



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-8L-30-ACSF16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7915  
[TESTLAB]LSI INDUSTRIES, INC  
[TESTDATE]07/12/16  
[ISSUE DATE]01/16/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-8L-30-ACSF16  
[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	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	74
Ballast Factor	1.00
CIE Type	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	18777	18798	18755
55	14142	13809	13876
65	13436	13418	13490
75	17386	17415	17356
85	31346	31346	31434

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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	2946.024	2946.024	2946.024	2946.024	2946.024
2.5	2950.992	2951.986	2957.947	2948.011	2950.992
5.0	2951.986	2951.986	2961.922	2951.986	2953.973
7.5	2946.024	2954.966	2960.928	2949.998	2954.966
10.0	2970.864	2983.781	3011.602	2973.845	2961.922
12.5	3047.371	3028.493	3050.352	3035.448	3002.659
15.0	3075.192	3061.282	3055.320	3051.346	3050.352
17.5	3082.147	3084.134	3102.019	3049.358	3083.141
20.0	3059.294	3060.288	3061.282	3085.128	3076.186
22.5	3033.461	3066.250	3040.416	3037.435	3032.467
25.0	3008.621	3061.282	3015.576	3035.448	3031.474
27.5	2992.723	3017.563	3001.666	3013.589	3012.595
30.0	2920.190	2929.133	2911.248	2928.139	2931.120
32.5	2783.074	2785.061	2778.106	2775.125	2765.189
35.0	2592.302	2609.194	2618.136	2587.334	2568.456
37.5	2409.480	2423.390	2430.346	2405.506	2387.621
40.0	2209.766	2206.786	2218.709	2215.728	2189.894
42.5	1964.347	1976.270	1986.206	1986.206	1980.245
45.0	1723.896	1739.794	1725.883	1720.915	1721.909
47.5	1541.074	1530.144	1520.208	1525.176	1534.118
50.0	1382.098	1377.130	1367.194	1366.200	1384.085
52.5	1225.109	1225.109	1215.173	1214.179	1220.141
55.0	1053.216	1041.293	1028.376	1038.312	1033.344
57.5	885.298	878.342	883.310	866.419	863.438
60.0	776.002	768.053	761.098	758.117	750.168
62.5	746.194	745.200	746.194	749.174	750.168
65.0	737.251	736.258	736.258	739.238	740.232
67.5	714.398	713.405	713.405	716.386	718.373
70.0	680.616	680.616	680.616	681.610	681.610
72.5	636.898	636.898	635.904	635.904	637.891
75.0	584.237	585.230	585.230	584.237	583.243
77.5	525.614	526.608	525.614	523.627	523.627
80.0	464.011	463.018	462.024	461.030	460.037
82.5	401.414	401.414	402.408	403.402	403.402
85.0	354.715	354.715	354.715	354.715	355.709
87.5	312.984	313.978	313.978	313.978	312.984
90.0	281.189	280.195	280.195	279.202	279.202
92.5	255.355	254.362	254.362	254.362	253.368
95.0	233.496	233.496	233.496	233.496	232.502
97.5	214.618	213.624	213.624	213.624	213.624
100.0	197.726	196.733	197.726	197.726	197.726
102.5	181.829	181.829	182.822	182.822	181.829
105.0	168.912	168.912	168.912	169.906	169.906
107.5	156.989	156.989	156.989	156.989	156.989
110.0	146.059	146.059	146.059	146.059	146.059
112.5	136.123	136.123	136.123	136.123	136.123
115.0	127.181	127.181	127.181	127.181	127.181
117.5	119.232	119.232	119.232	120.226	120.226
120.0	112.277	112.277	113.270	113.270	113.270
122.5	106.315	106.315	106.315	107.309	107.309
125.0	101.347	101.347	101.347	101.347	101.347
127.5	96.379	96.379	96.379	96.379	96.379
130.0	92.405	92.405	92.405	92.405	92.405
132.5	88.430	88.430	88.430	88.430	88.430

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	85.450	85.450	85.450	85.450	85.450
<b>137.5</b>	81.475	81.475	82.469	82.469	82.469
<b>140.0</b>	79.488	79.488	79.488	79.488	79.488
<b>142.5</b>	76.507	76.507	76.507	76.507	76.507
<b>145.0</b>	74.520	73.526	74.520	74.520	74.520
<b>147.5</b>	72.533	71.539	72.533	72.533	72.533
<b>150.0</b>	69.552	69.552	69.552	69.552	69.552
<b>152.5</b>	67.565	66.571	67.565	67.565	66.571
<b>155.0</b>	64.584	63.590	64.584	64.584	64.584
<b>157.5</b>	61.603	60.610	61.603	61.603	61.603
<b>160.0</b>	58.622	58.622	59.616	58.622	58.622
<b>162.5</b>	54.648	55.642	55.642	55.642	55.642
<b>165.0</b>	50.674	51.667	51.667	51.667	52.661
<b>167.5</b>	45.706	47.693	47.693	47.693	47.693
<b>170.0</b>	42.725	43.718	43.718	42.725	42.725
<b>172.5</b>	37.757	38.750	38.750	38.750	37.757
<b>175.0</b>	33.782	33.782	33.782	33.782	33.782
<b>177.5</b>	28.814	28.814	29.808	29.808	29.808
<b>180.0</b>	25.834	25.834	25.834	25.834	25.834

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1148.28	N.A.	12.80
0-30	2544.84	N.A.	28.30
0-40	4162.8	N.A.	46.30
0-60	6450.98	N.A.	71.70
0-80	7787.64	N.A.	86.60
0-90	8180.72	N.A.	90.90
10-90	7898.15	N.A.	87.80
20-40	3014.52	N.A.	33.50
20-50	4366.03	N.A.	48.50
40-70	3012.7	N.A.	33.50
60-80	1336.66	N.A.	14.90
70-80	612.15	N.A.	6.80
80-90	393.08	N.A.	4.40
90-110	436.70	N.A.	4.90
90-120	564.06	N.A.	6.30
90-130	655.53	N.A.	7.30
90-150	768.72	N.A.	8.50
90-180	816.94	N.A.	9.10
110-180	380.24	N.A.	4.20
0-180	8997.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	282.58
10-20	865.71
20-30	1396.56
30-40	1617.96
40-50	1351.51
50-60	936.67
60-70	724.51
70-80	612.15
80-90	393.08
90-100	256.56
100-110	180.14
110-120	127.36
120-130	91.48
130-140	66.34
140-150	46.85
150-160	29.90
160-170	14.80
170-180	3.51

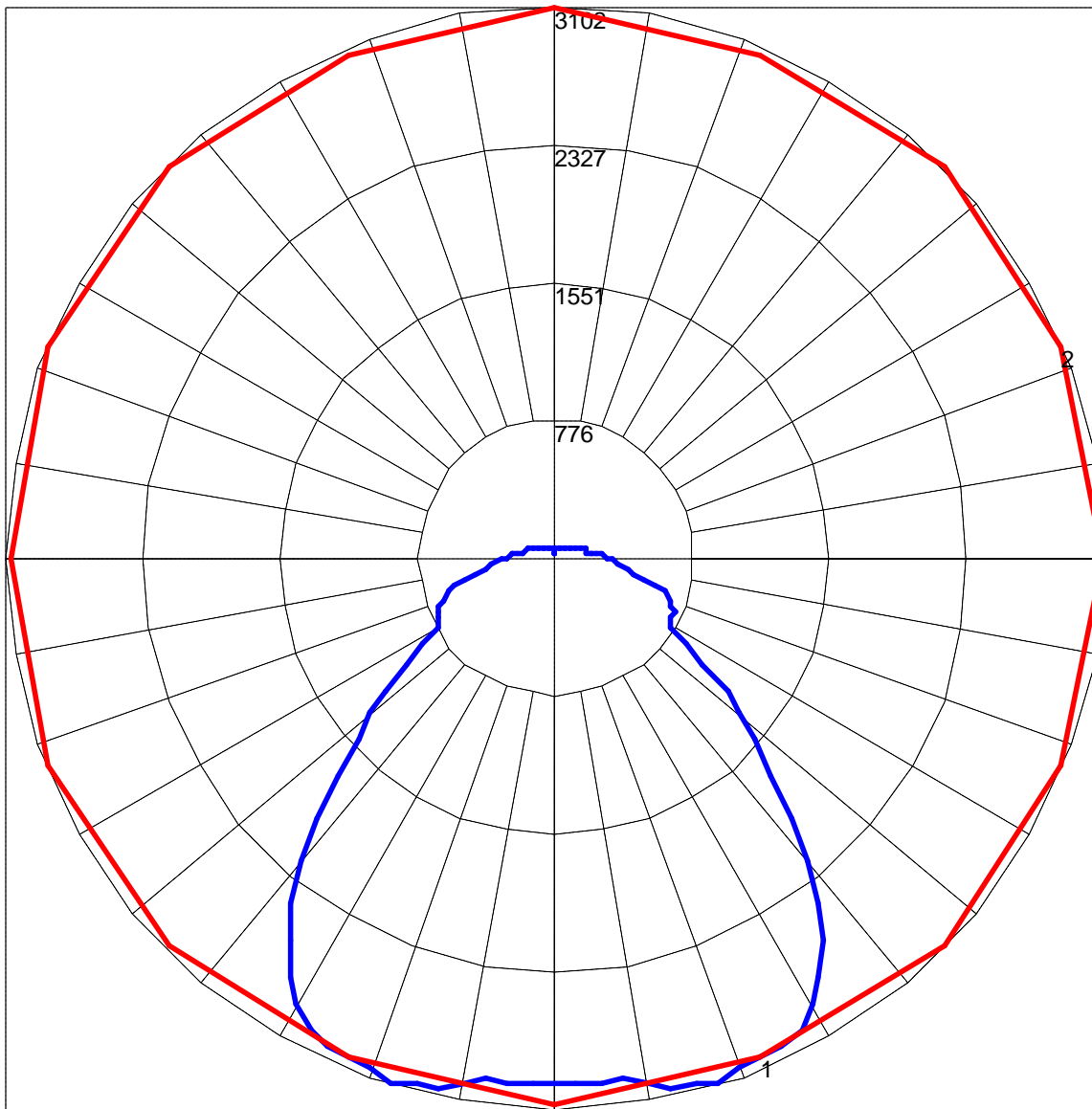
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	101	97	93	102	98	94	90	92	89	86	87	84	82	82	79	78	75
2	97	89	82	76	93	86	80	75	81	76	71	76	72	68	72	69	66	63
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47
5	75	63	54	48	73	61	53	47	58	51	46	55	49	45	53	47	43	41
6	70	57	48	42	67	56	48	42	53	46	41	50	44	40	48	43	39	36
7	65	52	43	38	63	51	43	37	48	41	36	46	40	35	44	39	34	32
8	61	48	39	34	59	46	39	33	44	37	33	42	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	39	33	29	38	32	28	26
10	53	40	33	28	51	40	32	27	38	31	27	36	30	26	35	30	26	24

POLAR GRAPH



Maximum Candela = 3102.019 Located At Horizontal Angle = 45, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)