



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUM-S-LED-14L-50-ACSF16FA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7911
[TESTLAB]LSI INDUSTRIES, INC
[TESTDATE]07/12/16
[ISSUE DATE]01/16/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]AUM-S-LED-14L-50-ACSF16FA
[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	14856
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	107.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.30
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	28713	28954	28816
55	21847	22003	21861
65	22233	22195	22195
75	28836	28742	28648
85	54044	53951	54044

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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	4799.811	4799.811	4799.811	4799.811	4799.811
2.5	4807.192	4808.246	4807.192	4811.410	4809.301
5.0	4870.458	4881.003	4877.840	4891.547	4896.819
7.5	4944.269	4946.378	4962.195	4941.106	4935.834
10.0	4956.923	4993.828	5027.570	5015.971	4956.923
12.5	4969.576	5017.026	5043.387	5027.570	4964.304
15.0	4962.195	5021.243	5010.699	4992.774	4989.610
17.5	4945.324	4950.596	4982.229	4978.011	4917.908
20.0	4889.438	4910.527	4960.086	4959.031	4896.819
22.5	4837.771	4892.602	4883.112	4872.567	4854.642
25.0	4773.450	4811.410	4821.954	4833.553	4800.865
27.5	4650.080	4689.095	4694.367	4697.530	4614.230
30.0	4447.628	4482.425	4455.009	4441.301	4442.356
32.5	4243.067	4204.052	4178.746	4171.365	4233.577
35.0	3976.293	3932.007	3878.230	3934.116	3937.279
37.5	3675.778	3628.328	3587.205	3661.016	3683.159
40.0	3355.228	3322.541	3299.343	3345.738	3337.303
42.5	2999.882	2985.120	2979.848	3018.862	2994.610
45.0	2636.100	2633.991	2658.243	2665.624	2645.590
47.5	2337.694	2344.020	2391.470	2328.204	2328.204
50.0	2104.662	2125.751	2165.820	2145.785	2126.806
52.5	1850.542	1879.012	1915.918	1909.591	1861.087
55.0	1627.001	1632.273	1638.600	1647.035	1628.055
57.5	1437.202	1410.841	1387.643	1408.732	1439.311
60.0	1280.090	1265.328	1248.457	1257.947	1264.274
62.5	1235.804	1235.804	1233.695	1233.695	1232.640
65.0	1219.987	1218.933	1217.878	1216.824	1217.878
67.5	1183.082	1182.027	1179.918	1178.864	1177.810
70.0	1126.142	1125.088	1124.033	1121.924	1122.979
72.5	1053.386	1052.331	1051.277	1049.168	1046.005
75.0	969.030	969.030	965.867	964.813	962.704
77.5	875.185	873.076	869.913	869.913	869.913
80.0	778.177	771.850	773.959	771.850	770.796
82.5	682.223	682.223	681.168	683.277	681.168
85.0	611.575	611.575	610.521	611.575	611.575
87.5	551.472	552.527	551.472	550.418	549.363
90.0	504.022	504.022	502.968	500.859	501.913
92.5	466.062	466.062	465.008	462.899	461.845
95.0	432.320	433.375	431.266	430.212	430.212
97.5	403.851	403.851	403.851	402.796	402.796
100.0	379.598	378.544	379.598	379.598	378.544
102.5	357.455	357.455	358.510	358.510	358.510
105.0	339.530	339.530	339.530	339.530	339.530
107.5	322.659	323.713	323.713	322.659	323.713
110.0	308.951	308.951	308.951	308.951	308.951
112.5	296.298	296.298	296.298	297.352	297.352
115.0	285.753	285.753	286.808	286.808	287.862
117.5	278.372	278.372	278.372	279.427	279.427
120.0	273.100	273.100	274.154	274.154	275.209
122.5	270.991	269.937	270.991	272.046	272.046
125.0	269.937	269.937	270.991	270.991	272.046
127.5	270.991	270.991	270.991	272.046	273.100
130.0	272.046	272.046	273.100	273.100	274.154
132.5	273.100	274.154	274.154	275.209	275.209

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CANDELA TABULATION - (Cont.)

135.0	275.209	275.209	275.209	276.263	276.263
137.5	275.209	274.154	275.209	275.209	276.263
140.0	272.046	272.046	272.046	272.046	273.100
142.5	266.773	265.719	266.773	266.773	266.773
145.0	258.338	258.338	258.338	258.338	259.392
147.5	249.902	249.902	250.957	249.902	249.902
150.0	240.412	240.412	240.412	240.412	240.412
152.5	229.868	227.759	228.813	229.868	229.868
155.0	215.106	214.051	216.160	217.215	217.215
157.5	200.344	199.289	201.398	202.452	203.507
160.0	187.690	187.690	189.799	190.854	190.854
162.5	173.983	175.037	176.091	177.146	176.091
165.0	160.275	162.384	162.384	163.438	162.384
167.5	147.622	148.676	147.622	147.622	145.513
170.0	134.968	134.968	133.914	131.805	130.751
172.5	121.261	120.206	118.097	114.934	113.880
175.0	107.553	105.444	102.281	98.063	95.954
177.5	92.791	90.682	87.519	82.246	80.137
180.0	74.865	74.865	74.865	74.865	74.865

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1881.52	N.A.	12.70
0-30	4080.97	N.A.	27.50
0-40	6525.77	N.A.	43.90
0-60	10070.62	N.A.	67.80
0-80	12280.63	N.A.	82.70
0-90	12957.41	N.A.	87.20
10-90	12487.71	N.A.	84.10
20-40	4644.25	N.A.	31.30
20-50	6708.19	N.A.	45.20
40-70	4741.46	N.A.	31.90
60-80	2210.02	N.A.	14.90
70-80	1013.4	N.A.	6.80
80-90	676.78	N.A.	4.60
90-110	836.18	N.A.	5.60
90-120	1122.63	N.A.	7.60
90-130	1366.37	N.A.	9.20
90-150	1741.26	N.A.	11.70
90-180	1898.99	N.A.	12.80
110-180	1062.81	N.A.	7.20
0-180	14856.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	469.70
10-20	1411.82
20-30	2199.44
30-40	2444.8
40-50	2063.94
50-60	1480.91
60-70	1196.62
70-80	1013.4
80-90	676.78
90-100	474.88
100-110	361.29
110-120	286.45
120-130	243.75
130-140	212.51
140-150	162.38
150-160	100.36
160-170	46.68
170-180	10.69

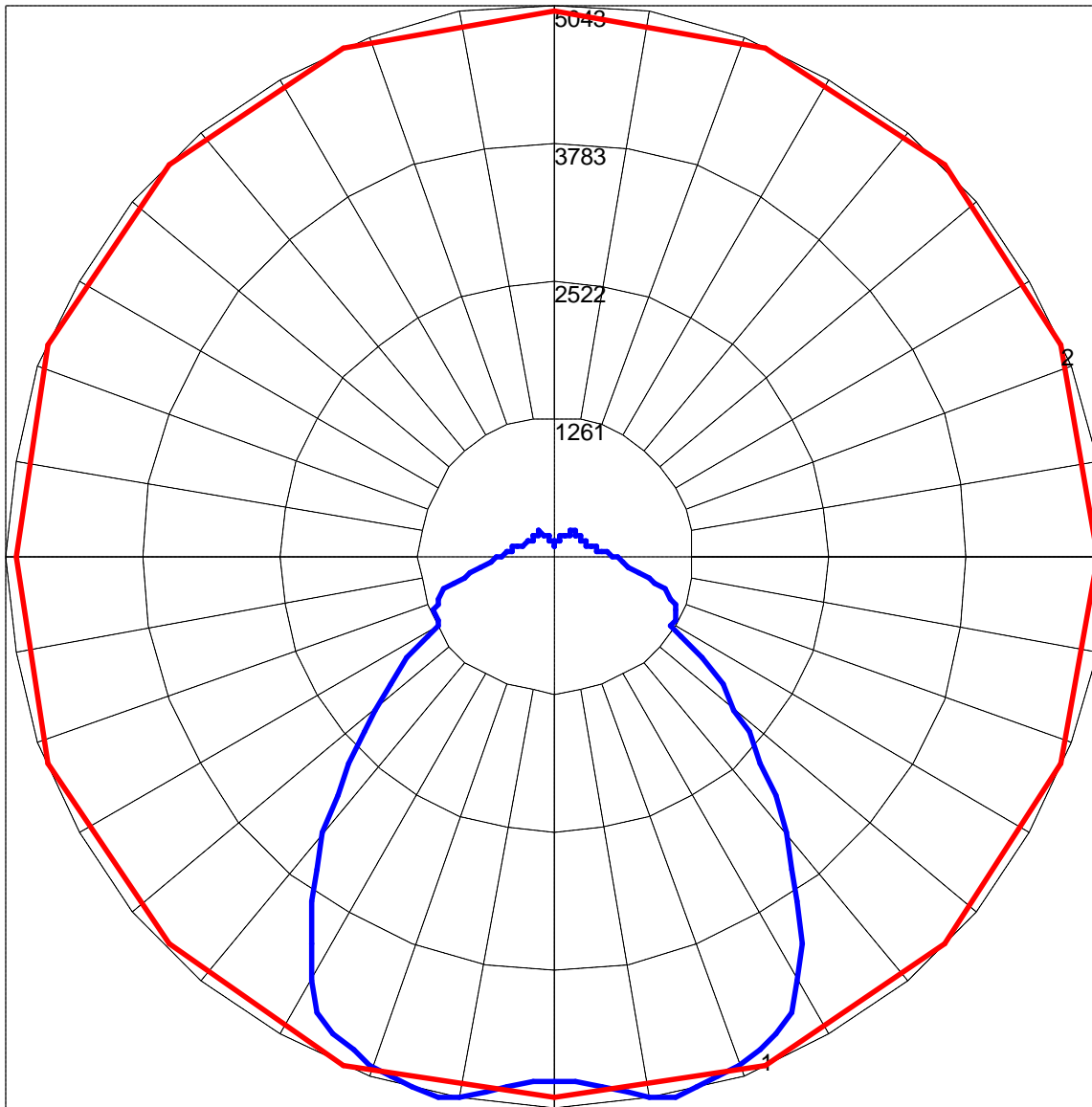
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	105	100	96	92	101	97	93	89	90	87	84	84	81	79	78	76	74	71
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	44
5	75	62	54	47	72	60	52	46	57	50	45	54	48	43	50	45	41	39
6	69	56	48	42	66	55	47	41	52	45	39	49	43	38	46	41	37	35
7	64	51	43	37	62	50	42	36	47	40	35	45	39	34	42	37	33	31
8	60	47	39	33	58	46	38	33	43	37	32	41	35	31	39	34	30	28
9	56	43	35	30	54	42	35	30	40	33	29	38	32	28	36	31	27	25
10	53	40	32	27	51	39	32	27	37	31	26	35	30	26	34	29	25	23

POLAR GRAPH



Maximum Candela = 5043.387 Located At Horizontal Angle = 45, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)