



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUM-S-LED-14L-50-ACSF16CPA.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-14L-50-ACSF16CPA  
[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	14679
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	107.6
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	30627	30157	30196
55	23740	23547	23812
65	22003	21971	22036
75	27481	27481	27428
85	62715	62556	62715

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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	3422.694	3422.694	3422.694	3422.694	3422.694
2.5	3431.678	3408.321	3399.337	3404.728	3464.018
5.0	3510.732	3570.023	3480.189	3534.089	3550.259
7.5	3632.907	3634.704	3613.144	3632.907	3647.281
10.0	3692.198	3740.709	3715.555	3722.742	3803.593
12.5	3719.148	3798.203	3852.103	3884.444	3832.340
15.0	3841.323	3830.543	3857.493	3819.763	3764.066
17.5	3778.439	3941.938	3843.120	3923.971	3853.900
20.0	3907.801	3871.867	3857.493	3891.631	4031.772
22.5	3880.850	3909.597	3868.274	3920.378	4026.382
25.0	3979.668	3938.344	4029.976	3979.668	3963.498
27.5	4121.607	4078.486	4103.640	4096.453	4144.964
30.0	3981.465	4109.030	4017.399	4137.777	4198.865
32.5	3992.245	3979.668	3907.801	3977.872	3985.058
35.0	3747.895	3785.626	3774.846	3776.642	3785.626
37.5	3573.616	3562.836	3546.666	3552.056	3521.512
40.0	3386.761	3325.673	3370.590	3331.063	3336.453
42.5	3043.593	2998.676	3093.900	3106.477	2995.082
45.0	2811.820	2734.562	2768.699	2745.342	2772.293
47.5	2529.740	2457.872	2531.536	2567.470	2562.080
50.0	2238.676	2215.319	2181.182	2224.302	2287.186
52.5	1976.359	1983.546	2015.886	1938.628	1985.342
55.0	1767.943	1767.943	1753.569	1749.976	1773.333
57.5	1595.461	1581.087	1568.510	1561.324	1554.137
60.0	1433.759	1421.182	1421.182	1410.402	1406.808
62.5	1293.617	1309.787	1299.007	1297.210	1306.194
65.0	1207.376	1203.782	1205.579	1205.579	1209.172
67.5	1106.761	1113.948	1108.558	1112.151	1115.744
70.0	1029.503	1033.097	1034.893	1031.300	1027.707
72.5	973.806	973.806	975.603	972.009	970.213
75.0	923.499	925.295	923.499	921.702	921.702
77.5	871.395	871.395	871.395	871.395	869.598
80.0	817.494	815.697	815.697	812.104	813.901
82.5	761.797	760.000	760.000	760.000	760.000
85.0	709.693	707.896	707.896	709.693	709.693
87.5	662.979	662.979	662.979	662.979	664.775
90.0	621.655	621.655	621.655	623.451	623.451
92.5	585.721	585.721	583.924	583.924	585.721
95.0	553.381	553.381	553.381	553.381	551.584
97.5	526.430	524.633	524.633	524.633	524.633
100.0	499.480	499.480	499.480	499.480	499.480
102.5	476.123	476.123	476.123	477.920	477.920
105.0	456.359	456.359	458.156	458.156	458.156
107.5	440.189	440.189	438.392	440.189	440.189
110.0	424.019	422.222	422.222	422.222	422.222
112.5	407.849	407.849	407.849	407.849	407.849
115.0	391.678	393.475	391.678	391.678	393.475
117.5	379.102	379.102	379.102	379.102	377.305
120.0	366.525	364.728	366.525	366.525	366.525
122.5	353.948	353.948	353.948	353.948	353.948
125.0	341.371	343.168	341.371	341.371	341.371
127.5	330.591	330.591	330.591	330.591	330.591
130.0	321.608	321.608	321.608	319.811	319.811
132.5	310.827	312.624	310.827	310.827	310.827

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	300.047	301.844	301.844	301.844	301.844
<b>137.5</b>	291.064	291.064	291.064	291.064	291.064
<b>140.0</b>	282.080	282.080	282.080	282.080	282.080
<b>142.5</b>	273.097	273.097	273.097	273.097	273.097
<b>145.0</b>	264.113	264.113	264.113	264.113	262.317
<b>147.5</b>	253.333	255.130	253.333	255.130	255.130
<b>150.0</b>	244.350	246.147	244.350	246.147	244.350
<b>152.5</b>	235.366	235.366	233.570	235.366	235.366
<b>155.0</b>	222.790	222.790	222.790	224.586	222.790
<b>157.5</b>	210.213	210.213	212.009	212.009	212.009
<b>160.0</b>	199.433	199.433	201.229	201.229	199.433
<b>162.5</b>	188.652	186.856	190.449	188.652	188.652
<b>165.0</b>	176.076	174.279	177.872	174.279	174.279
<b>167.5</b>	163.499	163.499	163.499	161.702	159.905
<b>170.0</b>	150.922	150.922	149.125	145.532	145.532
<b>172.5</b>	136.548	136.548	134.752	131.158	129.362
<b>175.0</b>	120.378	120.378	120.378	120.378	120.378
<b>177.5</b>	106.005	106.005	107.801	109.598	109.598
<b>180.0</b>	97.021	97.021	97.021	97.021	97.021

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1432.97	N.A.	9.80
0-30	3286.76	N.A.	22.40
0-40	5634.57	N.A.	38.40
0-60	9369.33	N.A.	63.80
0-80	11544.35	N.A.	78.60
0-90	12321.69	N.A.	83.90
10-90	11978.67	N.A.	81.60
20-40	4201.59	N.A.	28.60
20-50	6343.81	N.A.	43.20
40-70	4934.36	N.A.	33.60
60-80	2175.02	N.A.	14.80
70-80	975.42	N.A.	6.60
80-90	777.34	N.A.	5.30
90-110	1092.32	N.A.	7.40
90-120	1483.11	N.A.	10.10
90-130	1790.75	N.A.	12.20
90-150	2190.72	N.A.	14.90
90-180	2357.36	N.A.	16.10
110-180	1265.04	N.A.	8.60
0-180	14679.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	343.02
10-20	1089.95
20-30	1853.79
30-40	2347.8
40-50	2142.22
50-60	1592.54
60-70	1199.6
70-80	975.42
80-90	777.34
90-100	606.72
100-110	485.61
110-120	390.79
120-130	307.64
130-140	233.81
140-150	166.16
150-160	103.87
160-170	50.43
170-180	12.34

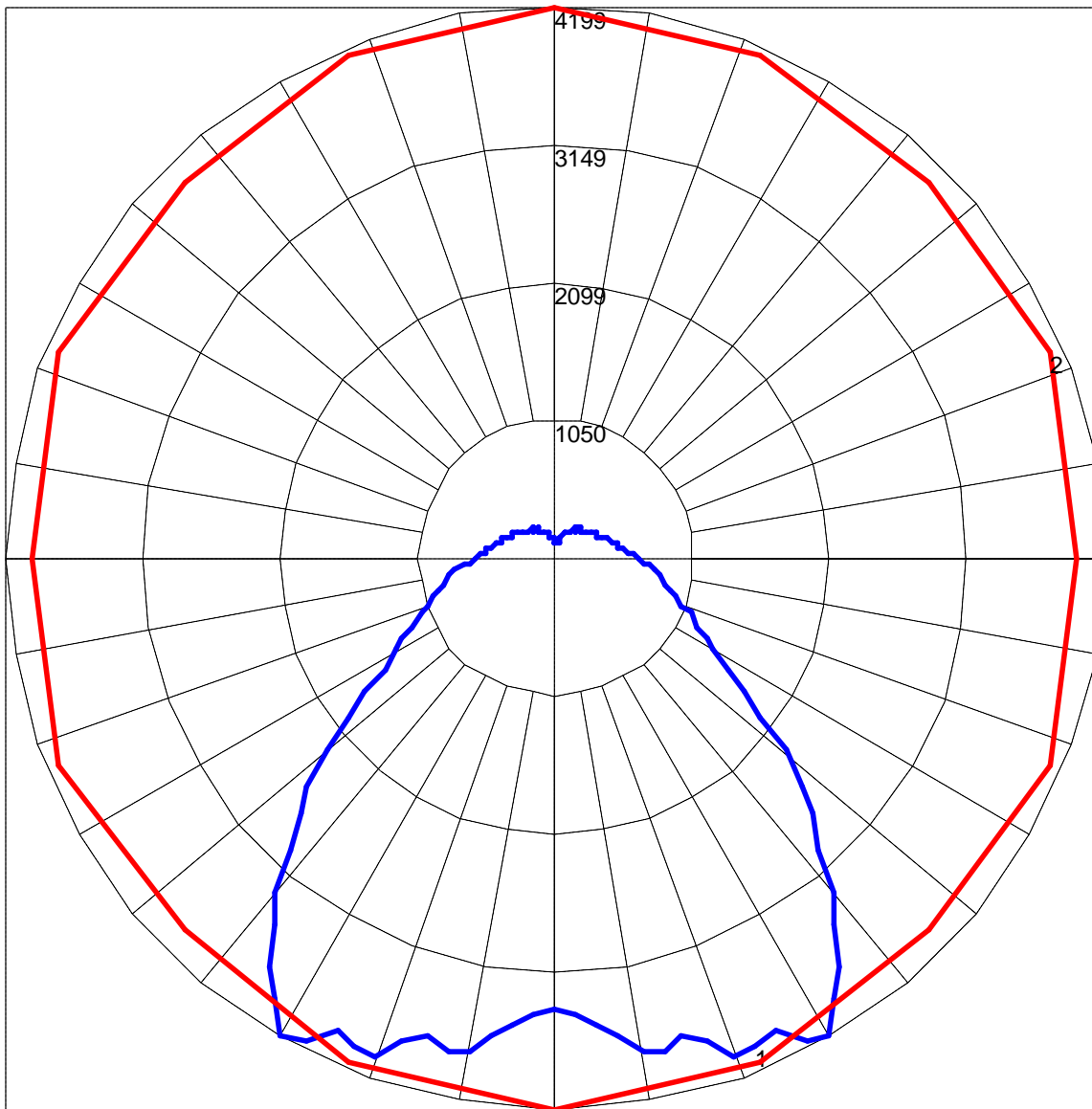
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4198.865 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.)