



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AU-LED-HO-NW-UE-AC16SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5576
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]05/21/14
[TEST DATE]05/21/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]AU-LED-HO-NW-UE-AC16SA
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]8274

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8274
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	83.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.46
Spacing Criterion (Diagonal)	1.54
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	6203	6610	6244
55	4870	5287	4810
65	4649	4649	4541
75	4959	4652	4952
85	5894	5259	5966

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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	1314	1314	1314	1314	1314
2.5	1314	1314	1312	1313	1314
5.0	1317	1312	1309	1299	1301
7.5	1316	1311	1306	1305	1307
10.0	1343	1333	1330	1334	1343
12.5	1374	1383	1378	1376	1355
15.0	1435	1444	1434	1421	1420
17.5	1471	1485	1475	1485	1458
20.0	1458	1496	1502	1500	1471
22.5	1484	1514	1507	1510	1491
25.0	1393	1457	1480	1439	1381
27.5	1468	1476	1487	1479	1482
30.0	1352	1426	1458	1425	1365
32.5	1360	1402	1437	1410	1357
35.0	1227	1325	1379	1330	1237
37.5	1218	1288	1340	1298	1218
40.0	1082	1209	1243	1209	1078
42.5	1036	1120	1179	1128	1055
45.0	1068	1126	1138	1130	1075
47.5	903	981	1029	987	897
50.0	960	992	1010	1000	971
52.5	844	914	953	920	845
55.0	816	867	886	863	806
57.5	812	843	863	852	819
60.0	756	789	799	786	747
62.5	742	771	773	779	748
65.0	734	739	734	742	717
67.5	709	726	715	738	712
70.0	718	715	692	724	716
72.5	702	708	678	715	703
75.0	711	696	667	704	710
77.5	696	673	646	681	690
80.0	728	691	651	699	728
82.5	713	671	635	683	703
85.0	734	689	655	705	743
87.5	751	706	671	718	755
90.0	716	661	629	666	707
92.5	730	676	654	697	744
95.0	710	652	624	662	706
97.5	686	629	603	637	682
100.0	686	616	589	625	678
102.5	646	579	553	588	636
105.0	657	579	548	598	651
107.5	609	547	511	576	620
110.0	582	510	473	523	589
112.5	540	493	456	510	549
115.0	525	467	418	487	528
117.5	494	432	389	445	498
120.0	453	400	361	419	457
122.5	423	380	330	399	447
125.0	387	342	301	355	392
127.5	345	313	269	325	356
130.0	311	279	240	291	327
132.5	277	246	213	259	288

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CANDELA TABULATION - (Cont.)

135.0	240	217	189	227	252
137.5	207	188	168	200	223
140.0	179	161	147	170	182
142.5	144	133	125	140	149
145.0	117	109	104	113	119
147.5	87	85	82	86	89
150.0	67	66	66	68	70
152.5	56	55	55	56	57
155.0	48	47	46	47	48
157.5	42	41	42	42	42
160.0	40	40	40	40	39
162.5	39	39	39	39	39
165.0	38	38	38	38	38
167.5	37	38	38	38	38
170.0	36	36	36	36	36
172.5	34	34	34	34	34
175.0	32	32	33	33	32
177.5	30	30	30	30	30
180.0	28	28	28	28	28

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	531.76	N.A.	6.40
0-30	1211.11	N.A.	14.60
0-40	2041.49	N.A.	24.70
0-60	3653.35	N.A.	44.20
0-80	5122.8	N.A.	61.90
0-90	5876.39	N.A.	71.00
10-90	5750.9	N.A.	69.50
20-40	1509.73	N.A.	18.20
20-50	2339.3	N.A.	28.30
40-70	2348.67	N.A.	28.40
60-80	1469.46	N.A.	17.80
70-80	732.64	N.A.	8.90
80-90	753.59	N.A.	9.10
90-110	1334.3	N.A.	16.10
90-120	1802.02	N.A.	21.80
90-130	2115.54	N.A.	25.60
90-150	2359.93	N.A.	28.50
90-180	2397.26	N.A.	29.00
110-180	1062.96	N.A.	12.80
0-180	8273.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.50
10-20	406.27
20-30	679.35
30-40	830.38
40-50	829.57
50-60	782.28
60-70	736.82
70-80	732.64
80-90	753.59
90-100	719.70
100-110	614.60
110-120	467.72
120-130	313.52
130-140	172.78
140-150	71.61
150-160	23.27
160-170	10.88
170-180	3.19

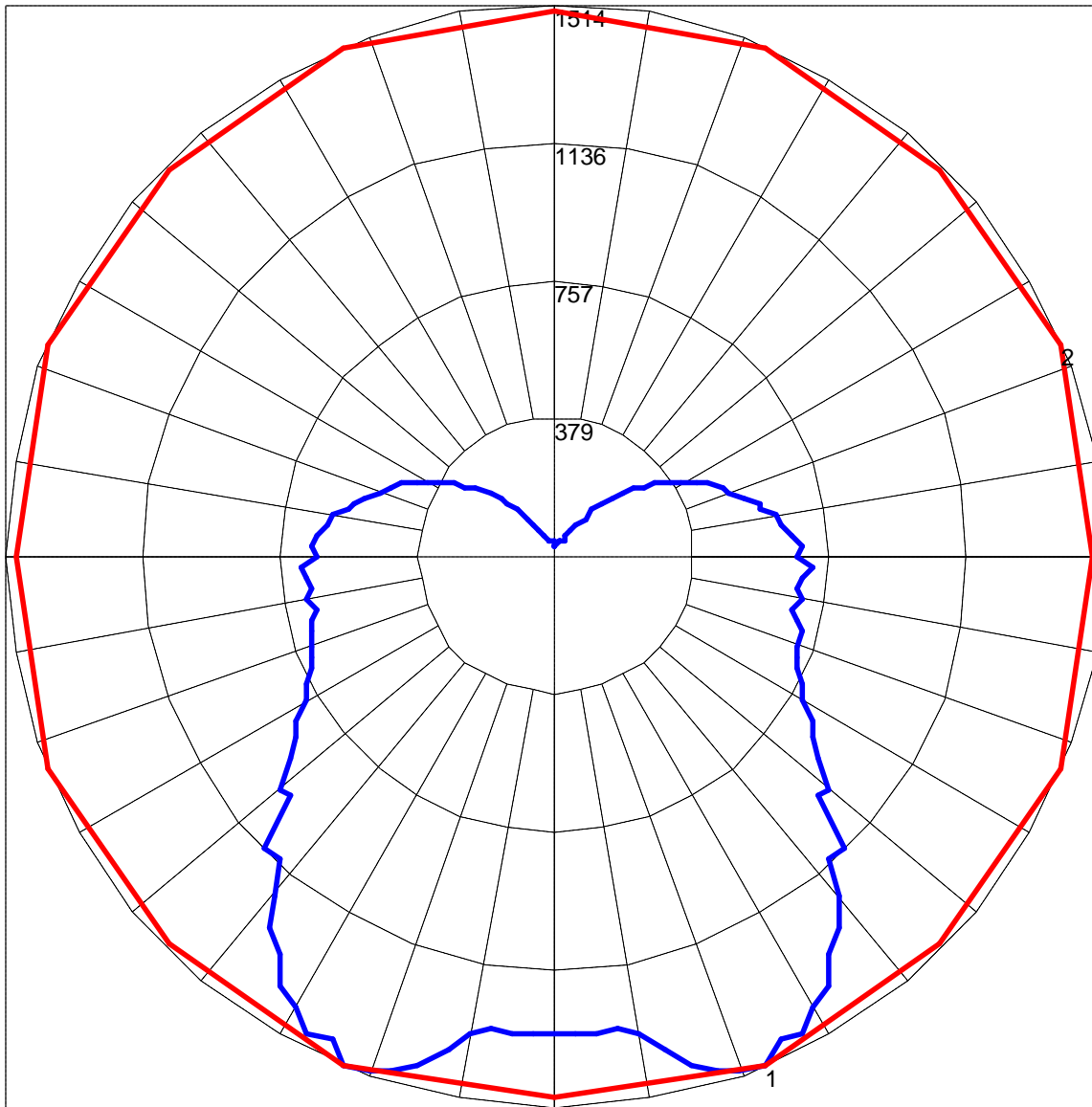
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	99	92	87	82	93	87	82	78	78	74	70	69	66	63	61	58	56	52
2	89	79	71	65	83	75	68	62	66	61	56	59	54	50	52	48	45	41
3	80	69	60	53	75	65	57	50	58	51	46	51	46	41	45	41	37	34
4	73	60	51	44	69	57	49	42	51	44	38	45	39	35	40	35	31	28
5	67	54	44	37	63	51	42	36	45	38	33	40	34	30	36	31	27	24
6	62	48	39	32	58	46	37	31	41	34	28	36	30	26	32	27	24	21
7	57	43	34	28	54	41	33	27	37	30	25	33	27	23	29	24	21	18
8	53	39	31	25	50	37	29	24	34	27	22	30	24	20	27	22	18	16
9	49	36	28	22	46	34	27	21	31	24	20	28	22	18	25	20	17	14
10	46	33	25	20	43	31	24	19	28	22	18	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 1514 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.)