



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-70L-FL-35.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-9918\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]03/20/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SDL4-LED-70L-FL-35  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	52.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.25 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17373	11302	10590
55	16242	9835	9453
65	14719	8444	8346
75	11700	7089	7362
85	5302	6004	6546

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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	1718.886	1718.886	1718.886	1718.886	1718.886
2.5	1760.981	1736.425	1722.394	1708.362	1694.330
5.0	1760.981	1732.917	1722.394	1708.362	1694.330
7.5	1757.473	1729.410	1718.886	1704.854	1694.330
10.0	1750.457	1722.394	1715.378	1704.854	1690.822
12.5	1736.425	1711.870	1704.854	1697.838	1687.314
15.0	1722.394	1701.346	1694.330	1690.822	1680.298
17.5	1701.346	1680.298	1680.298	1680.298	1669.775
20.0	1676.791	1659.251	1662.759	1666.267	1659.251
22.5	1648.727	1631.187	1641.711	1652.235	1645.219
25.0	1613.648	1603.124	1617.156	1631.187	1631.187
27.5	1578.569	1568.045	1589.092	1610.140	1610.140
30.0	1536.473	1532.965	1557.521	1585.584	1589.092
32.5	1490.870	1490.870	1525.950	1561.029	1561.029
35.0	1441.759	1448.775	1483.854	1529.457	1532.965
37.5	1389.140	1399.664	1445.267	1494.378	1501.394
40.0	1333.013	1347.045	1399.664	1455.791	1466.315
42.5	1276.887	1294.426	1354.061	1417.204	1427.728
45.0	1213.744	1238.299	1301.442	1375.109	1392.648
47.5	1150.601	1178.664	1252.331	1333.013	1354.061
50.0	1083.950	1119.030	1199.712	1290.918	1311.966
52.5	1024.316	1052.379	1147.093	1241.807	1273.379
55.0	943.633	989.236	1087.458	1192.696	1224.268
57.5	876.983	922.586	1031.331	1143.585	1178.664
60.0	806.824	855.935	978.712	1094.474	1133.061
62.5	736.665	792.792	922.586	1041.855	1083.950
65.0	655.983	726.142	866.459	989.236	1031.331
67.5	582.316	659.491	810.332	940.125	982.220
70.0	505.142	592.840	754.205	887.506	933.109
72.5	424.460	522.682	701.586	838.395	883.998
75.0	347.285	466.555	648.967	789.284	838.395
77.5	273.619	410.428	599.856	743.681	792.792
80.0	199.952	357.809	554.253	698.078	747.189
82.5	136.809	308.698	508.650	652.475	701.586
85.0	73.667	263.095	466.555	610.380	659.491
87.5	31.571	221.000	427.967	571.793	620.904
90.0	3.508	185.920	389.380	529.697	582.316
92.5	0.000	154.349	354.301	491.110	540.221
95.0	3.508	129.793	319.222	452.523	501.634
97.5	3.508	108.746	287.650	417.444	463.047
100.0	3.508	87.698	256.079	382.364	427.967
102.5	3.508	73.667	231.523	347.285	392.888
105.0	3.508	63.143	203.460	319.222	361.317
107.5	0.000	52.619	182.412	291.158	329.745
110.0	0.000	42.095	161.365	263.095	301.682
112.5	0.000	35.079	143.825	238.539	273.619
115.0	0.000	31.571	126.285	213.984	249.063
117.5	0.000	24.556	108.746	192.936	224.508
120.0	0.000	21.048	94.714	171.889	199.952
122.5	0.000	17.540	84.190	150.841	178.904
125.0	0.000	14.032	73.667	136.809	161.365
127.5	0.000	10.524	59.635	119.270	140.317
130.0	3.508	10.524	52.619	101.730	122.778
132.5	0.000	7.016	42.095	87.698	105.238

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	3.508	7.016	38.587	73.667	91.206
<b>137.5</b>	3.508	3.508	31.571	63.143	77.174
<b>140.0</b>	3.508	3.508	24.556	52.619	66.651
<b>142.5</b>	0.000	3.508	21.048	45.603	52.619
<b>145.0</b>	3.508	3.508	17.540	35.079	45.603
<b>147.5</b>	3.508	3.508	10.524	28.063	35.079
<b>150.0</b>	3.508	3.508	10.524	21.048	28.063
<b>152.5</b>	3.508	3.508	7.016	17.540	21.048
<b>155.0</b>	3.508	3.508	3.508	10.524	14.032
<b>157.5</b>	3.508	3.508	3.508	7.016	10.524
<b>160.0</b>	3.508	3.508	3.508	3.508	7.016
<b>162.5</b>	3.508	3.508	3.508	3.508	3.508
<b>165.0</b>	0.000	3.508	0.000	0.000	0.000
<b>167.5</b>	3.508	3.508	0.000	0.000	0.000
<b>170.0</b>	3.508	3.508	0.000	0.000	0.000
<b>172.5</b>	3.508	0.000	0.000	0.000	0.000
<b>175.0</b>	3.508	3.508	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	643.59	N.A.	9.10
0-30	1390.14	N.A.	19.70
0-40	2321.00	N.A.	32.90
0-60	4303.38	N.A.	61.10
0-80	5814.24	N.A.	82.50
0-90	6283.41	N.A.	89.20
10-90	6119.21	N.A.	86.80
20-40	1677.41	N.A.	23.80
20-50	2684.85	N.A.	38.10
40-70	2831.54	N.A.	40.20
60-80	1510.86	N.A.	21.40
70-80	661.71	N.A.	9.40
80-90	469.17	N.A.	6.70
90-110	521.22	N.A.	7.40
90-120	645.14	N.A.	9.20
90-130	713.59	N.A.	10.10
90-150	758.98	N.A.	10.80
90-180	763.32	N.A.	10.80
110-180	242.10	N.A.	3.40
0-180	7046.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	164.20
10-20	479.39
20-30	746.55
30-40	930.86
40-50	1007.44
50-60	974.94
60-70	849.15
70-80	661.71
80-90	469.17
90-100	316.62
100-110	204.59
110-120	123.92
120-130	68.45
130-140	32.55
140-150	12.84
150-160	3.62
160-170	0.64
170-180	0.07

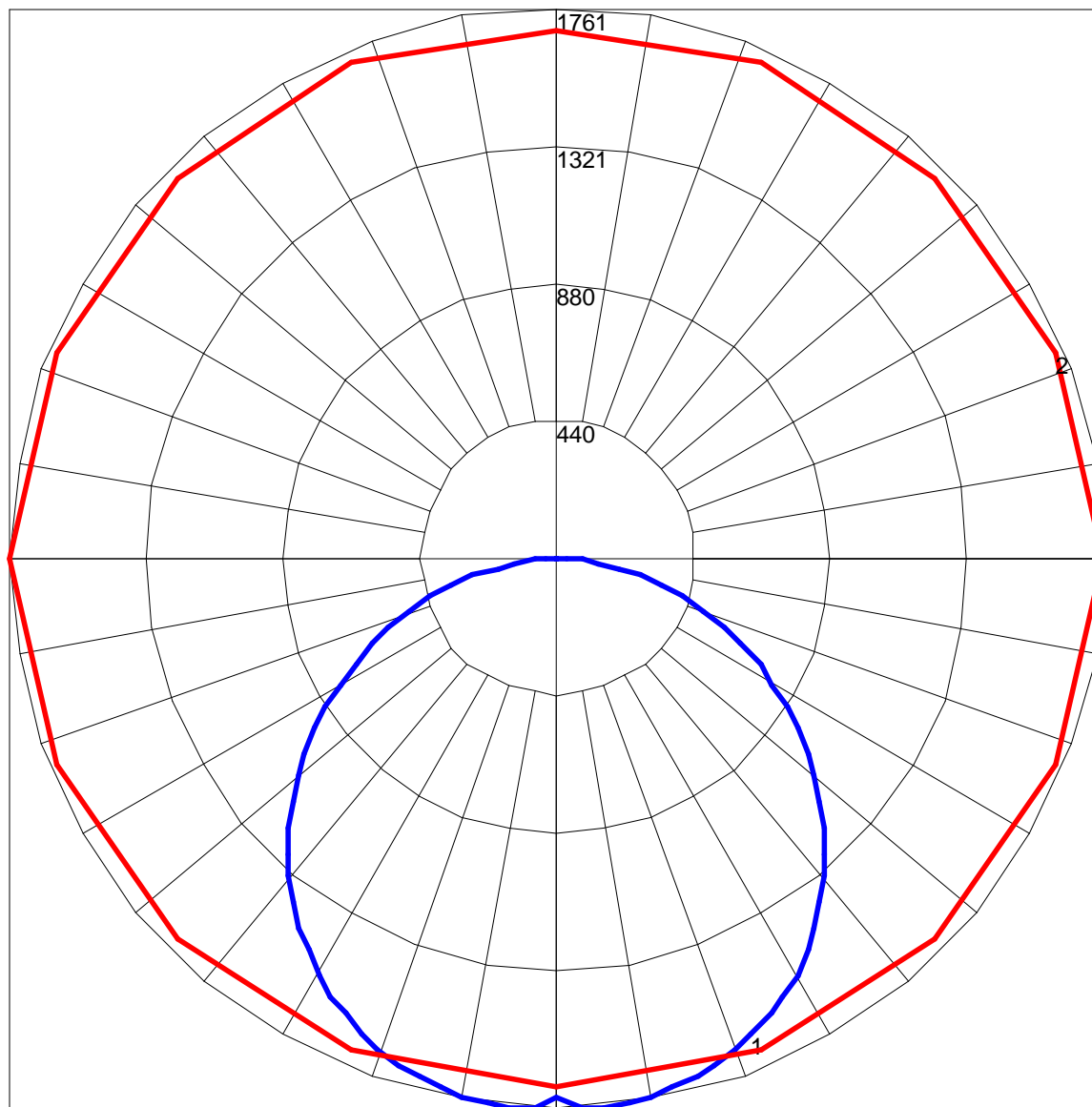
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	77	74	72	69
2	93	84	76	70	89	81	74	68	76	70	65	71	66	62	66	62	59	56
3	84	73	64	57	81	70	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	46	58	51	45	54	48	43	51	46	41	38
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	40	35	33
6	65	51	42	35	62	49	41	34	47	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	32	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1760.981 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.)