



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-50L-840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12471
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 02/17/21
[TEST DATE] 02/03/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] SW-4-50L-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	5011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	8459	6450	6038
55	7094	5468	5569
65	5643	4817	5664
75	4266	4561	5651
85	2592	4381	5055

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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	1365	1365	1365	1365	1365
2.5	1399	1375	1366	1356	1345
5.0	1398	1375	1368	1360	1350
7.5	1393	1374	1368	1361	1353
10.0	1384	1368	1365	1358	1350
12.5	1370	1358	1355	1351	1342
15.0	1353	1343	1341	1338	1331
17.5	1331	1324	1324	1321	1313
20.0	1304	1301	1301	1298	1291
22.5	1272	1274	1274	1269	1262
25.0	1236	1241	1243	1238	1228
27.5	1196	1205	1206	1201	1191
30.0	1150	1164	1167	1161	1151
32.5	1101	1117	1122	1118	1109
35.0	1048	1068	1075	1072	1064
37.5	992	1013	1025	1026	1020
40.0	932	958	974	981	976
42.5	866	899	923	936	935
45.0	804	843	872	894	898
47.5	741	783	822	854	864
50.0	680	727	774	817	834
52.5	620	671	730	785	807
55.0	560	617	686	755	786
57.5	503	564	645	730	771
60.0	448	513	606	708	756
62.5	396	464	571	689	744
65.0	341	419	539	673	732
67.5	294	377	509	657	717
70.0	250	338	482	638	697
72.5	209	302	458	618	672
75.0	171	270	433	592	641
77.5	137	241	410	561	605
80.0	106	211	385	527	565
82.5	75	185	358	489	522
85.0	48	160	329	448	476
87.5	23	135	299	405	430
90.0	3	113	270	362	383
92.5	1	106	252	334	351
95.0	1	102	238	310	323
97.5	1	98	224	287	299
100.0	1	94	210	267	278
102.5	1	90	198	248	258
105.0	1	85	186	233	242
107.5	1	80	175	218	228
110.0	1	74	168	207	214
112.5	1	66	158	196	204
115.0	1	58	149	187	195
117.5	1	51	140	178	187
120.0	1	44	131	170	179
122.5	1	37	120	161	170
125.0	1	30	110	151	162
127.5	1	24	99	141	152
130.0	1	19	90	131	141
132.5	1	12	80	120	132

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CANDELA TABULATION - (Cont.)

135.0	1	6	70	109	121
137.5	1	2	60	98	110
140.0	1	1	50	87	98
142.5	1	1	41	75	87
145.0	1	1	31	64	75
147.5	1	1	22	53	63
150.0	1	1	13	41	51
152.5	1	1	4	30	39
155.0	1	1	1	19	26
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	508.81	N.A.	10.20
0-30	1078.67	N.A.	21.50
0-40	1746.01	N.A.	34.80
0-60	3027.43	N.A.	60.40
0-80	4014.77	N.A.	80.10
0-90	4341.46	N.A.	86.60
10-90	4210.9	N.A.	84.00
20-40	1237.2	N.A.	24.70
20-50	1905.54	N.A.	38.00
40-70	1819.77	N.A.	36.30
60-80	987.34	N.A.	19.70
70-80	448.99	N.A.	9.00
80-90	326.69	N.A.	6.50
90-110	388.84	N.A.	7.80
90-120	511.45	N.A.	10.20
90-130	595.23	N.A.	11.90
90-150	664.86	N.A.	13.30
90-180	669.85	N.A.	13.40
110-180	281.01	N.A.	5.60
0-180	5011.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.56
10-20	378.25
20-30	569.86
30-40	667.35
40-50	668.33
50-60	613.09
60-70	538.35
70-80	448.99
80-90	326.69
90-100	222.60
100-110	166.24
110-120	122.61
120-130	83.79
130-140	48.21
140-150	21.42
150-160	4.58
160-170	0.30
170-180	0.10

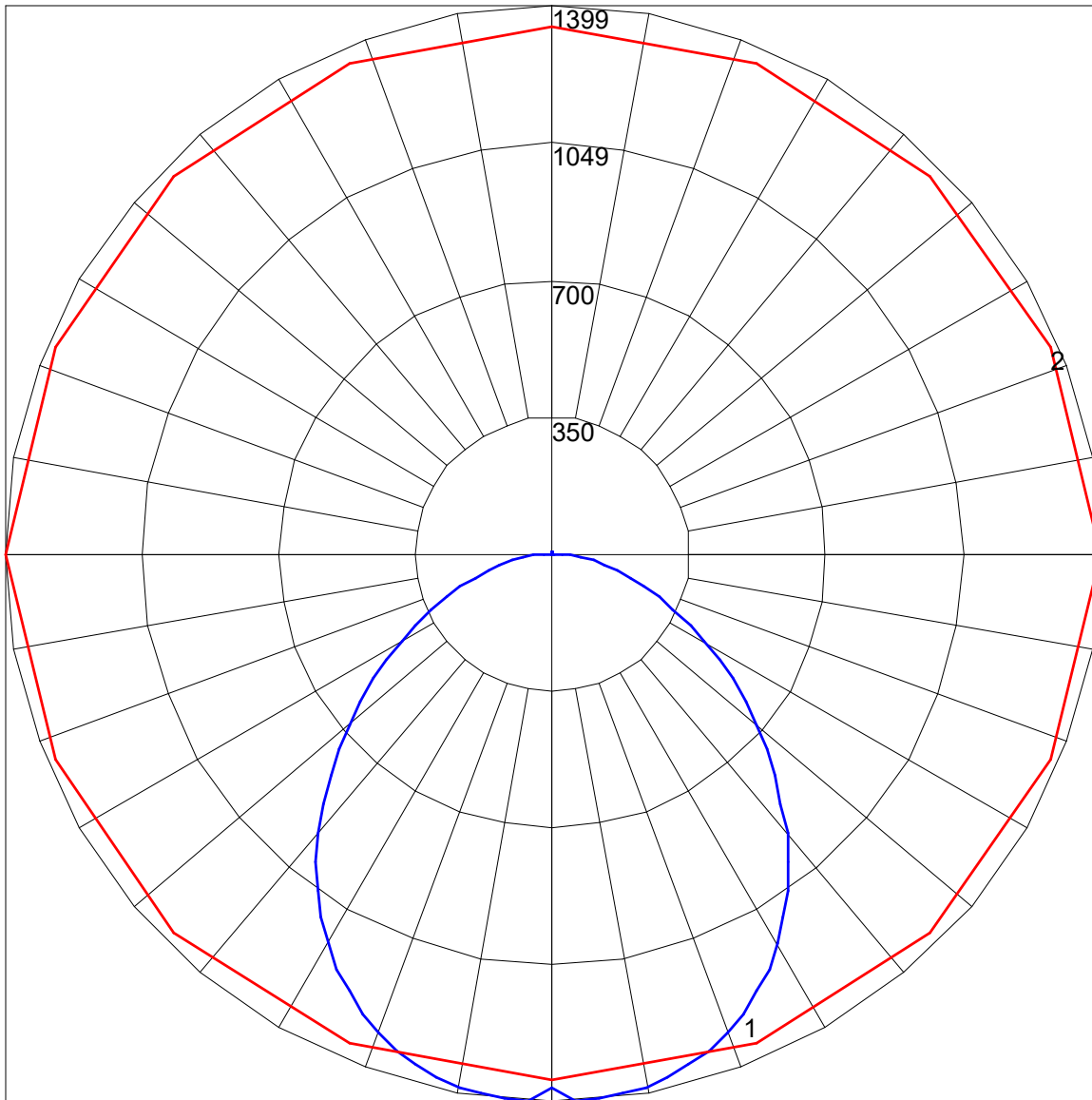
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1399 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.)