



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-50L-835.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-835  
[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] 3500

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	8112	6183	5789
55	6803	5245	5343
65	5411	4620	5432
75	4092	4371	5422
85	2484	4208	4854

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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	1309	1309	1309	1309	1309
2.5	1342	1319	1310	1301	1290
5.0	1341	1319	1312	1304	1295
7.5	1336	1318	1312	1305	1298
10.0	1327	1312	1309	1302	1295
12.5	1314	1302	1300	1296	1287
15.0	1298	1288	1286	1283	1277
17.5	1277	1270	1270	1267	1259
20.0	1251	1248	1248	1245	1238
22.5	1220	1222	1222	1217	1210
25.0	1185	1190	1192	1187	1178
27.5	1147	1156	1157	1152	1142
30.0	1103	1116	1119	1114	1104
32.5	1056	1071	1076	1072	1064
35.0	1005	1024	1031	1028	1020
37.5	951	972	983	984	978
40.0	894	919	934	941	936
42.5	831	862	885	898	897
45.0	771	809	836	857	861
47.5	711	751	788	819	829
50.0	652	697	742	784	800
52.5	595	644	700	753	774
55.0	537	592	658	724	754
57.5	482	541	619	700	739
60.0	430	492	581	679	725
62.5	380	445	548	661	714
65.0	327	402	517	645	702
67.5	282	362	488	630	688
70.0	240	324	462	612	668
72.5	200	290	439	593	645
75.0	164	259	415	568	615
77.5	131	231	393	538	580
80.0	102	202	369	505	542
82.5	72	177	343	469	501
85.0	46	153	316	430	457
87.5	22	129	287	388	412
90.0	3	108	259	347	367
92.5	1	102	242	320	337
95.0	1	98	228	297	310
97.5	1	94	215	275	287
100.0	1	90	201	256	267
102.5	1	86	190	238	247
105.0	1	82	178	223	232
107.5	1	77	168	209	219
110.0	1	71	161	199	205
112.5	1	63	152	188	196
115.0	1	56	143	179	187
117.5	1	49	134	171	179
120.0	1	42	126	163	172
122.5	1	35	115	154	163
125.0	1	29	105	145	155
127.5	1	23	95	135	146
130.0	1	18	86	126	135
132.5	1	12	77	115	127

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CANDELA TABULATION - (Cont.)

135.0	1	6	67	105	116
137.5	1	2	58	94	105
140.0	1	1	48	83	94
142.5	1	1	39	72	83
145.0	1	1	30	61	72
147.5	1	1	21	51	60
150.0	1	1	12	39	49
152.5	1	1	4	29	37
155.0	1	1	1	18	25
157.5	1	1	1	7	14
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	488.01	N.A.	10.20
0-30	1034.55	N.A.	21.50
0-40	1674.55	N.A.	34.80
0-60	2903.56	N.A.	60.40
0-80	3850.48	N.A.	80.10
0-90	4163.69	N.A.	86.60
10-90	4038.47	N.A.	84.00
20-40	1186.55	N.A.	24.70
20-50	1827.52	N.A.	38.00
40-70	1745.36	N.A.	36.30
60-80	946.92	N.A.	19.70
70-80	430.56	N.A.	9.00
80-90	313.21	N.A.	6.50
90-110	372.90	N.A.	7.80
90-120	490.54	N.A.	10.20
90-130	570.82	N.A.	11.90
90-150	637.63	N.A.	13.30
90-180	642.44	N.A.	13.40
110-180	269.54	N.A.	5.60
0-180	4806.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	125.22
10-20	362.79
20-30	546.55
30-40	640.00
40-50	640.97
50-60	588.03
60-70	516.36
70-80	430.56
80-90	313.21
90-100	213.47
100-110	159.42
110-120	117.64
120-130	80.29
130-140	46.31
140-150	20.50
150-160	4.40
160-170	0.30
170-180	0.10

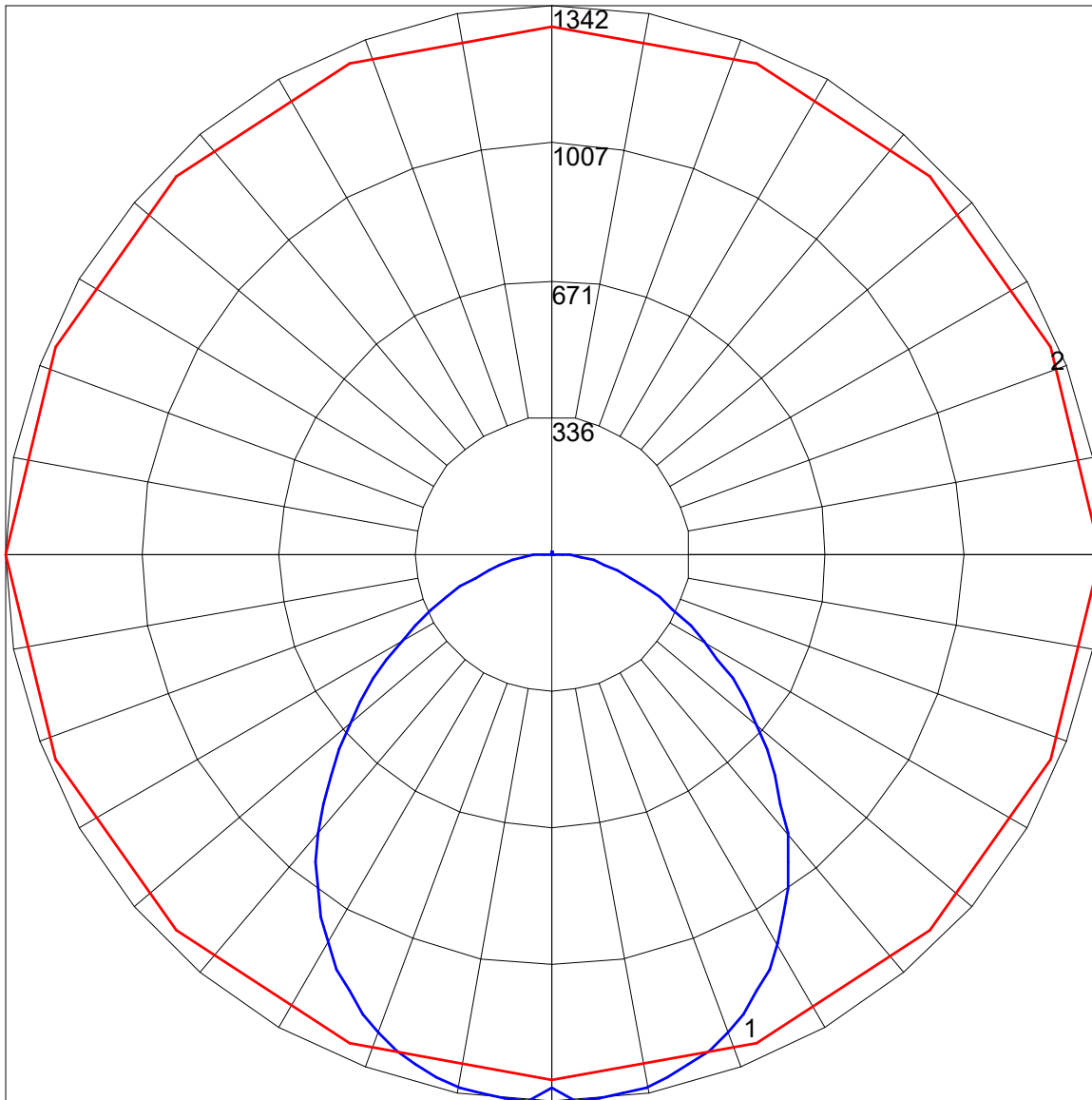
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	73	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 = 1342 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.)