



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-60L-830.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-4-60L-830  
[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] 3000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5667
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	9564	7293	6831
55	8019	6177	6299
65	6371	5451	6399
75	4865	5151	6383
85	2862	4967	5724

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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	1543	1543	1543	1543	1543
2.5	1583	1556	1545	1533	1522
5.0	1581	1556	1546	1538	1526
7.5	1575	1553	1547	1540	1529
10.0	1565	1546	1543	1536	1526
12.5	1549	1535	1532	1527	1519
15.0	1529	1519	1518	1514	1504
17.5	1504	1497	1497	1493	1485
20.0	1475	1471	1471	1467	1460
22.5	1440	1441	1441	1436	1427
25.0	1399	1404	1405	1400	1389
27.5	1352	1362	1364	1358	1347
30.0	1302	1316	1319	1313	1302
32.5	1245	1264	1270	1265	1254
35.0	1185	1208	1216	1212	1203
37.5	1122	1146	1159	1161	1153
40.0	1055	1083	1102	1109	1104
42.5	979	1017	1045	1058	1058
45.0	909	952	986	1011	1016
47.5	839	885	929	966	977
50.0	770	822	876	923	944
52.5	700	758	825	887	913
55.0	633	698	775	854	889
57.5	569	638	730	825	871
60.0	508	581	685	801	855
62.5	448	524	646	779	841
65.0	385	474	610	761	827
67.5	333	425	576	742	810
70.0	282	382	546	721	789
72.5	237	342	518	698	760
75.0	195	305	489	669	724
77.5	156	271	464	634	685
80.0	120	238	436	595	639
82.5	85	210	405	553	591
85.0	53	180	373	508	539
87.5	27	153	338	459	486
90.0	4	127	305	409	433
92.5	1	120	285	377	396
95.0	1	115	269	351	366
97.5	1	111	253	324	339
100.0	1	107	238	302	314
102.5	1	102	224	281	293
105.0	1	96	211	263	273
107.5	1	90	198	247	258
110.0	1	84	190	233	242
112.5	1	75	178	221	231
115.0	1	66	168	211	220
117.5	1	57	158	201	211
120.0	1	50	147	193	202
122.5	1	42	135	182	194
125.0	1	34	125	171	183
127.5	1	28	113	160	172
130.0	1	20	101	147	160
132.5	1	14	90	135	149

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CANDELA TABULATION - (Cont.)

135.0	1	7	79	124	136
137.5	1	2	68	111	125
140.0	1	1	56	98	112
142.5	1	1	47	86	98
145.0	1	1	35	73	85
147.5	1	1	25	59	72
150.0	1	1	15	47	56
152.5	1	1	4	33	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	575.32	N.A.	10.20
0-30	1219.79	N.A.	21.50
0-40	1974.61	N.A.	34.80
0-60	3423.63	N.A.	60.40
0-80	4539.91	N.A.	80.10
0-90	4909.56	N.A.	86.60
10-90	4761.93	N.A.	84.00
20-40	1399.29	N.A.	24.70
20-50	2155.09	N.A.	38.00
40-70	2057.69	N.A.	36.30
60-80	1116.28	N.A.	19.70
70-80	507.61	N.A.	9.00
80-90	369.64	N.A.	6.50
90-110	439.72	N.A.	7.80
90-120	578.13	N.A.	10.20
90-130	672.97	N.A.	11.90
90-150	751.64	N.A.	13.30
90-180	757.19	N.A.	13.40
110-180	317.47	N.A.	5.60
0-180	5666.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.63
10-20	427.69
20-30	644.47
30-40	754.82
40-50	755.80
50-60	693.22
60-70	608.67
70-80	507.61
80-90	369.64
90-100	251.64
100-110	188.08
110-120	138.41
120-130	94.84
130-140	54.41
140-150	24.26
150-160	5.14
160-170	0.31
170-180	0.10

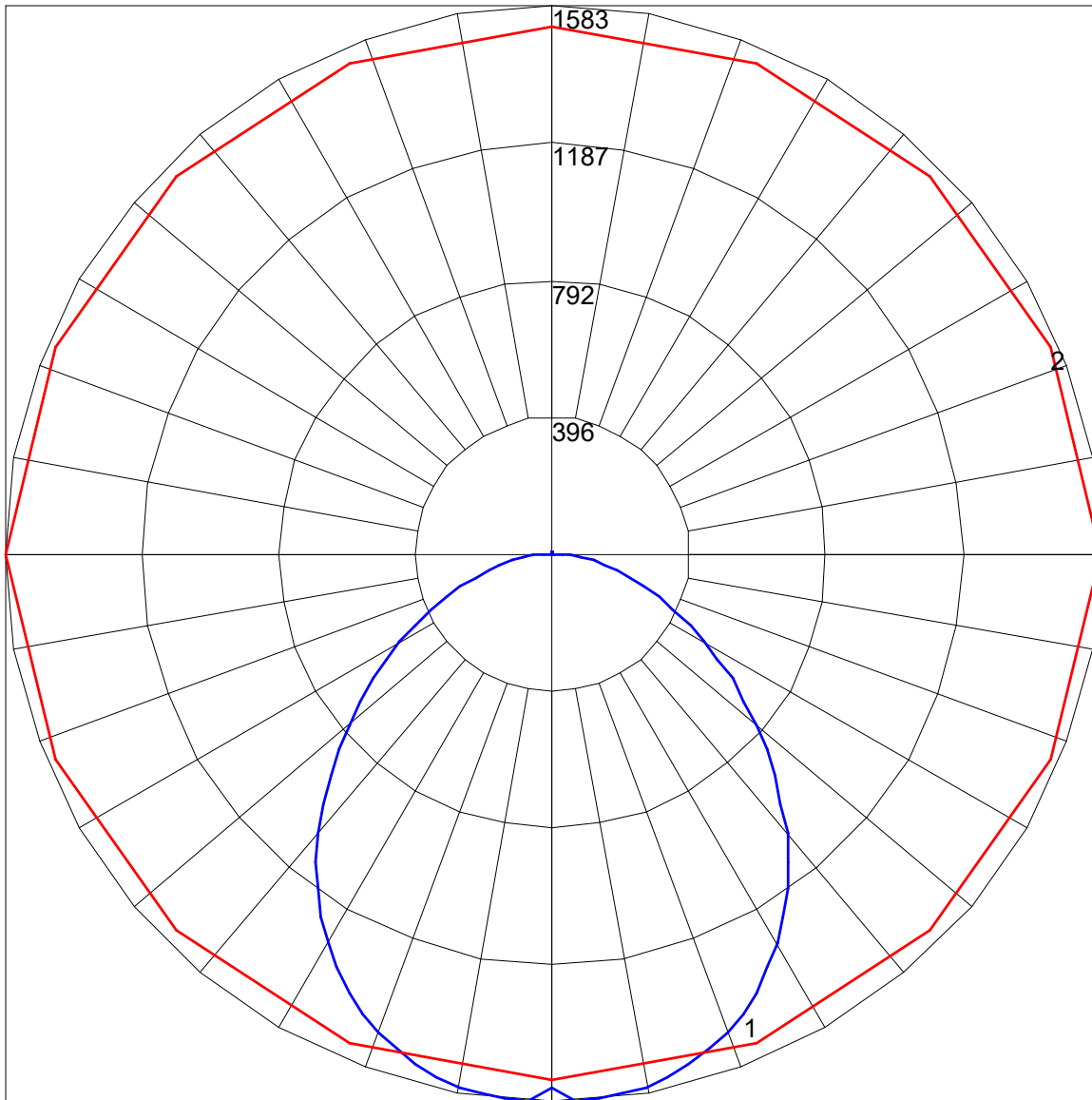
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	52	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 = 1583 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.)