



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-40-ACS16FA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7863  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]06/09/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]AUM-S-LED-14L-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	14089
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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)	1.36
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	30638	30731	30680
55	27227	27392	26972
65	28760	29036	28708
75	25343	24920	24807
85	10308	10308	10476

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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	4576.882	4576.882	4576.882	4576.882	4576.882
2.5	4594.901	4592.056	4588.262	4584.469	4589.211
5.0	4714.397	4714.397	4706.810	4733.365	4740.952
7.5	4838.635	4854.757	4895.538	4841.480	4855.706
10.0	4965.718	5008.395	5045.382	5004.601	4959.079
12.5	5087.110	5143.065	5104.181	5084.265	5038.743
15.0	5129.787	5169.619	5182.897	5157.290	5114.613
17.5	5164.877	5193.329	5236.954	5207.555	5157.290
20.0	5180.052	5188.587	5209.451	5182.897	5122.200
22.5	5107.975	5136.426	5134.529	5152.549	5149.703
25.0	5015.033	5039.691	5054.865	5068.143	5044.433
27.5	4847.170	4850.015	4870.880	4851.912	4821.564
30.0	4587.314	4546.534	4572.140	4548.430	4525.669
32.5	4293.316	4244.949	4195.633	4221.239	4250.639
35.0	4025.873	3960.435	3888.358	3955.693	4027.770
37.5	3801.107	3743.256	3692.043	3749.894	3784.985
40.0	3552.631	3510.903	3474.864	3520.387	3535.561
42.5	3198.886	3222.595	3172.331	3173.279	3212.163
45.0	2812.895	2845.140	2821.430	2789.186	2816.689
47.5	2520.794	2534.071	2570.110	2516.052	2514.155
50.0	2348.189	2374.744	2387.072	2365.260	2338.705
52.5	2178.429	2212.571	2223.003	2207.829	2165.152
55.0	2027.636	2052.294	2039.965	2043.759	2008.669
57.5	1924.263	1902.450	1903.399	1906.244	1911.934
60.0	1808.561	1799.077	1784.851	1802.870	1806.664
62.5	1714.671	1745.019	1749.761	1742.174	1720.361
65.0	1578.104	1587.588	1593.278	1588.536	1575.259
67.5	1414.035	1423.518	1421.622	1421.622	1403.602
70.0	1224.359	1229.100	1230.049	1220.565	1223.410
72.5	1035.631	1029.941	1023.302	1022.354	1025.199
75.0	851.645	840.265	837.420	833.626	833.626
77.5	634.466	640.156	630.673	633.518	635.415
80.0	390.733	386.939	387.887	389.784	395.474
82.5	190.624	192.521	191.573	198.211	195.366
85.0	116.651	117.599	116.651	118.547	118.547
87.5	75.870	76.819	76.819	76.819	75.870
90.0	55.954	56.903	55.954	55.006	55.006
92.5	54.058	54.058	54.058	54.058	53.109
95.0	53.109	53.109	53.109	52.161	53.109
97.5	53.109	53.109	52.161	52.161	53.109
100.0	54.058	54.058	54.058	54.058	54.058
102.5	57.851	58.800	58.800	57.851	57.851
105.0	62.593	62.593	62.593	62.593	62.593
107.5	66.387	67.335	67.335	66.387	66.387
110.0	68.283	68.283	68.283	67.335	67.335
112.5	66.387	65.438	65.438	65.438	65.438
115.0	65.438	64.490	64.490	64.490	64.490
117.5	67.335	66.387	65.438	66.387	66.387
120.0	74.922	73.025	71.128	71.128	71.128
122.5	94.838	92.941	91.044	91.044	91.993
125.0	121.393	119.496	118.547	118.547	118.547
127.5	148.896	148.896	147.947	147.947	146.051
130.0	175.450	174.502	173.554	173.554	173.554
132.5	203.902	201.057	199.160	199.160	200.108

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	231.405	229.508	226.663	225.714	226.663
<b>137.5</b>	251.321	250.372	250.372	247.527	246.579
<b>140.0</b>	257.011	257.959	257.959	256.063	254.166
<b>142.5</b>	254.166	253.217	252.269	251.321	251.321
<b>145.0</b>	245.630	241.837	239.940	239.940	243.734
<b>147.5</b>	234.250	229.508	226.663	227.611	231.405
<b>150.0</b>	221.921	218.127	215.282	217.179	219.076
<b>152.5</b>	203.902	202.953	200.108	201.057	202.953
<b>155.0</b>	180.192	181.141	181.141	180.192	182.089
<b>157.5</b>	152.689	153.638	153.638	153.638	153.638
<b>160.0</b>	130.876	131.825	130.876	129.928	128.980
<b>162.5</b>	110.960	112.857	111.909	110.012	109.064
<b>165.0</b>	96.735	97.683	95.786	94.838	93.890
<b>167.5</b>	87.251	87.251	86.303	85.354	84.406
<b>170.0</b>	82.509	82.509	80.612	78.716	76.819
<b>172.5</b>	78.716	79.664	76.819	74.922	73.025
<b>175.0</b>	73.974	73.974	73.974	73.025	73.025
<b>177.5</b>	68.283	67.335	70.180	72.077	73.025
<b>180.0</b>	64.490	64.490	64.490	64.490	64.490

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1918.57	N.A.	13.60
0-30	4214.01	N.A.	29.90
0-40	6709.64	N.A.	47.60
0-60	10762.15	N.A.	76.40
0-80	13182.51	N.A.	93.60
0-90	13348.67	N.A.	94.70
10-90	12889.15	N.A.	91.50
20-40	4791.07	N.A.	34.00
20-50	7001.96	N.A.	49.70
40-70	5601.26	N.A.	39.80
60-80	2420.37	N.A.	17.20
70-80	871.61	N.A.	6.20
80-90	166.15	N.A.	1.20
90-110	124.22	N.A.	0.90
90-120	190.31	N.A.	1.40
90-130	297.60	N.A.	2.10
90-150	620.88	N.A.	4.40
90-180	740.53	N.A.	5.30
110-180	616.31	N.A.	4.40
0-180	14089.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	459.52
10-20	1459.05
20-30	2295.44
30-40	2495.63
40-50	2210.89
50-60	1841.62
60-70	1548.76
70-80	871.61
80-90	166.15
90-100	58.48
100-110	65.74
110-120	66.10
120-130	107.28
130-140	171.93
140-150	151.36
150-160	83.45
160-170	28.98
170-180	7.21

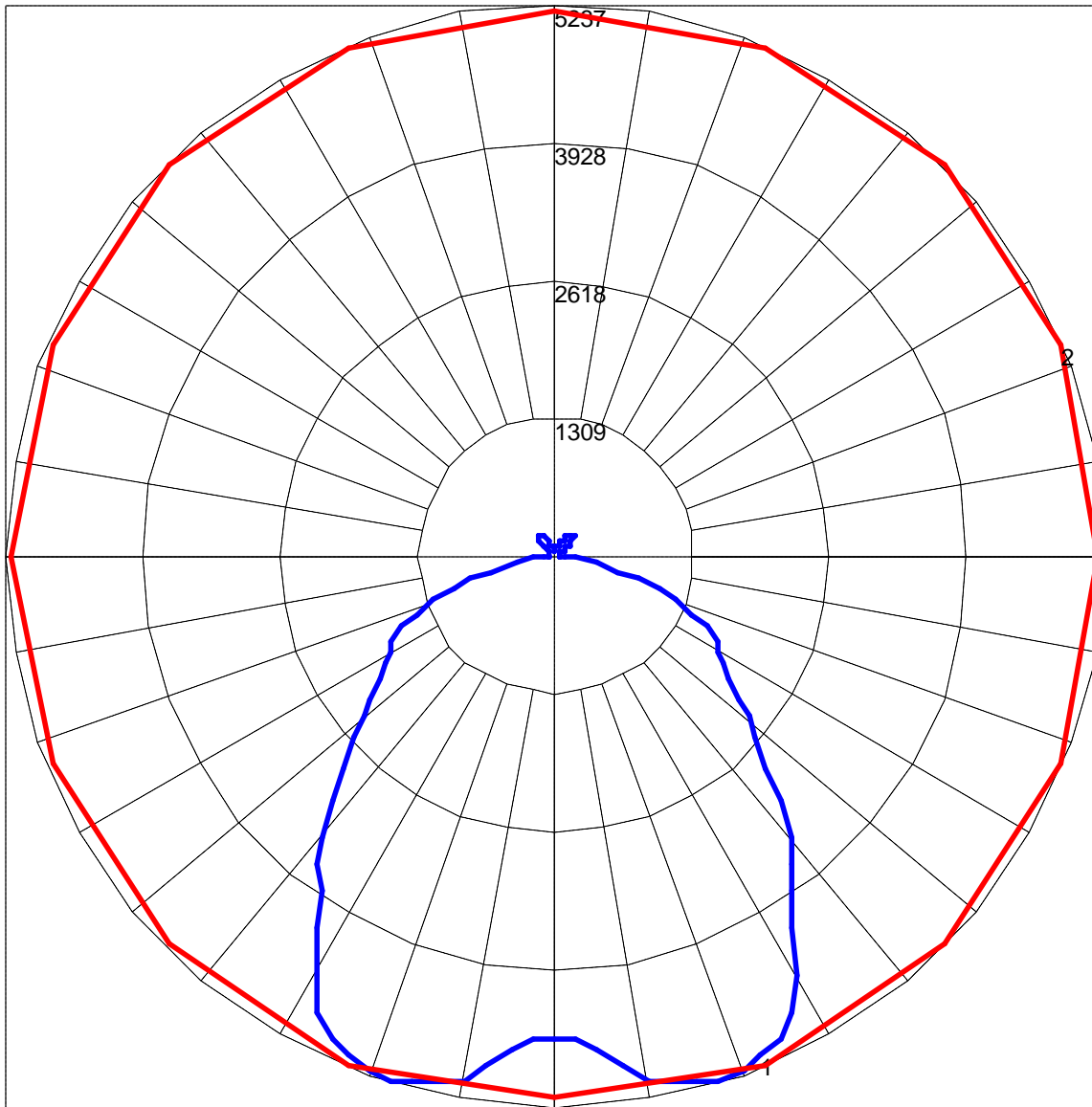
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80
2	99	91	84	79	96	88	82	77	84	79	75	80	76	72	76	73	70	68
3	90	80	72	66	87	78	71	65	74	68	63	71	66	62	68	64	60	58
4	83	71	63	56	80	70	62	56	67	60	54	64	58	53	61	56	52	50
5	76	64	55	49	74	63	55	48	60	53	47	57	51	46	55	50	46	43
6	71	58	49	43	69	57	49	43	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	38	33	42	37	32	31
9	57	44	36	31	56	43	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	36	31	27	25

POLAR GRAPH



Maximum Candela = 5236.954 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.)