



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-45L-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  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] SW-4-45L-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	4325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	34
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	7291	5569	5211
55	6131	4719	4811
65	4865	4156	4882
75	3692	3939	4876
85	2214	3795	4365

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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	1177	1177	1177	1177	1177
2.5	1208	1187	1178	1170	1161
5.0	1207	1187	1180	1173	1165
7.5	1203	1186	1181	1175	1168
10.0	1194	1180	1177	1172	1165
12.5	1182	1171	1170	1166	1159
15.0	1168	1160	1159	1155	1148
17.5	1148	1142	1142	1140	1134
20.0	1126	1123	1123	1120	1114
22.5	1099	1099	1099	1096	1090
25.0	1067	1071	1072	1068	1061
27.5	1032	1040	1041	1036	1028
30.0	993	1004	1007	1002	994
32.5	951	964	969	965	956
35.0	905	922	928	925	919
37.5	856	875	884	885	881
40.0	805	826	841	847	843
42.5	747	776	798	809	808
45.0	693	727	753	772	775
47.5	640	676	709	738	745
50.0	587	627	668	705	719
52.5	535	579	630	677	696
55.0	484	532	592	651	679
57.5	435	486	557	630	665
60.0	387	443	523	611	652
62.5	342	400	493	595	642
65.0	294	362	465	580	631
67.5	253	325	439	566	619
70.0	216	292	416	551	602
72.5	180	261	395	532	580
75.0	148	233	374	511	553
77.5	119	207	354	485	523
80.0	91	182	333	455	487
82.5	64	160	309	422	451
85.0	41	137	285	387	411
87.5	20	117	258	350	371
90.0	3	97	233	312	330
92.5	1	91	218	288	303
95.0	1	88	205	269	279
97.5	1	84	194	247	258
100.0	1	82	181	231	239
102.5	1	78	171	215	223
105.0	1	74	161	200	208
107.5	1	69	152	189	197
110.0	1	63	145	177	185
112.5	1	57	136	169	176
115.0	1	51	129	162	168
117.5	1	44	121	154	162
120.0	1	37	112	147	154
122.5	1	32	104	139	148
125.0	1	26	95	129	139
127.5	1	20	86	122	130
130.0	1	16	78	112	123
132.5	1	11	69	104	113

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CANDELA TABULATION - (Cont.)

135.0	1	5	60	94	105
137.5	1	2	53	84	95
140.0	1	1	43	75	85
142.5	1	1	35	65	75
145.0	1	1	27	56	64
147.5	1	1	19	45	54
150.0	1	1	12	35	44
152.5	1	1	3	26	34
155.0	1	1	1	16	23
157.5	1	1	1	7	12
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	439.12	N.A.	10.20
0-30	930.93	N.A.	21.50
0-40	1506.94	N.A.	34.80
0-60	2612.92	N.A.	60.40
0-80	3464.92	N.A.	80.10
0-90	3746.94	N.A.	86.60
10-90	3634.27	N.A.	84.00
20-40	1067.82	N.A.	24.70
20-50	1644.78	N.A.	38.00
40-70	1570.45	N.A.	36.30
60-80	852.00	N.A.	19.70
70-80	387.53	N.A.	9.00
80-90	282.01	N.A.	6.50
90-110	335.78	N.A.	7.80
90-120	441.61	N.A.	10.20
90-130	513.83	N.A.	11.90
90-150	574.00	N.A.	13.30
90-180	578.41	N.A.	13.40
110-180	242.63	N.A.	5.60
0-180	4325.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.67
10-20	326.45
20-30	491.81
30-40	576.01
40-50	576.96
50-60	529.01
60-70	464.47
70-80	387.53
80-90	282.01
90-100	192.14
100-110	143.64
110-120	105.83
120-130	72.21
130-140	41.67
140-150	18.51
150-160	4.00
160-170	0.30
170-180	0.10

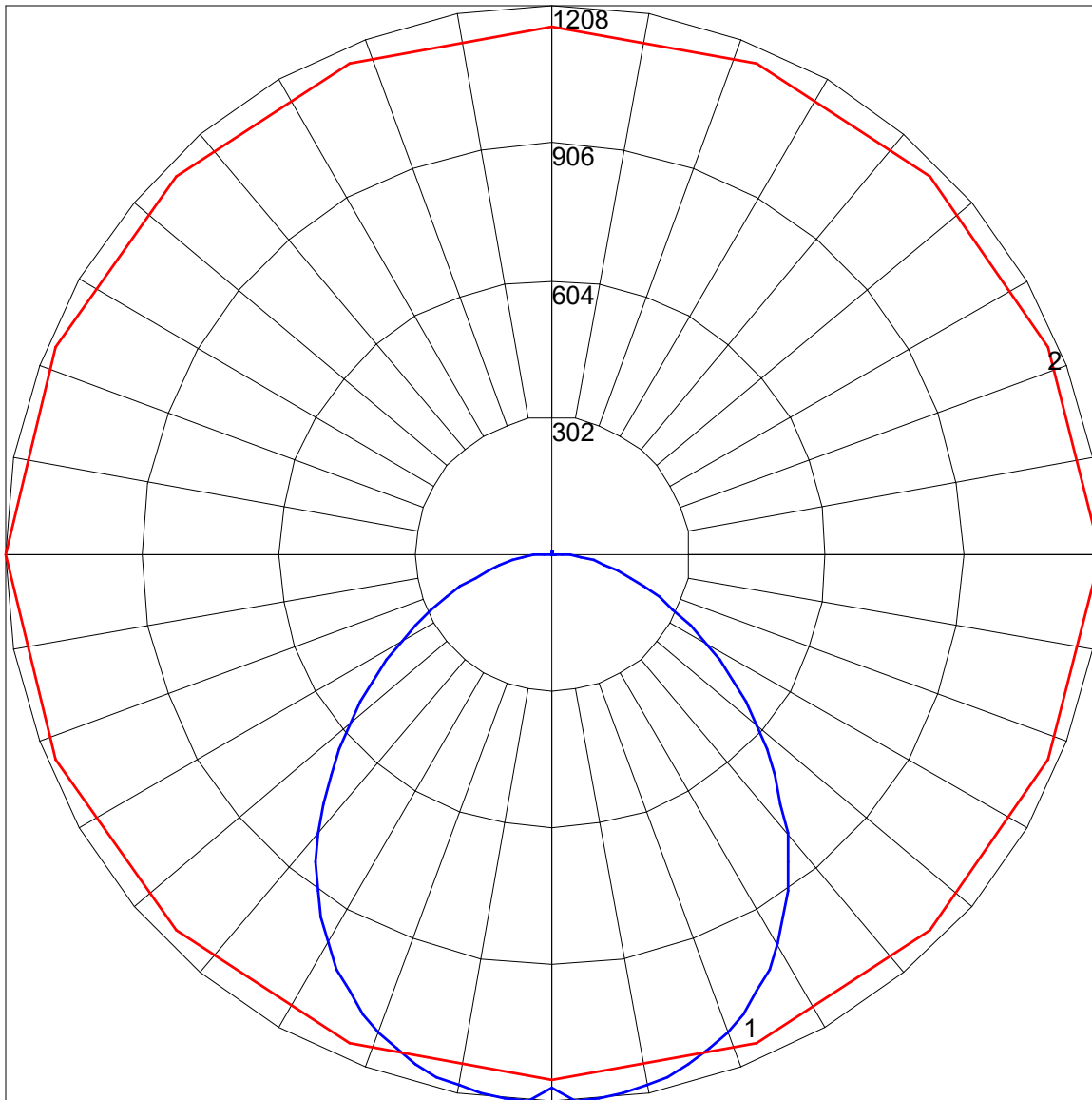
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1208 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.)