



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUM-S-LED-8L-40-ACS16CPA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-7671  
[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-ACS16CPA  
[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	9001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	76.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.50
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	18780	18492	18516
55	14557	14438	14601
65	13492	13472	13512
75	16851	16851	16818
85	38456	38359	38456

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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	2098.757	2098.757	2098.757	2098.757	2098.757
2.5	2104.266	2089.944	2084.435	2087.740	2124.097
5.0	2152.741	2189.098	2134.012	2167.063	2176.979
7.5	2227.658	2228.759	2215.539	2227.658	2236.471
10.0	2264.014	2293.760	2278.336	2282.743	2332.320
12.5	2280.540	2329.015	2362.066	2381.897	2349.947
15.0	2355.456	2348.846	2365.371	2342.235	2308.082
17.5	2316.896	2417.152	2356.558	2406.135	2363.168
20.0	2396.219	2374.185	2365.371	2386.304	2472.237
22.5	2379.694	2397.321	2371.982	2403.931	2468.932
25.0	2440.288	2414.948	2471.135	2440.288	2430.372
27.5	2527.323	2500.882	2516.306	2511.899	2541.645
30.0	2441.389	2519.611	2463.423	2537.238	2574.696
32.5	2448.000	2440.288	2396.219	2439.186	2443.593
35.0	2298.167	2321.303	2314.693	2315.794	2321.303
37.5	2191.301	2184.691	2174.775	2178.081	2159.352
40.0	2076.723	2039.265	2066.808	2042.570	2045.875
42.5	1866.297	1838.754	1897.145	1904.857	1836.551
45.0	1724.176	1676.803	1697.735	1683.413	1699.938
47.5	1551.208	1507.139	1552.309	1574.344	1571.038
50.0	1372.731	1358.408	1337.476	1363.917	1402.477
52.5	1211.881	1216.288	1236.119	1188.745	1217.390
55.0	1084.083	1084.083	1075.269	1073.066	1087.388
57.5	978.318	969.505	961.793	957.386	952.979
60.0	879.165	871.453	871.453	864.842	862.639
62.5	793.231	803.147	796.536	795.435	800.943
65.0	740.349	738.146	739.247	739.247	741.451
67.5	678.653	683.060	679.755	681.958	684.162
70.0	631.280	633.483	634.585	632.382	630.178
72.5	597.127	597.127	598.229	596.025	594.923
75.0	566.279	567.381	566.279	565.177	565.177
77.5	534.329	534.329	534.329	534.329	533.228
80.0	501.278	500.176	500.176	497.973	499.075
82.5	467.125	466.023	466.023	466.023	466.023
85.0	435.175	434.074	434.074	435.175	435.175
87.5	406.531	406.531	406.531	406.531	407.633
90.0	381.192	381.192	381.192	382.293	382.293
92.5	359.157	359.157	358.056	358.056	359.157
95.0	339.327	339.327	339.327	339.327	338.225
97.5	322.801	321.699	321.699	321.699	321.699
100.0	306.275	306.275	306.275	306.275	306.275
102.5	291.953	291.953	291.953	293.055	293.055
105.0	279.834	279.834	280.936	280.936	280.936
107.5	269.919	269.919	268.817	269.919	269.919
110.0	260.004	258.902	258.902	258.902	258.902
112.5	250.088	250.088	250.088	250.088	250.088
115.0	240.173	241.274	240.173	240.173	241.274
117.5	232.461	232.461	232.461	232.461	231.359
120.0	224.749	223.647	224.749	224.749	224.749
122.5	217.037	217.037	217.037	217.037	217.037
125.0	209.325	210.427	209.325	209.325	209.325
127.5	202.715	202.715	202.715	202.715	202.715
130.0	197.206	197.206	197.206	196.104	196.104
132.5	190.596	191.698	190.596	190.596	190.596

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	183.986	185.087	185.087	185.087	185.087
<b>137.5</b>	178.477	178.477	178.477	178.477	178.477
<b>140.0</b>	172.968	172.968	172.968	172.968	172.968
<b>142.5</b>	167.460	167.460	167.460	167.460	167.460
<b>145.0</b>	161.951	161.951	161.951	161.951	160.850
<b>147.5</b>	155.341	156.443	155.341	156.443	156.443
<b>150.0</b>	149.833	150.934	149.833	150.934	149.833
<b>152.5</b>	144.324	144.324	143.222	144.324	144.324
<b>155.0</b>	136.612	136.612	136.612	137.714	136.612
<b>157.5</b>	128.900	128.900	130.002	130.002	130.002
<b>160.0</b>	122.290	122.290	123.392	123.392	122.290
<b>162.5</b>	115.680	114.578	116.781	115.680	115.680
<b>165.0</b>	107.968	106.866	109.069	106.866	106.866
<b>167.5</b>	100.256	100.256	100.256	99.154	98.052
<b>170.0</b>	92.544	92.544	91.442	89.239	89.239
<b>172.5</b>	83.730	83.730	82.628	80.425	79.323
<b>175.0</b>	73.815	73.815	73.815	73.815	73.815
<b>177.5</b>	65.001	65.001	66.103	67.204	67.204
<b>180.0</b>	59.492	59.492	59.492	59.492	59.492

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	878.68	N.A.	9.80
0-30	2015.41	N.A.	22.40
0-40	3455.05	N.A.	38.40
0-60	5745.17	N.A.	63.80
0-80	7078.86	N.A.	78.60
0-90	7555.52	N.A.	83.90
10-90	7345.18	N.A.	81.60
20-40	2576.37	N.A.	28.60
20-50	3889.96	N.A.	43.20
40-70	3025.7	N.A.	33.60
60-80	1333.7	N.A.	14.80
70-80	598.12	N.A.	6.60
80-90	476.66	N.A.	5.30
90-110	669.80	N.A.	7.40
90-120	909.43	N.A.	10.10
90-130	1098.07	N.A.	12.20
90-150	1343.32	N.A.	14.90
90-180	1445.51	N.A.	16.10
110-180	775.71	N.A.	8.60
0-180	9001.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	210.34
10-20	668.35
20-30	1136.72
30-40	1439.64
40-50	1313.59
50-60	976.53
60-70	735.58
70-80	598.12
80-90	476.66
90-100	372.03
100-110	297.77
110-120	239.63
120-130	188.64
130-140	143.37
140-150	101.89
150-160	63.69
160-170	30.92
170-180	7.57

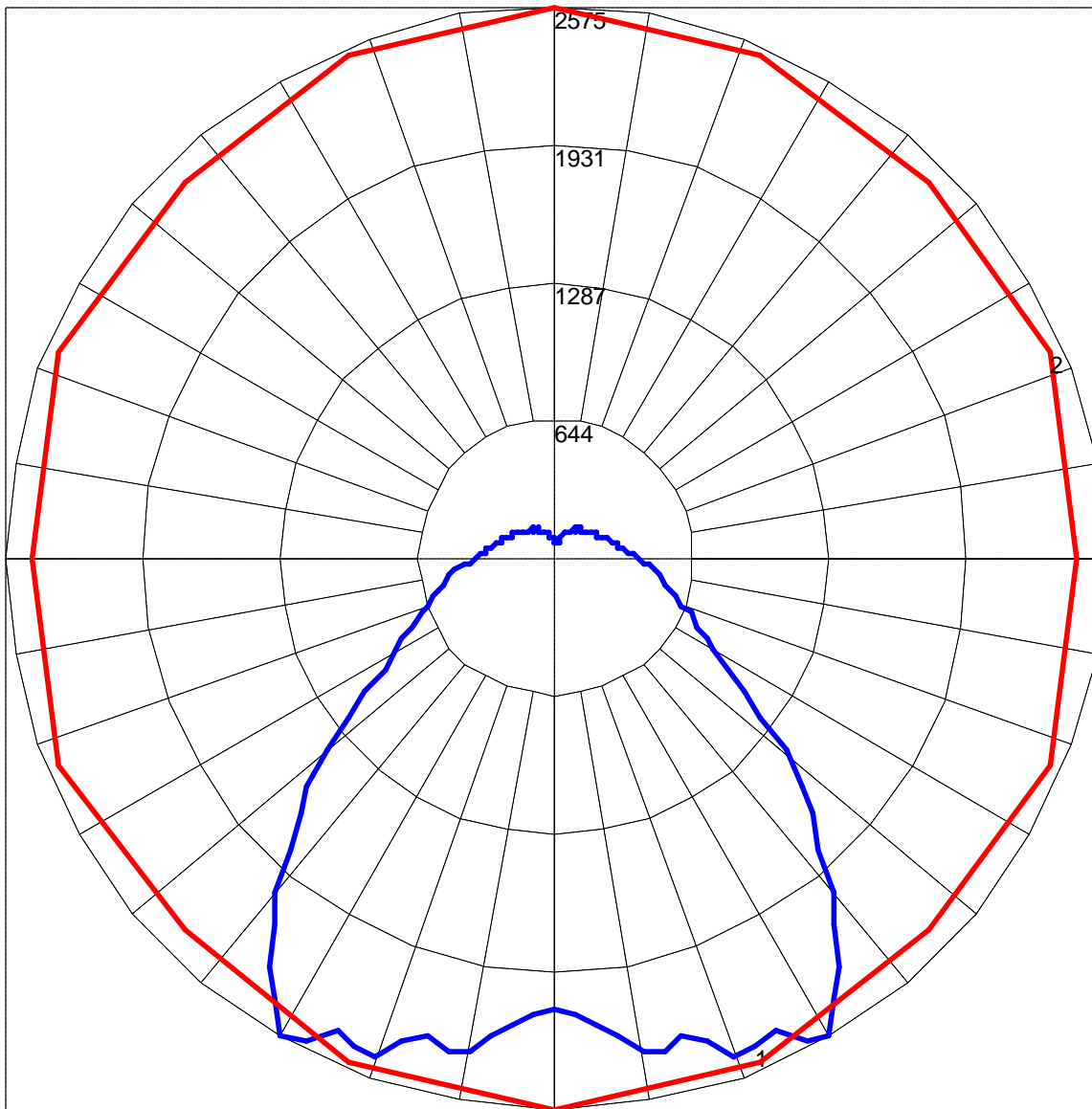
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	104	99	94	90	99	95	91	87	88	84	81	81	78	76	75	73	71	68
2	94	86	79	73	90	83	76	71	76	71	67	71	67	63	66	62	59	56
3	86	76	67	61	82	73	65	59	67	61	56	63	57	53	58	54	50	47
4	79	67	58	52	75	65	57	50	60	53	48	56	50	46	52	47	43	41
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	27	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	31	25	22	20

POLAR GRAPH



Maximum Candela = 2574.696 Located At Horizontal Angle = 90, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)