



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-35L-840.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-4-35L-840  
[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] 4000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	5902	4504	4216
55	4966	3818	3890
65	3955	3360	3954
75	2994	3192	3941
85	1782	3063	3537

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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>	953	953	953	953	953
<b>2.5</b>	977	961	954	947	939
<b>5.0</b>	976	961	955	950	943
<b>7.5</b>	973	960	956	951	945
<b>10.0</b>	966	955	953	949	943
<b>12.5</b>	957	948	947	944	938
<b>15.0</b>	945	938	937	935	929
<b>17.5</b>	929	924	924	922	918
<b>20.0</b>	911	909	909	906	902
<b>22.5</b>	888	889	890	886	882
<b>25.0</b>	864	867	868	865	858
<b>27.5</b>	835	842	843	839	832
<b>30.0</b>	804	812	815	811	805
<b>32.5</b>	769	780	784	781	774
<b>35.0</b>	732	746	751	748	743
<b>37.5</b>	693	708	716	717	712
<b>40.0</b>	652	668	681	685	682
<b>42.5</b>	605	628	646	654	654
<b>45.0</b>	561	588	609	624	627
<b>47.5</b>	518	547	574	597	603
<b>50.0</b>	475	508	541	571	583
<b>52.5</b>	433	469	509	548	563
<b>55.0</b>	392	431	479	527	549
<b>57.5</b>	352	395	450	509	538
<b>60.0</b>	313	358	423	495	528
<b>62.5</b>	277	323	399	481	519
<b>65.0</b>	239	293	376	470	511
<b>67.5</b>	206	263	356	459	501
<b>70.0</b>	174	236	337	446	487
<b>72.5</b>	146	211	320	432	470
<b>75.0</b>	120	188	303	413	447
<b>77.5</b>	96	168	286	393	423
<b>80.0</b>	74	147	269	368	395
<b>82.5</b>	53	130	250	342	364
<b>85.0</b>	33	111	230	313	333
<b>87.5</b>	17	94	208	283	300
<b>90.0</b>	2	79	188	253	267
<b>92.5</b>	0	74	176	233	245
<b>95.0</b>	0	71	167	216	226
<b>97.5</b>	0	68	157	201	209
<b>100.0</b>	0	66	147	186	194
<b>102.5</b>	0	63	138	173	180
<b>105.0</b>	0	59	130	163	169
<b>107.5</b>	0	56	123	153	159
<b>110.0</b>	0	52	117	144	150
<b>112.5</b>	0	47	110	136	142
<b>115.0</b>	0	41	104	131	136
<b>117.5</b>	0	36	97	125	131
<b>120.0</b>	1	30	91	119	125
<b>122.5</b>	1	26	84	113	120
<b>125.0</b>	0	21	77	105	113
<b>127.5</b>	1	17	70	98	106
<b>130.0</b>	1	13	62	91	99
<b>132.5</b>	1	9	56	84	92

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CANDELA TABULATION - (Cont.)

135.0	1	4	49	77	85
137.5	1	1	42	68	77
140.0	1	1	35	60	69
142.5	1	1	28	53	60
145.0	1	1	22	45	53
147.5	1	1	16	37	44
150.0	1	1	9	29	35
152.5	1	1	3	20	27
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	355.37	N.A.	10.20
0-30	753.42	N.A.	21.50
0-40	1219.54	N.A.	34.80
0-60	2114.59	N.A.	60.40
0-80	2804.27	N.A.	80.10
0-90	3032.43	N.A.	86.60
10-90	2941.23	N.A.	84.00
20-40	864.18	N.A.	24.70
20-50	1331.06	N.A.	38.00
40-70	1271.05	N.A.	36.30
60-80	689.68	N.A.	19.70
70-80	313.68	N.A.	9.00
80-90	228.15	N.A.	6.50
90-110	271.48	N.A.	7.80
90-120	357.04	N.A.	10.20
90-130	415.60	N.A.	11.90
90-150	464.39	N.A.	13.30
90-180	468.01	N.A.	13.40
110-180	196.53	N.A.	5.60
0-180	3500.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.20
10-20	264.17
20-30	398.06
30-40	466.12
40-50	466.88
50-60	428.17
60-70	376.00
70-80	313.68
80-90	228.15
90-100	155.41
100-110	116.08
110-120	85.56
120-130	58.56
130-140	33.73
140-150	15.07
150-160	3.28
160-170	0.26
170-180	0.08

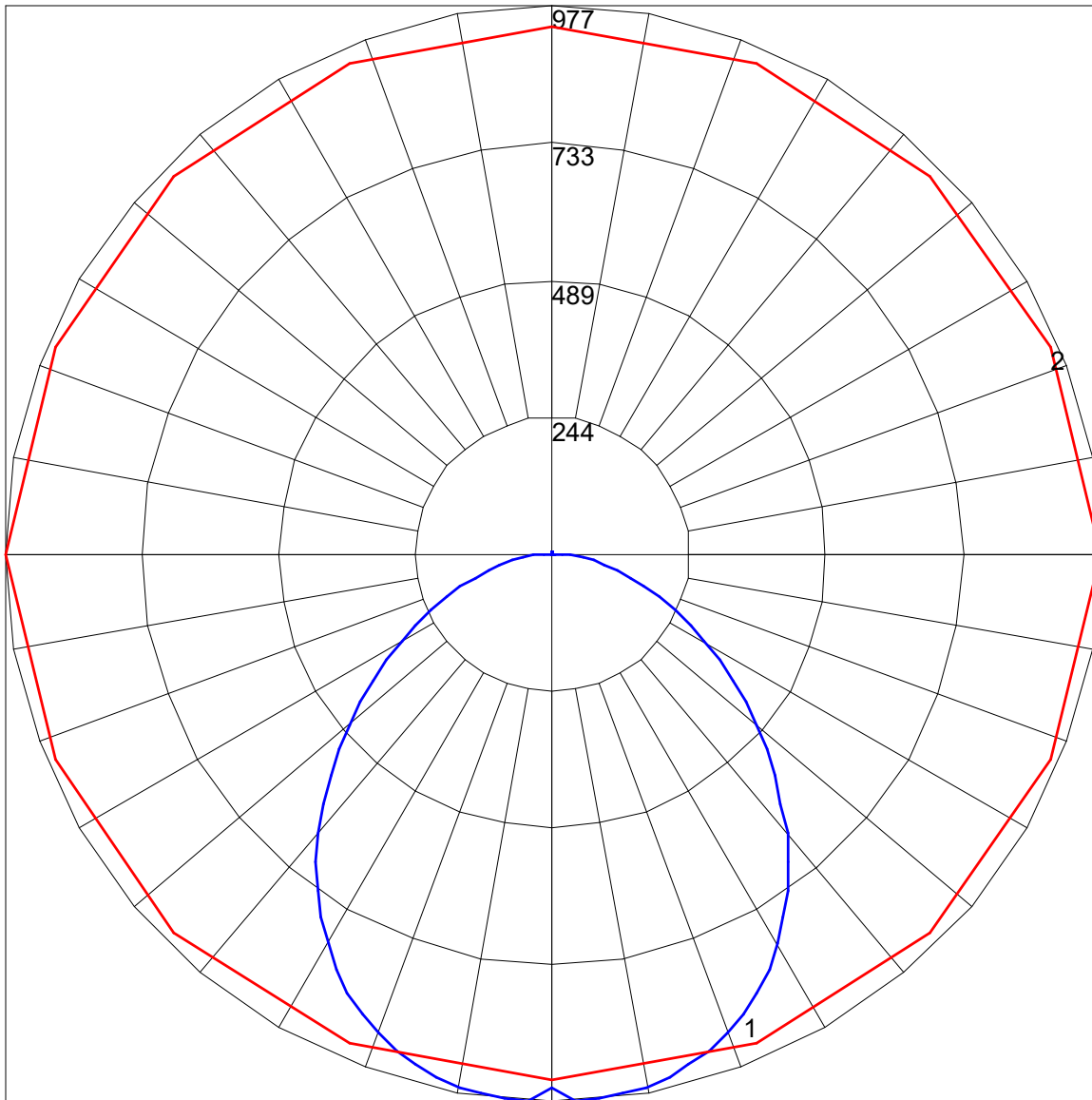
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 977 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.)