



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-80L-840.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-840
 [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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	13572	10355	9688
55	11389	8768	8949
65	9069	7730	9092
75	6861	7321	9063
85	4158	7045	8125

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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	2190	2190	2190	2190	2190
2.5	2246	2209	2192	2177	2159
5.0	2244	2209	2195	2183	2168
7.5	2236	2205	2196	2185	2172
10.0	2221	2195	2190	2180	2167
12.5	2199	2179	2176	2169	2155
15.0	2172	2156	2154	2148	2135
17.5	2135	2126	2126	2120	2108
20.0	2094	2089	2089	2083	2072
22.5	2043	2045	2046	2038	2026
25.0	1985	1993	1995	1987	1972
27.5	1920	1934	1936	1928	1913
30.0	1847	1868	1874	1864	1848
32.5	1767	1794	1802	1795	1779
35.0	1682	1715	1726	1721	1708
37.5	1593	1627	1645	1647	1637
40.0	1497	1537	1564	1574	1567
42.5	1389	1443	1483	1503	1502
45.0	1290	1352	1400	1435	1441
47.5	1190	1258	1319	1372	1387
50.0	1092	1167	1243	1311	1339
52.5	995	1077	1171	1260	1295
55.0	899	990	1100	1212	1263
57.5	808	906	1035	1171	1236
60.0	720	824	973	1137	1214
62.5	636	744	917	1106	1194
65.0	548	673	865	1080	1175
67.5	472	604	817	1054	1150
70.0	401	542	774	1024	1120
72.5	336	485	734	991	1079
75.0	275	433	695	950	1028
77.5	221	386	658	901	972
80.0	170	339	618	846	907
82.5	120	298	575	785	838
85.0	77	256	529	720	765
87.5	38	217	479	651	690
90.0	5	181	433	581	614
92.5	1	170	405	536	562
95.0	1	164	382	498	519
97.5	1	157	359	461	480
100.0	1	151	338	429	445
102.5	1	145	317	399	415
105.0	1	137	299	373	388
107.5	1	128	282	351	365
110.0	1	118	269	331	344
112.5	1	106	254	314	327
115.0	1	94	239	300	312
117.5	1	82	225	286	300
120.0	2	70	209	272	287
122.5	2	60	192	259	274
125.0	1	49	177	242	260
127.5	2	39	160	227	244
130.0	2	29	144	209	228
132.5	2	20	128	192	211

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CANDELA TABULATION - (Cont.)

135.0	2	9	112	176	194
137.5	2	3	97	157	177
140.0	2	2	80	140	158
142.5	2	2	65	121	140
145.0	2	2	51	104	120
147.5	2	2	36	84	102
150.0	2	2	21	66	81
152.5	2	2	6	48	62
155.0	2	2	2	30	43
157.5	2	2	2	12	23
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	816.77	N.A.	10.20
0-30	1731.68	N.A.	21.50
0-40	2803.06	N.A.	34.80
0-60	4860.02	N.A.	60.40
0-80	6444.69	N.A.	80.10
0-90	6969.28	N.A.	86.60
10-90	6759.71	N.A.	84.00
20-40	1986.28	N.A.	24.70
20-50	3059.22	N.A.	38.00
40-70	2921.03	N.A.	36.30
60-80	1584.67	N.A.	19.70
70-80	720.60	N.A.	9.00
80-90	524.60	N.A.	6.50
90-110	624.07	N.A.	7.80
90-120	820.66	N.A.	10.20
90-130	955.26	N.A.	11.90
90-150	1067.19	N.A.	13.30
90-180	1075.38	N.A.	13.40
110-180	451.31	N.A.	5.60
0-180	8044.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	209.57
10-20	607.20
20-30	914.90
30-40	1071.38
40-50	1072.94
50-60	984.02
60-70	864.07
70-80	720.60
80-90	524.60
90-100	357.22
100-110	266.85
110-120	196.59
120-130	134.59
130-140	77.36
140-150	34.57
150-160	7.44
160-170	0.56
170-180	0.19

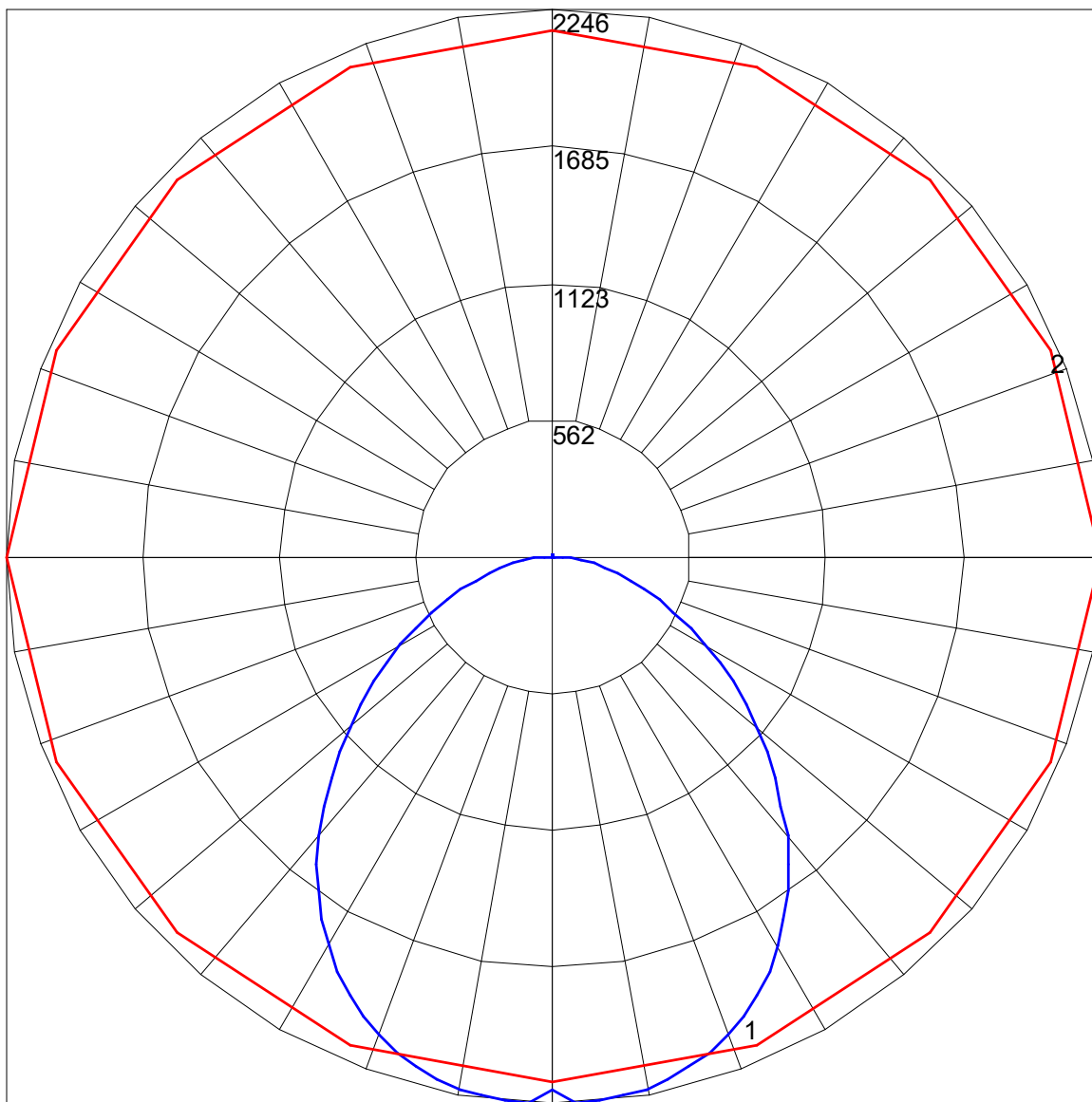
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	73	65	58	81	71	63	56	66	59	54	61	56	51	57	52	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 = 2246 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.)