

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALDDH16LEDLX-140L35KEX-AL16SG-WD.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]
[TESTLAB] Intertek
[ISSUE DATE] 11/07/2016
[UPDATE] 12/21/2016
[LAB-REF LUMCAT] CRT1611020944-002_M-140L Gen >11/03/2016
[MANUFAC] Spectrum Lighting
[LUMCAT] ALDDH16LEDLX-140L35K-EX-AL16-SG-WD
[LUMINAIRE] 16" Diam. LED Aluminum Mini-Bay, Open Aperture
[OTHER] Semi-Diffuse, Clear Anodized Inner Reflector, Wide Beam
[OTHER] 64.9 Degree Beam Angle
[OTHER] Tested at 120v
[LAMP] N/A
[LAMPCAT] N/A
[OTHER] Total Luminaire Watts is approximate
[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.98, 27K x 0.96
[OTHER] Catalog Number Update: 123W now called 140L
[OTHER] This report updated by Spectrum Lighting, Gen >11/03/2016
[OTHER] Scaled from 100L, 120v

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11303
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	111.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7816	7469	6873
55	2535	2147	1913
65	737	517	459
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418
2.5	11273.772	11280.826	11284.838	11279.581	11283.316	11279.581	11284.838	11280.826	11273.772	11280.826
5.0	11287.881	11303.234	11312.640	11306.277	11302.681	11306.277	11312.640	11303.234	11287.881	11303.234
7.5	11266.994	11284.838	11288.849	11279.858	11271.697	11279.858	11288.849	11284.838	11266.994	11284.838
10.0	11153.987	11179.576	11179.299	11166.574	11147.209	11166.574	11179.299	11179.576	11153.987	11179.576
12.5	10898.648	10932.122	10933.366	10917.321	10897.403	10917.321	10933.366	10932.122	10898.648	10932.122
15.0	10440.947	10495.445	10509.277	10500.978	10458.514	10500.978	10509.277	10495.445	10440.947	10495.445
17.5	9802.600	9882.549	9911.873	9903.436	9820.720	9903.436	9911.873	9882.549	9802.600	9882.549
20.0	9079.325	9170.340	9214.740	9209.208	9099.243	9209.208	9214.740	9170.340	9079.325	9170.340
22.5	8392.566	8488.145	8533.238	8478.878	8396.163	8478.878	8533.238	8488.145	8392.566	8488.145
25.0	7764.870	7845.234	7880.091	7844.266	7750.900	7844.266	7880.091	7845.234	7764.870	7845.234
27.5	7189.182	7243.127	7292.646	7251.703	7166.913	7251.703	7292.646	7243.127	7189.182	7243.127
30.0	6628.571	6673.664	6709.903	6684.868	6609.898	6684.868	6709.903	6673.664	6628.571	6673.664
32.5	5855.362	5862.693	5878.600	5879.707	5837.381	5879.707	5878.600	5862.693	5855.362	5862.693
35.0	4690.293	4657.650	4666.917	4684.484	4665.395	4684.484	4666.917	4657.650	4690.293	4657.650
37.5	3445.136	3403.779	3406.822	3406.683	3386.350	3406.683	3406.822	3403.779	3445.136	3403.779
40.0	2279.929	2238.433	2236.081	2218.791	2202.469	2218.791	2236.081	2238.433	2279.929	2238.433
42.5	1215.418	1196.053	1185.541	1177.933	1170.879	1177.933	1185.541	1196.053	1215.418	1196.053
45.0	714.008	695.611	682.333	659.510	627.835	659.510	682.333	695.611	714.008	695.611
47.5	521.605	500.580	484.397	464.894	442.624	464.894	484.397	500.580	521.605	500.580
50.0	376.230	355.482	339.437	323.530	308.315	323.530	339.437	355.482	376.230	355.482
52.5	269.724	251.051	237.634	226.153	215.918	226.153	237.634	251.051	269.724	251.051
55.0	187.839	170.687	159.068	149.386	141.778	149.386	159.068	170.687	187.839	170.687
57.5	132.096	118.402	108.581	101.942	96.686	101.942	108.581	118.402	132.096	118.402
60.0	91.983	80.641	72.618	68.053	64.734	68.053	72.618	80.641	91.983	80.641
62.5	62.244	53.253	46.752	43.847	41.773	43.847	46.752	53.253	62.244	53.253
65.0	40.251	33.335	28.217	26.419	25.036	26.419	28.217	33.335	40.251	33.335
67.5	24.068	18.673	14.524	13.694	12.587	13.694	14.524	18.673	24.068	18.673
70.0	11.481	7.331	4.288	3.735	2.905	3.735	4.288	7.331	11.481	7.331
72.5	1.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.383	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418	11258.418
2.5	11284.838	11279.581	11283.316	11279.581	11284.838	11280.826	11273.772
5.0	11312.640	11306.277	11302.681	11306.277	11312.640	11303.234	11287.881
7.5	11288.849	11279.858	11271.697	11279.858	11288.849	11284.838	11266.994
10.0	11179.299	11166.574	11147.209	11166.574	11179.299	11179.576	11153.987
12.5	10933.366	10917.321	10897.403	10917.321	10933.366	10932.122	10898.648
15.0	10509.277	10500.978	10458.514	10500.978	10509.277	10495.445	10440.947
17.5	9911.873	9903.436	9820.720	9903.436	9911.873	9882.549	9802.600
20.0	9214.740	9209.208	9099.243	9209.208	9214.740	9170.340	9079.325
22.5	8533.238	8478.878	8396.163	8478.878	8533.238	8488.145	8392.566
25.0	7880.091	7844.266	7750.900	7844.266	7880.091	7845.234	7764.870
27.5	7292.646	7251.703	7166.913	7251.703	7292.646	7243.127	7189.182
30.0	6709.903	6684.868	6609.898	6684.868	6709.903	6673.664	6628.571
32.5	5878.600	5879.707	5837.381	5879.707	5878.600	5862.693	5855.362
35.0	4666.917	4684.484	4665.395	4684.484	4666.917	4657.650	4690.293
37.5	3406.822	3406.683	3386.350	3406.683	3406.822	3403.779	3445.136
40.0	2236.081	2218.791	2202.469	2218.791	2236.081	2238.433	2279.929
42.5	1185.541	1177.933	1170.879	1177.933	1185.541	1196.053	1215.418
45.0	682.333	659.510	627.835	659.510	682.333	695.611	714.008
47.5	484.397	464.894	442.624	464.894	484.397	500.580	521.605
50.0	339.437	323.530	308.315	323.530	339.437	355.482	376.230
52.5	237.634	226.153	215.918	226.153	237.634	251.051	269.724
55.0	159.068	149.386	141.778	149.386	159.068	170.687	187.839
57.5	108.581	101.942	96.686	101.942	108.581	118.402	132.096
60.0	72.618	68.053	64.734	68.053	72.618	80.641	91.983
62.5	46.752	43.847	41.773	43.847	46.752	53.253	62.244
65.0	28.217	26.419	25.036	26.419	28.217	33.335	40.251
67.5	14.524	13.694	12.587	13.694	14.524	18.673	24.068
70.0	4.288	3.735	2.905	3.735	4.288	7.331	11.481
72.5	0.000	0.000	0.000	0.000	0.000	0.000	1.383
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3983.54	N.A.	35.20
0-30	7591.26	N.A.	67.20
0-40	10424.28	N.A.	92.20
0-60	11268.97	N.A.	99.70
0-80	11303.00	N.A.	100.00
0-90	11302.99	N.A.	100.00
10-90	10228.02	N.A.	90.50
20-40	6440.75	N.A.	57.00
20-50	7126.48	N.A.	63.00
40-70	877.94	N.A.	7.80
60-80	34.02	N.A.	0.30
70-80	0.78	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11302.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1074.98
10-20	2908.56
20-30	3607.73
30-40	2833.02
40-50	685.73
50-60	158.96
60-70	33.24
70-80	0.78
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

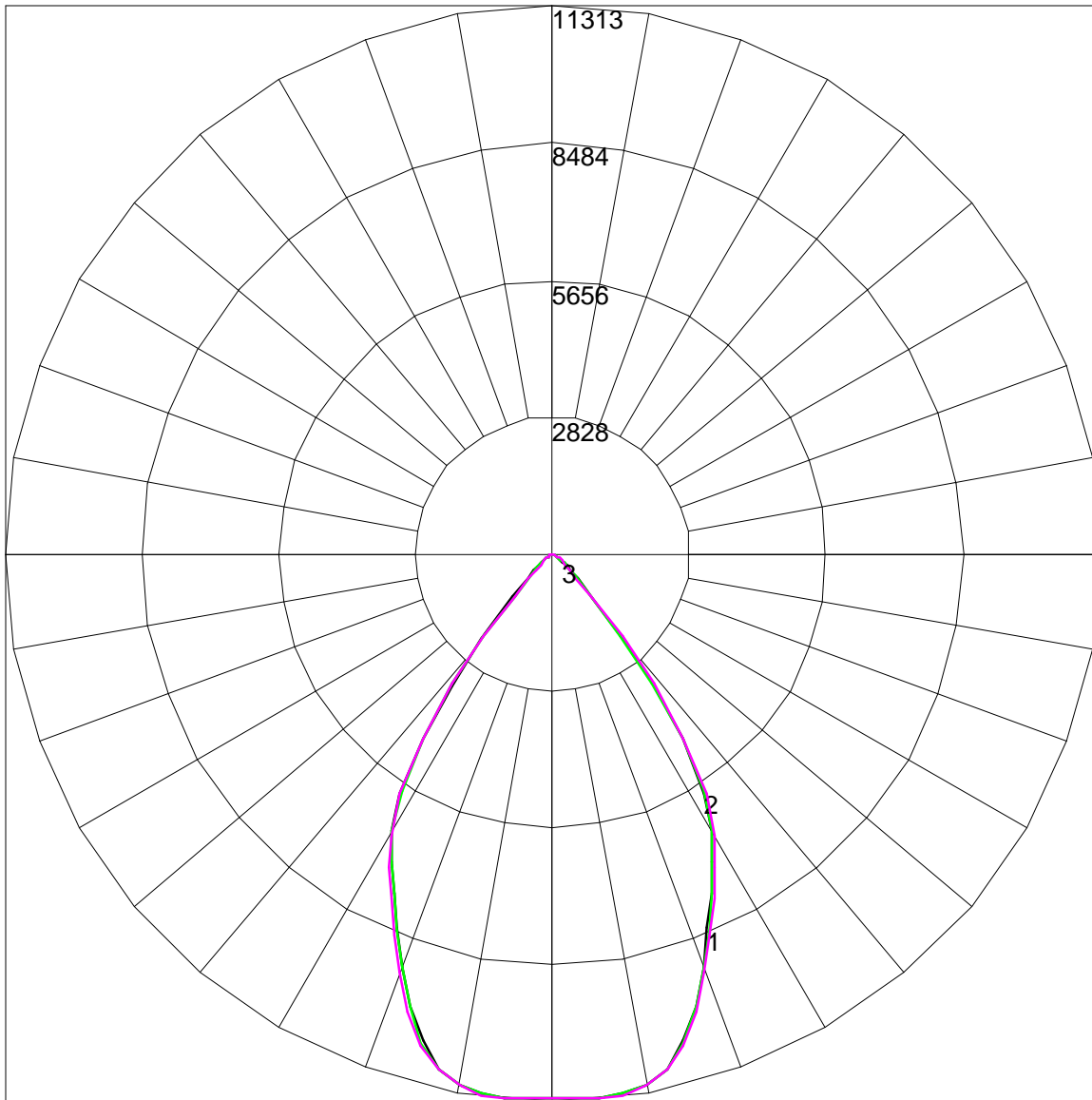
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	90	86	100	94	89	86	92	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	71	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60
8	78	68	62	58	77	68	62	58	67	62	58	66	61	58	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

POLAR GRAPH



Maximum Candela = 11312.64 Located At Horizontal Angle = 45, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)