



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-60L-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-4-60L-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	5697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	44
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	9616	7337	6865
55	8070	6209	6334
65	6404	5478	6438
75	4890	5182	6418
85	2916	4994	5756

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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	1551	1551	1551	1551	1551
2.5	1591	1564	1553	1541	1530
5.0	1589	1564	1555	1546	1535
7.5	1583	1561	1556	1548	1537
10.0	1573	1555	1551	1544	1535
12.5	1558	1543	1540	1536	1527
15.0	1537	1527	1526	1522	1512
17.5	1512	1505	1505	1501	1493
20.0	1483	1479	1479	1475	1467
22.5	1447	1448	1449	1443	1435
25.0	1406	1412	1413	1407	1396
27.5	1359	1370	1371	1365	1354
30.0	1309	1323	1326	1320	1309
32.5	1252	1271	1277	1272	1260
35.0	1191	1214	1223	1218	1209
37.5	1128	1152	1165	1167	1160
40.0	1061	1089	1108	1114	1110
42.5	984	1022	1050	1064	1064
45.0	914	957	992	1017	1021
47.5	843	890	934	972	982
50.0	774	827	880	928	949
52.5	704	762	830	892	918
55.0	637	702	779	858	894
57.5	572	642	734	830	876
60.0	510	584	689	806	859
62.5	451	527	649	784	846
65.0	387	477	613	765	832
67.5	335	428	579	746	814
70.0	284	384	549	725	793
72.5	238	343	521	702	764
75.0	196	307	492	672	728
77.5	156	272	466	638	689
80.0	121	240	438	598	643
82.5	85	211	408	556	594
85.0	54	181	375	510	542
87.5	27	153	340	461	488
90.0	4	128	307	411	435
92.5	1	121	287	379	398
95.0	1	116	270	353	368
97.5	1	111	254	326	340
100.0	1	107	239	304	316
102.5	1	103	225	283	294
105.0	1	97	212	265	274
107.5	1	90	199	248	259
110.0	1	84	191	234	244
112.5	1	76	179	223	232
115.0	1	66	169	212	222
117.5	1	58	159	202	212
120.0	1	50	148	194	203
122.5	1	42	136	183	195
125.0	1	35	126	172	184
127.5	1	28	113	161	173
130.0	1	20	102	148	161
132.5	1	14	90	136	150

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CANDELA TABULATION - (Cont.)

135.0	1	7	80	125	137
137.5	1	2	68	111	126
140.0	1	1	57	99	112
142.5	1	1	47	86	99
145.0	1	1	35	73	85
147.5	1	1	25	59	72
150.0	1	1	15	47	57
152.5	1	1	4	34	44
155.0	1	1	1	21	31
157.5	1	1	1	9	17
160.0	1	1	1	1	4
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	578.41	N.A.	10.20
0-30	1226.29	N.A.	21.50
0-40	1985.12	N.A.	34.80
0-60	3442.08	N.A.	60.40
0-80	4564.46	N.A.	80.10
0-90	4936.03	N.A.	86.60
10-90	4787.61	N.A.	84.00
20-40	1406.71	N.A.	24.70
20-50	2166.6	N.A.	38.00
40-70	2069.04	N.A.	36.30
60-80	1122.38	N.A.	19.70
70-80	510.30	N.A.	9.00
80-90	371.57	N.A.	6.50
90-110	442.05	N.A.	7.80
90-120	581.31	N.A.	10.20
90-130	676.71	N.A.	11.90
90-150	755.78	N.A.	13.30
90-180	761.38	N.A.	13.40
110-180	319.33	N.A.	5.60
0-180	5697.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.42
10-20	429.99
20-30	647.88
30-40	758.83
40-50	759.89
50-60	697.07
60-70	612.08
70-80	510.30
80-90	371.57
90-100	252.97
100-110	189.08
110-120	139.26
120-130	95.40
130-140	54.74
140-150	24.34
150-160	5.18
160-170	0.31
170-180	0.10

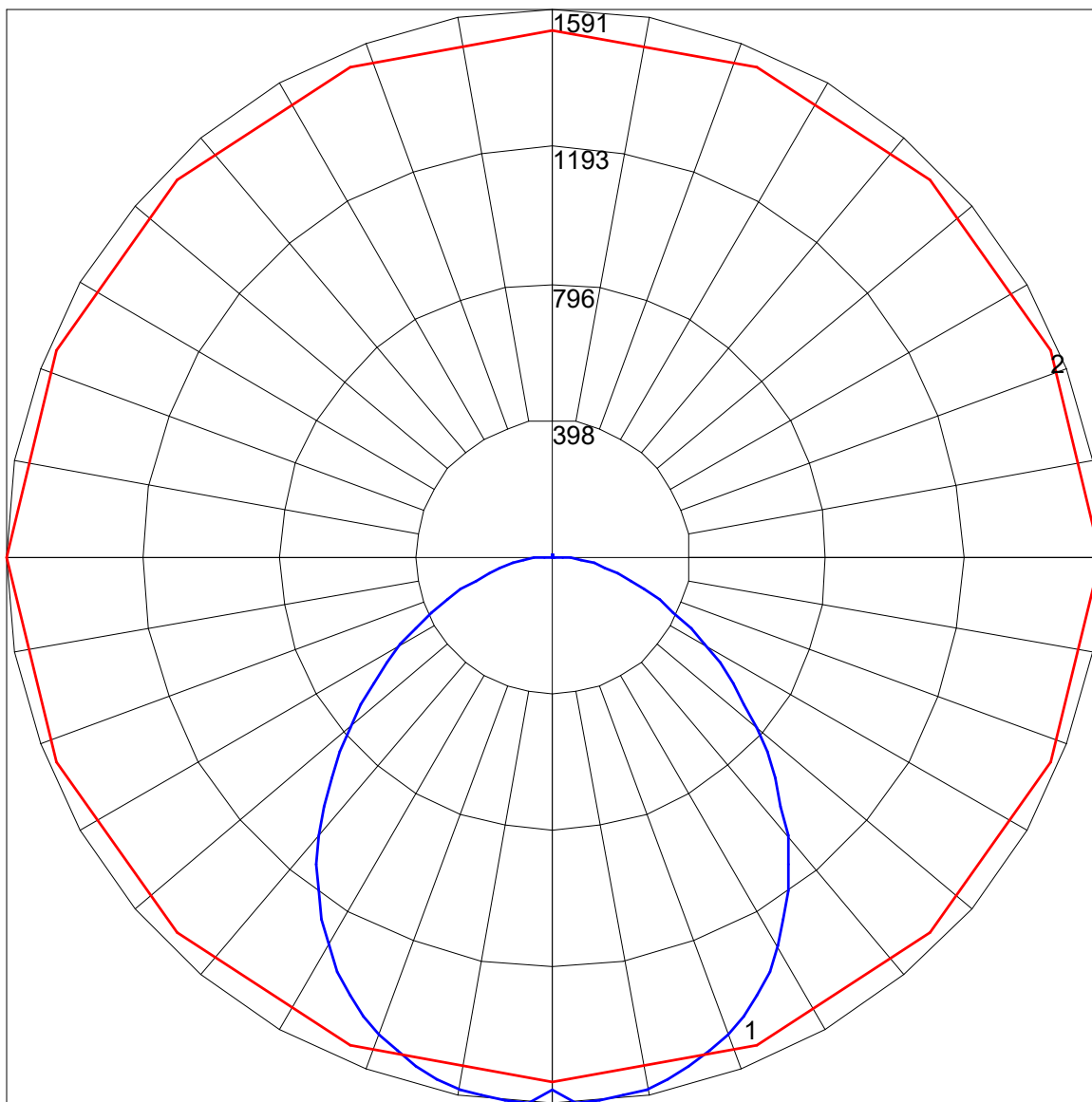
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1591 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.)