



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AU-LED-SS-CW-UE-AC16FA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5550  
[TESTLAB]LSI INDUSTRIES  
[ISSUEDATE]05/14/14  
[TESTDATE]05/14/14  
[MANUFAC]LSI INDUSTRIES  
[LUMCAT]AU-LED-SS-CW-UE-AC16FA  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTELUMENS]6602

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	59.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.58
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.38 ft (Diameter)
Luminous Width (90-270)	1.38 ft (Diameter)
Luminous Height	0.92 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5185	4892	5252
55	4035	3641	4081
65	3476	3372	3548
75	3357	3538	3397
85	3921	4301	4022

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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	1076	1076	1076	1076	1076
2.5	1076	1074	1075	1077	1078
5.0	1071	1070	1069	1069	1068
7.5	1058	1067	1069	1065	1057
10.0	1083	1090	1105	1092	1083
12.5	1119	1124	1117	1127	1129
15.0	1171	1169	1166	1169	1172
17.5	1201	1206	1183	1207	1203
20.0	1220	1214	1196	1219	1231
22.5	1220	1231	1220	1245	1245
25.0	1188	1179	1124	1188	1217
27.5	1211	1200	1199	1225	1225
30.0	1181	1167	1108	1189	1208
32.5	1176	1156	1102	1174	1215
35.0	1129	1077	1013	1115	1156
37.5	1088	1052	994	1069	1120
40.0	1029	986	879	1009	1045
42.5	964	907	854	926	977
45.0	936	916	883	935	948
47.5	838	793	718	806	870
50.0	820	803	759	812	829
52.5	778	743	694	760	801
55.0	707	683	638	690	715
57.5	693	684	655	702	702
60.0	639	617	590	626	647
62.5	605	612	584	622	619
65.0	572	567	555	574	584
67.5	548	572	557	575	560
70.0	525	539	536	541	537
72.5	527	540	542	549	534
75.0	500	520	527	522	506
77.5	486	509	518	513	492
80.0	497	518	535	526	500
82.5	482	509	529	515	495
85.0	505	529	554	537	518
87.5	522	547	570	555	531
90.0	494	513	536	520	496
92.5	521	543	565	550	528
95.0	494	518	543	524	496
97.5	482	501	527	503	489
100.0	475	498	527	507	480
102.5	456	485	513	488	465
105.0	459	488	519	496	463
107.5	427	465	497	469	434
110.0	397	432	470	439	409
112.5	383	415	445	422	390
115.0	355	387	430	398	362
117.5	321	356	397	361	335
120.0	297	333	363	337	313
122.5	272	315	350	319	285
125.0	244	279	308	284	255
127.5	215	256	282	261	229
130.0	193	228	255	232	204
132.5	167	197	226	203	177

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	146	172	194	177	157
<b>137.5</b>	124	147	166	151	134
<b>140.0</b>	102	121	137	124	113
<b>142.5</b>	84	96	107	97	90
<b>145.0</b>	66	72	79	75	71
<b>147.5</b>	49	54	58	56	53
<b>150.0</b>	36	39	42	40	39
<b>152.5</b>	26	28	30	29	28
<b>155.0</b>	18	20	21	21	20
<b>157.5</b>	14	15	16	16	16
<b>160.0</b>	12	13	13	13	13
<b>162.5</b>	10	11	12	12	11
<b>165.0</b>	9	10	10	10	10
<b>167.5</b>	7	9	9	9	9
<b>170.0</b>	6	8	8	8	8
<b>172.5</b>	5	6	6	6	6
<b>175.0</b>	4	5	6	5	5
<b>177.5</b>	3	4	4	4	4
<b>180.0</b>	3	3	3	3	3

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	433.56	N.A.	6.60
0-30	988.95	N.A.	15.00
0-40	1672.84	N.A.	25.30
0-60	2982.57	N.A.	45.20
0-80	4110.94	N.A.	62.30
0-90	4686.68	N.A.	71.00
10-90	4584.19	N.A.	69.40
20-40	1239.28	N.A.	18.80
20-50	1917.64	N.A.	29.10
40-70	1884.52	N.A.	28.50
60-80	1128.37	N.A.	17.10
70-80	553.59	N.A.	8.40
80-90	575.73	N.A.	8.70
90-110	1073.08	N.A.	16.30
90-120	1459.94	N.A.	22.10
90-130	1714.89	N.A.	26.00
90-150	1899.99	N.A.	28.80
90-180	1914.3	N.A.	29.00
110-180	841.23	N.A.	12.70
0-180	6600.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.49
10-20	331.07
20-30	555.40
30-40	683.89
40-50	678.36
50-60	631.38
60-70	574.78
70-80	553.59
80-90	575.73
90-100	567.12
100-110	505.96
110-120	386.86
120-130	254.95
130-140	136.00
140-150	49.09
150-160	10.83
160-170	2.93
170-180	0.55

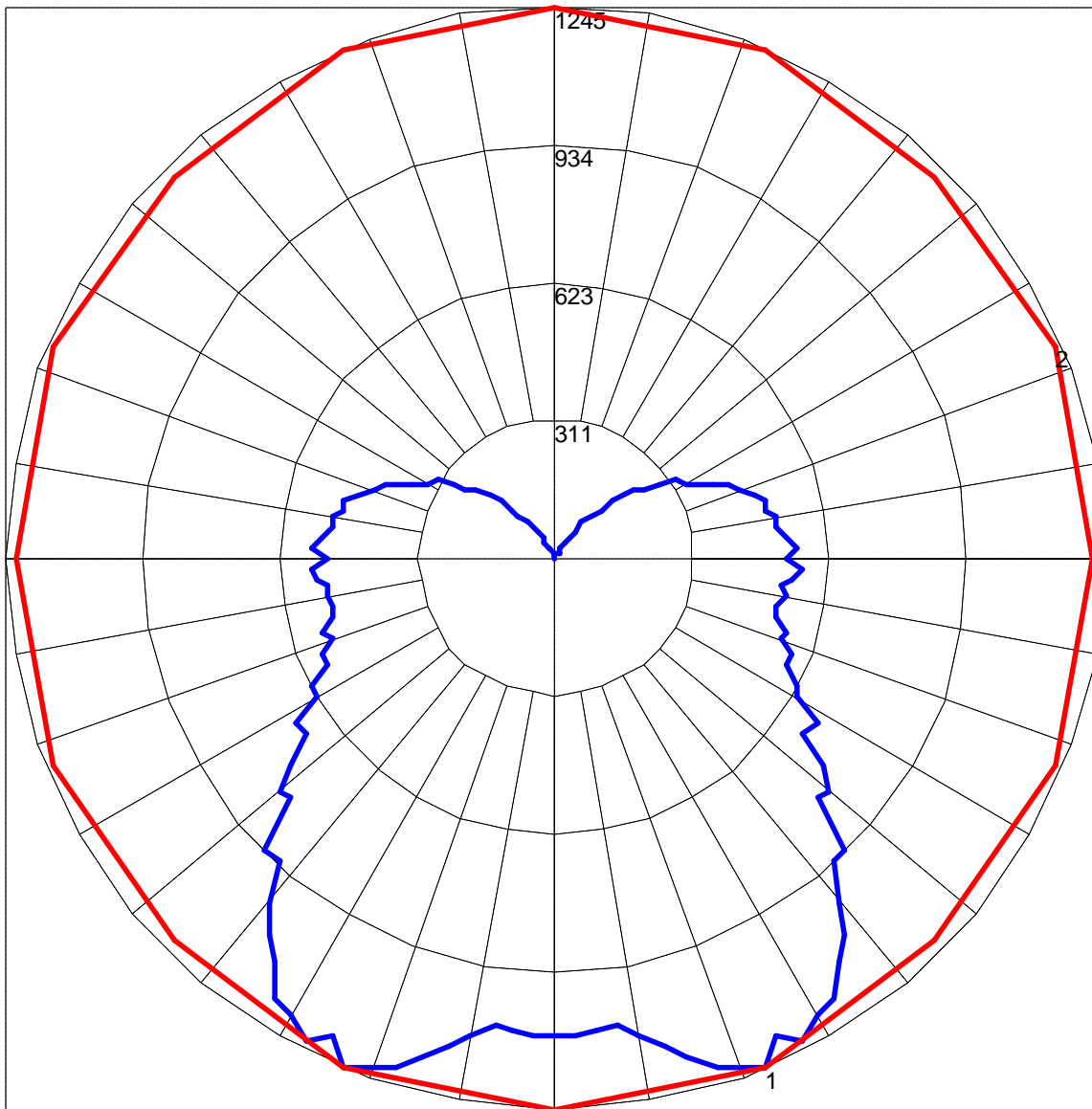
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	99	93	87	83	93	88	83	78	78	74	71	69	66	63	61	59	56	52
2	89	80	72	65	83	75	68	62	67	61	56	59	55	51	52	49	45	42
3	81	69	60	53	76	65	57	51	58	52	46	52	46	42	45	41	38	34
4	74	61	52	45	69	58	49	43	51	44	39	46	40	35	40	36	32	29
5	67	54	45	38	63	51	43	36	46	39	33	41	35	30	36	31	27	25
6	62	48	39	33	58	46	38	31	41	34	29	37	31	26	33	28	24	21
7	57	44	35	29	54	42	33	28	37	30	25	33	28	23	30	25	21	19
8	53	40	31	25	50	38	30	24	34	27	22	31	25	21	27	22	19	17
9	50	36	28	23	47	35	27	22	31	25	20	28	23	18	25	20	17	15
10	46	33	25	20	44	32	24	19	29	22	18	26	21	17	23	19	15	13

POLAR GRAPH



Maximum Candela = 1245 Located At Horizontal Angle = 67.5, Vertical Angle = 22.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)