



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AU-LED-HO-CW-UE-ACF16SA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5947  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]08/12/14  
[TEST DATE]08/12/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]AU-LED-HO-CW-UE-ACF16SA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]9355

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	79
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	1.70
Spacing Criterion (Diagonal)	1.88
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	1.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5054	5686	5043
55	4715	5328	4715
65	4728	5192	4694
75	4855	5173	4824
85	5361	5513	5326

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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	868	868	868	868	868
2.5	871	871	870	869	868
5.0	892	891	893	891	890
7.5	905	907	914	910	905
10.0	923	926	928	924	920
12.5	932	938	944	939	931
15.0	945	959	966	965	949
17.5	964	983	991	989	974
20.0	986	1011	1019	1018	994
22.5	1013	1044	1050	1049	1022
25.0	1031	1070	1075	1072	1036
27.5	1050	1093	1102	1094	1055
30.0	1062	1111	1128	1111	1062
32.5	1061	1123	1148	1124	1060
35.0	1049	1116	1155	1120	1051
37.5	1021	1096	1144	1099	1007
40.0	990	1071	1120	1069	982
42.5	960	1042	1089	1046	953
45.0	944	1021	1062	1020	942
47.5	913	997	1039	996	912
50.0	908	977	1019	979	902
52.5	884	960	1001	962	876
55.0	870	944	983	946	870
57.5	861	929	967	932	857
60.0	847	915	953	918	849
62.5	838	900	932	898	835
65.0	835	886	917	888	829
67.5	818	872	901	870	813
70.0	816	857	885	857	813
72.5	804	843	867	843	802
75.0	793	828	845	823	788
77.5	788	813	829	812	785
80.0	779	800	813	796	775
82.5	776	791	801	786	769
85.0	778	790	800	787	773
87.5	783	793	802	790	777
90.0	785	795	803	791	779
92.5	786	795	803	792	780
95.0	785	794	802	791	779
97.5	780	789	796	785	775
100.0	772	781	787	777	767
102.5	761	769	775	766	756
105.0	748	755	761	753	743
107.5	732	739	744	736	729
110.0	715	720	724	718	711
112.5	694	699	702	696	689
115.0	672	676	678	672	667
117.5	649	651	653	648	644
120.0	624	625	626	622	619
122.5	597	598	598	596	594
125.0	569	570	570	569	568
127.5	542	542	541	541	541
130.0	515	514	512	512	511
132.5	487	487	484	484	484

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	460	458	455	454	455
<b>137.5</b>	430	429	426	426	426
<b>140.0</b>	402	400	397	397	397
<b>142.5</b>	373	371	368	369	369
<b>145.0</b>	344	342	339	340	340
<b>147.5</b>	317	315	312	312	312
<b>150.0</b>	292	289	288	286	286
<b>152.5</b>	268	266	264	263	262
<b>155.0</b>	245	243	242	241	240
<b>157.5</b>	225	223	222	222	220
<b>160.0</b>	208	206	206	206	205
<b>162.5</b>	191	190	191	190	189
<b>165.0</b>	176	175	176	176	175
<b>167.5</b>	161	161	161	162	162
<b>170.0</b>	146	147	147	148	143
<b>172.5</b>	133	126	126	127	126
<b>175.0</b>	109	112	111	115	114
<b>177.5</b>	94	95	94	92	92
<b>180.0</b>	81	81	81	81	81

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	360.01	N.A.	3.80
0-30	852.40	N.A.	9.10
0-40	1542.02	N.A.	16.50
0-60	3164.55	N.A.	33.80
0-80	4908.61	N.A.	52.50
0-90	5770.99	N.A.	61.70
10-90	5684.9	N.A.	60.80
20-40	1182.02	N.A.	12.60
20-50	1964.53	N.A.	21.00
40-70	2495.17	N.A.	26.70
60-80	1744.06	N.A.	18.60
70-80	871.41	N.A.	9.30
80-90	862.38	N.A.	9.20
90-110	1656.9	N.A.	17.70
90-120	2325.48	N.A.	24.90
90-130	2836.88	N.A.	30.30
90-150	3407.31	N.A.	36.40
90-180	3583.74	N.A.	38.30
110-180	1926.84	N.A.	20.60
0-180	9354.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.09
10-20	273.91
20-30	492.39
30-40	689.62
40-50	782.52
50-60	840.01
60-70	872.65
70-80	871.41
80-90	862.38
90-100	861.43
100-110	795.47
110-120	668.59
120-130	511.39
130-140	354.37
140-150	216.06
150-160	114.07
160-170	50.71
170-180	11.65

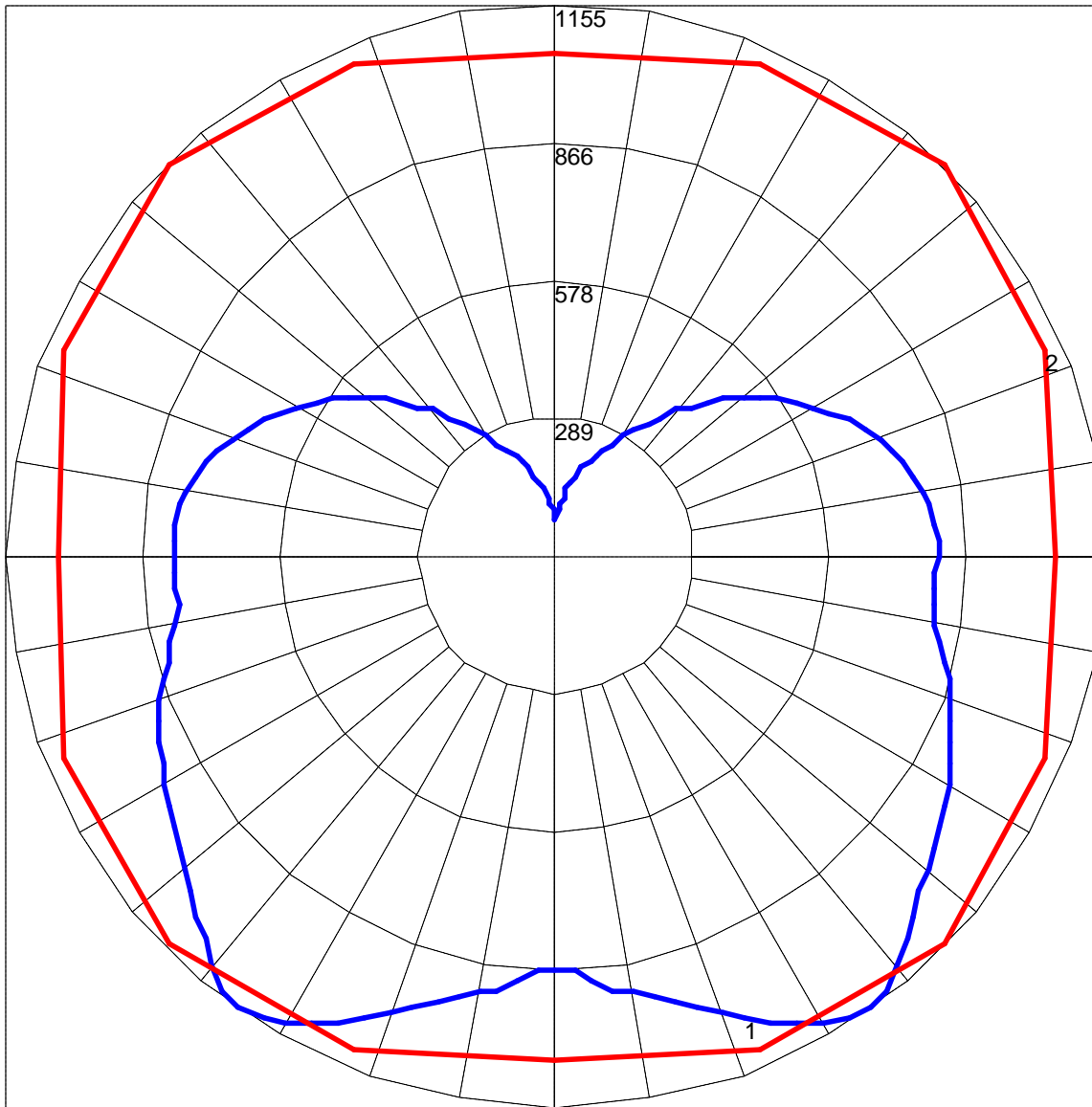
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	96	90	84	79	89	84	79	74	72	68	65	62	59	56	52	50	48	43
2	86	76	68	61	79	71	64	58	61	55	50	52	47	44	44	40	37	33
3	77	66	56	49	71	61	53	46	52	46	41	45	39	35	37	33	30	26
4	70	57	48	40	65	53	45	38	46	39	33	39	33	29	33	28	25	21
5	64	50	41	34	59	47	38	32	41	34	28	35	29	24	29	24	21	18
6	59	45	36	29	54	42	33	27	36	29	24	31	25	21	26	21	18	15
7	54	40	31	25	50	38	29	24	33	26	21	28	22	18	24	19	15	13
8	50	36	28	22	46	34	26	21	30	23	18	25	20	16	21	17	14	11
9	47	33	25	19	43	31	23	18	27	21	16	23	18	14	20	15	12	10
10	44	30	22	17	40	28	21	16	25	19	14	21	16	13	18	14	11	9

POLAR GRAPH



Maximum Candela = 1155 Located At Horizontal Angle = 45, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)