



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUM-S-LED-8L-40-ACS16FA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]LED-7673
 [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-ACS16FA
 [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	9142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	76.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.32
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	17232	17076	17280
55	11716	11820	11569
65	11705	11745	11725
75	16523	16556	16556
85	36898	37093	37190

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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	2922.837	2922.837	2922.837	2922.837	2922.837
2.5	2940.464	2931.650	2926.142	2928.345	2930.548
5.0	2933.854	2934.955	2929.447	2930.548	2932.752
7.5	2932.752	2933.854	2936.057	2931.650	2941.566
10.0	2938.260	2960.295	2962.498	2937.159	2939.362
12.5	2998.855	2975.719	3024.194	2997.753	2996.651
15.0	3031.906	3003.261	3017.584	3021.990	3012.075
17.5	2986.736	2984.532	3005.465	3014.278	3019.787
20.0	2979.024	2965.803	2981.227	2982.329	3019.787
22.5	2992.244	2955.888	2976.820	2942.667	2992.244
25.0	2954.786	2914.023	2951.481	2937.159	2953.684
27.5	2921.735	2871.056	2893.090	2884.277	2912.921
30.0	2806.055	2814.869	2829.191	2801.648	2817.072
32.5	2698.088	2655.121	2665.036	2654.019	2652.918
35.0	2443.593	2459.017	2465.627	2462.322	2465.627
37.5	2249.692	2309.184	2270.624	2273.929	2257.404
40.0	2061.299	2092.147	2100.961	2069.011	2055.791
42.5	1831.042	1832.144	1845.364	1825.533	1844.262
45.0	1582.056	1580.954	1567.733	1586.462	1586.462
47.5	1383.748	1387.053	1380.443	1394.765	1407.985
50.0	1235.017	1237.220	1225.101	1229.508	1255.949
52.5	1068.659	1066.455	1053.235	1052.133	1071.964
55.0	872.554	876.961	880.266	879.165	861.537
57.5	731.535	731.535	730.434	730.434	718.315
60.0	646.704	651.111	653.314	648.907	648.907
62.5	646.704	647.805	647.805	648.907	648.907
65.0	642.297	642.297	644.500	644.500	643.399
67.5	630.178	630.178	630.178	631.280	631.280
70.0	610.347	611.449	611.449	611.449	612.551
72.5	586.110	586.110	586.110	586.110	586.110
75.0	555.262	556.364	556.364	555.262	556.364
77.5	522.211	523.312	522.211	522.211	522.211
80.0	485.854	485.854	484.752	485.854	485.854
82.5	451.701	449.498	450.599	451.701	451.701
85.0	417.548	417.548	419.751	420.853	420.853
87.5	390.005	391.107	391.107	392.209	393.310
90.0	364.666	365.768	365.768	366.869	366.869
92.5	344.835	344.835	344.835	344.835	345.937
95.0	326.106	326.106	326.106	326.106	326.106
97.5	308.479	308.479	308.479	308.479	309.580
100.0	293.055	291.953	291.953	293.055	293.055
102.5	276.529	276.529	277.631	277.631	278.733
105.0	263.309	263.309	264.410	265.512	265.512
107.5	251.190	251.190	252.292	253.393	253.393
110.0	241.274	240.173	241.274	242.376	242.376
112.5	231.359	231.359	231.359	232.461	232.461
115.0	222.545	222.545	223.647	223.647	223.647
117.5	215.935	215.935	215.935	217.037	217.037
120.0	208.223	208.223	209.325	209.325	210.427
122.5	203.816	203.816	203.816	204.918	206.020
125.0	199.410	199.410	200.511	200.511	201.613
127.5	196.104	196.104	196.104	197.206	197.206
130.0	192.799	192.799	193.901	193.901	193.901
132.5	189.494	190.596	190.596	190.596	191.698

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CANDELA TABULATION - (Cont.)

135.0	187.291	187.291	187.291	188.392	188.392
137.5	182.884	183.986	183.986	185.087	185.087
140.0	179.579	180.680	180.680	180.680	180.680
142.5	174.070	175.172	175.172	175.172	175.172
145.0	169.663	169.663	170.765	170.765	170.765
147.5	164.155	164.155	164.155	165.256	164.155
150.0	157.545	157.545	157.545	158.646	158.646
152.5	149.833	150.934	150.934	150.934	150.934
155.0	143.222	143.222	144.324	144.324	144.324
157.5	134.409	134.409	135.510	135.510	134.409
160.0	127.798	126.697	128.900	128.900	127.798
162.5	120.086	118.985	121.188	120.086	120.086
165.0	112.374	111.273	112.374	111.273	111.273
167.5	104.662	104.662	104.662	102.459	102.459
170.0	95.849	95.849	95.849	93.645	92.544
172.5	87.035	87.035	85.933	83.730	83.730
175.0	78.221	78.221	78.221	77.120	78.221
177.5	68.306	68.306	70.509	70.509	70.509
180.0	62.797	62.797	62.797	62.797	62.797

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1129.8	N.A.	12.40
0-30	2481.02	N.A.	27.10
0-40	4018.31	N.A.	44.00
0-60	6064.2	N.A.	66.30
0-80	7282.34	N.A.	79.70
0-90	7742.49	N.A.	84.70
10-90	7462.19	N.A.	81.60
20-40	2888.5	N.A.	31.60
20-50	4130.44	N.A.	45.20
40-70	2679.22	N.A.	29.30
60-80	1218.14	N.A.	13.30
70-80	584.82	N.A.	6.40
80-90	460.15	N.A.	5.00
90-110	637.95	N.A.	7.00
90-120	860.64	N.A.	9.40
90-130	1040.74	N.A.	11.40
90-150	1292.92	N.A.	14.10
90-180	1399.68	N.A.	15.30
110-180	761.73	N.A.	8.30
0-180	9142.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.30
10-20	849.51
20-30	1351.22
30-40	1537.28
40-50	1241.94
50-60	803.96
60-70	633.32
70-80	584.82
80-90	460.15
90-100	357.14
100-110	280.81
110-120	222.69
120-130	180.10
130-140	145.26
140-150	106.92
150-160	66.68
160-170	32.16
170-180	7.92

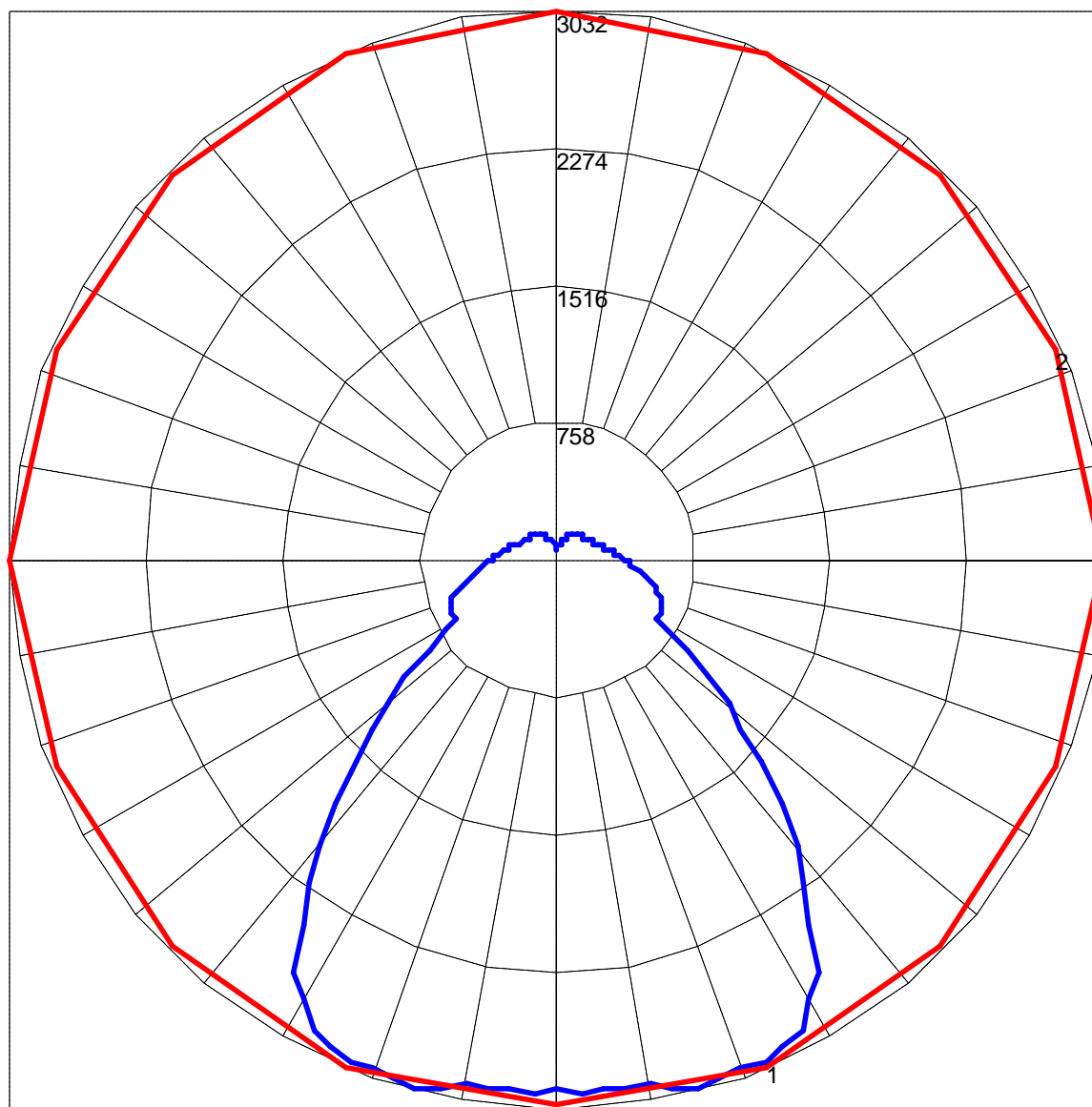
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	95	95	95	88	88	88	85
1	105	99	95	91	100	96	92	88	89	85	82	82	80	77	76	74	72	69
2	95	87	81	75	91	84	78	73	78	73	69	73	69	65	67	64	61	58
3	88	77	69	63	84	75	67	62	69	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	55	50	46	44
5	74	62	54	47	71	60	52	46	56	50	45	53	47	43	50	45	41	38
6	69	56	48	42	66	55	47	41	51	45	39	48	42	38	45	40	36	34
7	64	51	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	58	46	38	33	43	36	32	41	35	31	39	33	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	29	25	33	28	25	23

POLAR GRAPH



Maximum Candela = 3031.906 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)