - - - -
90-deg: —————

SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
DD	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	13	10	5	2	32	36	32	27	24	27	17	19	17	14	14	14
2'	26	22	14	7	55	61	55	45	46	45	40	43	40	33	35	33
3'	25	22	15	8	46	52	46	38	42	38	39	43	39	33	36	33
4'	20	18	13	8	39	44	39	32	36	32	32	35	32	27	30	27
5'	17	15	11	7	32	35	32	26	30	26	28	31	28	24	27	24
6'	14	13	10	7	25	27	25	21	24	21	24	25	24	20	23	20
7'	11	10	8	6	19	20	19	17	19	17	19	20	19	17	19	17
8'	8	8	7	6	15	16	15	14	15	14	15	16	15	14	15	14
9'	7	6	6	5	12	12	12	11	12	11	12	13	12	11	12	11
10'	5	5	5	4	10	10	10	9	10	9	10	10	10	9	10	9

SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
DD	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	4	3	1	0	12	13	12	11	8	11	6	6	6	5	4	5
2'	15	12	7	3	31	36	31	25	27	25	22	25	22	18	20	18
3'	15	13	9	5	31	33	31	25	27	25	23	25	23	19	22	19
4'	14	12	8	5	26	29	26	21	25	21	22	24	22	19	21	19
5'	11	10	8	5	19	20	19	16	19	16	18	20	18	16	18	16
6'	7	7	6	5	13	14	13	12	13	12	14	14	14	12	14	12
7'	5	5	5	4	9	9	9	9	9	9	10	10	10	9	10	9
8'	4	4	4	3	7	7	7	6	7	6	7	7	7	7	7	7
9'	3	3	3	3	5	5	5	5	5	5	5	5	5	5	6	5
10'	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4

PHOTOMETRICS

Test Number	P134650
Platform	LD4A18D010TE
Element	ERW4A18835 4LW111LI
Lumens	2437
Efficacy	74.3 Lm/W

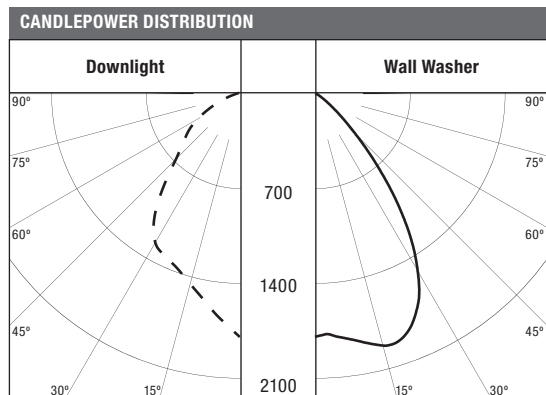


LEGEND:

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90-deg: —————

Test Number	P134674
Platform	LD4A28D010TE
Element	ERW4A28835 4LW111LI
Lumens	2881
Efficacy	63.5 Lm/W



LEGEND:

0-deg: - - - - -

90-deg: —————

SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
DD	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	7	4	2	1	18	19	18	16	12	16	9	9	9	7	6	7
2'	23	19	11	4	48	54	48	38	41	38	33	37	33	27	30	27
3'	22	19	13	7	46	50	46	38	40	38	35	38	35	29	33	29
4'	21	18	13	7	39	43	39	32	38	32	33	36	33	28	31	28
5'	16	15	12	8	29	30	29	24	29	24	28	30	28	24	27	24
6'	11	11	10	7	20	20	20	18	20	18	21	21	21	18	21	18
7'	8	8	7	6	14	14	14	13	14	13	15	15	15	14	15	14
8'	6	6	5	5	10	10	10	10	10	10	11	11	11	10	11	10
9'	4	4	4	4	7	8	7	7	8	7	8	8	8	8	8	8
10'	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6

SINGLE UNIT FOOTCANDLES					MULTIPLE UNIT FOOTCANDLES											
	3' FROM WALL (Distance From Fixture Along Wall)				2.5' FROM WALL (Spacing Between Fixtures)						3' FROM WALL (Spacing Between Fixtures)					
DD	●	1'	2'	3'	●	2'	●	●	3'	●	●	2'	●	●	3'	●
1'	8	5	2	1	22	23	22	19	14	19	10	11	10	9	7	9
2'	27	22	13	5	56	64	56	45	49	45	39	44	39	32	35	32
3'	26	22	16	9	55	60	55	45	48	45	41	45	41	34	39	34
4'	25	21	15	9	47	51	47	38	44	38	40	43	40	33	37	33
5'	19	17	14	9	34	36	34	28	34	28	33	35	33	28	32	28
6'	13	13	11	8	23	24	23	21	24	21	24	25	24	22	24	22
7'	9	9	9	7	16	17	16	15	17	15	18	18	18	16	18	16
8'	7	7	6	6	12	12	12	11	12	11	13	13	13	12	13	12
9'	5	5	5	5	9	9	9	9	9	9	10	10	10	9	10	9
10'	4	4	4	4	7	7	7	7	7	7	8	8	8	7	8	7

EM MULTIPLIER DATA

LUMENS	EM MULTIPLIER	
	7	14
900/1000	0.50	0.99
1300/1500	0.29	0.57
1800/2000	0.22	0.44
2800/3000	0.16	0.32