



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5937  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]08/08/14  
[TEST DATE]08/08/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]AU-LED-HO-WW-UE-ACF16SA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]8611

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8611
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	84.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.68
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	4620	5166	4567
55	4314	4862	4407
65	4303	4762	4400
75	4457	4769	4500
85	4947	5085	4975

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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	804	804	804	804	804
2.5	805	805	806	806	806
5.0	822	824	825	824	824
7.5	832	836	838	838	835
10.0	852	852	853	849	846
12.5	860	864	865	860	854
15.0	876	882	882	880	871
17.5	892	905	902	898	887
20.0	908	927	926	925	908
22.5	930	959	953	953	929
25.0	947	976	973	970	944
27.5	964	999	996	991	959
30.0	971	1011	1019	1007	965
32.5	965	1024	1041	1018	973
35.0	958	1014	1040	1016	940
37.5	924	995	1032	997	925
40.0	894	970	1012	974	898
42.5	869	942	986	950	873
45.0	863	929	965	930	853
47.5	830	903	945	908	833
50.0	817	888	923	894	828
52.5	803	873	912	879	811
55.0	796	861	897	869	813
57.5	789	850	885	851	794
60.0	775	835	867	841	796
62.5	771	827	856	826	776
65.0	760	810	841	819	777
67.5	751	799	823	801	755
70.0	746	785	811	793	756
72.5	739	770	794	781	751
75.0	728	759	779	762	735
77.5	718	745	765	752	731
80.0	721	738	745	739	729
82.5	713	728	737	729	718
85.0	718	728	738	731	722
87.5	721	731	741	734	727
90.0	724	732	742	736	729
92.5	726	733	742	737	730
95.0	725	732	740	736	730
97.5	722	728	735	731	727
100.0	715	721	727	724	719
102.5	706	710	716	714	710
105.0	694	697	703	701	698
107.5	679	681	687	686	684
110.0	661	664	669	669	667
112.5	642	644	648	649	648
115.0	621	623	626	626	627
117.5	599	600	603	603	604
120.0	575	576	577	579	580
122.5	551	551	552	555	556
125.0	525	525	527	529	531
127.5	498	498	500	503	505
130.0	473	473	473	477	478
132.5	447	447	447	450	451

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	422	421	421	424	425
<b>137.5</b>	396	395	394	397	399
<b>140.0</b>	370	369	368	371	373
<b>142.5</b>	343	341	342	344	346
<b>145.0</b>	318	316	316	318	320
<b>147.5</b>	292	291	290	293	293
<b>150.0</b>	269	268	268	269	270
<b>152.5</b>	248	247	247	247	248
<b>155.0</b>	227	227	226	225	226
<b>157.5</b>	210	209	208	208	209
<b>160.0</b>	195	194	193	194	194
<b>162.5</b>	181	179	179	180	180
<b>165.0</b>	167	166	166	167	167
<b>167.5</b>	153	153	153	154	153
<b>170.0</b>	141	140	141	141	141
<b>172.5</b>	127	125	127	128	128
<b>175.0</b>	116	116	117	118	118
<b>177.5</b>	102	102	103	102	103
<b>180.0</b>	89	89	89	89	89

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	330.27	N.A.	3.80
0-30	778.34	N.A.	9.00
0-40	1403.97	N.A.	16.30
0-60	2883.26	N.A.	33.50
0-80	4488.44	N.A.	52.10
0-90	5286.16	N.A.	61.40
10-90	5206.79	N.A.	60.50
20-40	1073.7	N.A.	12.50
20-50	1784.77	N.A.	20.70
40-70	2281.22	N.A.	26.50
60-80	1605.18	N.A.	18.60
70-80	803.26	N.A.	9.30
80-90	797.72	N.A.	9.30
90-110	1536.3	N.A.	17.80
90-120	2156.02	N.A.	25.00
90-130	2629.43	N.A.	30.50
90-150	3158.35	N.A.	36.70
90-180	3324.83	N.A.	38.60
110-180	1788.53	N.A.	20.80
0-180	8610.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.38
10-20	250.89
20-30	448.07
30-40	625.63
40-50	711.07
50-60	768.23
60-70	801.92
70-80	803.26
80-90	797.72
90-100	798.32
100-110	737.98
110-120	619.72
120-130	473.41
130-140	328.07
140-150	200.86
150-160	106.70
160-170	48.01
170-180	11.76

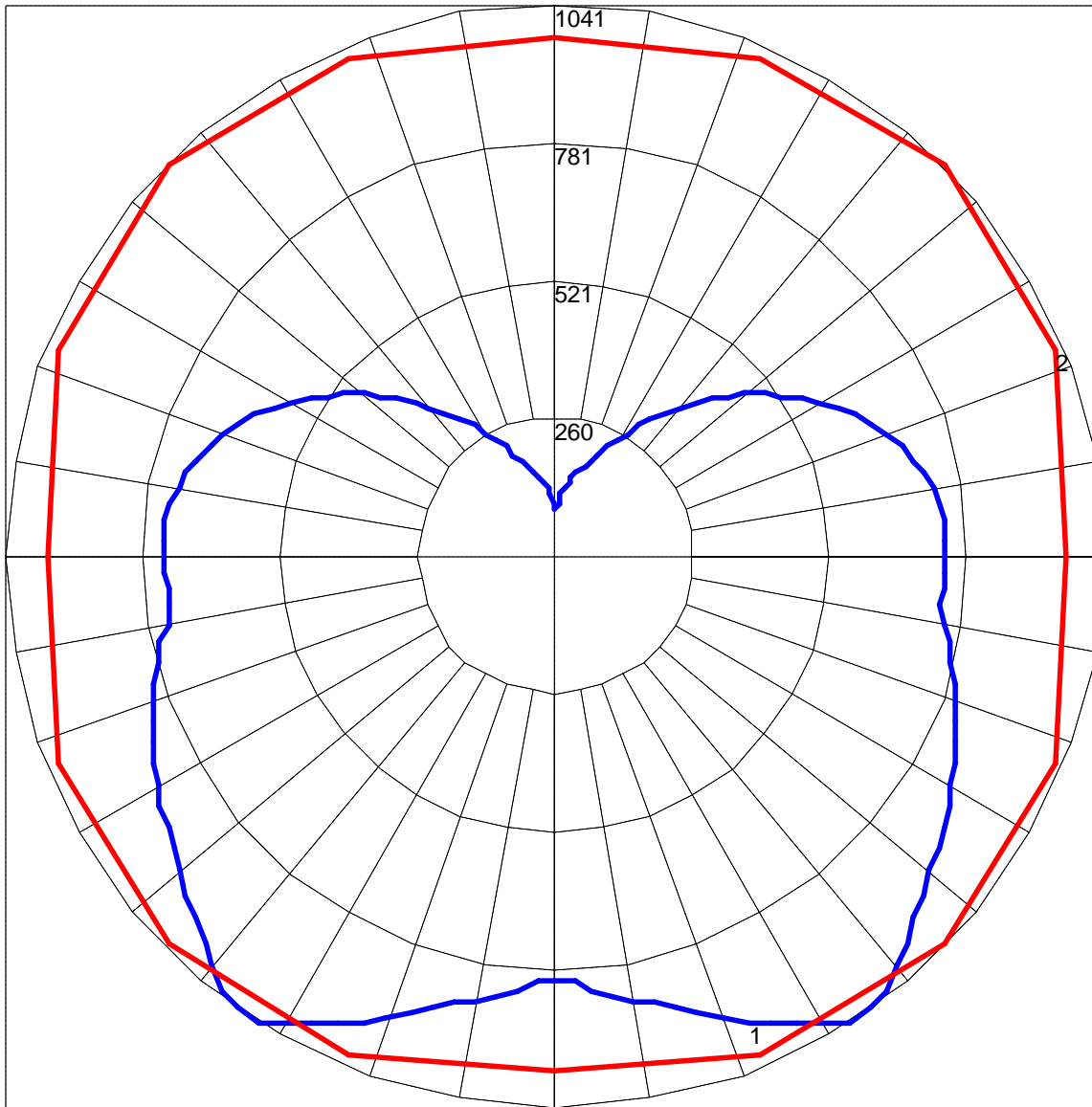
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	61
1	96	90	84	79	89	83	78	74	72	68	65	62	59	56	52	50	47	43
2	86	76	68	61	79	71	63	57	61	55	50	52	47	43	43	40	37	32
3	77	65	56	49	71	61	53	46	52	46	40	44	39	35	37	33	30	26
4	70	57	48	40	65	53	45	38	46	39	33	39	33	29	32	28	24	21
5	64	50	41	34	59	47	38	32	40	33	28	34	29	24	29	24	21	17
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	23	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 = 1041 Located At Horizontal Angle = 45, Vertical Angle = 32.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)