



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-8L-40-ACS16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7672  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]03/21/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]AUM-S-LED-8L-40-ACS16  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[\_SEARCH\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9494
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	76.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.34
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	19273	19417	19453
55	13478	13374	13374
65	12007	11987	11947
75	16918	16885	16852
85	36609	36609	36609

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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	3131.259	3131.259	3131.259	3131.259	3131.259
2.5	3143.379	3133.462	3136.768	3136.768	3138.971
5.0	3141.175	3138.971	3140.073	3138.971	3138.971
7.5	3141.175	3136.768	3136.768	3136.768	3135.666
10.0	3148.887	3165.414	3176.432	3165.414	3149.989
12.5	3210.587	3209.485	3240.335	3229.317	3222.707
15.0	3253.557	3263.473	3239.233	3250.251	3270.083
17.5	3256.862	3237.030	3245.844	3243.640	3233.724
20.0	3223.808	3241.437	3226.012	3231.521	3245.844
22.5	3217.198	3201.773	3208.384	3202.875	3262.371
25.0	3226.012	3197.366	3196.264	3198.468	3234.826
27.5	3175.330	3168.719	3176.432	3173.127	3169.821
30.0	3092.697	3076.170	3076.170	3075.068	3078.373
32.5	2939.549	2929.633	2927.430	2910.903	2920.819
35.0	2728.007	2726.906	2734.618	2712.583	2724.702
37.5	2532.992	2535.196	2542.908	2524.178	2515.364
40.0	2317.043	2326.959	2326.959	2318.145	2302.720
42.5	2068.041	2064.736	2075.754	2060.329	2052.616
45.0	1769.459	1768.357	1782.680	1793.698	1785.985
47.5	1556.815	1557.917	1556.815	1553.510	1572.240
50.0	1379.429	1384.938	1382.734	1387.141	1400.362
52.5	1205.347	1211.958	1192.126	1205.347	1210.856
55.0	1003.722	1005.925	996.009	1004.823	996.009
57.5	813.114	815.317	813.114	819.724	808.707
60.0	674.289	683.104	689.714	687.511	686.409
62.5	663.272	663.272	662.170	661.068	659.966
65.0	658.864	658.864	657.763	656.661	655.559
67.5	646.745	645.643	644.541	644.541	643.440
70.0	625.811	625.811	624.709	623.608	623.608
72.5	600.470	600.470	599.368	597.165	597.165
75.0	568.519	568.519	567.417	565.213	566.315
77.5	532.160	532.160	529.956	528.854	527.753
80.0	493.597	491.394	490.292	490.292	489.190
82.5	452.832	451.730	451.730	450.628	450.628
85.0	414.269	413.168	414.269	414.269	414.269
87.5	379.012	379.012	377.911	379.012	377.911
90.0	348.162	347.061	347.061	348.162	348.162
92.5	325.025	323.923	323.923	322.822	323.923
95.0	301.888	302.990	301.888	300.786	300.786
97.5	283.157	282.056	282.056	280.954	280.954
100.0	264.427	263.325	263.325	262.224	262.224
102.5	245.697	244.595	245.697	245.697	245.697
105.0	229.170	229.170	229.170	230.272	230.272
107.5	214.847	214.847	214.847	215.949	214.847
110.0	202.728	201.626	201.626	201.626	201.626
112.5	189.506	189.506	189.506	189.506	189.506
115.0	178.488	178.488	177.387	178.488	178.488
117.5	167.471	167.471	167.471	167.471	167.471
120.0	159.758	158.656	159.758	159.758	159.758
122.5	150.944	150.944	150.944	150.944	150.944
125.0	143.231	143.231	143.231	144.333	144.333
127.5	136.621	136.621	136.621	136.621	136.621
130.0	131.112	131.112	131.112	131.112	131.112
132.5	125.603	125.603	125.603	125.603	125.603

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	120.094	120.094	120.094	120.094	120.094
<b>137.5</b>	115.687	115.687	115.687	115.687	115.687
<b>140.0</b>	111.280	111.280	111.280	111.280	111.280
<b>142.5</b>	106.873	107.974	106.873	107.974	107.974
<b>145.0</b>	103.567	103.567	103.567	103.567	103.567
<b>147.5</b>	99.160	100.262	99.160	100.262	99.160
<b>150.0</b>	95.855	95.855	95.855	95.855	95.855
<b>152.5</b>	91.448	92.550	91.448	92.550	91.448
<b>155.0</b>	88.142	88.142	88.142	88.142	87.041
<b>157.5</b>	82.634	82.634	83.735	83.735	82.634
<b>160.0</b>	79.328	79.328	80.430	79.328	79.328
<b>162.5</b>	74.921	73.819	76.023	74.921	74.921
<b>165.0</b>	70.514	70.514	71.616	70.514	69.412
<b>167.5</b>	66.107	66.107	66.107	65.005	65.005
<b>170.0</b>	60.598	60.598	60.598	58.394	58.394
<b>172.5</b>	55.089	55.089	55.089	52.885	52.885
<b>175.0</b>	49.580	49.580	49.580	49.580	49.580
<b>177.5</b>	42.969	44.071	44.071	45.173	45.173
<b>180.0</b>	39.664	39.664	39.664	39.664	39.664

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1216.44	N.A.	12.80
0-30	2689.82	N.A.	28.30
0-40	4389.22	N.A.	46.20
0-60	6687.66	N.A.	70.40
0-80	7933.04	N.A.	83.60
0-90	8386.53	N.A.	88.30
10-90	8086.47	N.A.	85.20
20-40	3172.78	N.A.	33.40
20-50	4567.67	N.A.	48.10
40-70	2948.18	N.A.	31.10
60-80	1245.38	N.A.	13.10
70-80	595.64	N.A.	6.30
80-90	453.50	N.A.	4.80
90-110	575.10	N.A.	6.10
90-120	753.01	N.A.	7.90
90-130	882.55	N.A.	9.30
90-150	1041.47	N.A.	11.00
90-180	1107.51	N.A.	11.70
110-180	532.41	N.A.	5.60
0-180	9494.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	300.06
10-20	916.38
20-30	1473.39
30-40	1699.39
40-50	1394.9
50-60	903.55
60-70	649.74
70-80	595.64
80-90	453.50
90-100	330.88
100-110	244.23
110-120	177.90
120-130	129.55
130-140	93.64
140-150	65.27
150-160	40.83
160-170	20.19
170-180	5.02

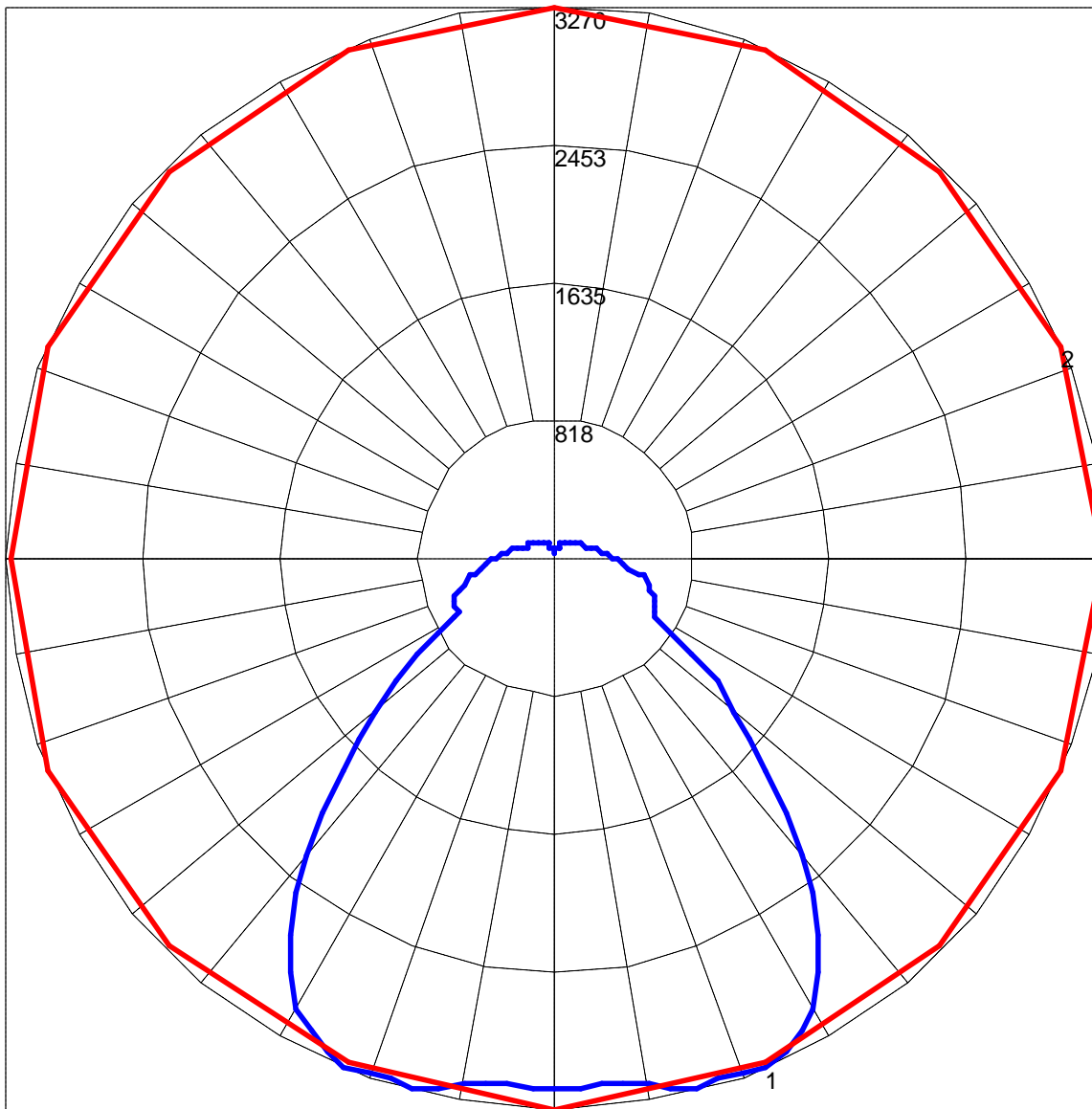
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	98	98	98	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	76	73
2	96	88	82	76	93	85	79	74	80	75	71	75	71	67	70	67	64	62
3	89	78	71	64	85	76	69	63	71	65	60	67	62	58	63	59	56	53
4	82	70	62	55	78	68	60	54	64	58	52	60	55	50	57	52	49	46
5	75	63	55	48	73	61	53	47	58	51	46	55	49	44	52	47	43	41
6	70	57	49	43	67	56	48	42	53	46	41	50	44	39	47	42	38	36
7	65	52	44	38	63	51	43	37	48	41	36	46	40	35	44	38	34	32
8	61	48	40	34	58	47	39	34	44	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	41	33	28	51	40	32	28	38	31	27	36	30	26	35	29	26	24

POLAR GRAPH



Maximum Candela = 3270.083 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)