



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-35-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-35-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	14455
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	107.4
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	30167	30201	30132
55	22721	22185	22292
65	21586	21557	21673
75	27931	27979	27884
85	50360	50360	50501

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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	4733.030	4733.030	4733.030	4733.030	4733.030
2.5	4741.011	4742.607	4752.185	4736.222	4741.011
5.0	4742.607	4742.607	4758.570	4742.607	4745.800
7.5	4733.030	4747.396	4756.974	4739.415	4747.396
10.0	4772.937	4793.689	4838.385	4777.726	4758.570
12.5	4895.852	4865.522	4900.641	4876.697	4824.019
15.0	4940.549	4918.200	4908.623	4902.237	4900.641
17.5	4951.723	4954.915	4983.649	4899.045	4953.319
20.0	4915.008	4916.604	4918.200	4956.512	4942.145
22.5	4873.504	4926.182	4884.678	4879.889	4871.908
25.0	4833.596	4918.200	4844.771	4876.697	4870.311
27.5	4808.056	4847.963	4822.422	4841.578	4839.982
30.0	4691.526	4705.892	4677.159	4704.296	4709.085
32.5	4471.236	4474.429	4463.255	4458.466	4442.503
35.0	4164.747	4191.884	4206.251	4156.765	4126.436
37.5	3871.028	3893.376	3904.550	3864.642	3835.909
40.0	3550.171	3545.382	3564.538	3559.749	3518.245
42.5	3155.885	3175.041	3191.004	3191.004	3181.426
45.0	2769.581	2795.121	2772.773	2764.792	2766.388
47.5	2475.861	2458.302	2442.339	2450.321	2464.687
50.0	2220.453	2212.472	2196.509	2194.913	2223.646
52.5	1968.238	1968.238	1952.275	1950.679	1960.256
55.0	1692.078	1672.922	1652.171	1668.134	1660.152
57.5	1422.303	1411.129	1419.111	1391.974	1387.185
60.0	1246.710	1233.940	1222.766	1217.977	1205.207
62.5	1198.821	1197.225	1198.821	1203.610	1205.207
65.0	1184.455	1182.858	1182.858	1187.647	1189.244
67.5	1147.740	1146.143	1146.143	1150.932	1154.125
70.0	1093.466	1093.466	1093.466	1095.062	1095.062
72.5	1023.228	1023.228	1021.632	1021.632	1024.825
75.0	938.624	940.221	940.221	938.624	937.028
77.5	844.443	846.039	844.443	841.250	841.250
80.0	745.472	743.876	742.280	740.683	739.087
82.5	644.905	644.905	646.502	648.098	648.098
85.0	569.879	569.879	569.879	569.879	571.475
87.5	502.835	504.431	504.431	504.431	502.835
90.0	451.753	450.157	450.157	448.560	448.560
92.5	410.249	408.653	408.653	408.653	407.057
95.0	375.131	375.131	375.131	375.131	373.534
97.5	344.801	343.205	343.205	343.205	343.205
100.0	317.664	316.067	317.664	317.664	317.664
102.5	292.123	292.123	293.719	293.719	292.123
105.0	271.371	271.371	271.371	272.967	272.967
107.5	252.215	252.215	252.215	252.215	252.215
110.0	234.656	234.656	234.656	234.656	234.656
112.5	218.693	218.693	218.693	218.693	218.693
115.0	204.326	204.326	204.326	204.326	204.326
117.5	191.556	191.556	191.556	193.152	193.152
120.0	180.382	180.382	181.978	181.978	181.978
122.5	170.804	170.804	170.804	172.400	172.400
125.0	162.823	162.823	162.823	162.823	162.823
127.5	154.841	154.841	154.841	154.841	154.841
130.0	148.456	148.456	148.456	148.456	148.456
132.5	142.071	142.071	142.071	142.071	142.071

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	137.282	137.282	137.282	137.282	137.282
<b>137.5</b>	130.897	130.897	132.493	132.493	132.493
<b>140.0</b>	127.704	127.704	127.704	127.704	127.704
<b>142.5</b>	122.915	122.915	122.915	122.915	122.915
<b>145.0</b>	119.723	118.126	119.723	119.723	119.723
<b>147.5</b>	116.530	114.934	116.530	116.530	116.530
<b>150.0</b>	111.741	111.741	111.741	111.741	111.741
<b>152.5</b>	108.548	106.952	108.548	108.548	106.952
<b>155.0</b>	103.760	102.163	103.760	103.760	103.760
<b>157.5</b>	98.971	97.374	98.971	98.971	98.971
<b>160.0</b>	94.182	94.182	95.778	94.182	94.182
<b>162.5</b>	87.797	89.393	89.393	89.393	89.393
<b>165.0</b>	81.411	83.008	83.008	83.008	84.604
<b>167.5</b>	73.430	76.622	76.622	76.622	76.622
<b>170.0</b>	68.641	70.237	70.237	68.641	68.641
<b>172.5</b>	60.659	62.256	62.256	62.256	60.659
<b>175.0</b>	54.274	54.274	54.274	54.274	54.274
<b>177.5</b>	46.293	46.293	47.889	47.889	47.889
<b>180.0</b>	41.504	41.504	41.504	41.504	41.504

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1844.81	N.A.	12.80
0-30	4088.49	N.A.	28.30
0-40	6687.88	N.A.	46.30
0-60	10364.03	N.A.	71.70
0-80	12511.49	N.A.	86.60
0-90	13143.00	N.A.	90.90
10-90	12689.02	N.A.	87.80
20-40	4843.08	N.A.	33.50
20-50	7014.39	N.A.	48.50
40-70	4840.14	N.A.	33.50
60-80	2147.45	N.A.	14.90
70-80	983.46	N.A.	6.80
80-90	631.51	N.A.	4.40
90-110	701.59	N.A.	4.90
90-120	906.20	N.A.	6.30
90-130	1053.17	N.A.	7.30
90-150	1235.01	N.A.	8.50
90-180	1312.48	N.A.	9.10
110-180	610.89	N.A.	4.20
0-180	14455.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	453.98
10-20	1390.83
20-30	2243.69
30-40	2599.39
40-50	2171.31
50-60	1504.84
60-70	1163.99
70-80	983.46
80-90	631.51
90-100	412.18
100-110	289.41
110-120	204.61
120-130	146.96
130-140	106.57
140-150	75.27
150-160	48.04
160-170	23.78
170-180	5.65

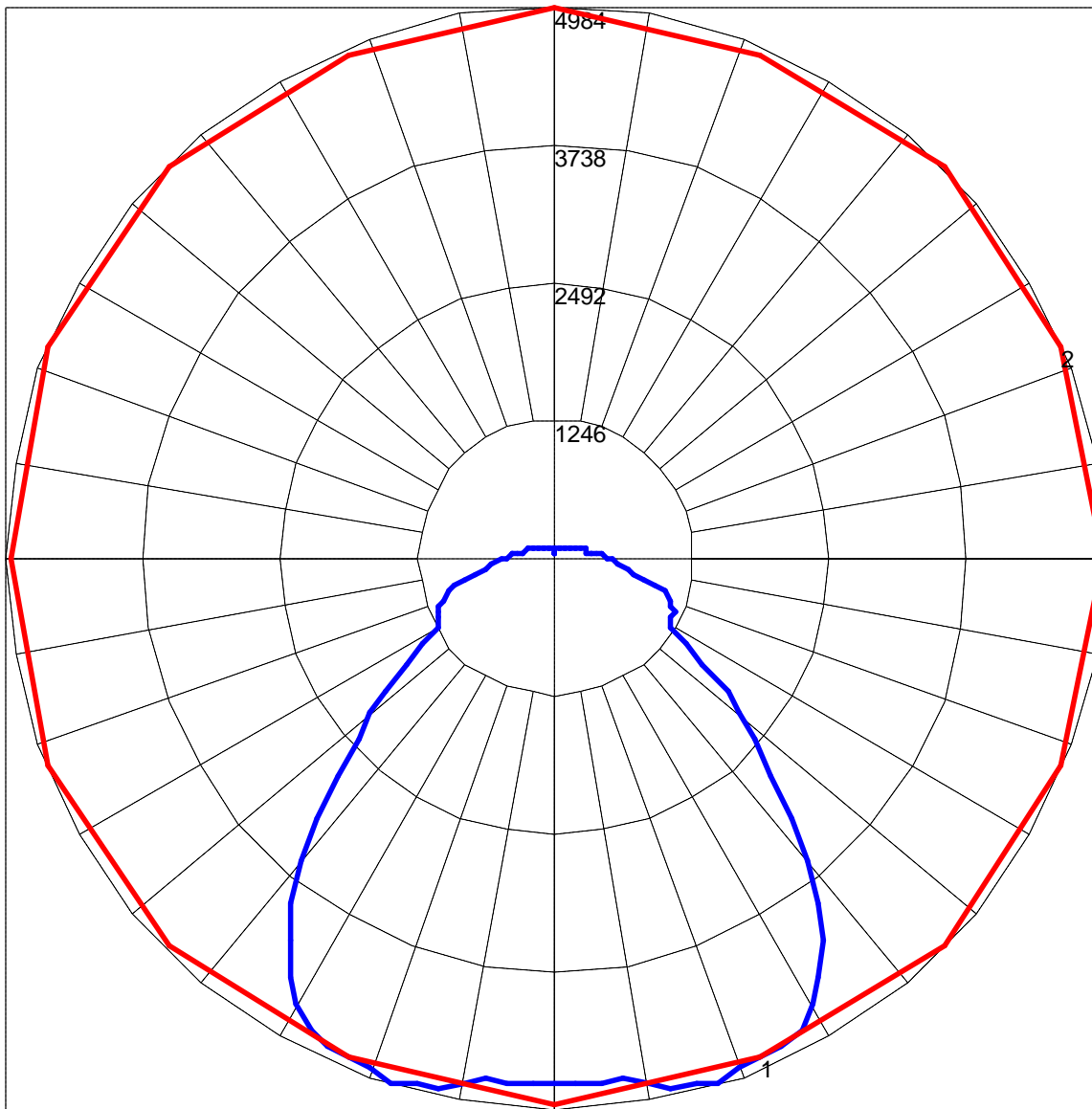
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4983.649 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.)