



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-40-ACS16CPA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7917  
[TESTLAB]LSI INDUSTRIES, INC  
[TESTDATE]07/13/16  
[ISSUE DATE]01/16/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]AUM-S-LED-14L-40-ACS16CPA  
[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	13986
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	108
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.60
Spacing Criterion (Diagonal)	1.58
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	34436	33442	32324
55	32873	32829	33616
65	33364	33513	33157
75	26077	26271	26561
85	10795	10939	10651

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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	3410.728	3410.728	3410.728	3410.728	3410.728
2.5	3501.942	3415.615	3368.379	3435.160	3368.379
5.0	3428.645	3492.169	3428.645	3505.199	3415.615
7.5	3728.346	3575.238	3601.299	3632.246	3658.307
10.0	3785.355	3749.521	3674.595	3756.036	3769.066
12.5	3958.008	3917.288	3886.341	3912.402	3850.507
15.0	3971.039	3987.327	3987.327	3887.970	3998.729
17.5	3967.781	4023.161	3982.441	4054.108	3927.061
20.0	3935.205	4116.003	4062.252	4063.881	4019.903
22.5	3964.524	4112.745	4098.086	4054.108	4161.610
25.0	4176.269	4106.230	4096.457	4102.973	4067.139
27.5	4135.549	4174.640	4120.889	4166.496	4159.981
30.0	4143.693	4145.322	4130.662	4029.676	4029.676
32.5	3936.834	3997.100	4036.191	3940.092	3887.970
35.0	3681.111	3708.800	3809.787	3816.302	3782.097
37.5	3599.670	3645.277	3620.845	3653.421	3638.762
40.0	3492.169	3456.335	3479.138	3470.994	3413.986
42.5	3322.772	3260.878	3286.939	3228.302	3282.052
45.0	3161.520	3049.132	3070.307	3010.041	2967.692
47.5	2853.675	2873.221	2839.016	2811.326	2873.221
50.0	2654.960	2677.764	2643.559	2716.855	2710.340
52.5	2557.232	2571.891	2599.581	2591.437	2531.171
55.0	2448.102	2444.844	2444.844	2466.018	2503.481
57.5	2368.290	2374.805	2379.691	2389.464	2392.722
60.0	2270.561	2273.819	2298.251	2283.592	2259.160
62.5	2076.733	2086.506	2091.392	2078.362	2071.846
65.0	1830.782	1850.328	1838.927	1840.555	1819.381
67.5	1597.863	1588.090	1584.832	1578.317	1566.915
70.0	1355.170	1337.253	1333.995	1324.223	1319.336
72.5	1094.560	1091.303	1101.076	1094.560	1092.932
75.0	876.300	882.815	882.815	895.846	892.588
77.5	654.782	656.410	654.782	662.926	662.926
80.0	384.399	390.914	390.914	387.657	384.399
82.5	193.828	197.086	197.086	193.828	195.457
85.0	122.161	123.790	123.790	122.161	120.532
87.5	86.327	84.698	83.069	83.069	83.069
90.0	70.039	70.039	70.039	70.039	70.039
92.5	70.039	70.039	70.039	70.039	70.039
95.0	73.296	73.296	73.296	73.296	73.296
97.5	76.554	76.554	76.554	76.554	76.554
100.0	89.585	89.585	89.585	89.585	89.585
102.5	99.357	99.357	99.357	99.357	99.357
105.0	109.130	107.501	107.501	107.501	107.501
107.5	117.274	117.274	115.646	115.646	115.646
110.0	123.790	123.790	123.790	123.790	122.161
112.5	128.676	128.676	128.676	128.676	127.047
115.0	133.562	133.562	131.934	133.562	133.562
117.5	136.820	136.820	136.820	136.820	136.820
120.0	138.449	138.449	138.449	138.449	140.078
122.5	140.078	140.078	140.078	140.078	140.078
125.0	141.706	141.706	143.335	141.706	141.706
127.5	146.593	146.593	146.593	146.593	146.593
130.0	153.108	153.108	153.108	153.108	153.108
132.5	154.737	154.737	154.737	154.737	154.737

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	149.851	151.479	151.479	149.851	149.851
<b>137.5</b>	143.335	143.335	143.335	143.335	143.335
<b>140.0</b>	136.820	136.820	138.449	136.820	138.449
<b>142.5</b>	136.820	136.820	136.820	138.449	138.449
<b>145.0</b>	143.335	143.335	143.335	143.335	143.335
<b>147.5</b>	154.737	154.737	153.108	154.737	153.108
<b>150.0</b>	161.252	161.252	161.252	161.252	161.252
<b>152.5</b>	161.252	162.881	162.881	162.881	162.881
<b>155.0</b>	154.737	154.737	153.108	153.108	154.737
<b>157.5</b>	140.078	141.706	140.078	140.078	140.078
<b>160.0</b>	128.676	130.305	128.676	128.676	130.305
<b>162.5</b>	118.903	120.532	120.532	122.161	122.161
<b>165.0</b>	110.759	112.388	112.388	114.017	114.017
<b>167.5</b>	100.986	100.986	100.986	102.615	104.244
<b>170.0</b>	86.327	86.327	87.956	89.585	89.585
<b>172.5</b>	70.039	71.668	73.296	74.925	74.925
<b>175.0</b>	58.637	60.266	60.266	63.524	63.524
<b>177.5</b>	50.493	50.493	52.122	53.751	53.751
<b>180.0</b>	45.607	45.607	45.607	45.607	45.607

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1462.5	N.A.	10.50
0-30	3363.42	N.A.	24.00
0-40	5735.44	N.A.	41.00
0-60	10312.36	N.A.	73.70
0-80	13042.94	N.A.	93.30
0-90	13214.82	N.A.	94.50
10-90	12873.45	N.A.	92.00
20-40	4272.94	N.A.	30.60
20-50	6633.7	N.A.	47.40
40-70	6385.17	N.A.	45.70
60-80	2730.58	N.A.	19.50
70-80	922.33	N.A.	6.60
80-90	171.88	N.A.	1.20
90-110	195.29	N.A.	1.40
90-120	326.61	N.A.	2.30
90-130	455.38	N.A.	3.30
90-150	662.00	N.A.	4.70
90-180	770.93	N.A.	5.50
110-180	575.64	N.A.	4.10
0-180	13985.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	341.37
10-20	1121.13
20-30	1900.92
30-40	2372.02
40-50	2360.76
50-60	2216.16
60-70	1808.26
70-80	922.33
80-90	171.88
90-100	81.72
100-110	113.57
110-120	131.32
120-130	128.77
130-140	115.20
140-150	91.41
150-160	70.20
160-170	32.06
170-180	6.67

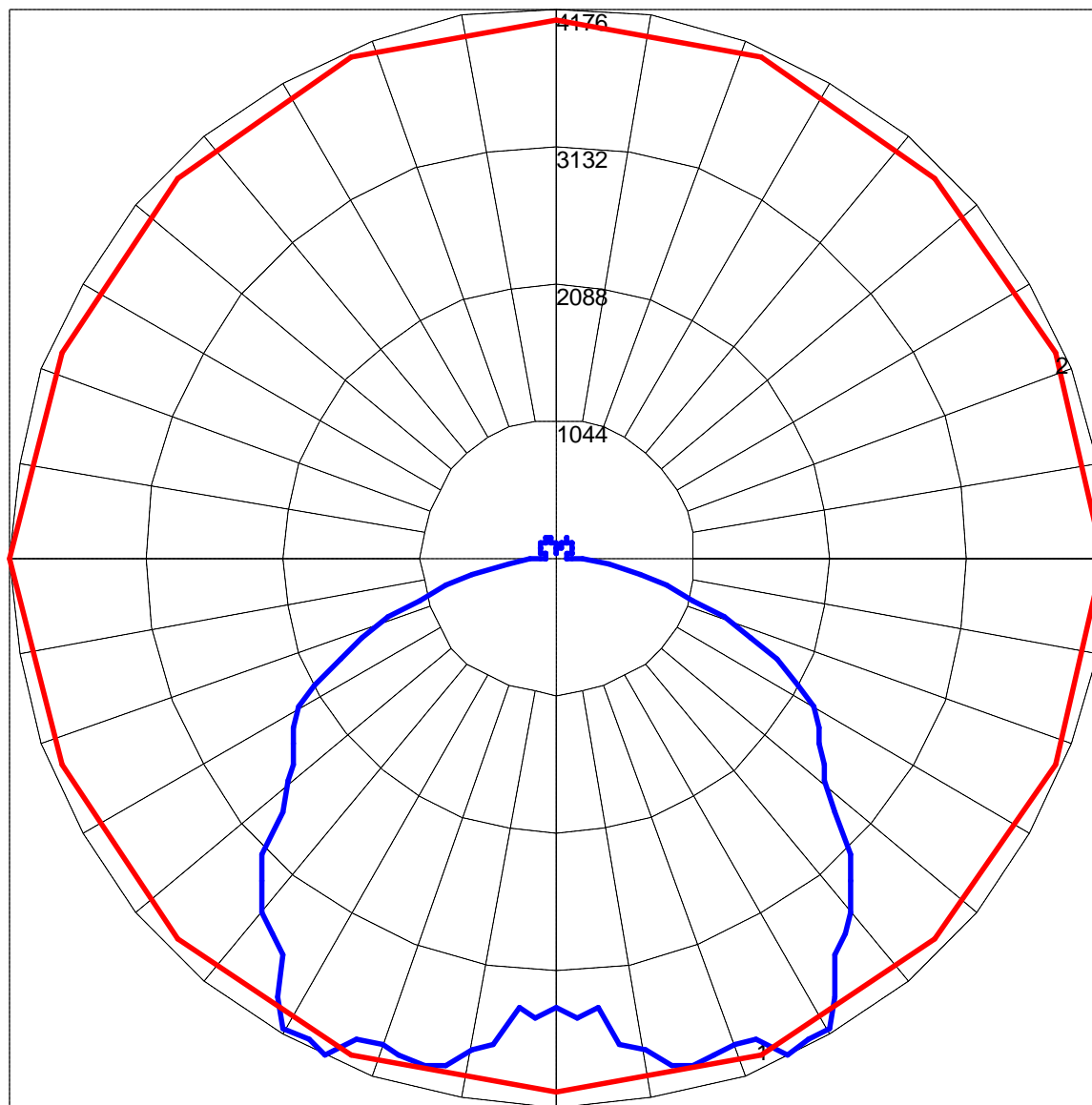
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	94
1	107	103	98	95	104	100	96	93	95	92	89	90	87	85	85	83	82	79
2	97	89	82	77	94	87	81	75	82	77	73	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	60	69	63	59	65	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	48	40	34	46	39	34	45	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	33	28	23	22

POLAR GRAPH



Maximum Candela = 4176.269 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)