



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-80L-850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12471
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 02/17/21
 [TESTDATE] 02/03/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] SW-4-80L-850
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13898	10606	9924
55	11668	8983	9162
65	9284	7918	9308
75	7035	7500	9284
85	4266	7218	8316

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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	2243	2243	2243	2243	2243
2.5	2300	2262	2245	2229	2211
5.0	2298	2262	2248	2236	2220
7.5	2290	2258	2249	2238	2224
10.0	2275	2248	2243	2233	2219
12.5	2252	2232	2228	2221	2207
15.0	2224	2208	2206	2200	2187
17.5	2187	2177	2177	2171	2159
20.0	2144	2139	2139	2133	2122
22.5	2092	2094	2095	2087	2075
25.0	2033	2041	2043	2035	2020
27.5	1966	1981	1983	1974	1959
30.0	1892	1913	1919	1909	1893
32.5	1810	1837	1845	1838	1822
35.0	1723	1756	1768	1762	1749
37.5	1631	1666	1685	1687	1676
40.0	1533	1574	1602	1612	1605
42.5	1423	1478	1519	1539	1538
45.0	1321	1385	1434	1470	1476
47.5	1219	1288	1351	1405	1420
50.0	1118	1195	1273	1343	1371
52.5	1019	1103	1199	1290	1326
55.0	921	1014	1127	1241	1293
57.5	827	928	1060	1199	1266
60.0	737	844	996	1164	1243
62.5	651	762	939	1133	1223
65.0	561	689	886	1106	1203
67.5	483	619	837	1079	1178
70.0	411	555	793	1049	1147
72.5	344	497	752	1015	1105
75.0	282	443	712	973	1053
77.5	226	395	674	923	995
80.0	174	347	633	866	929
82.5	123	305	589	804	858
85.0	79	262	542	737	783
87.5	39	222	491	667	707
90.0	5	185	443	595	629
92.5	1	174	415	549	576
95.0	1	168	391	510	532
97.5	1	161	368	472	492
100.0	1	155	346	439	456
102.5	1	148	325	409	425
105.0	1	140	306	382	397
107.5	1	131	289	359	374
110.0	1	121	275	339	352
112.5	1	109	260	322	335
115.0	1	96	245	307	320
117.5	1	84	230	293	307
120.0	2	72	214	279	294
122.5	2	61	197	265	281
125.0	1	50	181	248	266
127.5	2	40	164	232	250
130.0	2	30	147	214	233
132.5	2	20	131	197	216

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CANDELA TABULATION - (Cont.)

135.0	2	9	115	180	199
137.5	2	3	99	161	181
140.0	2	2	82	143	162
142.5	2	2	67	124	143
145.0	2	2	52	106	123
147.5	2	2	37	86	104
150.0	2	2	21	68	83
152.5	2	2	6	49	64
155.0	2	2	2	31	44
157.5	2	2	2	12	24
160.0	2	2	2	2	5
162.5	2	2	2	2	1
165.0	2	2	2	2	1
167.5	3	2	2	2	1
170.0	2	2	2	2	1
172.5	3	2	2	2	1
175.0	3	2	2	2	1
177.5	3	2	2	2	1
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	836.46	N.A.	10.20
0-30	1773.4	N.A.	21.50
0-40	2870.58	N.A.	34.80
0-60	4977.14	N.A.	60.40
0-80	6600.06	N.A.	80.10
0-90	7137.28	N.A.	86.60
10-90	6922.66	N.A.	84.00
20-40	2034.12	N.A.	24.70
20-50	3132.99	N.A.	38.00
40-70	2991.46	N.A.	36.30
60-80	1622.92	N.A.	19.70
70-80	738.02	N.A.	9.00
80-90	537.22	N.A.	6.50
90-110	639.10	N.A.	7.80
90-120	840.47	N.A.	10.20
90-130	978.27	N.A.	11.90
90-150	1092.81	N.A.	13.30
90-180	1101.17	N.A.	13.40
110-180	462.07	N.A.	5.60
0-180	8238.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	214.63
10-20	621.83
20-30	936.94
30-40	1097.18
40-50	1098.87
50-60	1007.69
60-70	884.90
70-80	738.02
80-90	537.22
90-100	365.88
100-110	273.22
110-120	201.36
120-130	137.80
130-140	79.18
140-150	35.37
150-160	7.61
160-170	0.56
170-180	0.19

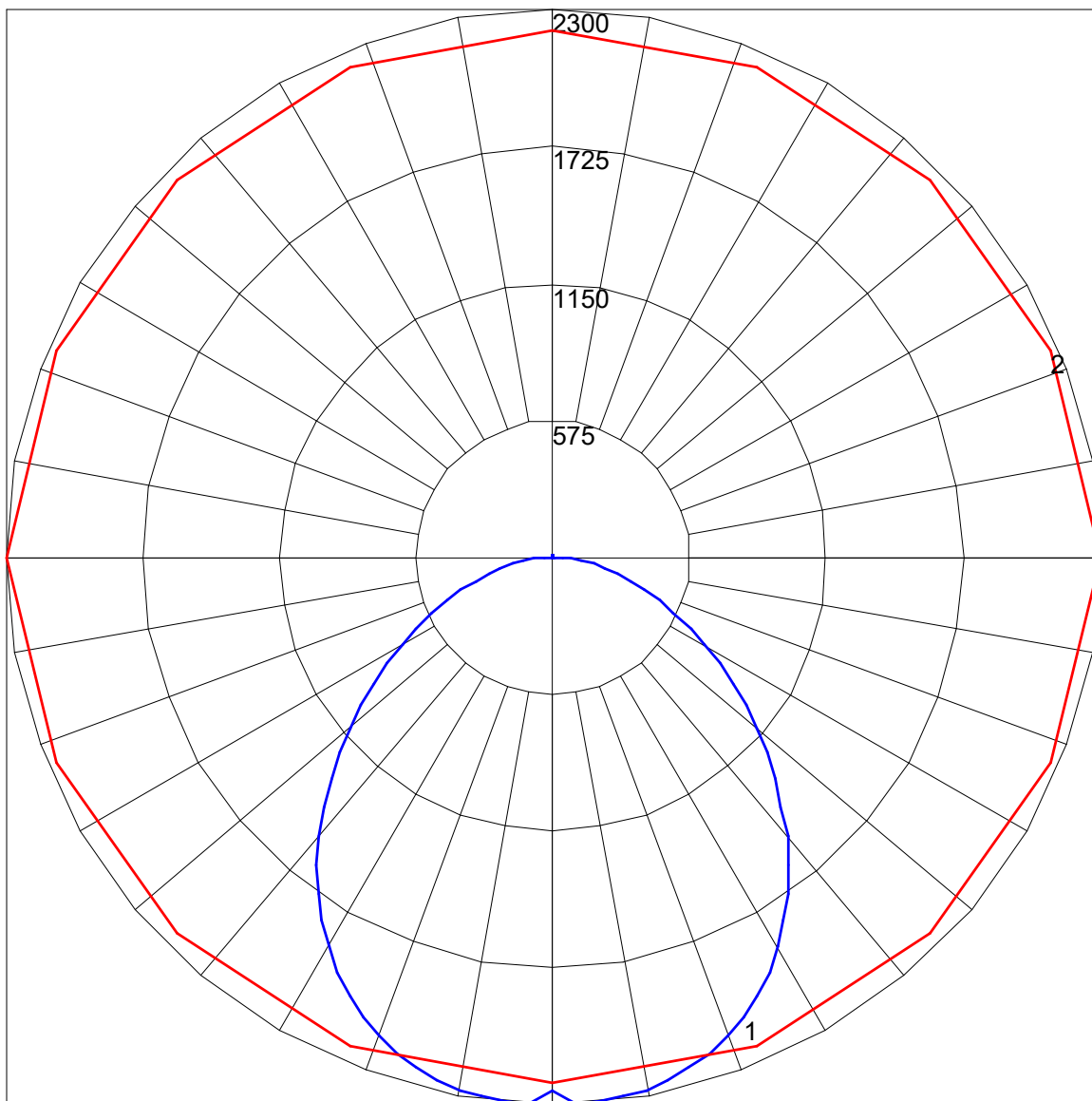
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	103	98	93	88	99	94	89	85	87	84	80	81	78	75	75	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	61	58	55
3	85	74	65	58	81	71	63	56	66	59	54	61	56	51	57	53	49	46
4	77	65	56	49	74	63	54	48	58	51	45	54	48	43	51	46	41	39
5	71	58	49	42	68	56	47	41	52	45	39	49	43	38	46	40	36	33
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	32	29
7	61	47	38	32	58	46	37	31	43	36	30	40	34	29	38	32	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 2300 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)