



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AU-LED-HO-CW-UE-ACF16FA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5945  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]08/12/14  
[TEST DATE]08/12/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]AU-LED-HO-CW-UE-ACF16FA  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]9482

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	79
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
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	1.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5377	6017	5299
55	5044	5612	4948
65	4909	5411	4861
75	5177	5373	5034
85	5763	5904	5726

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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	877	877	877	877	877
2.5	879	878	879	878	878
5.0	900	898	901	900	897
7.5	913	914	921	918	914
10.0	931	935	937	932	927
12.5	943	949	954	950	942
15.0	959	972	978	975	958
17.5	978	998	1004	1002	986
20.0	1003	1027	1034	1034	1009
22.5	1032	1062	1068	1066	1040
25.0	1049	1086	1091	1089	1053
27.5	1067	1107	1119	1113	1070
30.0	1089	1134	1147	1133	1087
32.5	1098	1156	1177	1153	1087
35.0	1063	1141	1180	1140	1056
37.5	1019	1119	1167	1123	1015
40.0	994	1094	1139	1097	991
42.5	961	1065	1108	1066	958
45.0	965	1032	1080	1039	951
47.5	933	1007	1049	1011	924
50.0	911	989	1032	993	907
52.5	895	971	1014	971	895
55.0	888	951	988	957	871
57.5	864	937	970	938	862
60.0	848	913	950	916	842
62.5	840	896	925	900	836
65.0	821	873	905	874	813
67.5	806	860	890	862	832
70.0	794	840	860	835	791
72.5	801	828	845	830	789
75.0	794	806	824	805	772
77.5	775	792	805	790	770
80.0	766	781	798	788	768
82.5	767	778	786	774	761
85.0	777	787	796	784	772
87.5	788	798	806	794	782
90.0	795	805	814	802	790
92.5	801	811	820	807	795
95.0	803	813	822	809	797
97.5	801	810	819	807	796
100.0	796	804	812	801	790
102.5	786	794	801	792	781
105.0	774	782	788	779	769
107.5	759	766	772	763	753
110.0	742	747	752	744	736
112.5	722	726	730	723	716
115.0	698	702	705	699	693
117.5	673	676	679	674	670
120.0	647	650	651	648	644
122.5	620	622	622	619	616
125.0	592	593	593	590	587
127.5	563	563	562	560	559
130.0	535	534	531	531	530
132.5	504	503	500	501	502

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	473	472	470	471	472
<b>137.5</b>	443	442	439	439	441
<b>140.0</b>	414	412	409	409	408
<b>142.5</b>	384	382	378	378	376
<b>145.0</b>	354	352	348	347	347
<b>147.5</b>	326	323	319	318	318
<b>150.0</b>	298	295	293	292	292
<b>152.5</b>	273	270	268	268	268
<b>155.0</b>	248	246	245	245	244
<b>157.5</b>	227	225	225	224	224
<b>160.0</b>	209	208	208	207	207
<b>162.5</b>	193	191	192	191	189
<b>165.0</b>	177	176	177	176	175
<b>167.5</b>	162	161	161	162	162
<b>170.0</b>	147	147	147	148	148
<b>172.5</b>	133	132	132	133	132
<b>175.0</b>	121	121	121	121	120
<b>177.5</b>	107	107	106	105	105
<b>180.0</b>	93	93	93	93	93

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	364.26	N.A.	3.80
0-30	864.81	N.A.	9.10
0-40	1568.37	N.A.	16.50
0-60	3208.88	N.A.	33.80
0-80	4926.06	N.A.	52.00
0-90	5785.33	N.A.	61.00
10-90	5698.47	N.A.	60.10
20-40	1204.11	N.A.	12.70
20-50	1998.1	N.A.	21.10
40-70	2504.55	N.A.	26.40
60-80	1717.18	N.A.	18.10
70-80	853.13	N.A.	9.00
80-90	859.26	N.A.	9.10
90-110	1704.48	N.A.	18.00
90-120	2399.2	N.A.	25.30
90-130	2930.31	N.A.	30.90
90-150	3518.04	N.A.	37.10
90-180	3696.98	N.A.	39.00
110-180	1992.51	N.A.	21.00
0-180	9482.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.86
10-20	277.41
20-30	500.55
30-40	703.56
40-50	793.99
50-60	846.51
60-70	864.05
70-80	853.13
80-90	859.26
90-100	881.46
100-110	823.01
110-120	694.72
120-130	531.11
130-140	366.21
140-150	221.52
150-160	115.77
160-170	50.94
170-180	12.24

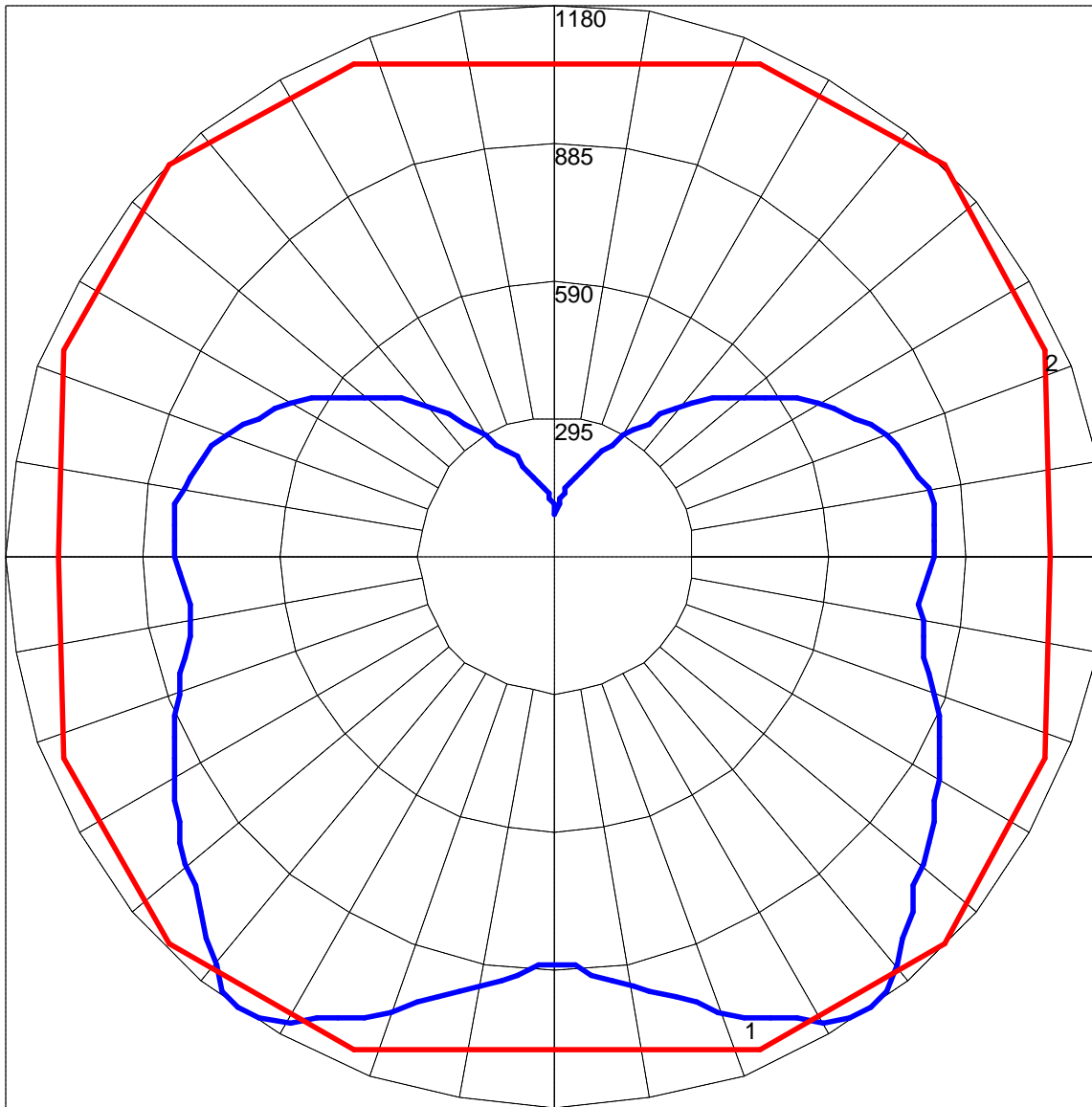
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	89	89	77	77	77	66	66	66	61
1	96	90	84	79	89	84	79	74	72	68	65	62	59	56	52	50	47	43
2	86	76	68	61	79	71	64	58	61	55	50	52	47	44	43	40	37	33
3	77	66	57	49	71	61	53	46	52	46	41	45	39	35	37	33	30	26
4	70	57	48	41	65	53	45	38	46	39	34	39	33	29	32	28	25	21
5	64	51	41	34	59	47	39	32	41	34	28	35	29	25	29	24	21	18
6	59	45	36	29	54	42	34	28	36	29	24	31	25	21	26	21	18	15
7	54	40	31	25	50	38	30	24	33	26	21	28	22	18	23	19	15	13
8	50	37	28	22	46	34	26	21	30	23	18	25	20	16	21	17	14	11
9	47	33	25	19	43	31	24	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 = 1180 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.)