



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-70L-FL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9829  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/18  
[TEST DATE]03/01/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]SDL8-LED-70L-FL-40  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	52.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 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	8864	5845	5502
55	8428	5130	4912
65	7692	4407	4358
75	6513	3758	3842
85	4228	3126	3122

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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	1755.246	1755.246	1755.246	1755.246	1755.246
2.5	1762.247	1764.247	1756.246	1754.245	1761.246
5.0	1761.246	1763.247	1757.246	1756.246	1762.247
7.5	1756.246	1759.246	1753.245	1756.246	1761.246
10.0	1747.244	1751.245	1748.245	1752.245	1760.246
12.5	1733.243	1738.243	1739.243	1747.244	1756.246
15.0	1716.240	1723.241	1727.242	1740.244	1747.244
17.5	1694.237	1703.238	1711.239	1728.242	1739.243
20.0	1669.234	1680.235	1693.237	1714.240	1726.242
22.5	1640.230	1653.231	1672.234	1697.237	1711.239
25.0	1606.225	1620.227	1647.231	1676.235	1693.237
27.5	1569.220	1586.222	1617.226	1653.231	1673.234
30.0	1527.214	1546.216	1584.222	1627.228	1647.231
32.5	1480.207	1504.210	1549.217	1597.224	1620.227
35.0	1431.200	1458.204	1511.211	1564.219	1590.223
37.5	1378.193	1408.197	1469.206	1529.214	1558.218
40.0	1321.185	1354.189	1425.199	1491.209	1523.213
42.5	1263.177	1300.182	1378.193	1449.203	1486.208
45.0	1202.168	1243.174	1329.186	1408.197	1447.203
47.5	1139.159	1184.166	1278.179	1362.191	1403.196
50.0	1073.150	1124.157	1225.171	1318.184	1360.190
52.5	1014.142	1059.148	1171.164	1271.178	1317.184
55.0	939.131	999.140	1117.156	1224.171	1272.178
57.5	868.121	930.130	1059.148	1176.165	1225.171
60.0	799.112	863.121	1000.140	1126.158	1177.165
62.5	720.101	797.112	944.132	1076.151	1127.158
65.0	645.090	729.102	888.124	1023.143	1077.151
67.5	570.080	663.093	832.116	970.136	1021.143
70.0	499.070	600.084	777.109	918.128	971.136
72.5	423.059	534.075	723.101	867.121	922.129
75.0	350.049	475.066	673.094	820.115	875.122
77.5	276.039	417.058	623.087	772.108	826.116
80.0	209.029	363.051	574.080	722.101	777.109
82.5	145.020	312.044	526.074	669.094	719.101
85.0	93.013	268.038	473.066	591.083	629.088
87.5	52.007	224.031	390.055	476.067	500.070
90.0	26.004	168.024	288.040	355.050	378.053
92.5	14.002	133.019	237.033	292.041	310.043
95.0	9.001	114.016	213.030	269.038	288.040
97.5	7.001	98.014	196.027	249.035	268.038
100.0	5.001	92.013	185.026	234.033	253.035
102.5	5.001	79.011	193.027	223.031	239.033
105.0	4.001	68.010	205.029	236.033	241.034
107.5	4.001	57.008	186.026	274.038	284.040
110.0	3.000	49.007	165.023	271.038	311.044
112.5	3.000	41.006	149.021	246.034	287.040
115.0	3.000	35.005	133.019	222.031	260.036
117.5	3.000	30.004	118.017	202.028	238.033
120.0	3.000	25.003	104.015	181.025	215.030
122.5	3.000	21.003	90.013	162.023	192.027
125.0	3.000	18.003	79.011	144.020	171.024
127.5	3.000	15.002	68.010	127.018	152.021
130.0	3.000	13.002	58.008	110.015	134.019
132.5	3.000	11.002	49.007	96.013	117.016

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**CANDELA TABULATION - (Cont.)**

135.0	3.000	9.001	40.006	82.011	102.014
137.5	3.000	8.001	34.005	69.010	86.012
140.0	3.000	6.001	29.004	57.008	71.010
142.5	3.000	5.001	24.003	47.007	58.008
145.0	3.000	4.001	19.003	38.005	48.007
147.5	3.000	4.001	16.002	31.004	39.005
150.0	3.000	3.000	12.002	25.003	31.004
152.5	3.000	3.000	9.001	19.003	24.003
155.0	3.000	3.000	6.001	14.002	18.003
157.5	3.000	3.000	5.001	10.001	14.002
160.0	3.000	3.000	4.001	7.001	9.001
162.5	3.000	3.000	3.000	5.001	6.001
165.0	3.000	3.000	3.000	3.000	4.001
167.5	3.000	3.000	3.000	2.000	3.000
170.0	3.000	3.000	3.000	2.000	3.000
172.5	3.000	3.000	2.000	2.000	2.000
175.0	3.000	3.000	2.000	2.000	2.000
177.5	3.000	3.000	2.000	2.000	2.000
180.0	2.000	2.000	2.000	2.000	2.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	656.69	N.A.	9.40
0-30	1417.05	N.A.	20.20
0-40	2362.8	N.A.	33.70
0-60	4380.1	N.A.	62.40
0-80	5929.93	N.A.	84.50
0-90	6378.36	N.A.	90.90
10-90	6210.68	N.A.	88.50
20-40	1706.11	N.A.	24.30
20-50	2729.71	N.A.	38.90
40-70	2884.79	N.A.	41.10
60-80	1549.83	N.A.	22.10
70-80	682.33	N.A.	9.70
80-90	448.43	N.A.	6.40
90-110	378.48	N.A.	5.40
90-120	509.35	N.A.	7.30
90-130	583.75	N.A.	8.30
90-150	634.37	N.A.	9.00
90-180	639.86	N.A.	9.10
110-180	261.38	N.A.	3.70
0-180	7018.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.68
10-20	489.02
20-30	760.35
30-40	945.76
40-50	1023.6
50-60	993.69
60-70	867.50
70-80	682.33
80-90	448.43
90-100	209.86
100-110	168.63
110-120	130.87
120-130	74.40
130-140	36.35
140-150	14.27
150-160	4.26
160-170	1.00
170-180	0.23

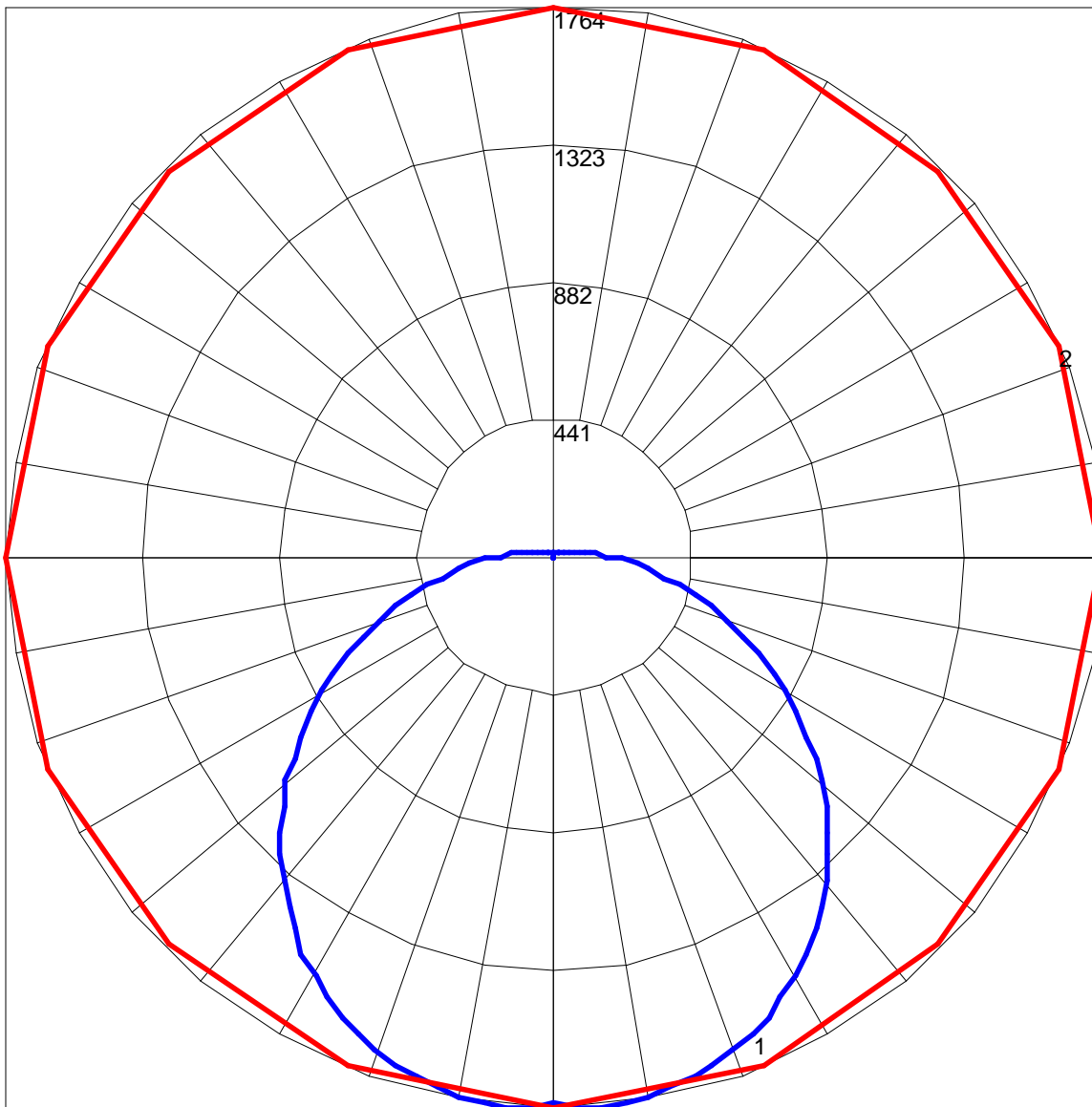
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	98	93	88	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	84	76	70	90	82	74	68	76	70	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	38	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 1764.247 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)