



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-60L-850.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-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	6098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	10290	7847	7349
55	8640	6648	6781
65	6868	5863	6886
75	5214	5551	6868
85	3132	5340	6160

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	1660	1660	1660	1660	1660
<b>2.5</b>	1703	1674	1662	1650	1637
<b>5.0</b>	1701	1674	1664	1655	1643
<b>7.5</b>	1695	1671	1665	1657	1646
<b>10.0</b>	1684	1664	1660	1653	1643
<b>12.5</b>	1667	1652	1649	1644	1634
<b>15.0</b>	1646	1634	1633	1629	1619
<b>17.5</b>	1619	1611	1611	1607	1598
<b>20.0</b>	1587	1583	1583	1579	1571
<b>22.5</b>	1549	1550	1551	1545	1536
<b>25.0</b>	1505	1511	1512	1506	1495
<b>27.5</b>	1455	1466	1468	1461	1450
<b>30.0</b>	1401	1416	1420	1413	1401
<b>32.5</b>	1340	1360	1366	1361	1349
<b>35.0</b>	1275	1300	1309	1304	1295
<b>37.5</b>	1207	1233	1247	1249	1241
<b>40.0</b>	1135	1165	1186	1193	1188
<b>42.5</b>	1053	1094	1124	1139	1138
<b>45.0</b>	978	1025	1061	1088	1093
<b>47.5</b>	902	953	1000	1040	1051
<b>50.0</b>	828	885	942	994	1015
<b>52.5</b>	754	816	888	955	982
<b>55.0</b>	682	751	834	919	957
<b>57.5</b>	612	687	785	888	937
<b>60.0</b>	546	625	737	862	920
<b>62.5</b>	482	564	695	839	905
<b>65.0</b>	415	510	656	819	890
<b>67.5</b>	358	458	620	799	872
<b>70.0</b>	304	411	587	776	849
<b>72.5</b>	255	368	557	751	818
<b>75.0</b>	209	328	527	720	779
<b>77.5</b>	167	292	499	683	737
<b>80.0</b>	129	257	469	641	688
<b>82.5</b>	91	226	436	595	635
<b>85.0</b>	58	194	401	546	580
<b>87.5</b>	29	164	363	494	523
<b>90.0</b>	4	137	328	440	466
<b>92.5</b>	1	129	307	406	426
<b>95.0</b>	1	124	289	378	394
<b>97.5</b>	1	119	272	349	364
<b>100.0</b>	1	115	256	325	338
<b>102.5</b>	1	110	241	303	315
<b>105.0</b>	1	104	227	283	294
<b>107.5</b>	1	97	214	266	277
<b>110.0</b>	1	90	204	251	261
<b>112.5</b>	1	81	192	238	248
<b>115.0</b>	1	71	181	227	237
<b>117.5</b>	1	62	170	217	227
<b>120.0</b>	1	53	158	207	218
<b>122.5</b>	1	45	146	196	208
<b>125.0</b>	1	37	134	184	197
<b>127.5</b>	1	30	121	172	185
<b>130.0</b>	1	22	109	158	172
<b>132.5</b>	1	15	97	146	160

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CANDELA TABULATION - (Cont.)

135.0	1	7	85	133	147
137.5	1	2	73	119	134
140.0	1	1	61	106	120
142.5	1	1	50	92	106
145.0	1	1	38	78	91
147.5	1	1	27	64	77
150.0	1	1	16	50	61
152.5	1	1	4	36	47
155.0	1	1	1	23	33
157.5	1	1	1	9	18
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	619.13	N.A.	10.20
0-30	1312.64	N.A.	21.50
0-40	2124.84	N.A.	34.80
0-60	3684.17	N.A.	60.40
0-80	4885.55	N.A.	80.10
0-90	5283.22	N.A.	86.60
10-90	5124.35	N.A.	84.00
20-40	1505.7	N.A.	24.70
20-50	2319.01	N.A.	38.00
40-70	2214.42	N.A.	36.30
60-80	1201.38	N.A.	19.70
70-80	546.29	N.A.	9.00
80-90	397.67	N.A.	6.50
90-110	473.28	N.A.	7.80
90-120	622.30	N.A.	10.20
90-130	724.28	N.A.	11.90
90-150	808.88	N.A.	13.30
90-180	814.78	N.A.	13.40
110-180	341.50	N.A.	5.60
0-180	6098.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.87
10-20	460.27
20-30	693.51
30-40	812.19
40-50	813.31
50-60	746.03
60-70	655.09
70-80	546.29
80-90	397.67
90-100	270.76
100-110	202.53
110-120	149.02
120-130	101.98
130-140	58.53
140-150	26.07
150-160	5.49
160-170	0.31
170-180	0.10

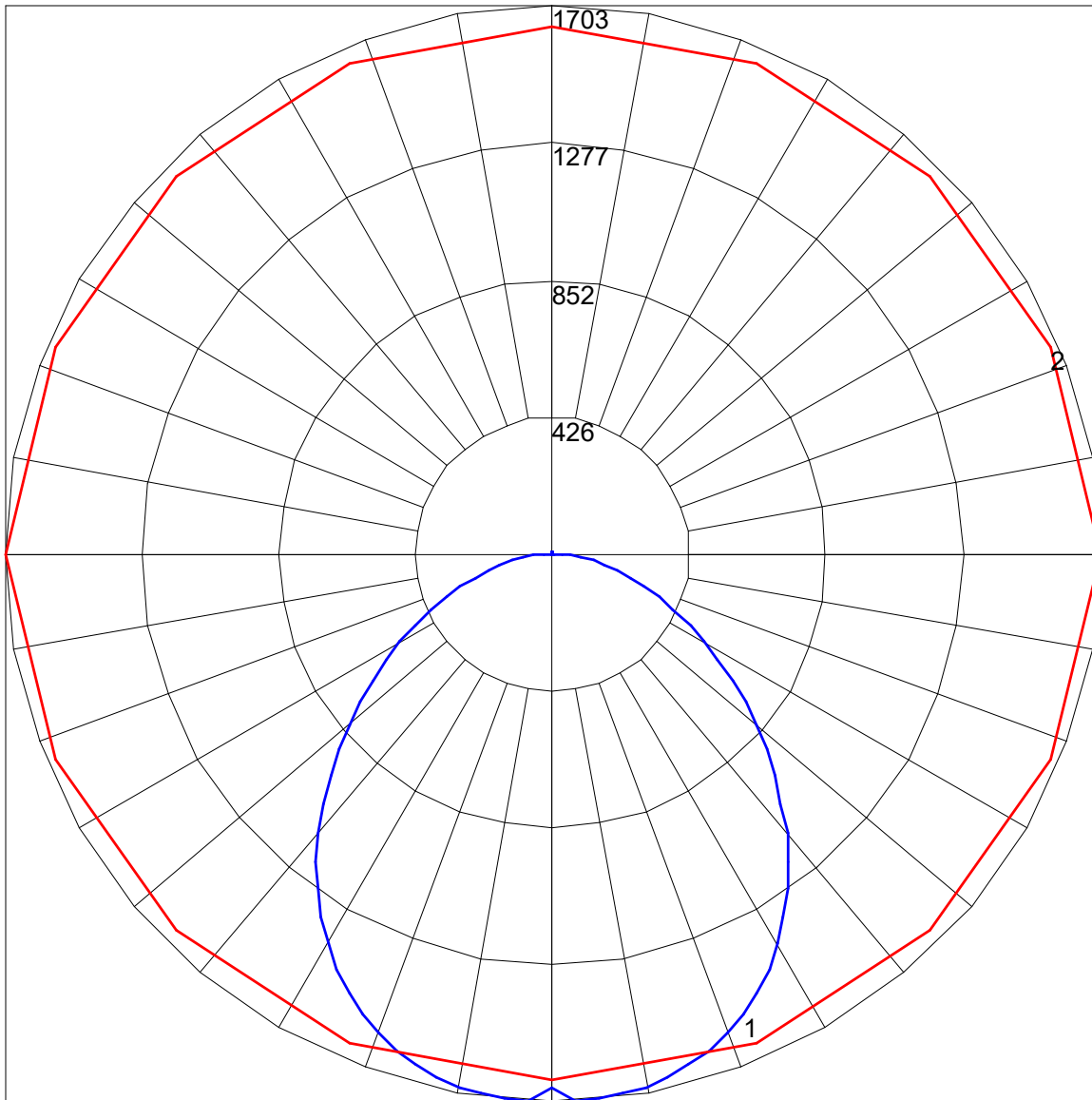
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 1703 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.)