



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUM-S-LED-14L-40-ACSF16.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7915
[TESTLAB]LSI INDUSTRIES, INC
[TESTDATE]07/12/16
[ISSUEDATE]1/16/2017
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]AUM-S-LED-14L-40-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	14819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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 w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.67 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18896	18918	18874
55	12200	11913	11970
65	9356	9343	9394
75	8482	8496	8468
85	6238	6238	6255

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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	4852.193	4852.193	4852.193	4852.193	4852.193
2.5	4860.375	4862.012	4871.831	4855.466	4860.375
5.0	4862.012	4862.012	4878.377	4862.012	4865.285
7.5	4852.193	4866.921	4876.740	4858.739	4866.921
10.0	4893.105	4914.379	4960.201	4898.015	4878.377
12.5	5019.115	4988.021	5024.024	4999.477	4945.473
15.0	5064.937	5042.026	5032.207	5025.661	5024.024
17.5	5076.392	5079.665	5109.122	5022.388	5078.028
20.0	5038.753	5040.389	5042.026	5081.301	5066.573
22.5	4996.204	5050.208	5007.659	5002.750	4994.567
25.0	4955.292	5042.026	4966.747	4999.477	4992.931
27.5	4929.108	4970.020	4943.836	4963.474	4961.838
30.0	4809.644	4824.372	4794.916	4822.736	4827.645
32.5	4583.808	4587.081	4575.626	4570.717	4554.352
35.0	4269.602	4297.423	4312.151	4261.420	4230.327
37.5	3968.488	3991.399	4002.855	3961.942	3932.485
40.0	3639.554	3634.644	3654.282	3649.373	3606.824
42.5	3235.341	3254.979	3271.343	3271.343	3261.525
45.0	2839.310	2865.494	2842.583	2834.401	2836.037
47.5	2538.196	2520.195	2503.830	2512.012	2526.741
50.0	2276.358	2268.175	2251.810	2250.174	2279.631
52.5	2017.792	2017.792	2001.427	1999.791	2009.610
55.0	1734.679	1715.042	1693.767	1710.132	1701.950
57.5	1458.113	1446.657	1454.840	1427.019	1422.110
60.0	1278.099	1265.007	1253.551	1248.642	1235.550
62.5	1229.004	1227.367	1229.004	1233.913	1235.550
65.0	1214.276	1212.639	1212.639	1217.549	1219.185
67.5	1176.636	1175.000	1175.000	1179.909	1183.182
70.0	1120.996	1120.996	1120.996	1122.632	1122.632
72.5	1048.990	1048.990	1047.354	1047.354	1050.627
75.0	962.256	963.893	963.893	962.256	960.620
77.5	865.703	867.340	865.703	862.430	862.430
80.0	764.241	762.604	760.968	759.331	757.695
82.5	661.142	661.142	662.778	664.415	664.415
85.0	584.227	584.227	584.227	584.227	585.863
87.5	515.494	517.131	517.131	517.131	515.494
90.0	463.127	461.490	461.490	459.854	459.854
92.5	420.578	418.941	418.941	418.941	417.305
95.0	384.575	384.575	384.575	384.575	382.939
97.5	353.482	351.845	351.845	351.845	351.845
100.0	325.662	324.025	325.662	325.662	325.662
102.5	299.478	299.478	301.114	301.114	299.478
105.0	278.203	278.203	278.203	279.840	279.840
107.5	258.565	258.565	258.565	258.565	258.565
110.0	240.564	240.564	240.564	240.564	240.564
112.5	224.199	224.199	224.199	224.199	224.199
115.0	209.471	209.471	209.471	209.471	209.471
117.5	196.379	196.379	196.379	198.015	198.015
120.0	184.923	184.923	186.560	186.560	186.560
122.5	175.104	175.104	175.104	176.741	176.741
125.0	166.922	166.922	166.922	166.922	166.922
127.5	158.740	158.740	158.740	158.740	158.740
130.0	152.194	152.194	152.194	152.194	152.194
132.5	145.648	145.648	145.648	145.648	145.648

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135.0	140.738	140.738	140.738	140.738	140.738
137.5	134.192	134.192	135.829	135.829	135.829
140.0	130.919	130.919	130.919	130.919	130.919
142.5	126.010	126.010	126.010	126.010	126.010
145.0	122.737	121.100	122.737	122.737	122.737
147.5	119.464	117.827	119.464	119.464	119.464
150.0	114.554	114.554	114.554	114.554	114.554
152.5	111.281	109.645	111.281	111.281	109.645
155.0	106.372	104.735	106.372	106.372	106.372
157.5	101.462	99.826	101.462	101.462	101.462
160.0	96.553	96.553	98.189	96.553	96.553
162.5	90.007	91.643	91.643	91.643	91.643
165.0	83.461	85.097	85.097	85.097	86.734
167.5	75.279	78.552	78.552	78.552	78.552
170.0	70.369	72.006	72.006	70.369	70.369
172.5	62.187	63.823	63.823	63.823	62.187
175.0	55.641	55.641	55.641	55.641	55.641
177.5	47.458	47.458	49.095	49.095	49.095
180.0	42.549	42.549	42.549	42.549	42.549

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1891.25	N.A.	12.80
0-30	4191.43	N.A.	28.30
0-40	6856.26	N.A.	46.30
0-60	10624.97	N.A.	71.70
0-80	12826.49	N.A.	86.60
0-90	13473.9	N.A.	90.90
10-90	13008.49	N.A.	87.80
20-40	4965.01	N.A.	33.50
20-50	7190.99	N.A.	48.50
40-70	4962.00	N.A.	33.50
60-80	2201.52	N.A.	14.90
70-80	1008.22	N.A.	6.80
80-90	647.41	N.A.	4.40
90-110	719.25	N.A.	4.90
90-120	929.02	N.A.	6.30
90-130	1079.68	N.A.	7.30
90-150	1266.1	N.A.	8.50
90-180	1345.52	N.A.	9.10
110-180	626.27	N.A.	4.20
0-180	14819.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	465.41
10-20	1425.84
20-30	2300.18
30-40	2664.83
40-50	2225.98
50-60	1542.73
60-70	1193.29
70-80	1008.22
80-90	647.41
90-100	422.56
100-110	296.70
110-120	209.77
120-130	150.66
130-140	109.26
140-150	77.16
150-160	49.25
160-170	24.38
170-180	5.79

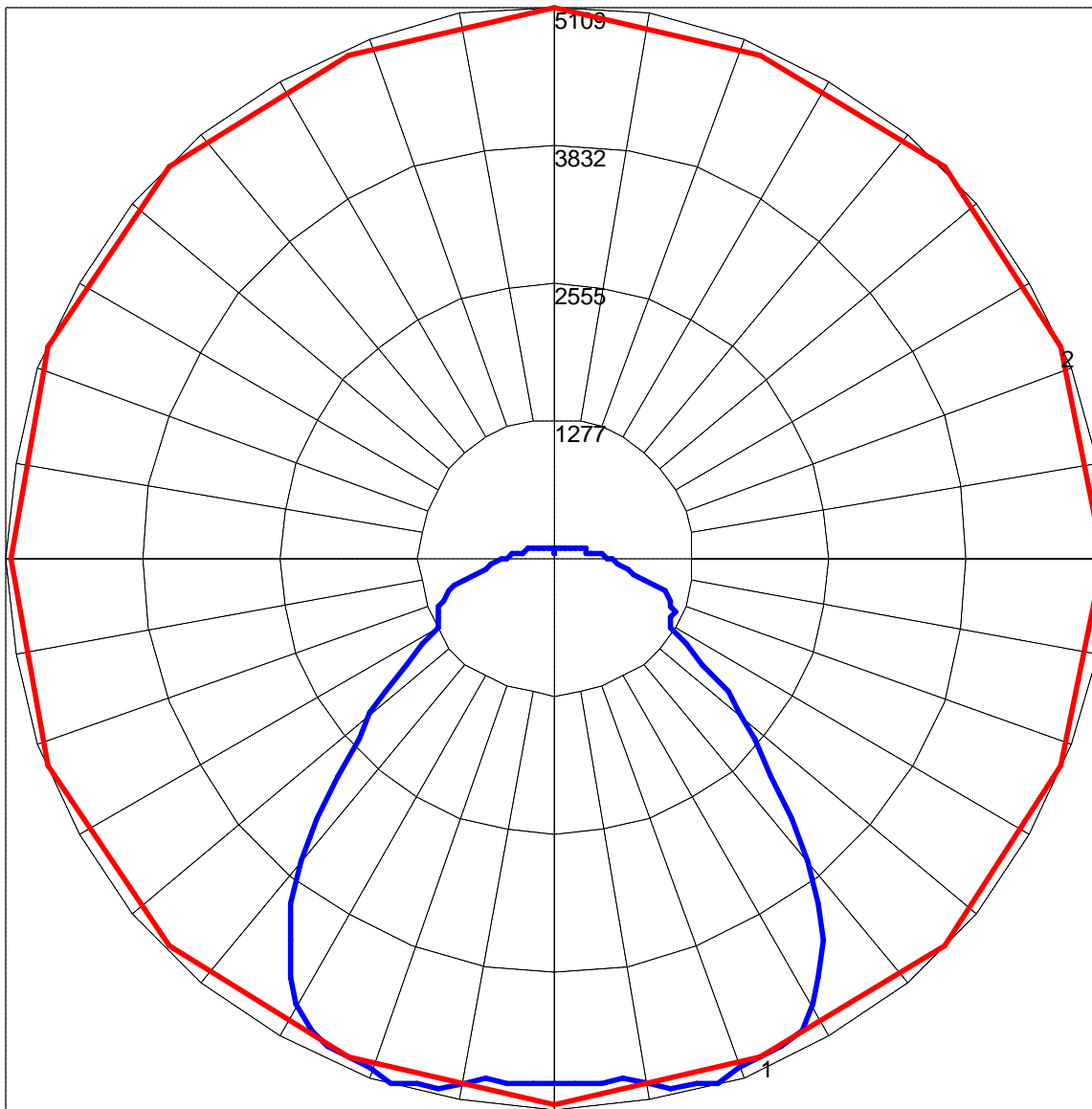
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5109.122 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.)