



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-8L-35-ACS16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7672  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]03/21/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-8L-35-ACS16  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	76.2
Ballast Factor	1.00
CIE Type	Semi-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	17493	17623	17656
55	12233	12139	12139
65	10898	10880	10843
75	15355	15325	15295
85	33227	33227	33227

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2842	2842	2842	2842	2842
<b>2.5</b>	2853	2844	2847	2847	2849
<b>5.0</b>	2851	2849	2850	2849	2849
<b>7.5</b>	2851	2847	2847	2847	2846
<b>10.0</b>	2858	2873	2883	2873	2859
<b>12.5</b>	2914	2913	2941	2931	2925
<b>15.0</b>	2953	2962	2940	2950	2968
<b>17.5</b>	2956	2938	2946	2944	2935
<b>20.0</b>	2926	2942	2928	2933	2946
<b>22.5</b>	2920	2906	2912	2907	2961
<b>25.0</b>	2928	2902	2901	2903	2936
<b>27.5</b>	2882	2876	2883	2880	2877
<b>30.0</b>	2807	2792	2792	2791	2794
<b>32.5</b>	2668	2659	2657	2642	2651
<b>35.0</b>	2476	2475	2482	2462	2473
<b>37.5</b>	2299	2301	2308	2291	2283
<b>40.0</b>	2103	2112	2112	2104	2090
<b>42.5</b>	1877	1874	1884	1870	1863
<b>45.0</b>	1606	1605	1618	1628	1621
<b>47.5</b>	1413	1414	1413	1410	1427
<b>50.0</b>	1252	1257	1255	1259	1271
<b>52.5</b>	1094	1100	1082	1094	1099
<b>55.0</b>	911	913	904	912	904
<b>57.5</b>	738	740	738	744	734
<b>60.0</b>	612	620	626	624	623
<b>62.5</b>	602	602	601	600	599
<b>65.0</b>	598	598	597	596	595
<b>67.5</b>	587	586	585	585	584
<b>70.0</b>	568	568	567	566	566
<b>72.5</b>	545	545	544	542	542
<b>75.0</b>	516	516	515	513	514
<b>77.5</b>	483	483	481	480	479
<b>80.0</b>	448	446	445	445	444
<b>82.5</b>	411	410	410	409	409
<b>85.0</b>	376	375	376	376	376
<b>87.5</b>	344	344	343	344	343
<b>90.0</b>	316	315	315	316	316
<b>92.5</b>	295	294	294	293	294
<b>95.0</b>	274	275	274	273	273
<b>97.5</b>	257	256	256	255	255
<b>100.0</b>	240	239	239	238	238
<b>102.5</b>	223	222	223	223	223
<b>105.0</b>	208	208	208	209	209
<b>107.5</b>	195	195	195	196	195
<b>110.0</b>	184	183	183	183	183
<b>112.5</b>	172	172	172	172	172
<b>115.0</b>	162	162	161	162	162
<b>117.5</b>	152	152	152	152	152
<b>120.0</b>	145	144	145	145	145
<b>122.5</b>	137	137	137	137	137
<b>125.0</b>	130	130	130	131	131
<b>127.5</b>	124	124	124	124	124
<b>130.0</b>	119	119	119	119	119
<b>132.5</b>	114	114	114	114	114

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	109	109	109	109	109
<b>137.5</b>	105	105	105	105	105
<b>140.0</b>	101	101	101	101	101
<b>142.5</b>	97	98	97	98	98
<b>145.0</b>	94	94	94	94	94
<b>147.5</b>	90	91	90	91	90
<b>150.0</b>	87	87	87	87	87
<b>152.5</b>	83	84	83	84	83
<b>155.0</b>	80	80	80	80	79
<b>157.5</b>	75	75	76	76	75
<b>160.0</b>	72	72	73	72	72
<b>162.5</b>	68	67	69	68	68
<b>165.0</b>	64	64	65	64	63
<b>167.5</b>	60	60	60	59	59
<b>170.0</b>	55	55	55	53	53
<b>172.5</b>	50	50	50	48	48
<b>175.0</b>	45	45	45	45	45
<b>177.5</b>	39	40	40	41	41
<b>180.0</b>	36	36	36	36	36

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1104.07	N.A.	12.80
0-30	2441.34	N.A.	28.30
0-40	3983.75	N.A.	46.20
0-60	6069.87	N.A.	70.40
0-80	7200.2	N.A.	83.60
0-90	7611.8	N.A.	88.30
10-90	7339.46	N.A.	85.20
20-40	2879.68	N.A.	33.40
20-50	4145.72	N.A.	48.10
40-70	2675.83	N.A.	31.10
60-80	1130.33	N.A.	13.10
70-80	540.62	N.A.	6.30
80-90	411.60	N.A.	4.80
90-110	521.98	N.A.	6.10
90-120	683.44	N.A.	7.90
90-130	801.03	N.A.	9.30
90-150	945.26	N.A.	11.00
90-180	1005.2	N.A.	11.70
110-180	483.23	N.A.	5.60
0-180	8617.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	272.34
10-20	831.73
20-30	1337.28
30-40	1542.41
40-50	1266.04
50-60	820.08
60-70	589.72
70-80	540.62
80-90	411.60
90-100	300.31
100-110	221.66
110-120	161.47
120-130	117.58
130-140	84.99
140-150	59.24
150-160	37.06
160-170	18.32
170-180	4.56

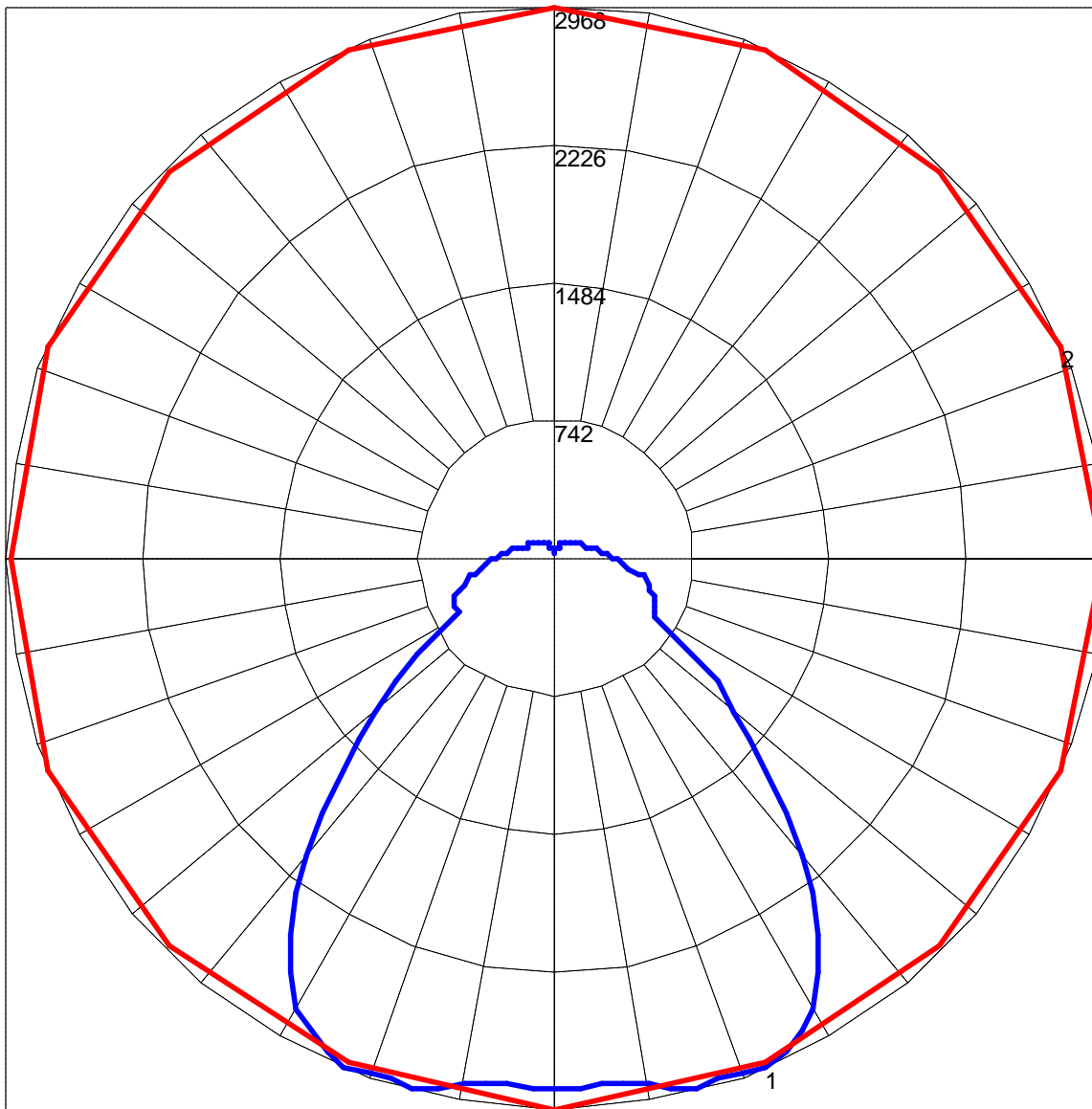
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	98	98	98	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	76	73
2	96	88	82	76	93	85	79	74	80	75	71	75	71	67	70	67	64	62
3	89	78	71	64	85	76	69	63	71	65	60	67	62	58	63	59	56	53
4	82	70	62	55	78	68	60	54	64	58	52	60	55	50	57	52	49	46
5	75	63	55	48	73	61	53	47	58	51	46	55	49	44	52	47	43	41
6	70	57	49	43	67	56	48	42	53	46	41	50	44	39	47	42	38	36
7	65	52	44	38	63	51	43	37	48	41	36	46	40	35	44	38	34	32
8	61	48	40	34	58	47	39	34	44	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	39	33	29	37	32	28	26
10	53	41	33	28	51	40	32	28	38	31	27	36	30	26	35	29	26	24

POLAR GRAPH



Maximum Candela = 2968 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)