



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-50L-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-4-50L-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	5144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	36
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	8680	6620	6199
55	7284	5612	5718
65	5792	4942	5811
75	4391	4687	5801
85	2646	4501	5193

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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	1401	1401	1401	1401	1401
2.5	1436	1412	1402	1392	1381
5.0	1435	1412	1404	1396	1386
7.5	1430	1410	1404	1397	1389
10.0	1421	1404	1401	1394	1386
12.5	1406	1394	1391	1387	1378
15.0	1389	1379	1377	1374	1366
17.5	1366	1359	1359	1356	1348
20.0	1339	1336	1336	1332	1325
22.5	1306	1308	1308	1303	1296
25.0	1269	1274	1276	1271	1261
27.5	1228	1237	1238	1233	1223
30.0	1181	1195	1198	1192	1182
32.5	1130	1147	1152	1148	1138
35.0	1076	1096	1104	1100	1092
37.5	1018	1040	1052	1053	1047
40.0	957	983	1000	1007	1002
42.5	889	923	948	961	960
45.0	825	865	895	918	922
47.5	761	804	844	877	887
50.0	698	746	795	839	856
52.5	636	689	749	806	828
55.0	575	633	704	775	807
57.5	516	579	662	749	791
60.0	460	527	622	727	776
62.5	406	476	586	707	764
65.0	350	430	553	691	751
67.5	302	387	523	674	736
70.0	257	347	495	655	716
72.5	215	310	470	634	690
75.0	176	277	445	608	658
77.5	141	247	421	576	621
80.0	109	217	395	541	580
82.5	77	190	368	502	536
85.0	49	164	338	460	489
87.5	24	139	307	416	441
90.0	3	116	277	372	393
92.5	1	109	259	343	360
95.0	1	105	244	318	332
97.5	1	101	230	295	307
100.0	1	97	216	274	285
102.5	1	92	203	255	265
105.0	1	87	191	239	248
107.5	1	82	180	224	234
110.0	1	76	172	212	220
112.5	1	68	162	201	209
115.0	1	60	153	192	200
117.5	1	52	144	183	192
120.0	1	45	134	174	184
122.5	1	38	123	165	175
125.0	1	31	113	155	166
127.5	1	25	102	145	156
130.0	1	19	92	134	145
132.5	1	12	82	123	135

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CANDELA TABULATION - (Cont.)

135.0	1	6	72	112	124
137.5	1	2	62	101	113
140.0	1	1	51	89	101
142.5	1	1	42	77	89
145.0	1	1	32	66	77
147.5	1	1	23	54	65
150.0	1	1	13	42	52
152.5	1	1	4	31	40
155.0	1	1	1	19	27
157.5	1	1	1	7	15
160.0	1	1	1	1	3
162.5	1	1	1	1	1
165.0	1	1	1	1	1
167.5	2	1	1	1	1
170.0	1	1	1	1	1
172.5	2	1	1	1	1
175.0	2	1	1	1	1
177.5	2	1	1	1	1
180.0	1	1	1	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	522.32	N.A.	10.20
0-30	1107.38	N.A.	21.50
0-40	1792.44	N.A.	34.80
0-60	3107.87	N.A.	60.40
0-80	4121.45	N.A.	80.10
0-90	4456.93	N.A.	86.60
10-90	4322.91	N.A.	84.00
20-40	1270.11	N.A.	24.70
20-50	1956.27	N.A.	38.00
40-70	1868.03	N.A.	36.30
60-80	1013.58	N.A.	19.70
70-80	460.98	N.A.	9.00
80-90	335.48	N.A.	6.50
90-110	399.24	N.A.	7.80
90-120	525.07	N.A.	10.20
90-130	611.06	N.A.	11.90
90-150	682.47	N.A.	13.30
90-180	687.55	N.A.	13.40
110-180	288.31	N.A.	5.60
0-180	5144.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.02
10-20	388.31
20-30	585.06
30-40	685.05
40-50	686.15
50-60	629.28
60-70	552.60
70-80	460.98
80-90	335.48
90-100	228.62
100-110	170.63
110-120	125.82
120-130	85.99
130-140	49.44
140-150	21.98
150-160	4.67
160-170	0.30
170-180	0.10

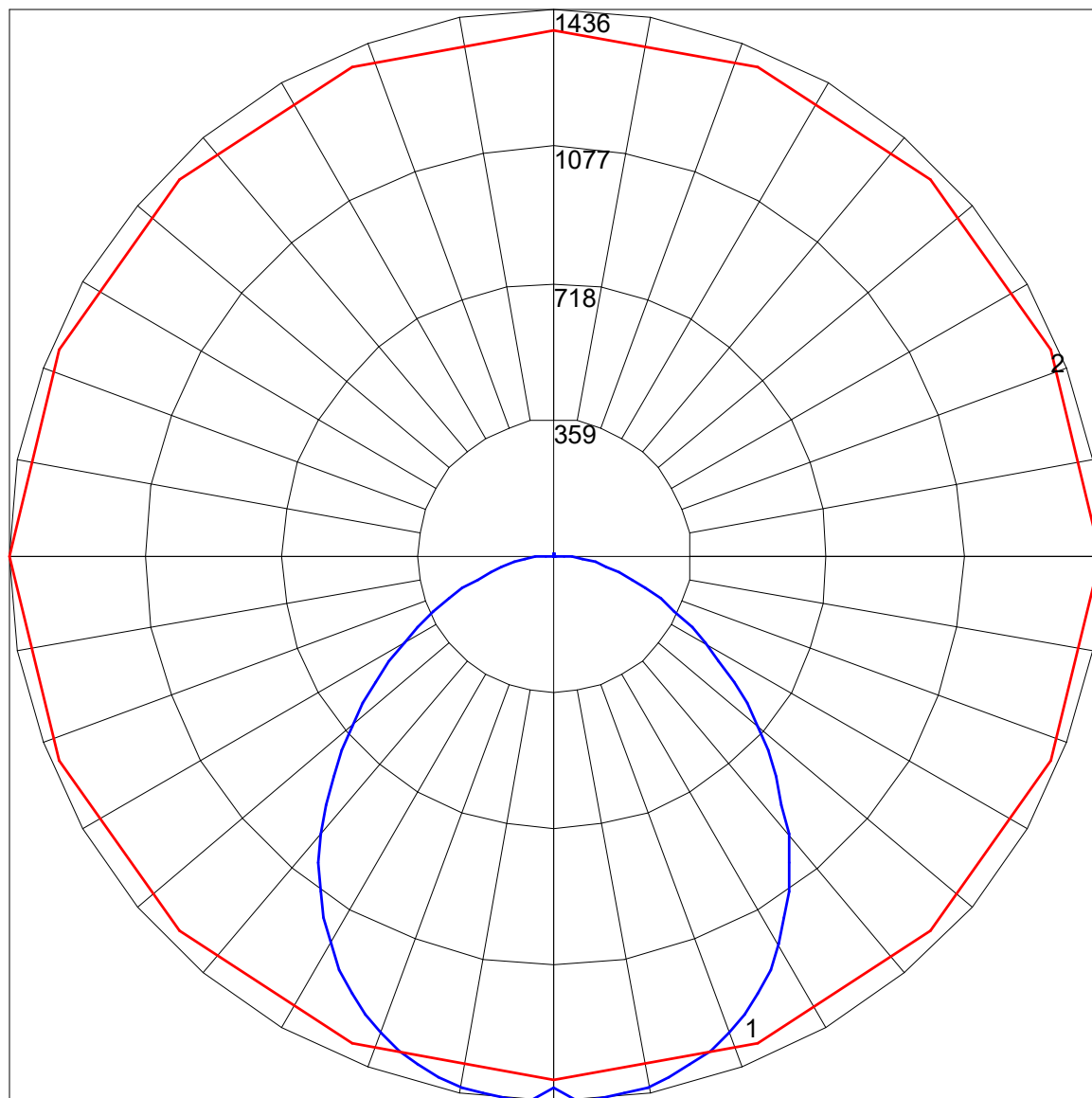
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1436 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.)