



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5941
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]08/12/14
[TEST DATE]08/12/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]AU-LED-HO-NW-UE-ACF16FA
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]8820

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	83.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.72
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	4931	5555	4897
55	4596	5181	4579
65	4550	5035	4568
75	4734	5008	4688
85	5355	5496	5377

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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	820	820	820	820	820
2.5	821	821	822	822	821
5.0	838	840	842	841	838
7.5	848	853	857	854	849
10.0	863	866	872	871	869
12.5	877	880	886	885	879
15.0	890	903	905	903	893
17.5	912	925	928	926	913
20.0	931	950	952	955	933
22.5	959	980	982	987	959
25.0	972	997	1001	1004	973
27.5	988	1021	1026	1025	989
30.0	1001	1040	1053	1041	1004
32.5	1004	1060	1079	1065	1002
35.0	979	1049	1087	1053	980
37.5	948	1031	1072	1033	959
40.0	925	1007	1051	1008	938
42.5	898	979	1023	975	910
45.0	885	960	997	957	879
47.5	855	933	974	930	853
50.0	846	916	951	918	843
52.5	835	899	938	898	835
55.0	809	882	912	880	806
57.5	815	871	900	869	834
60.0	787	847	880	841	788
62.5	788	839	858	840	795
65.0	761	807	842	804	764
67.5	776	807	822	807	776
70.0	738	775	803	772	738
72.5	742	773	786	770	743
75.0	726	749	768	744	719
77.5	721	736	745	736	720
80.0	715	736	747	732	719
82.5	712	723	730	722	714
85.0	722	731	741	733	725
87.5	731	741	750	743	735
90.0	739	749	758	750	742
92.5	745	754	763	756	748
95.0	747	756	765	758	751
97.5	746	754	763	756	749
100.0	740	749	756	750	744
102.5	732	740	747	741	735
105.0	721	728	734	729	724
107.5	707	713	719	715	710
110.0	690	696	700	697	694
112.5	671	675	680	678	674
115.0	649	653	657	655	653
117.5	627	630	633	631	629
120.0	602	605	607	605	603
122.5	577	579	579	579	577
125.0	551	551	552	552	551
127.5	524	523	523	524	524
130.0	495	495	495	496	497
132.5	468	467	466	467	469

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CANDELA TABULATION - (Cont.)

135.0	441	440	438	439	440
137.5	413	412	410	411	412
140.0	386	385	382	383	384
142.5	358	355	354	355	356
145.0	331	328	326	327	329
147.5	302	301	300	301	303
150.0	277	276	275	276	278
152.5	254	253	252	253	255
155.0	233	231	231	231	233
157.5	214	213	212	212	214
160.0	198	197	197	197	197
162.5	183	182	183	182	182
165.0	170	169	169	169	168
167.5	157	155	155	156	155
170.0	143	143	142	142	141
172.5	129	128	127	128	128
175.0	118	118	117	118	119
177.5	101	102	103	103	106
180.0	89	89	89	89	89

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	338.22	N.A.	3.80
0-30	799.48	N.A.	9.10
0-40	1448.02	N.A.	16.40
0-60	2966.83	N.A.	33.60
0-80	4564.95	N.A.	51.80
0-90	5366.11	N.A.	60.80
10-90	5285.13	N.A.	59.90
20-40	1109.81	N.A.	12.60
20-50	1843.65	N.A.	20.90
40-70	2323.52	N.A.	26.30
60-80	1598.12	N.A.	18.10
70-80	793.40	N.A.	9.00
80-90	801.16	N.A.	9.10
90-110	1591.36	N.A.	18.00
90-120	2239.98	N.A.	25.40
90-130	2735.19	N.A.	31.00
90-150	3284.33	N.A.	37.20
90-180	3454.07	N.A.	39.20
110-180	1862.71	N.A.	21.10
0-180	8820.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.98
10-20	257.24
20-30	461.26
30-40	648.55
40-50	733.84
50-60	784.96
60-70	804.72
70-80	793.40
80-90	801.16
90-100	822.75
100-110	768.61
110-120	648.62
120-130	495.21
130-140	341.45
140-150	207.69
150-160	109.16
160-170	48.73
170-180	11.85

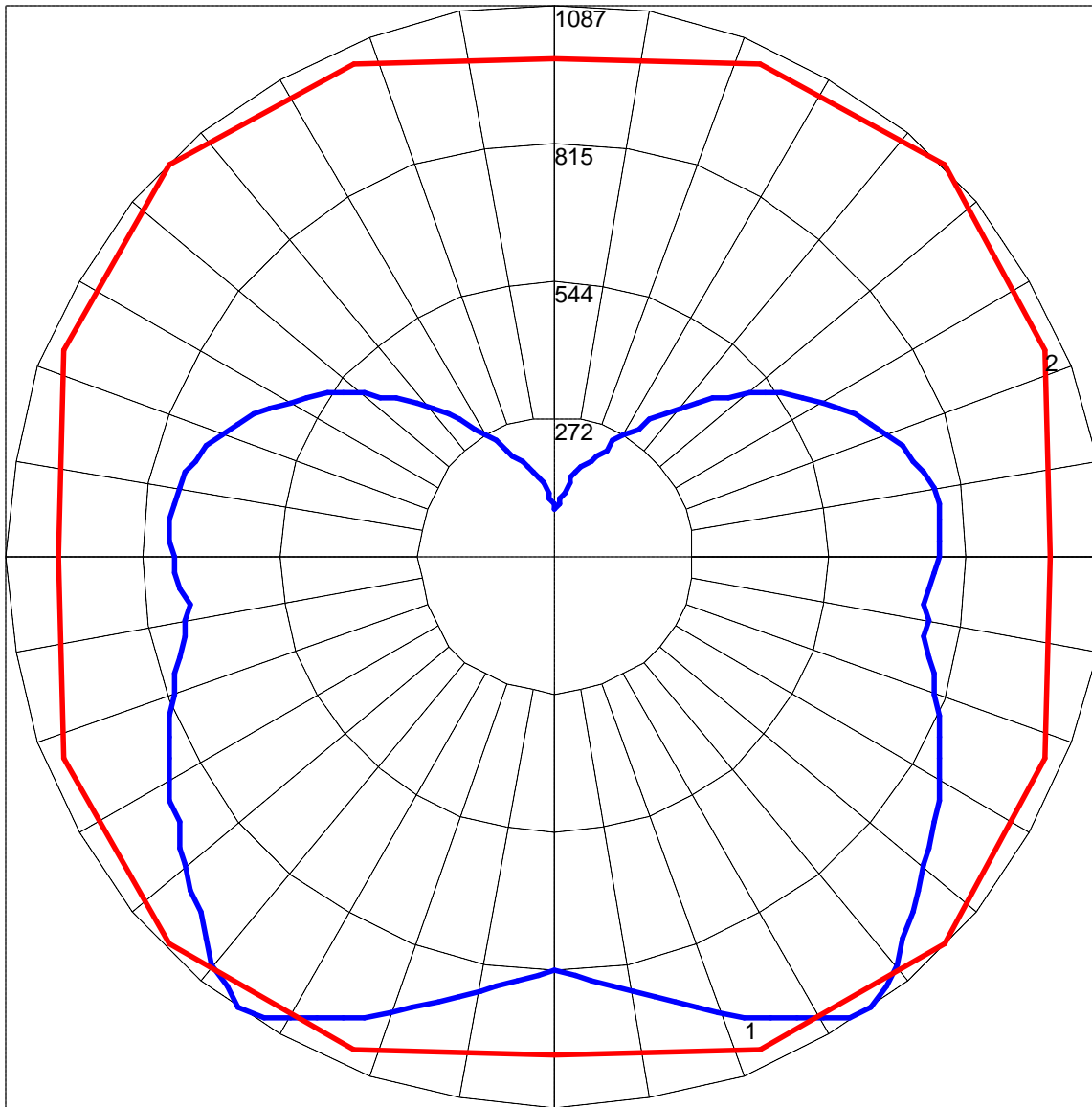
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	61	58	56	52	49	47	42
2	86	76	68	61	79	71	64	58	61	55	50	52	47	43	43	40	37	32
3	77	66	57	49	71	61	53	46	52	46	41	44	39	35	37	33	30	26
4	70	57	48	41	65	53	45	38	46	39	34	39	33	29	32	28	24	21
5	64	51	41	34	59	47	39	32	41	34	28	34	29	24	29	24	21	17
6	59	45	36	29	54	42	34	27	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	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 = 1087 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.)