



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUM-S-LED-8L-50-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
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]AUM-S-LED-8L-50-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	9494 (1 lamp)
Total Lamp Lumens	9494
Luminaire Lumens	9494
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	76
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	19812	19835	19789
55	14922	14570	14640
65	14176	14157	14234
75	18344	18375	18313
85	33074	33074	33166

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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	3108.417	3108.417	3108.417	3108.417	3108.417
2.5	3113.659	3114.707	3120.998	3110.514	3113.659
5.0	3114.707	3114.707	3125.191	3114.707	3116.804
7.5	3108.417	3117.852	3124.143	3112.611	3117.852
10.0	3134.626	3148.255	3177.609	3137.771	3125.191
12.5	3215.351	3195.432	3218.496	3202.770	3168.174
15.0	3244.705	3230.028	3223.738	3219.544	3218.496
17.5	3252.044	3254.140	3273.011	3217.448	3253.092
20.0	3227.931	3228.980	3230.028	3255.189	3245.754
22.5	3200.674	3235.270	3208.012	3204.867	3199.625
25.0	3174.464	3230.028	3181.803	3202.770	3198.577
27.5	3157.690	3183.900	3167.126	3179.706	3178.658
30.0	3081.159	3090.595	3071.724	3089.546	3092.692
32.5	2936.484	2938.581	2931.243	2928.097	2917.614
35.0	2735.197	2753.020	2762.455	2729.955	2710.036
37.5	2542.297	2556.974	2564.313	2538.104	2519.233
40.0	2331.575	2328.430	2341.010	2337.865	2310.607
42.5	2072.627	2085.208	2095.692	2095.692	2089.401
45.0	1818.922	1835.696	1821.019	1815.777	1816.825
47.5	1626.022	1614.490	1604.006	1609.248	1618.683
50.0	1458.283	1453.041	1442.557	1441.509	1460.379
52.5	1292.640	1292.640	1282.157	1281.108	1287.398
55.0	1111.272	1098.692	1085.063	1095.547	1090.305
57.5	934.098	926.759	932.001	914.179	911.034
60.0	818.777	810.390	803.051	799.906	791.519
62.5	787.326	786.278	787.326	790.471	791.519
65.0	777.891	776.842	776.842	779.987	781.036
67.5	753.778	752.730	752.730	755.875	757.972
70.0	718.133	718.133	718.133	719.182	719.182
72.5	672.005	672.005	670.957	670.957	673.054
75.0	616.442	617.490	617.490	616.442	615.393
77.5	554.588	555.636	554.588	552.491	552.491
80.0	489.589	488.540	487.492	486.444	485.395
82.5	423.541	423.541	424.590	425.638	425.638
85.0	374.268	374.268	374.268	374.268	375.316
87.5	330.237	331.285	331.285	331.285	330.237
90.0	296.689	295.640	295.640	294.592	294.592
92.5	269.431	268.383	268.383	268.383	267.334
95.0	246.367	246.367	246.367	246.367	245.319
97.5	226.448	225.400	225.400	225.400	225.400
100.0	208.626	207.577	208.626	208.626	208.626
102.5	191.852	191.852	192.900	192.900	191.852
105.0	178.223	178.223	178.223	179.271	179.271
107.5	165.642	165.642	165.642	165.642	165.642
110.0	154.110	154.110	154.110	154.110	154.110
112.5	143.627	143.627	143.627	143.627	143.627
115.0	134.191	134.191	134.191	134.191	134.191
117.5	125.804	125.804	125.804	126.853	126.853
120.0	118.466	118.466	119.514	119.514	119.514
122.5	112.176	112.176	112.176	113.224	113.224
125.0	106.934	106.934	106.934	106.934	106.934
127.5	101.692	101.692	101.692	101.692	101.692
130.0	97.498	97.498	97.498	97.498	97.498
132.5	93.305	93.305	93.305	93.305	93.305

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135.0	90.160	90.160	90.160	90.160	90.160
137.5	85.966	85.966	87.015	87.015	87.015
140.0	83.870	83.870	83.870	83.870	83.870
142.5	80.724	80.724	80.724	80.724	80.724
145.0	78.628	77.579	78.628	78.628	78.628
147.5	76.531	75.483	76.531	76.531	76.531
150.0	73.386	73.386	73.386	73.386	73.386
152.5	71.289	70.241	71.289	71.289	70.241
155.0	68.144	67.096	68.144	68.144	68.144
157.5	64.999	63.951	64.999	64.999	64.999
160.0	61.854	61.854	62.902	61.854	61.854
162.5	57.660	58.709	58.709	58.709	58.709
165.0	53.467	54.515	54.515	54.515	55.564
167.5	48.225	50.322	50.322	50.322	50.322
170.0	45.080	46.128	46.128	45.080	45.080
172.5	39.838	40.886	40.886	40.886	39.838
175.0	35.645	35.645	35.645	35.645	35.645
177.5	30.403	30.403	31.451	31.451	31.451
180.0	27.258	27.258	27.258	27.258	27.258

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1211.58	12.80	12.80
0-30	2685.12	28.30	28.30
0-40	4392.27	46.30	46.30
0-60	6806.58	71.70	71.70
0-80	8216.92	86.50	86.60
0-90	8631.67	90.90	90.90
10-90	8333.51	87.80	87.80
20-40	3180.69	33.50	33.50
20-50	4606.7	48.50	48.50
40-70	3178.76	33.50	33.50
60-80	1410.34	14.90	14.90
70-80	645.89	6.80	6.80
80-90	414.75	4.40	4.40
90-110	460.77	4.90	4.90
90-120	595.15	6.30	6.30
90-130	691.67	7.30	7.30
90-150	811.09	8.50	8.50
90-180	861.97	9.10	9.10
110-180	401.20	4.20	4.20
0-180	9493.64	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	298.15
10-20	913.43
20-30	1473.54
30-40	1707.15
40-50	1426.01
50-60	988.30
60-70	764.45
70-80	645.89
80-90	414.75
90-100	270.70
100-110	190.07
110-120	134.38
120-130	96.52
130-140	69.99
140-150	49.43
150-160	31.55
160-170	15.62
170-180	3.71

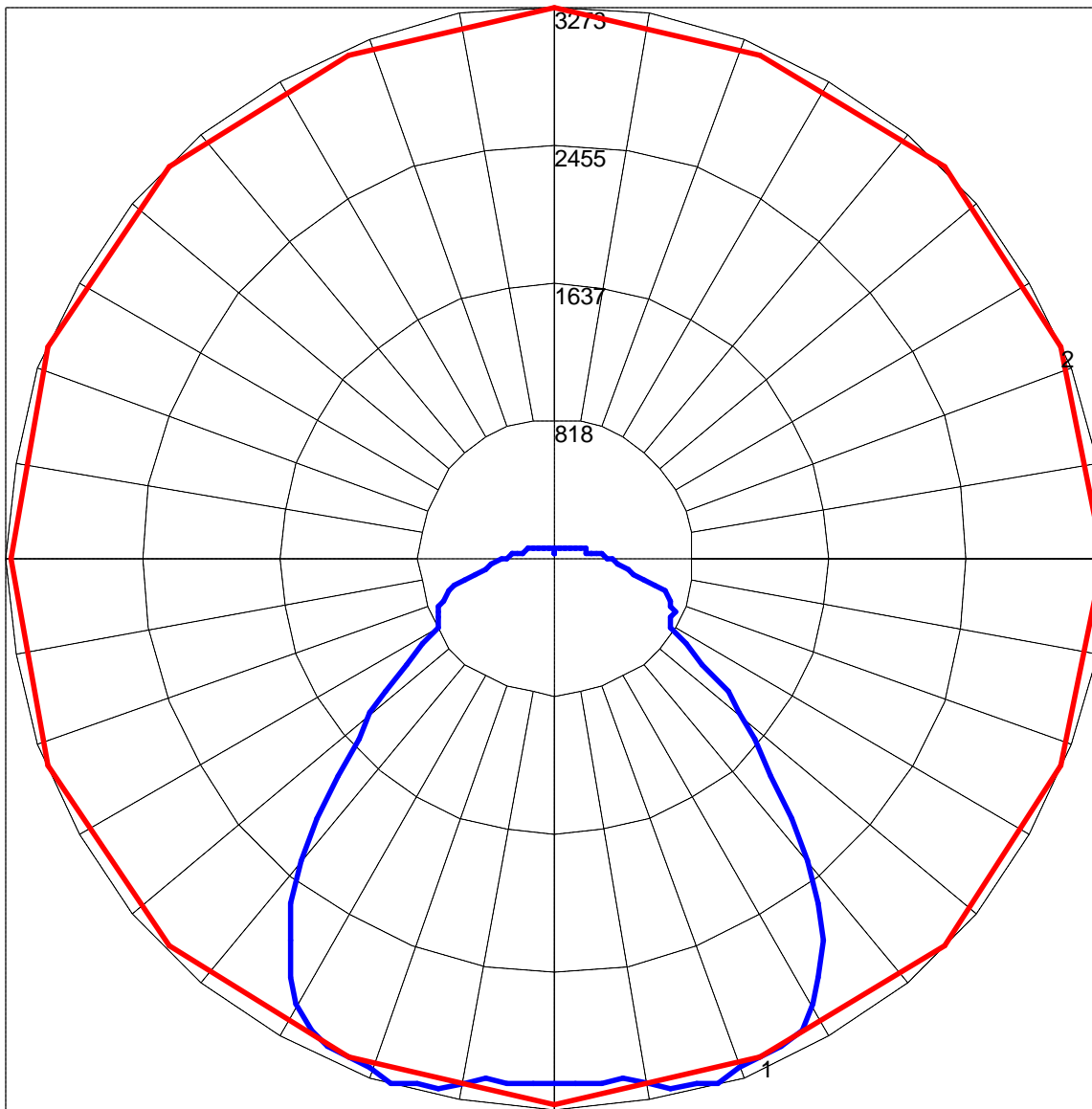
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	34	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 = 3273.011 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.)