



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-35L-850.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12471  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 02/17/21  
[TESTDATE] 02/03/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] SW-4-35L-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	3593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	26
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	6060	4623	4330
55	5093	3922	3996
65	4054	3450	4062
75	3069	3276	4047
85	1836	3143	3632

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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	978	978	978	978	978
2.5	1003	987	979	972	964
5.0	1002	987	980	975	968
7.5	999	985	981	976	970
10.0	992	980	978	974	968
12.5	982	973	972	969	963
15.0	970	963	962	960	954
17.5	954	949	949	947	942
20.0	935	933	933	930	926
22.5	912	913	914	910	905
25.0	887	890	891	888	881
27.5	857	864	865	861	854
30.0	825	834	837	833	826
32.5	789	801	805	802	795
35.0	751	766	771	768	763
37.5	711	727	735	736	731
40.0	669	686	699	703	700
42.5	621	645	663	671	671
45.0	576	604	625	641	644
47.5	532	562	589	613	619
50.0	488	521	555	586	598
52.5	444	481	523	563	578
55.0	402	442	492	541	564
57.5	361	405	462	523	552
60.0	321	368	434	508	542
62.5	284	332	410	494	533
65.0	245	301	386	482	525
67.5	211	270	365	471	514
70.0	179	242	346	458	500
72.5	150	217	328	443	482
75.0	123	193	311	424	459
77.5	99	172	294	403	434
80.0	76	151	276	378	405
82.5	54	133	257	351	374
85.0	34	114	236	321	342
87.5	17	97	214	291	308
90.0	2	81	193	260	274
92.5	0	76	181	239	251
95.0	0	73	171	222	232
97.5	0	70	161	206	215
100.0	0	68	151	191	199
102.5	0	65	142	178	185
105.0	0	61	133	167	173
107.5	0	57	126	157	163
110.0	0	53	120	148	154
112.5	0	48	113	140	146
115.0	0	42	107	134	140
117.5	0	37	100	128	134
120.0	1	31	93	122	128
122.5	1	27	86	116	123
125.0	0	22	79	108	116
127.5	1	17	72	101	109
130.0	1	13	64	93	102
132.5	1	9	57	86	94

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CANDELA TABULATION - (Cont.)

135.0	1	4	50	79	87
137.5	1	1	43	70	79
140.0	1	1	36	62	71
142.5	1	1	29	54	62
145.0	1	1	23	46	54
147.5	1	1	16	38	45
150.0	1	1	9	30	36
152.5	1	1	3	21	28
155.0	1	1	1	14	19
157.5	1	1	1	5	10
160.0	1	1	1	1	2
162.5	1	1	1	1	0
165.0	1	1	1	1	0
167.5	1	1	1	1	0
170.0	1	1	1	1	0
172.5	1	1	1	1	0
175.0	1	1	1	1	0
177.5	1	1	1	1	0
180.0	1	1	1	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	364.81	N.A.	10.20
0-30	773.44	N.A.	21.50
0-40	1251.99	N.A.	34.80
0-60	2170.78	N.A.	60.40
0-80	2878.69	N.A.	80.10
0-90	3112.96	N.A.	86.60
10-90	3019.36	N.A.	84.00
20-40	887.18	N.A.	24.70
20-50	1366.48	N.A.	38.00
40-70	1304.76	N.A.	36.30
60-80	707.91	N.A.	19.70
70-80	321.94	N.A.	9.00
80-90	234.27	N.A.	6.50
90-110	278.67	N.A.	7.80
90-120	366.49	N.A.	10.20
90-130	426.62	N.A.	11.90
90-150	476.61	N.A.	13.30
90-180	480.31	N.A.	13.40
110-180	201.64	N.A.	5.60
0-180	3593.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	93.60
10-20	271.20
20-30	408.64
30-40	478.55
40-50	479.29
50-60	439.50
60-70	385.97
70-80	321.94
80-90	234.27
90-100	159.53
100-110	119.14
110-120	87.81
120-130	60.13
130-140	34.54
140-150	15.46
150-160	3.35
160-170	0.26
170-180	0.08

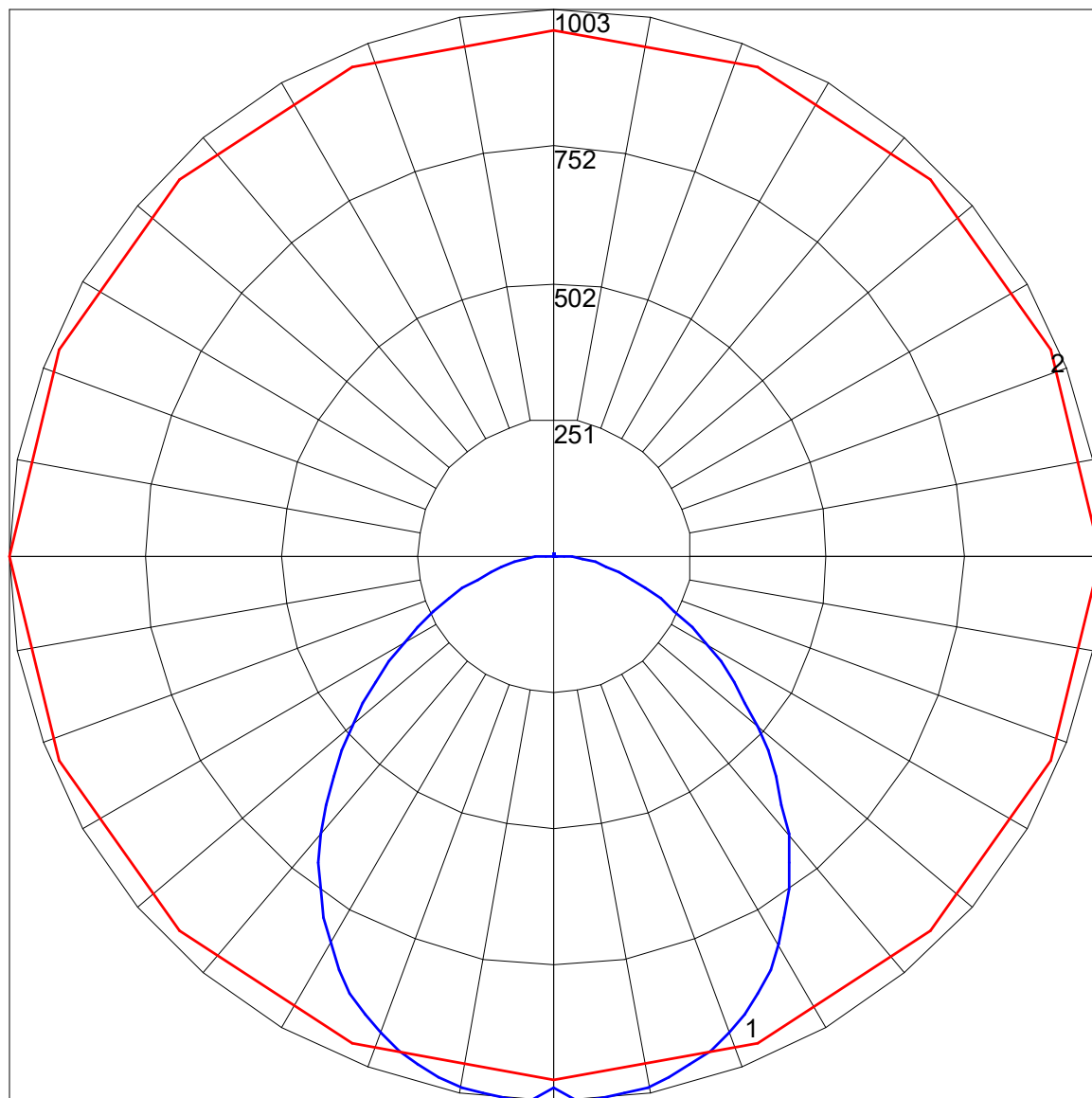
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1003 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.)