



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-8L-40-ACSF16FA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7911  
[TESTLAB]LSI INDUSTRIES, INC  
[TESTDATE]07/12/16  
[ISSUE DATE]01/16/17  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-8L-40-ACSF16FA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	9142 (1 lamp)
Total Lamp Lumens	9142
Luminaire Lumens	9142
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	76
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.30
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

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17669	17818	17733
55	13444	13540	13453
65	13682	13658	13658
75	17745	17687	17629
85	33258	33200	33258

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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>
0.0	2953.702	2953.702	2953.702	2953.702	2953.702
2.5	2958.244	2958.893	2958.244	2960.839	2959.542
5.0	2997.177	3003.666	3001.719	3010.154	3013.399
7.5	3042.598	3043.896	3053.629	3040.652	3037.407
10.0	3050.385	3073.096	3093.860	3086.722	3050.385
12.5	3058.171	3087.371	3103.593	3093.860	3054.927
15.0	3053.629	3089.967	3083.478	3072.447	3070.500
17.5	3043.247	3046.492	3065.958	3063.363	3026.376
20.0	3008.857	3021.834	3052.332	3051.683	3013.399
22.5	2977.061	3010.803	3004.963	2998.475	2987.444
25.0	2937.480	2960.839	2967.328	2974.466	2954.351
27.5	2861.561	2885.569	2888.814	2890.760	2839.499
30.0	2736.976	2758.389	2741.518	2733.083	2733.731
32.5	2611.093	2587.085	2571.511	2566.969	2605.253
35.0	2446.926	2419.674	2386.581	2420.971	2422.918
37.5	2261.996	2232.796	2207.490	2252.911	2266.538
40.0	2064.736	2044.621	2030.346	2058.896	2053.705
42.5	1846.064	1836.979	1833.735	1857.743	1842.819
45.0	1622.200	1620.902	1635.826	1640.369	1628.040
47.5	1438.567	1442.460	1471.660	1432.727	1432.727
50.0	1295.164	1308.142	1332.800	1320.471	1308.791
52.5	1138.784	1156.304	1179.015	1175.122	1145.273
55.0	1001.222	1004.466	1008.360	1013.551	1001.871
57.5	884.423	868.201	853.926	866.904	885.721
60.0	787.740	778.656	768.274	774.114	778.007
62.5	760.487	760.487	759.190	759.190	758.541
65.0	750.754	750.105	749.456	748.808	749.456
67.5	728.043	727.394	726.097	725.448	724.799
70.0	693.004	692.355	691.706	690.408	691.057
72.5	648.231	647.582	646.933	645.636	643.689
75.0	596.321	596.321	594.374	593.725	592.427
77.5	538.570	537.273	535.326	535.326	535.326
80.0	478.873	474.980	476.278	474.980	474.331
82.5	419.825	419.825	419.176	420.474	419.176
85.0	376.350	376.350	375.702	376.350	376.350
87.5	339.364	340.013	339.364	338.715	338.066
90.0	310.165	310.165	309.516	308.218	308.867
92.5	286.805	286.805	286.156	284.858	284.209
95.0	266.041	266.690	265.392	264.743	264.743
97.5	248.521	248.521	248.521	247.872	247.872
100.0	233.597	232.948	233.597	233.597	232.948
102.5	219.970	219.970	220.619	220.619	220.619
105.0	208.939	208.939	208.939	208.939	208.939
107.5	198.557	199.206	199.206	198.557	199.206
110.0	190.122	190.122	190.122	190.122	190.122
112.5	182.335	182.335	182.335	182.984	182.984
115.0	175.846	175.846	176.495	176.495	177.144
117.5	171.304	171.304	171.304	171.953	171.953
120.0	168.060	168.060	168.709	168.709	169.358
122.5	166.762	166.113	166.762	167.411	167.411
125.0	166.113	166.113	166.762	166.762	167.411
127.5	166.762	166.762	166.762	167.411	168.060
130.0	167.411	167.411	168.060	168.060	168.709
132.5	168.060	168.709	168.709	169.358	169.358

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	169.358	169.358	169.358	170.007	170.007
<b>137.5</b>	169.358	168.709	169.358	169.358	170.007
<b>140.0</b>	167.411	167.411	167.411	167.411	168.060
<b>142.5</b>	164.167	163.518	164.167	164.167	164.167
<b>145.0</b>	158.976	158.976	158.976	158.976	159.624
<b>147.5</b>	153.785	153.785	154.433	153.785	153.785
<b>150.0</b>	147.945	147.945	147.945	147.945	147.945
<b>152.5</b>	141.456	140.158	140.807	141.456	141.456
<b>155.0</b>	132.372	131.723	133.020	133.669	133.669
<b>157.5</b>	123.287	122.638	123.936	124.585	125.234
<b>160.0</b>	115.501	115.501	116.798	117.447	117.447
<b>162.5</b>	107.065	107.714	108.363	109.012	108.363
<b>165.0</b>	98.630	99.928	99.928	100.576	99.928
<b>167.5</b>	90.843	91.492	90.843	90.843	89.545
<b>170.0</b>	83.057	83.057	82.408	81.110	80.461
<b>172.5</b>	74.621	73.972	72.675	70.728	70.079
<b>175.0</b>	66.186	64.888	62.941	60.346	59.048
<b>177.5</b>	57.101	55.804	53.857	50.613	49.315
<b>180.0</b>	46.070	46.070	46.070	46.070	46.070

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1157.85	12.70	12.70
0-30	2511.34	27.50	27.50
0-40	4015.82	43.90	43.90
0-60	6197.24	67.80	67.80
0-80	7557.24	82.70	82.70
0-90	7973.72	87.20	87.20
10-90	7684.67	84.10	84.10
20-40	2857.97	31.30	31.30
20-50	4128.08	45.20	45.20
40-70	2917.8	31.90	31.90
60-80	1360.00	14.90	14.90
70-80	623.62	6.80	6.80
80-90	416.48	4.60	4.60
90-110	514.57	5.60	5.60
90-120	690.84	7.60	7.60
90-130	840.84	9.20	9.20
90-150	1071.54	11.70	11.70
90-180	1168.6	12.80	12.80
110-180	654.03	7.20	7.20
0-180	9142.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	289.04
10-20	868.81
20-30	1353.49
30-40	1504.48
40-50	1270.1
50-60	911.32
60-70	736.37
70-80	623.62
80-90	416.48
90-100	292.23
100-110	222.33
110-120	176.27
120-130	150.00
130-140	130.77
140-150	99.93
150-160	61.76
160-170	28.72
170-180	6.58

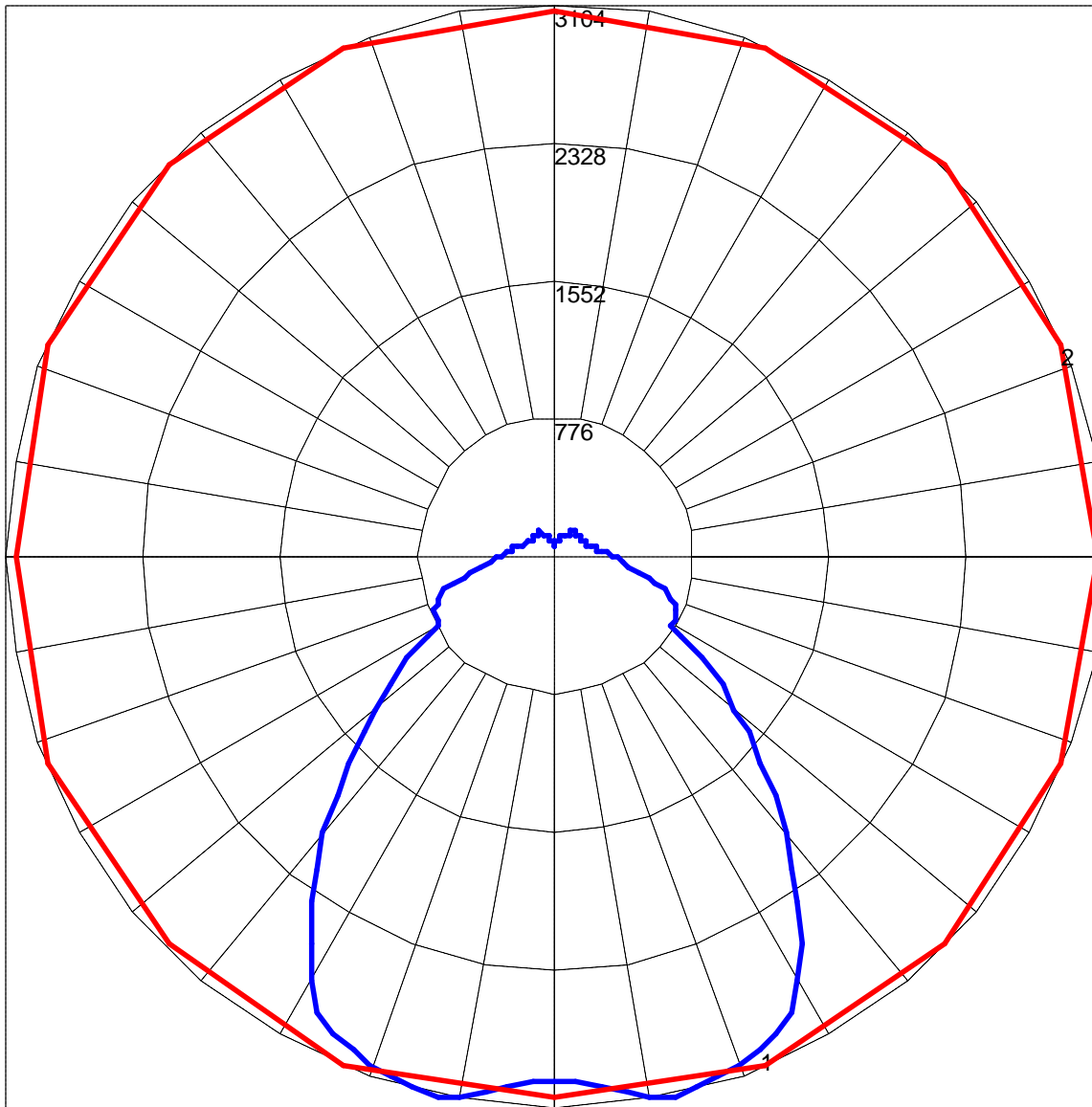
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	105	100	96	92	101	97	93	89	90	87	84	84	81	79	78	76	74	71
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	44
5	75	62	54	47	72	60	52	46	57	50	45	54	48	43	50	45	41	39
6	69	56	48	42	66	55	47	41	52	45	39	49	43	38	46	41	37	35
7	64	51	43	37	62	50	42	36	47	40	35	45	39	34	42	37	33	31
8	60	47	39	33	58	46	38	33	43	37	32	41	35	31	39	34	30	28
9	56	43	35	30	54	42	35	30	40	33	29	38	32	28	36	31	27	25
10	53	40	32	27	51	39	32	27	37	31	26	35	30	26	34	29	25	23

POLAR GRAPH



Maximum Candela = 3103.593 Located At Horizontal Angle = 45, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)