



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AU-LED-HO-NW-UE-AC16.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5577
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]05/21/14
[TEST DATE]05/21/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]AU-LED-HO-NW-UE-AC16
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]8697

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	83.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.56
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	6946	7521	7179
55	5502	5985	5293
65	5029	5340	5194
75	5335	5168	5231
85	5653	5131	5870

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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	1453	1453	1453	1453	1453
2.5	1455	1452	1451	1451	1451
5.0	1452	1446	1440	1426	1424
7.5	1451	1443	1431	1429	1431
10.0	1494	1474	1467	1468	1470
12.5	1521	1526	1521	1524	1509
15.0	1592	1594	1578	1566	1548
17.5	1624	1638	1617	1633	1614
20.0	1611	1648	1646	1649	1615
22.5	1646	1674	1659	1671	1656
25.0	1538	1608	1629	1597	1521
27.5	1611	1635	1634	1617	1616
30.0	1492	1569	1605	1601	1520
32.5	1494	1574	1599	1559	1485
35.0	1372	1478	1542	1503	1403
37.5	1391	1458	1514	1440	1324
40.0	1182	1360	1408	1386	1295
42.5	1176	1271	1339	1255	1160
45.0	1196	1276	1295	1287	1236
47.5	1006	1106	1178	1136	1039
50.0	1096	1130	1142	1112	1046
52.5	949	1036	1095	1079	1018
55.0	922	988	1003	976	887
57.5	923	966	994	987	963
60.0	835	898	917	905	863
62.5	849	880	888	896	866
65.0	794	835	843	839	820
67.5	793	822	809	846	828
70.0	782	792	783	798	773
72.5	763	777	754	806	802
75.0	765	762	741	769	750
77.5	726	712	692	742	754
80.0	757	734	703	748	766
82.5	693	658	630	684	703
85.0	704	665	639	700	731
87.5	722	683	654	704	741
90.0	692	643	617	654	697
92.5	703	657	635	687	721
95.0	686	631	607	650	694
97.5	660	606	588	625	668
100.0	661	596	569	606	656
102.5	618	554	531	568	617
105.0	624	551	527	579	628
107.5	575	518	487	554	597
110.0	551	480	447	500	564
112.5	511	464	428	486	523
115.0	497	435	389	462	504
117.5	459	401	359	418	468
120.0	416	367	330	391	430
122.5	389	350	299	370	421
125.0	352	310	271	327	366
127.5	315	283	241	300	329
130.0	284	250	213	268	302
132.5	248	218	187	236	264

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CANDELA TABULATION - (Cont.)

135.0	212	189	163	202	231
137.5	179	161	135	173	196
140.0	142	124	106	134	152
142.5	102	90	81	97	110
145.0	70	62	58	67	72
147.5	43	40	38	43	45
150.0	27	24	23	26	27
152.5	15	14	13	15	15
155.0	7	7	6	7	8
157.5	3	3	3	3	3
160.0	2	2	2	2	2
162.5	2	2	2	2	2
165.0	2	2	2	2	2
167.5	2	2	2	2	2
170.0	2	2	3	3	2
172.5	2	3	3	3	3
175.0	3	3	3	3	3
177.5	2	2	2	2	2
180.0	1	1	1	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	585.89	N.A.	6.70
0-30	1335.23	N.A.	15.40
0-40	2264.52	N.A.	26.00
0-60	4098.00	N.A.	47.10
0-80	5733.03	N.A.	65.90
0-90	6479.1	N.A.	74.50
10-90	6340.99	N.A.	72.90
20-40	1678.62	N.A.	19.30
20-50	2618.46	N.A.	30.10
40-70	2669.85	N.A.	30.70
60-80	1635.03	N.A.	18.80
70-80	798.65	N.A.	9.20
80-90	746.07	N.A.	8.60
90-110	1289.68	N.A.	14.80
90-120	1729.11	N.A.	19.90
90-130	2016.43	N.A.	23.20
90-150	2212.18	N.A.	25.40
90-180	2217.68	N.A.	25.50
110-180	928.00	N.A.	10.70
0-180	8696.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.12
10-20	447.78
20-30	749.34
30-40	929.29
40-50	939.83
50-60	893.64
60-70	836.38
70-80	798.66
80-90	746.07
90-100	700.49
100-110	589.19
110-120	439.43
120-130	287.32
130-140	151.20
140-150	44.55
150-160	4.66
160-170	0.58
170-180	0.25

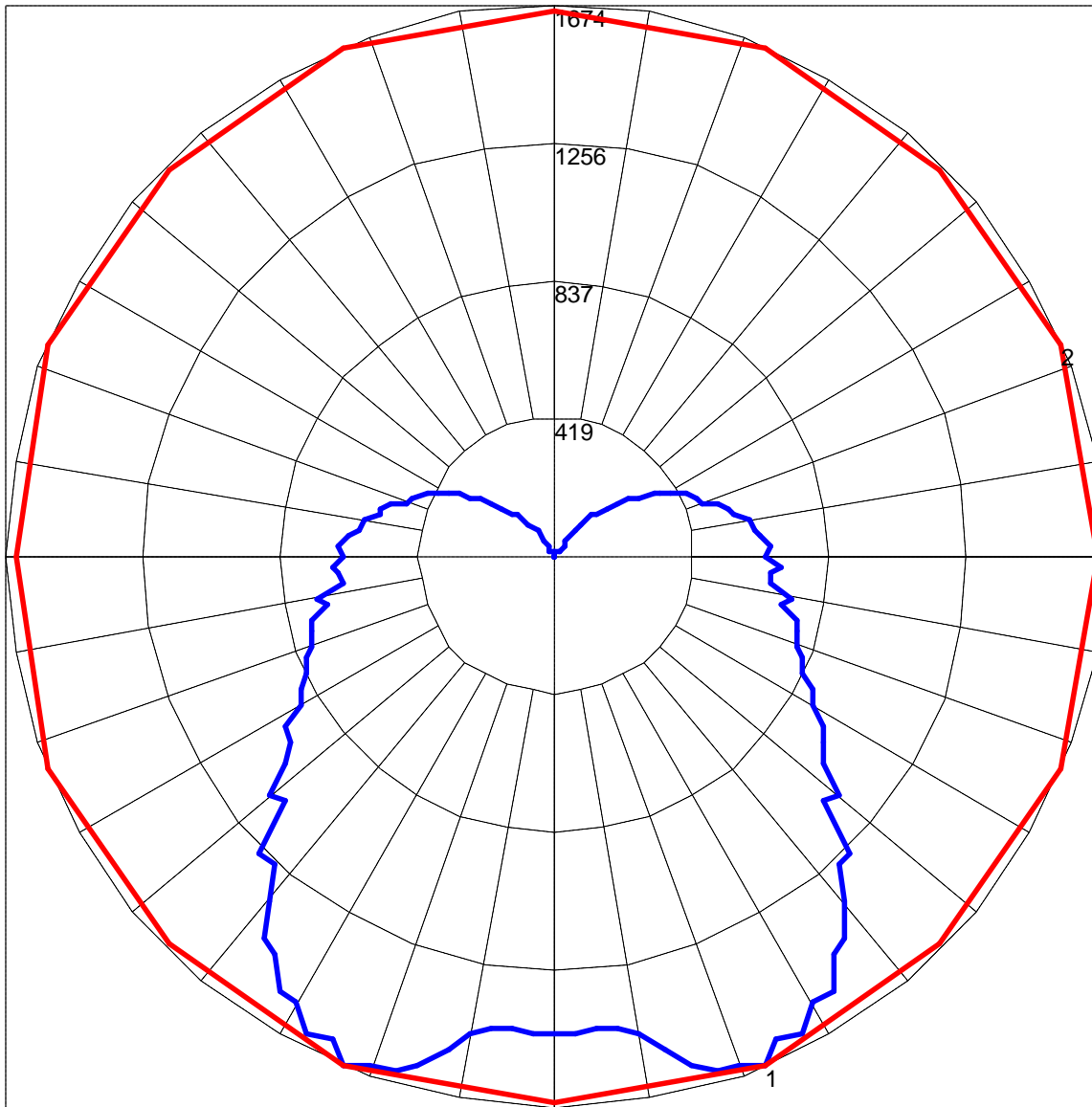
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	100	93	88	83	94	89	84	79	80	76	72	71	68	65	64	61	59	55
2	89	80	72	65	84	76	69	63	68	62	57	61	56	52	54	51	47	44
3	81	69	60	53	76	66	58	51	59	52	47	53	48	43	47	43	39	36
4	74	61	52	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30
5	68	54	45	38	64	51	43	36	46	39	34	42	36	31	37	32	28	25
6	62	48	39	33	59	46	38	31	42	35	29	38	32	27	34	29	25	22
7	58	44	35	28	54	42	33	27	38	31	26	34	28	24	31	26	22	19
8	53	40	31	25	50	38	30	24	34	28	23	31	25	21	28	23	19	17
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	26	21	17	15
10	47	33	25	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

POLAR GRAPH



Maximum Candela = 1674 Located At Horizontal Angle = 22.5, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)