

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALDDH16LEDLX-65L35KEX-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-65L Gen >11/03/2016
[MANUFAC] Spectrum Lighting
[LUMCAT] ALDDH16LEDLX-65L35K-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
[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: 60W now called 65L
[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	5497
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	54.1
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	3801	3633	3342
55	1233	1044	931
65	359	251	223
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	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374
2.5	5482.841	5486.272	5488.223	5485.667	5487.483	5485.667	5488.223	5486.272	5482.841	5486.272
5.0	5489.703	5497.170	5501.744	5498.650	5496.901	5498.650	5501.744	5497.170	5489.703	5497.170
7.5	5479.545	5488.223	5490.174	5485.801	5481.832	5485.801	5490.174	5488.223	5479.545	5488.223
10.0	5424.585	5437.030	5436.896	5430.707	5421.289	5430.707	5436.896	5437.030	5424.585	5437.030
12.5	5300.405	5316.684	5317.290	5309.486	5299.800	5309.486	5317.290	5316.684	5300.405	5316.684
15.0	5077.809	5104.313	5111.040	5107.004	5086.352	5107.004	5111.040	5104.313	5077.809	5104.313
17.5	4767.358	4806.240	4820.501	4816.397	4776.170	4816.397	4820.501	4806.240	4767.358	4806.240
20.0	4415.603	4459.866	4481.460	4478.769	4425.290	4478.769	4481.460	4459.866	4415.603	4459.866
22.5	4081.607	4128.091	4150.021	4123.584	4083.356	4123.584	4150.021	4128.091	4081.607	4128.091
25.0	3776.336	3815.420	3832.372	3814.949	3769.542	3814.949	3832.372	3815.420	3776.336	3815.420
27.5	3496.358	3522.593	3546.676	3526.764	3485.528	3526.764	3546.676	3522.593	3496.358	3522.593
30.0	3223.713	3245.643	3263.268	3251.092	3214.631	3251.092	3263.268	3245.643	3223.713	3245.643
32.5	2847.674	2851.239	2858.975	2859.513	2838.928	2859.513	2858.975	2851.239	2847.674	2851.239
35.0	2281.058	2265.183	2269.690	2278.233	2268.950	2278.233	2269.690	2265.183	2281.058	2265.183
37.5	1675.494	1655.380	1656.860	1656.793	1646.904	1656.793	1656.860	1655.380	1675.494	1655.380
40.0	1108.811	1088.630	1087.487	1079.078	1071.140	1079.078	1087.487	1088.630	1108.811	1088.630
42.5	591.101	581.684	576.571	572.871	569.441	572.871	576.571	581.684	591.101	581.684
45.0	347.248	338.301	331.843	320.743	305.339	320.743	331.843	338.301	347.248	338.301
47.5	253.675	243.450	235.580	226.094	215.264	226.094	235.580	243.450	253.675	243.450
50.0	182.974	172.884	165.081	157.345	149.945	157.345	165.081	172.884	182.974	172.884
52.5	131.176	122.095	115.570	109.986	105.008	109.986	115.570	122.095	131.176	122.095
55.0	91.353	83.011	77.360	72.652	68.952	72.652	77.360	83.011	91.353	83.011
57.5	64.243	57.583	52.807	49.578	47.022	49.578	52.807	57.583	64.243	57.583
60.0	44.735	39.218	35.317	33.097	31.482	33.097	35.317	39.218	44.735	39.218
62.5	30.271	25.899	22.737	21.325	20.316	21.325	22.737	25.899	30.271	25.899
65.0	19.576	16.212	13.723	12.849	12.176	12.849	13.723	16.212	19.576	16.212
67.5	11.705	9.081	7.063	6.660	6.122	6.660	7.063	9.081	11.705	9.081
70.0	5.583	3.565	2.085	1.816	1.413	1.816	2.085	3.565	5.583	3.565
72.5	0.673	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.673	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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CANDELA TABULATION - (Cont.)

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. Angles **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	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374	5475.374
2.5	5488.223	5485.667	5487.483	5485.667	5488.223	5486.272	5482.841
5.0	5501.744	5498.650	5496.901	5498.650	5501.744	5497.170	5489.703
7.5	5490.174	5485.801	5481.832	5485.801	5490.174	5488.223	5479.545
10.0	5436.896	5430.707	5421.289	5430.707	5436.896	5437.030	5424.585
12.5	5317.290	5309.486	5299.800	5309.486	5317.290	5316.684	5300.405
15.0	5111.040	5107.004	5086.352	5107.004	5111.040	5104.313	5077.809
17.5	4820.501	4816.397	4776.170	4816.397	4820.501	4806.240	4767.358
20.0	4481.460	4478.769	4425.290	4478.769	4481.460	4459.866	4415.603
22.5	4150.021	4123.584	4083.356	4123.584	4150.021	4128.091	4081.607
25.0	3832.372	3814.949	3769.542	3814.949	3832.372	3815.420	3776.336
27.5	3546.676	3526.764	3485.528	3526.764	3546.676	3522.593	3496.358
30.0	3263.268	3251.092	3214.631	3251.092	3263.268	3245.643	3223.713
32.5	2858.975	2859.513	2838.928	2859.513	2858.975	2851.239	2847.674
35.0	2269.690	2278.233	2268.950	2278.233	2269.690	2265.183	2281.058
37.5	1656.860	1656.793	1646.904	1656.793	1656.860	1655.380	1675.494
40.0	1087.487	1079.078	1071.140	1079.078	1087.487	1088.630	1108.811
42.5	576.571	572.871	569.441	572.871	576.571	581.684	591.101
45.0	331.843	320.743	305.339	320.743	331.843	338.301	347.248
47.5	235.580	226.094	215.264	226.094	235.580	243.450	253.675
50.0	165.081	157.345	149.945	157.345	165.081	172.884	182.974
52.5	115.570	109.986	105.008	109.986	115.570	122.095	131.176
55.0	77.360	72.652	68.952	72.652	77.360	83.011	91.353
57.5	52.807	49.578	47.022	49.578	52.807	57.583	64.243
60.0	35.317	33.097	31.482	33.097	35.317	39.218	44.735
62.5	22.737	21.325	20.316	21.325	22.737	25.899	30.271
65.0	13.723	12.849	12.176	12.849	13.723	16.212	19.576
67.5	7.063	6.660	6.122	6.660	7.063	9.081	11.705
70.0	2.085	1.816	1.413	1.816	2.085	3.565	5.583
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.673
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	1937.34	N.A.	35.20
0-30	3691.91	N.A.	67.20
0-40	5069.7	N.A.	92.20
0-60	5480.51	N.A.	99.70
0-80	5497.06	N.A.	100.00
0-90	5497.05	N.A.	100.00
10-90	4974.25	N.A.	90.50
20-40	3132.37	N.A.	57.00
20-50	3465.86	N.A.	63.00
40-70	426.97	N.A.	7.80
60-80	16.55	N.A.	0.30
70-80	0.38	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	5497.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	522.80
10-20	1414.54
20-30	1754.57
30-40	1377.8
40-50	333.50
50-60	77.31
60-70	16.17
70-80	0.38
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

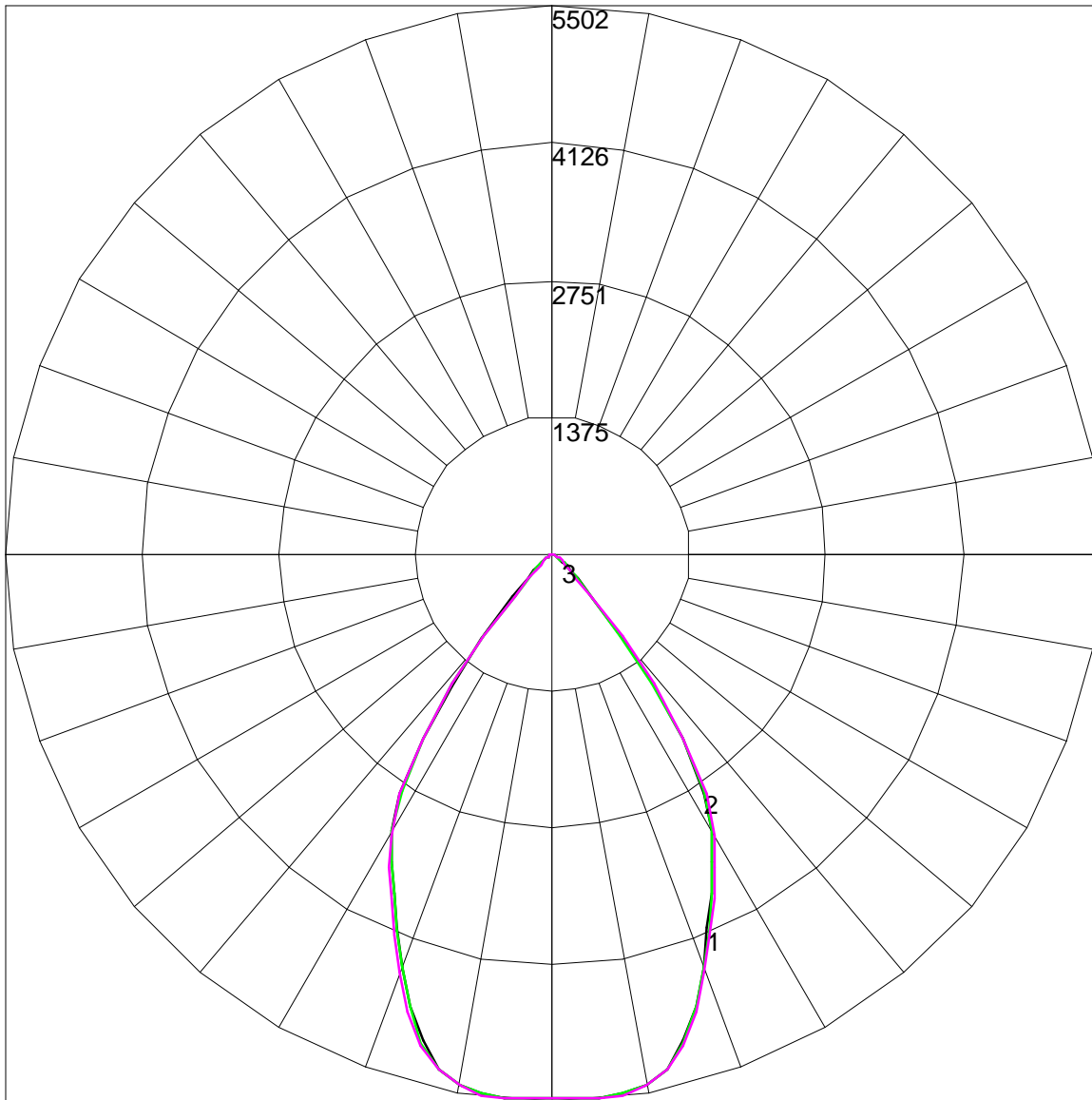
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5501.744 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)