

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALDDH16LEDLX-130L35KEX-AL16SG-MD.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] CRT1611020944-001_M-130L Gen >11/03/2016
[MANUFAC] Spectrum Lighting
[LUMCAT] ALDDH16LEDLX-130L-35K-EX-AL16-SG-MD
[LUMINAIRE] 16" Diam. LED Aluminum Mini-Bay, Open Aperture
[OTHER] Semi-Diffuse, Clear Anodized Inner Reflector, Medium Beam
[OTHER] 46.7 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: 114W now called 130L
[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	9939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	103.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.78
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	2745	2839	3599
55	988	1026	1307
65	162	183	336
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	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262
2.5	14242.326	14216.767	14216.638	14223.317	14239.372	14223.317	14216.638	14216.767	14242.326	14216.767
5.0	14158.069	14171.042	14137.904	14115.427	14132.895	14115.427	14137.904	14171.042	14158.069	14171.042
7.5	13894.639	13882.437	13858.933	13867.924	13856.235	13867.924	13858.933	13882.437	13894.639	13882.437
10.0	13385.631	13435.338	13396.934	13390.897	13364.696	13390.897	13396.934	13435.338	13385.631	13435.338
12.5	12721.597	12714.918	12671.120	12650.312	12606.257	12650.312	12671.120	12714.918	12721.597	12714.918
15.0	11687.141	11674.554	11646.040	11606.609	11529.160	11606.609	11646.040	11674.554	11687.141	11674.554
17.5	10348.154	10351.879	10328.888	10262.613	10142.778	10262.613	10328.888	10351.879	10348.154	10351.879
20.0	8828.195	8843.222	8837.956	8783.369	8680.360	8783.369	8837.956	8843.222	8828.195	8843.222
22.5	7491.391	7477.905	7482.657	7453.502	7381.575	7453.502	7482.657	7477.905	7491.391	7477.905
25.0	6389.248	6395.541	6412.752	6400.807	6362.532	6400.807	6412.752	6395.541	6389.248	6395.541
27.5	5560.681	5569.929	5588.938	5601.782	5589.452	5601.782	5588.938	5569.929	5560.681	5569.929
30.0	4949.692	4944.041	4961.894	4964.591	4973.454	4964.591	4961.894	4944.041	4949.692	4944.041
32.5	4227.603	4210.777	4241.089	4271.272	4278.593	4271.272	4241.089	4210.777	4227.603	4210.777
35.0	3285.880	3265.459	3281.128	3340.339	3379.770	3340.339	3281.128	3265.459	3285.880	3265.459
37.5	2263.883	2265.039	2322.195	2359.828	2422.507	2359.828	2322.195	2265.039	2263.883	2265.039
40.0	1367.886	1364.675	1410.271	1451.244	1490.289	1451.244	1410.271	1364.675	1367.886	1364.675
42.5	588.512	574.255	608.163	668.402	732.236	668.402	608.163	574.255	588.512	574.255
45.0	250.715	249.944	259.320	301.192	328.806	301.192	259.320	249.944	250.715	249.944
47.5	185.981	183.412	190.348	207.045	227.981	207.045	190.348	183.412	185.981	183.412
50.0	134.734	133.578	140.385	153.614	171.082	153.614	140.385	133.578	134.734	133.578
52.5	100.183	99.284	104.422	115.468	129.724	115.468	104.422	99.284	100.183	99.284
55.0	73.211	72.312	76.036	85.284	96.844	85.284	76.036	72.312	73.211	72.312
57.5	51.890	50.862	53.945	61.523	71.027	61.523	53.945	50.862	51.890	50.862
60.0	34.037	33.523	35.706	42.000	49.835	42.000	35.706	33.523	34.037	33.523
62.5	20.294	19.651	21.706	26.459	32.495	26.459	21.706	19.651	20.294	19.651
65.0	8.862	8.220	10.018	13.743	18.367	13.743	10.018	8.220	8.862	8.220
67.5	0.000	0.000	0.514	3.211	6.936	3.211	0.514	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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. 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	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262	14249.262
2.5	14216.638	14223.317	14239.372	14223.317	14216.638	14216.767	14242.326
5.0	14137.904	14115.427	14132.895	14115.427	14137.904	14171.042	14158.069
7.5	13858.933	13867.924	13856.235	13867.924	13858.933	13882.437	13894.639
10.0	13396.934	13390.897	13364.696	13390.897	13396.934	13435.338	13385.631
12.5	12671.120	12650.312	12606.257	12650.312	12671.120	12714.918	12721.597
15.0	11646.040	11606.609	11529.160	11606.609	11646.040	11674.554	11687.141
17.5	10328.888	10262.613	10142.778	10262.613	10328.888	10351.879	10348.154
20.0	8837.956	8783.369	8680.360	8783.369	8837.956	8843.222	8828.195
22.5	7482.657	7453.502	7381.575	7453.502	7482.657	7477.905	7491.391
25.0	6412.752	6400.807	6362.532	6400.807	6412.752	6395.541	6389.248
27.5	5588.938	5601.782	5589.452	5601.782	5588.938	5569.929	5560.681
30.0	4961.894	4964.591	4973.454	4964.591	4961.894	4944.041	4949.692
32.5	4241.089	4271.272	4278.593	4271.272	4241.089	4210.777	4227.603
35.0	3281.128	3340.339	3379.770	3340.339	3281.128	3265.459	3285.880
37.5	2322.195	2359.828	2422.507	2359.828	2322.195	2265.039	2263.883
40.0	1410.271	1451.244	1490.289	1451.244	1410.271	1364.675	1367.886
42.5	608.163	668.402	732.236	668.402	608.163	574.255	588.512
45.0	259.320	301.192	328.806	301.192	259.320	249.944	250.715
47.5	190.348	207.045	227.981	207.045	190.348	183.412	185.981
50.0	140.385	153.614	171.082	153.614	140.385	133.578	134.734
52.5	104.422	115.468	129.724	115.468	104.422	99.284	100.183
55.0	76.036	85.284	96.844	85.284	76.036	72.312	73.211
57.5	53.945	61.523	71.027	61.523	53.945	50.862	51.890
60.0	35.706	42.000	49.835	42.000	35.706	33.523	34.037
62.5	21.706	26.459	32.495	26.459	21.706	19.651	20.294
65.0	10.018	13.743	18.367	13.743	10.018	8.220	8.862
67.5	0.514	3.211	6.936	3.211	0.514	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	4498.07	N.A.	45.30
0-30	7492.54	N.A.	75.40
0-40	9498.39	N.A.	95.60
0-60	9925.11	N.A.	99.90
0-80	9938.72	N.A.	100.00
0-90	9938.72	N.A.	100.00
10-90	8612.64	N.A.	86.70
20-40	5000.32	N.A.	50.30
20-50	5352.39	N.A.	53.90
40-70	440.33	N.A.	4.40
60-80	13.61	N.A.	0.10
70-80	0.00	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	9938.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1326.08
10-20	3171.98
20-30	2994.47
30-40	2005.85
40-50	352.07
50-60	74.65
60-70	13.61
70-80	0.00
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

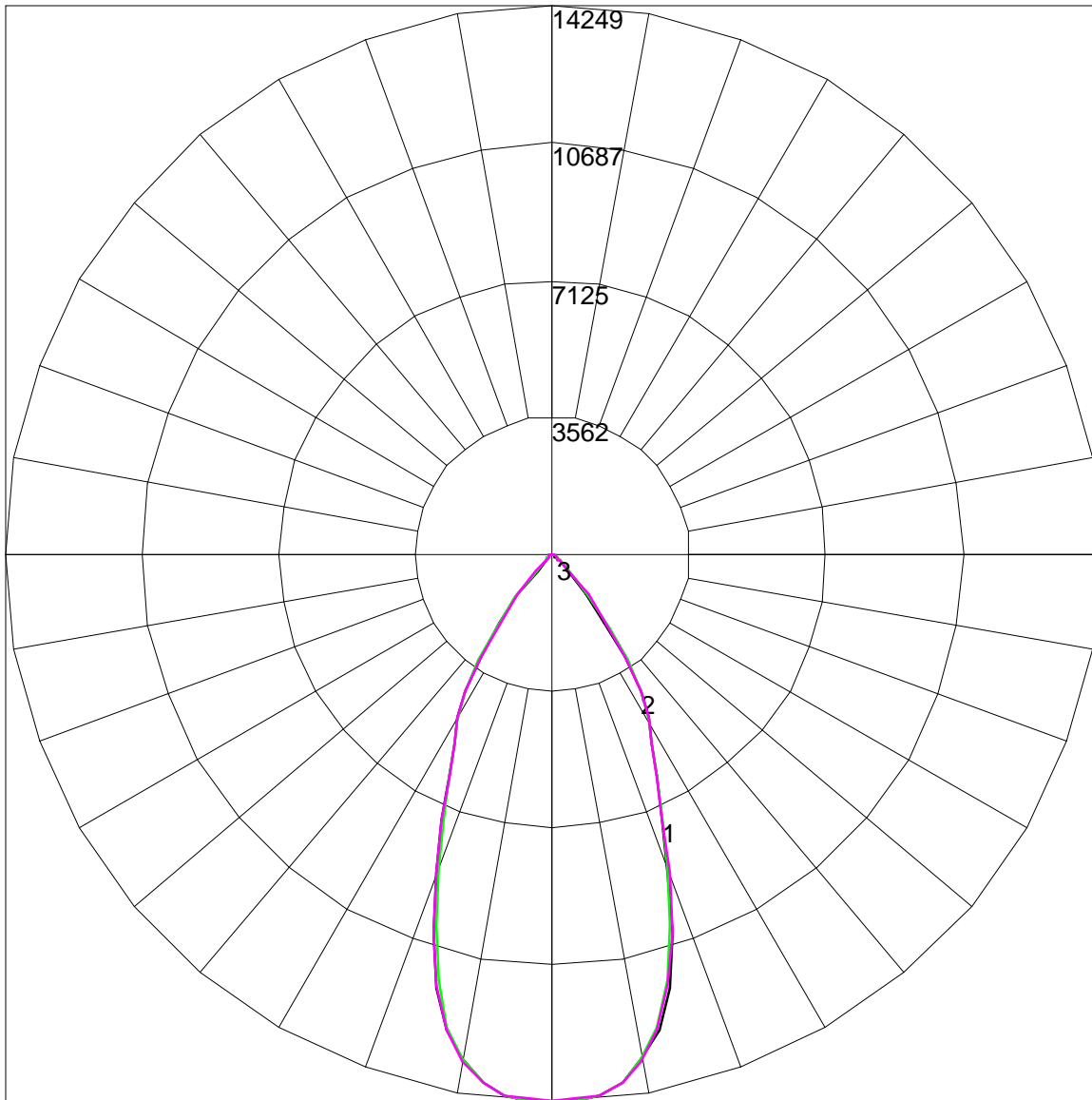
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	91	86	82	97	90	86	82	88	84	81	86	83	80	84	81	79	78
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58
10	75	65	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 14249.262 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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