



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUD-LED-HO-CW-UE-AC16.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5583
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]05/21/14
[TEST DATE]05/21/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]AU-LED-HO-CW-UE-AC16
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]9859

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	84.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.50
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	7940	8625	7951
55	6445	6803	6009
65	5682	6068	5840
75	5921	5837	5914
85	6295	5878	6584

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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	1624	1624	1624	1624	1624
2.5	1631	1629	1624	1617	1616
5.0	1642	1636	1627	1623	1616
7.5	1660	1653	1642	1633	1613
10.0	1706	1706	1690	1664	1647
12.5	1723	1733	1733	1733	1700
15.0	1814	1816	1797	1795	1771
17.5	1844	1874	1841	1856	1809
20.0	1871	1906	1904	1865	1808
22.5	1855	1913	1905	1888	1837
25.0	1786	1850	1847	1812	1718
27.5	1845	1896	1871	1835	1803
30.0	1704	1809	1844	1807	1694
32.5	1745	1817	1826	1764	1644
35.0	1551	1714	1774	1699	1585
37.5	1583	1673	1733	1623	1482
40.0	1373	1553	1613	1551	1443
42.5	1349	1463	1525	1420	1295
45.0	1367	1456	1485	1435	1369
47.5	1152	1264	1342	1284	1138
50.0	1274	1295	1306	1250	1199
52.5	1082	1177	1251	1208	1134
55.0	1080	1123	1140	1102	1007
57.5	1044	1097	1136	1105	1089
60.0	940	1010	1043	1005	968
62.5	969	999	1006	1005	977
65.0	897	936	958	934	922
67.5	898	929	918	948	936
70.0	884	894	888	881	875
72.5	847	870	855	903	911
75.0	849	862	837	856	848
77.5	806	809	783	829	856
80.0	836	833	801	839	870
82.5	767	745	716	755	787
85.0	784	748	732	769	820
87.5	808	769	742	776	831
90.0	770	729	703	737	779
92.5	778	744	727	761	806
95.0	762	718	690	729	788
97.5	719	684	671	706	748
100.0	733	692	656	690	734
102.5	678	631	606	646	689
105.0	690	629	599	638	689
107.5	645	599	558	608	657
110.0	624	559	515	557	621
112.5	571	534	488	535	586
115.0	545	501	449	500	571
117.5	511	463	414	461	521
120.0	475	424	380	431	478
122.5	444	399	346	407	451
125.0	402	361	312	359	401
127.5	364	327	279	330	370
130.0	328	292	245	295	329
132.5	289	258	216	258	289

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CANDELA TABULATION - (Cont.)

135.0	254	220	185	221	254
137.5	215	188	158	189	212
140.0	174	150	129	151	169
142.5	129	114	100	115	125
145.0	93	82	74	83	89
147.5	63	55	52	55	59
150.0	40	38	36	37	38
152.5	28	26	24	25	25
155.0	18	17	16	17	18
157.5	13	12	12	12	13
160.0	11	11	11	11	11
162.5	11	11	11	11	11
165.0	11	11	12	12	11
167.5	11	11	12	12	11
170.0	11	12	12	12	12
172.5	12	12	12	12	12
175.0	12	12	12	12	12
177.5	11	12	12	12	11
180.0	11	11	11	11	11

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	667.38	N.A.	6.80
0-30	1521.92	N.A.	15.40
0-40	2581.14	N.A.	26.20
0-60	4661.8	N.A.	47.30
0-80	6503.28	N.A.	66.00
0-90	7340.98	N.A.	74.50
10-90	7183.99	N.A.	72.90
20-40	1913.76	N.A.	19.40
20-50	2981.09	N.A.	30.20
40-70	3023.46	N.A.	30.70
60-80	1841.49	N.A.	18.70
70-80	898.69	N.A.	9.10
80-90	837.70	N.A.	8.50
90-110	1455.25	N.A.	14.80
90-120	1951.19	N.A.	19.80
90-130	2276.06	N.A.	23.10
90-150	2504.17	N.A.	25.40
90-180	2518.00	N.A.	25.50
110-180	1062.75	N.A.	10.80
0-180	9858.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.99
10-20	510.39
20-30	854.53
30-40	1059.23
40-50	1067.33
50-60	1013.32
60-70	942.80
70-80	898.69
80-90	837.70
90-100	790.30
100-110	664.95
110-120	495.94
120-130	324.87
130-140	172.35
140-150	55.77
150-160	9.48
160-170	3.21
170-180	1.14

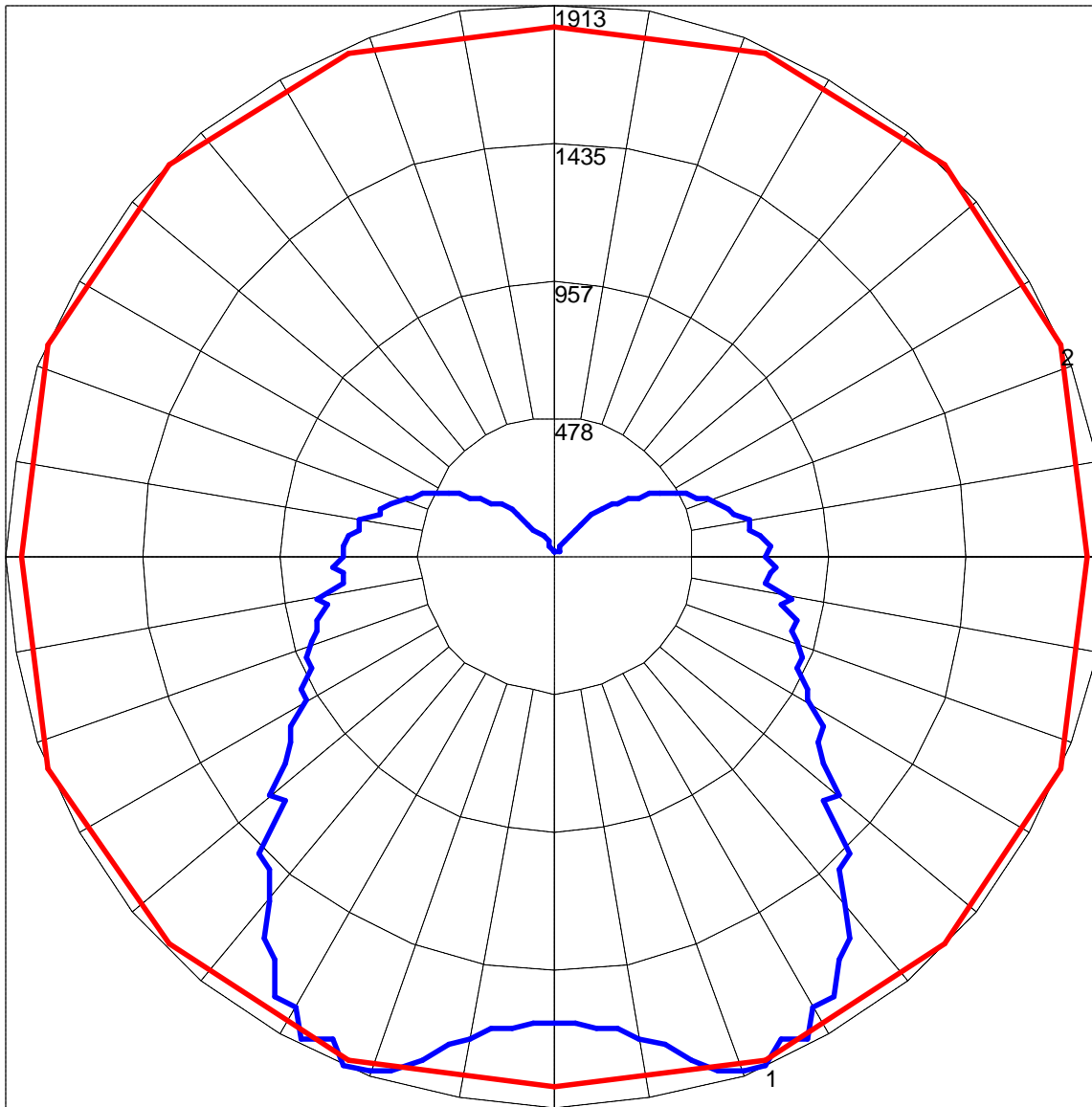
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	88	83	94	89	84	79	80	76	72	71	68	65	64	61	59	55
2	89	80	72	66	84	76	69	63	68	62	57	61	56	52	54	51	47	44
3	81	69	61	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36
4	74	61	52	45	69	58	49	43	52	45	40	47	41	36	42	37	33	30
5	68	54	45	38	64	52	43	36	47	39	34	42	36	31	37	32	28	26
6	62	49	39	33	59	46	38	32	42	35	29	38	32	27	34	29	25	22
7	58	44	35	29	54	42	33	28	38	31	26	34	28	24	31	26	22	19
8	53	40	31	25	50	38	30	24	35	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 = 1913 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.)