



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-8L-30-ACSF16CPA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7671  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]03/21/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]AUM-S-LED-8L-30-ACSF16CPA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH SOURCE TYPE] LED  
[SEARCH APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	74
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.50
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	17914	17639	17662
55	13886	13773	13928
65	12870	12851	12889
75	16074	16074	16043
85	36683	36590	36683

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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	2002.003	2002.003	2002.003	2002.003	2002.003
2.5	2007.257	1993.595	1988.341	1991.493	2026.174
5.0	2053.498	2088.178	2035.632	2067.160	2076.618
7.5	2124.960	2126.011	2113.400	2124.960	2133.368
10.0	2159.641	2188.015	2173.303	2177.506	2224.798
12.5	2175.404	2221.645	2253.173	2272.089	2241.612
15.0	2246.867	2240.561	2256.325	2234.256	2201.677
17.5	2210.085	2305.719	2247.918	2295.209	2254.223
20.0	2285.751	2264.733	2256.325	2276.293	2358.265
22.5	2269.987	2286.802	2262.631	2293.107	2355.112
25.0	2327.788	2303.617	2357.214	2327.788	2318.330
27.5	2410.811	2385.588	2400.301	2396.098	2424.472
30.0	2328.839	2403.454	2349.857	2420.269	2456.000
32.5	2335.144	2327.788	2285.751	2326.737	2330.941
35.0	2192.219	2214.288	2207.983	2209.034	2214.288
37.5	2090.280	2083.974	2074.516	2077.669	2059.803
40.0	1980.984	1945.253	1971.526	1948.406	1951.558
42.5	1780.258	1753.985	1809.684	1817.041	1751.884
45.0	1644.690	1599.500	1619.468	1605.806	1621.570
47.5	1479.695	1437.659	1480.746	1501.765	1498.612
50.0	1309.446	1295.784	1275.817	1301.039	1337.821
52.5	1156.012	1160.216	1179.132	1133.943	1161.267
55.0	1034.105	1034.105	1025.698	1023.596	1037.258
57.5	933.217	924.810	917.453	913.249	909.046
60.0	838.634	831.278	831.278	824.972	822.870
62.5	756.662	766.121	759.815	758.764	764.019
65.0	706.218	704.116	705.167	705.167	707.269
67.5	647.367	651.570	648.418	650.519	652.621
70.0	602.177	604.279	605.330	603.228	601.126
72.5	569.599	569.599	570.650	568.548	567.497
75.0	540.173	541.224	540.173	539.122	539.122
77.5	509.696	509.696	509.696	509.696	508.645
80.0	478.169	477.118	477.118	475.016	476.067
82.5	445.590	444.539	444.539	444.539	444.539
85.0	415.113	414.062	414.062	415.113	415.113
87.5	387.789	387.789	387.789	387.789	388.840
90.0	363.618	363.618	363.618	364.669	364.669
92.5	342.600	342.600	341.549	341.549	342.600
95.0	323.683	323.683	323.683	323.683	322.632
97.5	307.920	306.869	306.869	306.869	306.869
100.0	292.156	292.156	292.156	292.156	292.156
102.5	278.494	278.494	278.494	279.545	279.545
105.0	266.934	266.934	267.985	267.985	267.985
107.5	257.475	257.475	256.424	257.475	257.475
110.0	248.017	246.966	246.966	246.966	246.966
112.5	238.559	238.559	238.559	238.559	238.559
115.0	229.101	230.151	229.101	229.101	230.151
117.5	221.744	221.744	221.744	221.744	220.693
120.0	214.388	213.337	214.388	214.388	214.388
122.5	207.031	207.031	207.031	207.031	207.031
125.0	199.675	200.726	199.675	199.675	199.675
127.5	193.369	193.369	193.369	193.369	193.369
130.0	188.115	188.115	188.115	187.064	187.064
132.5	181.809	182.860	181.809	181.809	181.809

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	175.504	176.555	176.555	176.555	176.555
<b>137.5</b>	170.249	170.249	170.249	170.249	170.249
<b>140.0</b>	164.994	164.994	164.994	164.994	164.994
<b>142.5</b>	159.740	159.740	159.740	159.740	159.740
<b>145.0</b>	154.485	154.485	154.485	154.485	153.434
<b>147.5</b>	148.180	149.231	148.180	149.231	149.231
<b>150.0</b>	142.925	143.976	142.925	143.976	142.925
<b>152.5</b>	137.671	137.671	136.620	137.671	137.671
<b>155.0</b>	130.314	130.314	130.314	131.365	130.314
<b>157.5</b>	122.958	122.958	124.009	124.009	124.009
<b>160.0</b>	116.652	116.652	117.703	117.703	116.652
<b>162.5</b>	110.347	109.296	111.398	110.347	110.347
<b>165.0</b>	102.990	101.939	104.041	101.939	101.939
<b>167.5</b>	95.634	95.634	95.634	94.583	93.532
<b>170.0</b>	88.277	88.277	87.226	85.125	85.125
<b>172.5</b>	79.870	79.870	78.819	76.717	75.666
<b>175.0</b>	70.412	70.412	70.412	70.412	70.412
<b>177.5</b>	62.004	62.004	63.055	64.106	64.106
<b>180.0</b>	56.750	56.750	56.750	56.750	56.750

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	838.18	N.A.	9.80
0-30	1922.49	N.A.	22.40
0-40	3295.77	N.A.	38.40
0-60	5480.31	N.A.	63.80
0-80	6752.52	N.A.	78.60
0-90	7207.2	N.A.	83.90
10-90	7006.56	N.A.	81.60
20-40	2457.6	N.A.	28.60
20-50	3710.62	N.A.	43.20
40-70	2886.21	N.A.	33.60
60-80	1272.21	N.A.	14.80
70-80	570.54	N.A.	6.60
80-90	454.68	N.A.	5.30
90-110	638.92	N.A.	7.40
90-120	867.50	N.A.	10.10
90-130	1047.45	N.A.	12.20
90-150	1281.39	N.A.	14.90
90-180	1378.87	N.A.	16.10
110-180	739.95	N.A.	8.60
0-180	8586.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.64
10-20	637.53
20-30	1084.32
30-40	1373.28
40-50	1253.03
50-60	931.51
60-70	701.67
70-80	570.54
80-90	454.68
90-100	354.88
100-110	284.04
110-120	228.58
120-130	179.94
130-140	136.76
140-150	97.19
150-160	60.76
160-170	29.50
170-180	7.22

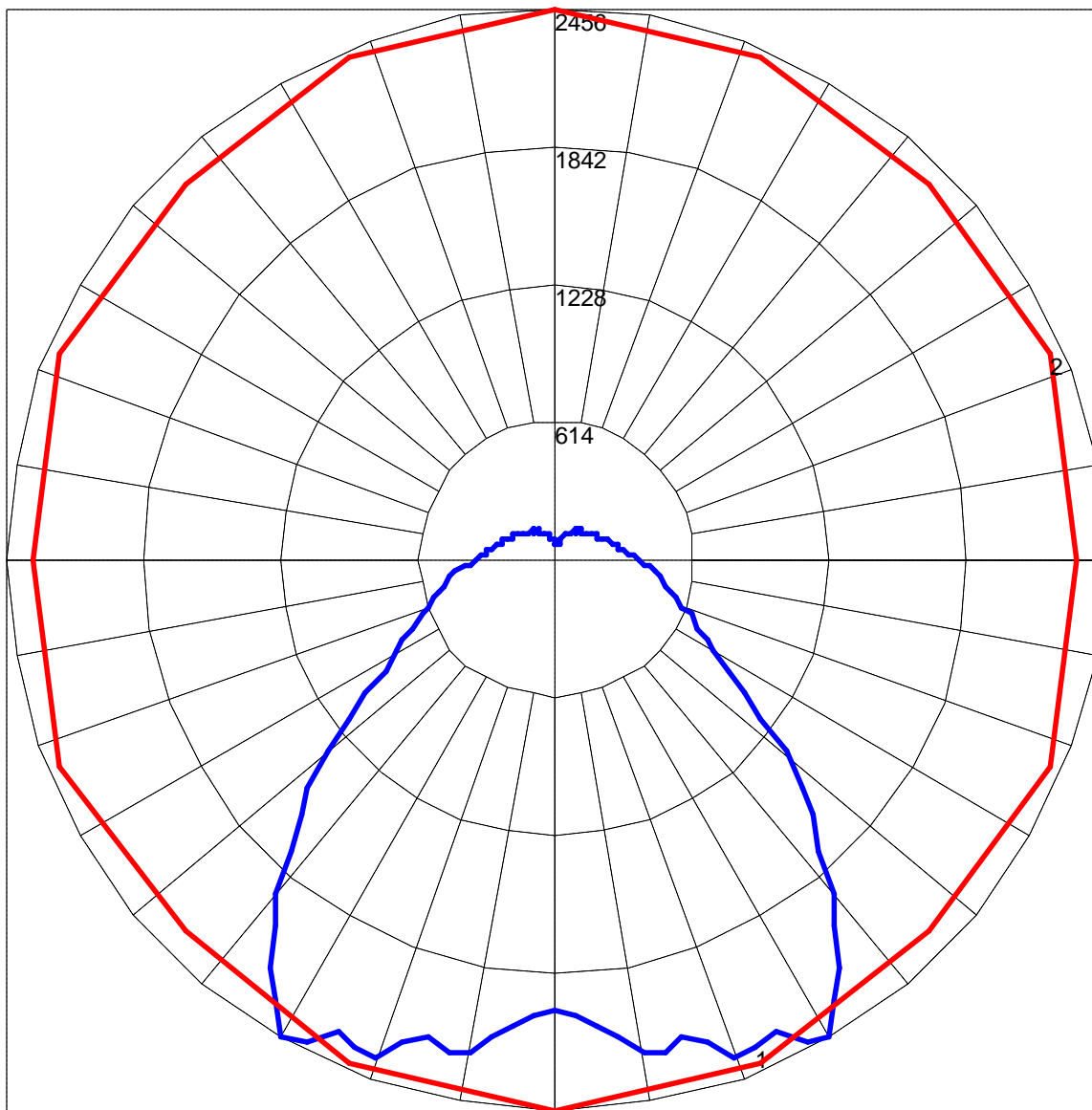
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	104	99	94	90	99	95	91	87	88	84	81	81	78	76	75	73	71	68
2	94	86	79	73	90	83	76	71	76	71	67	71	67	63	66	62	59	56
3	86	76	67	61	82	73	65	59	67	61	56	63	57	53	58	54	50	47
4	79	67	58	52	75	65	57	50	60	53	48	56	50	46	52	47	43	41
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31
7	62	49	40	34	59	47	39	34	44	37	32	42	35	31	39	34	30	27
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	27	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	31	25	22	20

POLAR GRAPH



Maximum Candela = 2456 Located At Horizontal Angle = 90, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)