

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALDDH16LEDLX-130L35KEX-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-130L Gen >11/03/2016
[MANUFAC] Spectrum Lighting
[LUMCAT] ALDDH16LEDLX-130L35K-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: 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	10496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	103.89
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	7258	6936	6382
55	2354	1993	1777
65	685	480	426
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	10454.24510454.24510454.24510454.24510454.24510454.24510454.24510454.24510454.24510454.24510454.245									
2.5	10468.50210475.05310478.77710473.89710477.36410473.89710478.77710475.05310468.50210475.053									
5.0	10481.60310495.86010504.59410498.68510495.34610498.68510504.59410495.86010481.60310495.860									
7.5	10462.20910478.77710482.50210474.15310466.57510474.15310482.50210478.77710462.20910478.777									
10.0	10357.27310381.03410380.77810368.96110350.97910368.96110380.77810381.03410357.27310381.034									
12.5	10120.17310151.25510152.41110137.51210119.01710137.51210152.41110151.25510120.17310151.255									
15.0	9695.165 9745.770 9758.614 9750.908 9711.477 9750.908 9758.614 9745.770 9695.165 9745.770									
17.5	9102.414 9176.653 9203.882 9196.047 9119.240 9196.047 9203.882 9176.653 9102.414 9176.653									
20.0	8430.802 8515.315 8556.544 8551.407 8449.297 8551.407 8556.544 8515.315 8430.802 8515.315									
22.5	7793.097 7881.849 7923.720 7873.243 7796.436 7873.243 7923.720 7881.849 7793.097 7881.849									
25.0	7210.236 7284.860 7317.227 7283.961 7197.264 7283.961 7317.227 7284.860 7210.236 7284.860									
27.5	6675.669 6725.761 6771.742 6733.724 6654.990 6733.724 6771.742 6725.761 6675.669 6725.761									
30.0	6155.102 6196.973 6230.624 6207.377 6137.762 6207.377 6230.624 6196.973 6155.102 6196.973									
32.5	5437.122 5443.929 5458.700 5459.727 5420.425 5459.727 5458.700 5443.929 5437.122 5443.929									
35.0	4355.272 4324.960 4333.566 4349.877 4332.153 4349.877 4333.566 4324.960 4355.272 4324.960									
37.5	3199.055 3160.651 3163.477 3163.349 3144.468 3163.349 3163.477 3160.651 3199.055 3160.651									
40.0	2117.076 2078.544 2076.361 2060.306 2045.150 2060.306 2076.361 2078.544 2117.076 2078.544									
42.5	1128.602 1110.621 1100.859 1093.795 1087.245 1093.795 1100.859 1110.621 1128.602 1110.621									
45.0	663.007 645.925 633.595 612.402 582.989 612.402 633.595 645.925 663.007 645.925									
47.5	484.347 464.824 449.797 431.687 411.008 431.687 449.797 464.824 484.347 464.824									
50.0	349.357 330.091 315.192 300.421 286.293 300.421 315.192 330.091 349.357 330.091									
52.5	250.458 233.119 220.660 209.999 200.495 209.999 220.660 233.119 250.458 233.119									
55.0	174.422 158.495 147.706 138.715 131.651 138.715 147.706 158.495 174.422 158.495									
57.5	122.660 109.945 100.825 94.660 89.780 94.660 100.825 109.945 122.660 109.945									
60.0	85.413 74.881 67.431 63.192 60.110 63.192 67.431 74.881 85.413 74.881									
62.5	57.798 49.449 43.413 40.715 38.789 40.715 43.413 49.449 57.798 49.449									
65.0	37.376 30.954 26.202 24.532 23.248 24.532 26.202 30.954 37.376 30.954									
67.5	22.349 17.339 13.486 12.716 11.688 12.716 13.486 17.339 22.349 17.339									
70.0	10.661 6.807 3.982 3.468 2.697 3.468 3.982 6.807 10.661 6.807									
72.5	1.284 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.284 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	10454.24510454.24510454.24510454.24510454.24510454.24510454.245						
2.5	10478.77710473.89710477.36410473.89710478.77710475.05310468.502						
5.0	10504.59410498.68510495.34610498.68510504.59410495.86010481.603						
7.5	10482.50210474.15310466.57510474.15310482.50210478.77710462.209						
10.0	10380.77810368.96110350.97910368.96110380.77810381.03410357.273						
12.5	10152.41110137.51210119.01710137.51210152.41110151.25510120.173						
15.0	9758.614	9750.908	9711.477	9750.908	9758.614	9745.770	9695.165
17.5	9203.882	9196.047	9119.240	9196.047	9203.882	9176.653	9102.414
20.0	8556.544	8551.407	8449.297	8551.407	8556.544	8515.315	8430.802
22.5	7923.720	7873.243	7796.436	7873.243	7923.720	7881.849	7793.097
25.0	7317.227	7283.961	7197.264	7283.961	7317.227	7284.860	7210.236
27.5	6771.742	6733.724	6654.990	6733.724	6771.742	6725.761	6675.669
30.0	6230.624	6207.377	6137.762	6207.377	6230.624	6196.973	6155.102
32.5	5458.700	5459.727	5420.425	5459.727	5458.700	5443.929	5437.122
35.0	4333.566	4349.877	4332.153	4349.877	4333.566	4324.960	4355.272
37.5	3163.477	3163.349	3144.468	3163.349	3163.477	3160.651	3199.055
40.0	2076.361	2060.306	2045.150	2060.306	2076.361	2078.544	2117.076
42.5	1100.859	1093.795	1087.245	1093.795	1100.859	1110.621	1128.602
45.0	633.595	612.402	582.989	612.402	633.595	645.925	663.007
47.5	449.797	431.687	411.008	431.687	449.797	464.824	484.347
50.0	315.192	300.421	286.293	300.421	315.192	330.091	349.357
52.5	220.660	209.999	200.495	209.999	220.660	233.119	250.458
55.0	147.706	138.715	131.651	138.715	147.706	158.495	174.422
57.5	100.825	94.660	89.780	94.660	100.825	109.945	122.660
60.0	67.431	63.192	60.110	63.192	67.431	74.881	85.413
62.5	43.413	40.715	38.789	40.715	43.413	49.449	57.798
65.0	26.202	24.532	23.248	24.532	26.202	30.954	37.376
67.5	13.486	12.716	11.688	12.716	13.486	17.339	22.349
70.0	3.982	3.468	2.697	3.468	3.982	6.807	10.661
72.5	0.000	0.000	0.000	0.000	0.000	0.000	1.284
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	3699.00	N.A.	35.20
0-30	7049.03	N.A.	67.20
0-40	9679.69	N.A.	92.20
0-60	10464.04	N.A.	99.70
0-80	10495.64	N.A.	100.00
0-90	10495.64	N.A.	100.00
10-90	9497.45	N.A.	90.50
20-40	5980.69	N.A.	57.00
20-50	6617.44	N.A.	63.00
40-70	815.23	N.A.	7.80
60-80	31.59	N.A.	0.30
70-80	0.72	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	10495.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	998.20
10-20	2700.8
20-30	3350.03
30-40	2630.66
40-50	636.75
50-60	147.61
60-70	30.87
70-80	0.72
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

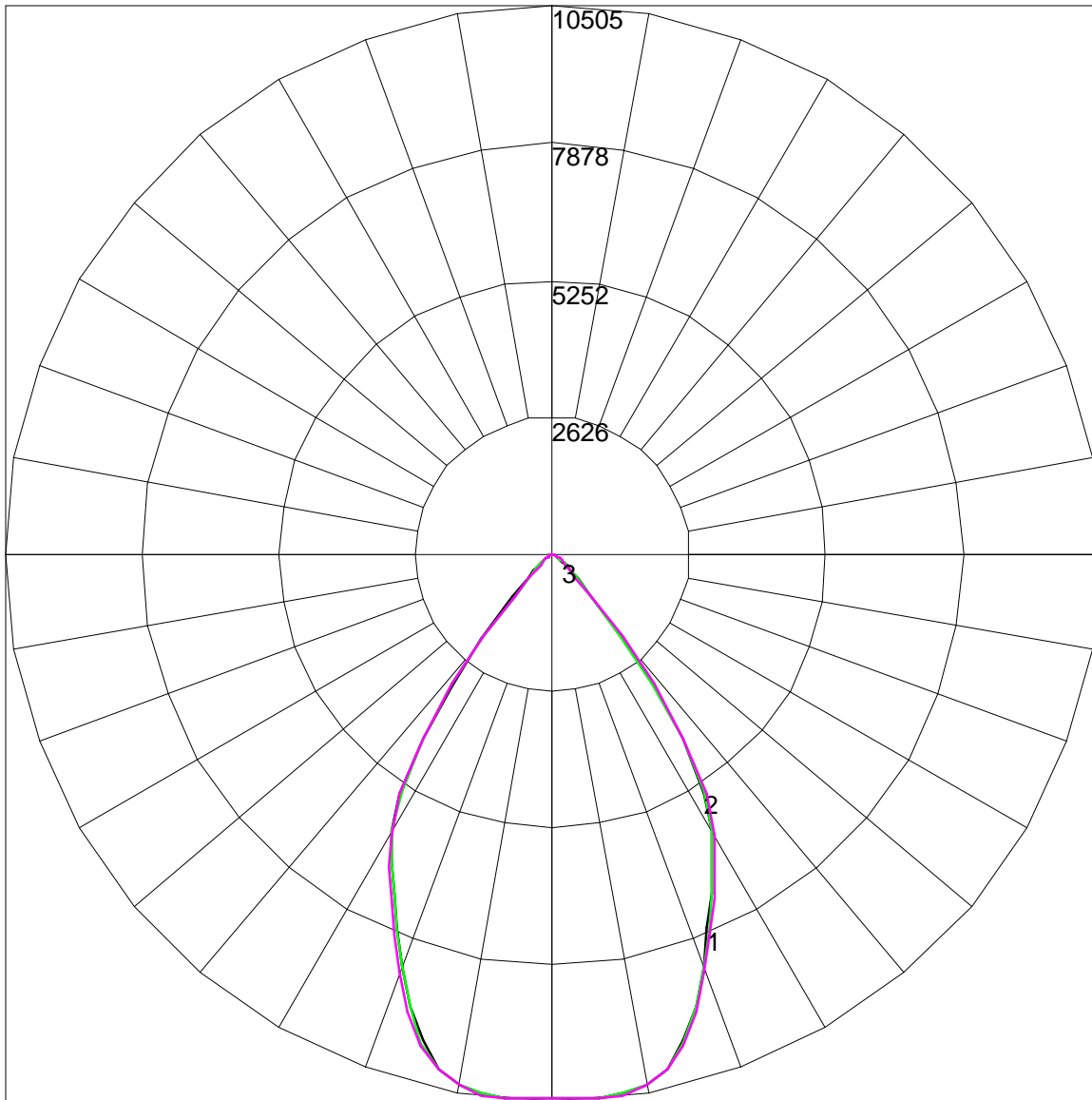
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 10504.594 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)