



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUD-LED-HO-CW-UE-AC16SA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5582  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]05/21/14  
[TEST DATE]05/21/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]AU-LED-HO-CW-UE-AC16SA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]9406

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	84.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 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	7132	7620	6946
55	5693	6033	5490
65	5276	5308	5143
75	5586	5314	5593
85	6512	6030	6681

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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	1474	1474	1474	1474	1474
2.5	1482	1478	1475	1470	1470
5.0	1494	1489	1484	1482	1476
7.5	1510	1505	1501	1494	1475
10.0	1543	1545	1536	1518	1516
12.5	1563	1574	1575	1568	1540
15.0	1642	1651	1637	1636	1626
17.5	1683	1707	1688	1691	1648
20.0	1704	1734	1742	1704	1654
22.5	1685	1740	1729	1716	1664
25.0	1622	1681	1680	1647	1567
27.5	1692	1725	1702	1682	1670
30.0	1551	1651	1678	1621	1529
32.5	1569	1632	1645	1594	1524
35.0	1403	1541	1586	1507	1393
37.5	1412	1494	1545	1468	1365
40.0	1255	1383	1425	1367	1211
42.5	1202	1299	1359	1274	1176
45.0	1228	1292	1312	1275	1196
47.5	1035	1129	1182	1113	990
50.0	1132	1145	1163	1125	1111
52.5	958	1043	1088	1026	945
55.0	954	990	1011	983	920
57.5	917	963	994	955	914
60.0	853	892	909	890	841
62.5	849	876	885	876	847
65.0	833	838	838	835	812
67.5	799	826	817	823	805
70.0	811	809	790	811	809
72.5	793	800	777	802	786
75.0	801	787	762	792	802
77.5	773	761	735	766	776
80.0	809	787	744	787	801
82.5	786	762	726	758	789
85.0	811	787	751	784	832
87.5	830	809	762	801	851
90.0	784	758	719	751	800
92.5	801	770	743	776	823
95.0	793	744	705	744	804
97.5	753	716	688	717	772
100.0	770	722	672	706	759
102.5	715	666	629	662	730
105.0	719	666	623	660	734
107.5	676	637	583	631	698
110.0	655	598	542	587	662
112.5	609	563	520	570	620
115.0	587	536	482	537	597
117.5	555	500	449	496	545
120.0	510	465	416	467	506
122.5	484	440	383	437	485
125.0	441	397	346	394	434
127.5	396	366	309	359	399
130.0	361	325	274	325	357
132.5	323	291	246	286	314

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	286	252	217	251	280
<b>137.5</b>	251	220	192	222	244
<b>140.0</b>	212	186	167	188	202
<b>142.5</b>	169	154	143	154	164
<b>145.0</b>	137	130	122	128	133
<b>147.5</b>	108	102	98	100	104
<b>150.0</b>	82	80	79	79	79
<b>152.5</b>	70	68	66	67	67
<b>155.0</b>	59	58	57	57	57
<b>157.5</b>	52	51	52	51	51
<b>160.0</b>	48	49	49	49	48
<b>162.5</b>	48	48	49	48	48
<b>165.0</b>	47	47	48	47	47
<b>167.5</b>	46	46	47	47	46
<b>170.0</b>	45	45	45	45	45
<b>172.5</b>	43	43	43	43	43
<b>175.0</b>	40	40	41	41	41
<b>177.5</b>	38	38	38	38	38
<b>180.0</b>	36	36	36	36	36

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	607.93	N.A.	6.50
0-30	1385.95	N.A.	14.70
0-40	2336.53	N.A.	24.80
0-60	4173.81	N.A.	44.40
0-80	5836.2	N.A.	62.00
0-90	6685.97	N.A.	71.10
10-90	6542.92	N.A.	69.60
20-40	1728.6	N.A.	18.40
20-50	2675.94	N.A.	28.50
40-70	2672.08	N.A.	28.40
60-80	1662.39	N.A.	17.70
70-80	827.59	N.A.	8.80
80-90	849.77	N.A.	9.00
90-110	1508.65	N.A.	16.00
90-120	2038.7	N.A.	21.70
90-130	2394.35	N.A.	25.50
90-150	2674.02	N.A.	28.40
90-180	2719.71	N.A.	28.90
110-180	1211.06	N.A.	12.90
0-180	9405.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.05
10-20	464.88
20-30	778.02
30-40	950.58
40-50	947.34
50-60	889.94
60-70	834.80
70-80	827.59
80-90	849.77
90-100	812.81
100-110	695.84
110-120	530.05
120-130	355.65
130-140	197.02
140-150	82.65
150-160	28.25
160-170	13.44
170-180	4.01

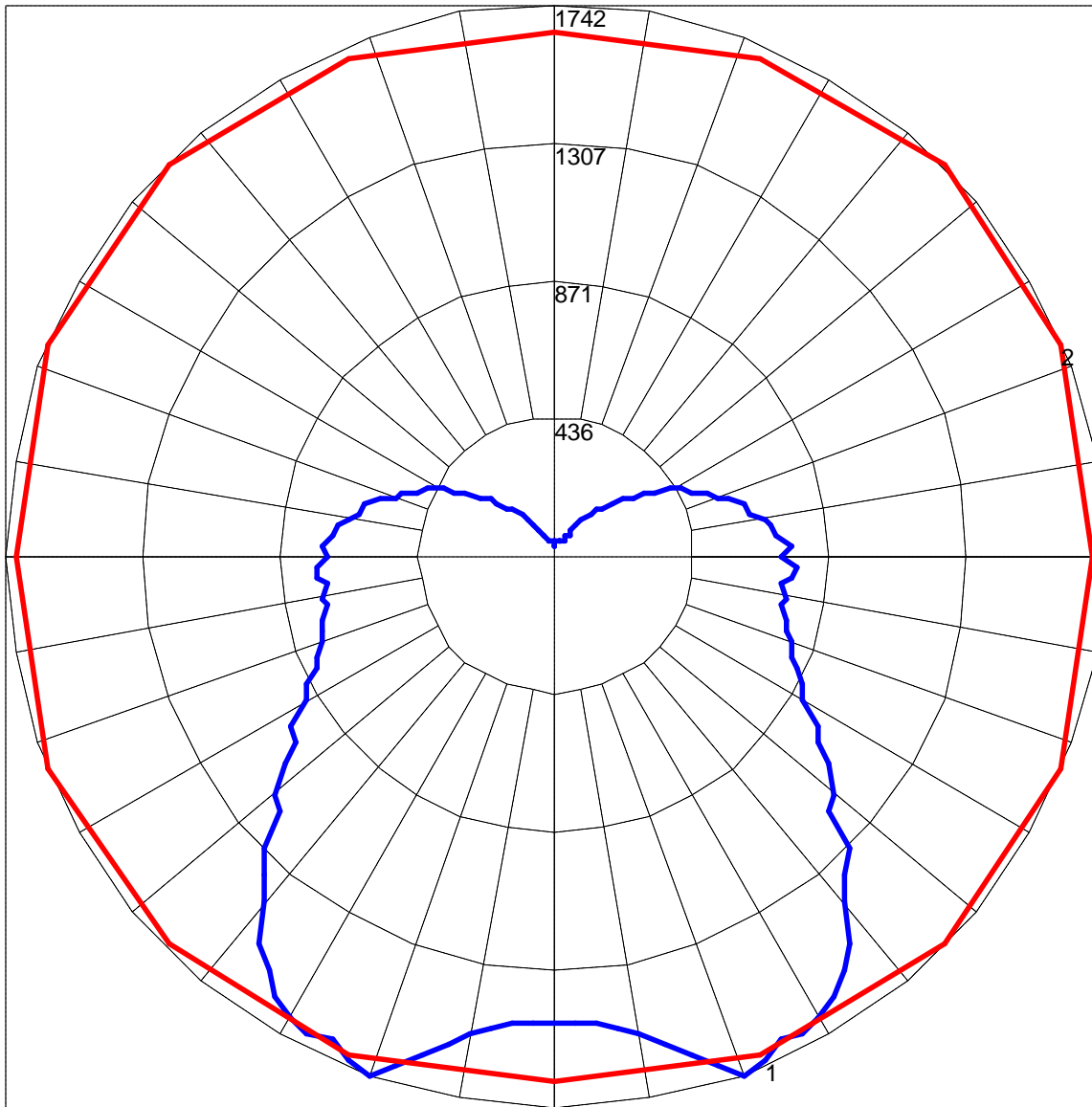
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	82	93	87	82	78	78	74	70	69	66	63	61	58	56	52
2	89	79	71	65	83	75	68	62	66	61	56	59	54	50	52	48	45	41
3	80	69	60	53	75	65	57	50	58	51	46	51	46	41	45	41	37	34
4	73	61	51	44	69	57	49	42	51	44	39	45	40	35	40	35	31	28
5	67	54	44	38	63	51	42	36	45	38	33	40	35	30	36	31	27	24
6	62	48	39	32	58	46	37	31	41	34	29	36	31	26	32	27	24	21
7	57	43	35	28	54	41	33	27	37	30	25	33	27	23	29	25	21	18
8	53	39	31	25	50	37	30	24	34	27	22	30	25	20	27	22	19	16
9	49	36	28	22	47	34	27	21	31	24	20	28	22	18	25	20	17	15
10	46	33	25	20	44	32	24	19	29	22	18	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 1742 Located At Horizontal Angle = 45, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)