



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-50-ACSF16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7865R Report: LSI-PH0245  
[TESTLAB]LSI INDUSTRIES, INC  
[TESTDATE]06/09/16  
[ISSUEDATE]01/16/17  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-14L-50-ACSF16  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[\_SEARCH\_SOURCE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	108
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.32
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	33177	33156	33210
55	24600	24197	24331
65	21796	21650	21505
75	30770	30531	30323
85	64156	63891	63626

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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>
<b>0.0</b>	5320	5320	5320	5320	5320
<b>2.5</b>	5339	5335	5335	5332	5332
<b>5.0</b>	5388	5398	5394	5386	5378
<b>7.5</b>	5465	5457	5448	5449	5452
<b>10.0</b>	5526	5503	5492	5502	5510
<b>12.5</b>	5543	5524	5504	5517	5533
<b>15.0</b>	5539	5520	5498	5511	5530
<b>17.5</b>	5508	5495	5477	5491	5503
<b>20.0</b>	5485	5468	5458	5467	5482
<b>22.5</b>	5454	5444	5434	5441	5446
<b>25.0</b>	5417	5409	5400	5404	5411
<b>27.5</b>	5322	5295	5260	5289	5320
<b>30.0</b>	5088	5067	5065	5072	5088
<b>32.5</b>	4788	4807	4830	4812	4792
<b>35.0</b>	4456	4508	4530	4511	4482
<b>37.5</b>	4143	4180	4224	4186	4161
<b>40.0</b>	3807	3819	3863	3839	3824
<b>42.5</b>	3423	3439	3465	3460	3463
<b>45.0</b>	3046	3045	3044	3056	3049
<b>47.5</b>	2723	2713	2689	2703	2723
<b>50.0</b>	2447	2422	2405	2420	2433
<b>52.5</b>	2161	2136	2105	2129	2154
<b>55.0</b>	1832	1813	1802	1800	1812
<b>57.5</b>	1515	1511	1506	1498	1490
<b>60.0</b>	1257	1277	1286	1262	1248
<b>62.5</b>	1208	1205	1199	1193	1190
<b>65.0</b>	1196	1193	1188	1182	1180
<b>67.5</b>	1173	1170	1164	1159	1156
<b>70.0</b>	1137	1135	1130	1125	1122
<b>72.5</b>	1091	1089	1084	1077	1075
<b>75.0</b>	1034	1032	1026	1020	1019
<b>77.5</b>	963	962	958	955	953
<b>80.0</b>	889	884	882	882	880
<b>82.5</b>	806	805	805	802	803
<b>85.0</b>	726	725	723	723	720
<b>87.5</b>	647	646	645	642	638
<b>90.0</b>	572	572	571	568	565
<b>92.5</b>	512	510	509	507	506
<b>95.0</b>	455	456	455	454	453
<b>97.5</b>	407	406	407	406	405
<b>100.0</b>	364	363	363	362	363
<b>102.5</b>	325	325	325	326	326
<b>105.0</b>	294	294	293	294	294
<b>107.5</b>	266	266	266	266	265
<b>110.0</b>	242	243	242	241	241
<b>112.5</b>	222	222	221	221	221
<b>115.0</b>	203	203	203	203	203
<b>117.5</b>	187	188	188	188	188
<b>120.0</b>	174	175	175	175	176
<b>122.5</b>	163	163	164	164	164
<b>125.0</b>	153	154	154	154	154
<b>127.5</b>	145	145	145	145	145
<b>130.0</b>	138	137	138	138	138
<b>132.5</b>	132	132	132	132	132

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	125	126	126	126	127
<b>137.5</b>	120	121	121	121	122
<b>140.0</b>	116	117	117	117	117
<b>142.5</b>	112	113	113	112	113
<b>145.0</b>	108	109	109	109	109
<b>147.5</b>	105	105	106	105	106
<b>150.0</b>	101	102	102	102	102
<b>152.5</b>	96	98	99	98	98
<b>155.0</b>	91	93	95	94	94
<b>157.5</b>	87	89	90	89	89
<b>160.0</b>	83	85	86	85	85
<b>162.5</b>	78	80	81	81	80
<b>165.0</b>	74	75	76	76	74
<b>167.5</b>	70	70	70	70	69
<b>170.0</b>	64	65	65	64	63
<b>172.5</b>	59	59	59	58	58
<b>175.0</b>	53	53	53	53	54
<b>177.5</b>	47	47	48	48	49
<b>180.0</b>	43	43	43	43	43

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2077.78	N.A.	13.20
0-30	4550.58	N.A.	28.80
0-40	7354.94	N.A.	46.60
0-60	11352.91	N.A.	71.90
0-80	13607.69	N.A.	86.20
0-90	14397.75	N.A.	91.20
10-90	13879.48	N.A.	87.90
20-40	5277.16	N.A.	33.40
20-50	7650.05	N.A.	48.40
40-70	5176.19	N.A.	32.80
60-80	2254.77	N.A.	14.30
70-80	1076.56	N.A.	6.80
80-90	790.06	N.A.	5.00
90-110	815.60	N.A.	5.20
90-120	1019.67	N.A.	6.50
90-130	1158.8	N.A.	7.30
90-150	1325.75	N.A.	8.40
90-180	1396.24	N.A.	8.80
110-180	580.64	N.A.	3.70
0-180	15793.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	518.27
10-20	1559.51
20-30	2472.8
30-40	2804.36
40-50	2372.9
50-60	1625.08
60-70	1178.21
70-80	1076.56
80-90	790.06
90-100	501.10
100-110	314.50
110-120	204.08
120-130	139.13
130-140	98.25
140-150	68.69
150-160	43.52
160-170	21.56
170-180	5.41

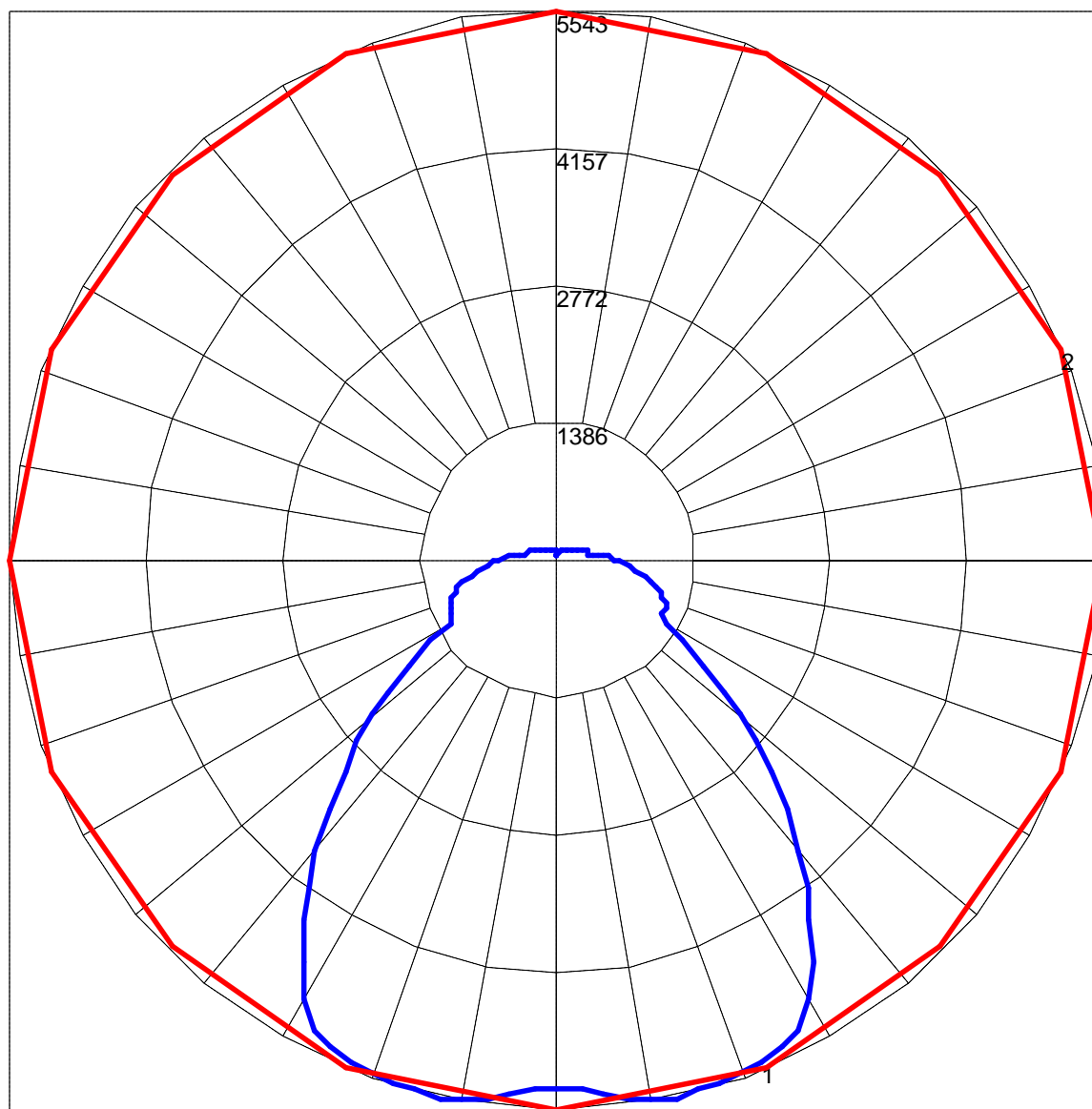
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	92	102	98	94	90	92	89	86	86	84	81	81	79	77	75
2	97	89	82	76	93	86	80	74	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	57	54
4	82	70	62	55	79	68	60	54	65	58	53	61	56	51	58	53	49	47
5	76	63	54	48	73	61	53	47	58	51	46	56	50	45	53	48	44	41
6	70	57	49	42	68	56	48	42	53	46	41	51	44	40	48	43	39	37
7	65	52	44	38	63	51	43	37	49	42	36	46	40	36	44	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	35	31	29
9	57	44	36	31	55	43	35	30	41	34	30	40	33	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

POLAR GRAPH



Maximum Candela = 5543 Located At Horizontal Angle = 0, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)