



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-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-14L-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	14157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	108
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	29545	29579	29511
55	22252	21728	21833
65	21141	21112	21226
75	27355	27402	27309
85	49321	49321	49460

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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	4635.451	4635.451	4635.451	4635.451	4635.451
2.5	4643.268	4644.832	4654.212	4638.578	4643.268
5.0	4644.832	4644.832	4660.466	4644.832	4647.959
7.5	4635.451	4649.522	4658.902	4641.705	4649.522
10.0	4674.536	4694.860	4738.635	4679.226	4660.466
12.5	4794.917	4765.213	4799.607	4776.157	4724.565
15.0	4838.692	4816.805	4807.424	4801.171	4799.607
17.5	4849.636	4852.763	4880.904	4798.044	4851.199
20.0	4813.678	4815.241	4816.805	4854.326	4840.255
22.5	4773.030	4824.622	4783.973	4779.283	4771.466
25.0	4733.945	4816.805	4744.889	4776.157	4769.903
27.5	4708.931	4748.015	4723.001	4741.762	4740.199
30.0	4594.803	4608.874	4580.733	4607.310	4612.001
32.5	4379.055	4382.182	4371.238	4366.548	4350.914
35.0	4078.885	4105.462	4119.533	4071.068	4041.363
37.5	3791.221	3813.108	3824.052	3784.967	3756.826
40.0	3476.979	3472.289	3491.050	3486.360	3445.712
42.5	3090.822	3109.583	3125.217	3125.217	3115.836
45.0	2712.482	2737.496	2715.608	2707.792	2709.355
47.5	2424.818	2407.621	2391.987	2399.804	2413.874
50.0	2174.676	2166.859	2151.225	2149.661	2177.802
52.5	1927.660	1927.660	1912.026	1910.463	1919.843
55.0	1657.193	1638.433	1618.109	1633.743	1625.926
57.5	1392.981	1382.037	1389.854	1363.276	1358.586
60.0	1221.008	1208.500	1197.557	1192.867	1180.359
62.5	1174.106	1172.543	1174.106	1178.796	1180.359
65.0	1160.035	1158.472	1158.472	1163.162	1164.726
67.5	1124.077	1122.514	1122.514	1127.204	1130.331
70.0	1070.922	1070.922	1070.922	1072.486	1072.486
72.5	1002.133	1002.133	1000.570	1000.570	1003.696
75.0	919.273	920.837	920.837	919.273	917.710
77.5	827.033	828.597	827.033	823.907	823.907
80.0	730.103	728.540	726.976	725.413	723.850
82.5	631.610	631.610	633.173	634.736	634.736
85.0	558.130	558.130	558.130	558.130	559.694
87.5	492.468	494.031	494.031	494.031	492.468
90.0	442.439	440.876	440.876	439.313	439.313
92.5	401.791	400.228	400.228	400.228	398.664
95.0	367.397	367.397	367.397	367.397	365.833
97.5	337.692	336.129	336.129	336.129	336.129
100.0	311.115	309.551	311.115	311.115	311.115
102.5	286.100	286.100	287.664	287.664	286.100
105.0	265.776	265.776	265.776	267.340	267.340
107.5	247.016	247.016	247.016	247.016	247.016
110.0	229.818	229.818	229.818	229.818	229.818
112.5	214.184	214.184	214.184	214.184	214.184
115.0	200.114	200.114	200.114	200.114	200.114
117.5	187.607	187.607	187.607	189.170	189.170
120.0	176.663	176.663	178.226	178.226	178.226
122.5	167.283	167.283	167.283	168.846	168.846
125.0	159.466	159.466	159.466	159.466	159.466
127.5	151.649	151.649	151.649	151.649	151.649
130.0	145.395	145.395	145.395	145.395	145.395
132.5	139.142	139.142	139.142	139.142	139.142

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	134.452	134.452	134.452	134.452	134.452
<b>137.5</b>	128.198	128.198	129.761	129.761	129.761
<b>140.0</b>	125.071	125.071	125.071	125.071	125.071
<b>142.5</b>	120.381	120.381	120.381	120.381	120.381
<b>145.0</b>	117.254	115.691	117.254	117.254	117.254
<b>147.5</b>	114.127	112.564	114.127	114.127	114.127
<b>150.0</b>	109.437	109.437	109.437	109.437	109.437
<b>152.5</b>	106.311	104.747	106.311	106.311	104.747
<b>155.0</b>	101.620	100.057	101.620	101.620	101.620
<b>157.5</b>	96.930	95.367	96.930	96.930	96.930
<b>160.0</b>	92.240	92.240	93.803	92.240	92.240
<b>162.5</b>	85.986	87.550	87.550	87.550	87.550
<b>165.0</b>	79.733	81.296	81.296	81.296	82.860
<b>167.5</b>	71.916	75.043	75.043	75.043	75.043
<b>170.0</b>	67.226	68.789	68.789	67.226	67.226
<b>172.5</b>	59.409	60.972	60.972	60.972	59.409
<b>175.0</b>	53.155	53.155	53.155	53.155	53.155
<b>177.5</b>	45.338	45.338	46.902	46.902	46.902
<b>180.0</b>	40.648	40.648	40.648	40.648	40.648

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1806.77	N.A.	12.80
0-30	4004.2	N.A.	28.30
0-40	6550.00	N.A.	46.30
0-60	10150.37	N.A.	71.70
0-80	12253.55	N.A.	86.60
0-90	12872.04	N.A.	90.90
10-90	12427.42	N.A.	87.80
20-40	4743.23	N.A.	33.50
20-50	6869.78	N.A.	48.50
40-70	4740.36	N.A.	33.50
60-80	2103.18	N.A.	14.90
70-80	963.19	N.A.	6.80
80-90	618.49	N.A.	4.40
90-110	687.13	N.A.	4.90
90-120	887.52	N.A.	6.30
90-130	1031.46	N.A.	7.30
90-150	1209.55	N.A.	8.50
90-180	1285.42	N.A.	9.10
110-180	598.29	N.A.	4.20
0-180	14157.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	444.62
10-20	1362.15
20-30	2197.43
30-40	2545.8
40-50	2126.55
50-60	1473.81
60-70	1139.99
70-80	963.19
80-90	618.49
90-100	403.68
100-110	283.44
110-120	200.40
120-130	143.93
130-140	104.38
140-150	73.72
150-160	47.05
160-170	23.29
170-180	5.53

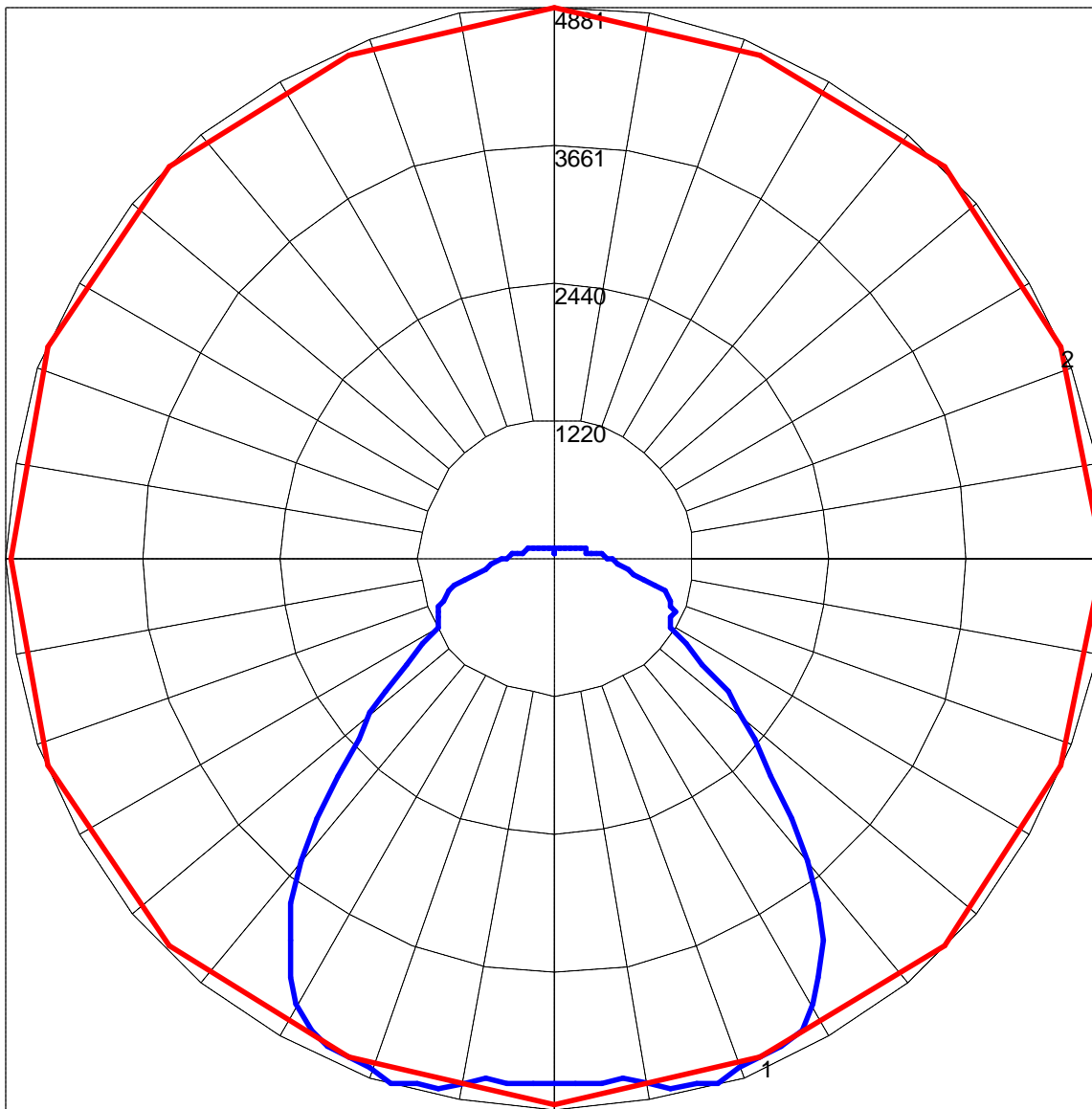
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	35	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 = 4880.904 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.)