



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-80L-FL-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9829\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]03/01/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]SDL8-LED-80L-FL-50  
[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	8664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	60.6
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	10943	7216	6793
55	10404	6333	6063
65	9496	5441	5380
75	8040	4639	4743
85	5220	3860	3855

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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	2166.881	2166.881	2166.881	2166.881	2166.881
2.5	2175.524	2177.993	2168.116	2165.646	2174.289
5.0	2174.289	2176.758	2169.350	2168.116	2175.524
7.5	2168.116	2171.820	2164.411	2168.116	2174.289
10.0	2157.003	2161.942	2158.238	2163.177	2173.054
12.5	2139.718	2145.891	2147.126	2157.003	2168.116
15.0	2118.728	2127.371	2132.310	2148.361	2157.003
17.5	2091.565	2102.677	2112.555	2133.544	2147.126
20.0	2060.698	2074.279	2090.330	2116.259	2131.075
22.5	2024.892	2040.942	2064.402	2095.269	2112.555
25.0	1982.912	2000.198	2033.534	2069.340	2090.330
27.5	1937.229	1958.218	1996.494	2040.942	2065.636
30.0	1885.372	1908.831	1955.749	2008.841	2033.534
32.5	1827.341	1856.974	1912.535	1971.800	2000.198
35.0	1766.841	1800.178	1865.617	1931.055	1963.157
37.5	1701.403	1738.443	1813.760	1887.841	1923.647
40.0	1631.025	1671.770	1759.433	1840.923	1880.433
42.5	1559.413	1605.097	1701.403	1789.066	1834.749
45.0	1484.097	1534.720	1640.903	1738.443	1786.596
47.5	1406.312	1461.873	1577.934	1681.648	1732.270
50.0	1324.822	1387.792	1512.495	1627.321	1679.178
52.5	1251.976	1307.537	1445.822	1569.291	1626.087
55.0	1159.374	1233.455	1379.149	1511.260	1570.526
57.5	1071.711	1148.262	1307.537	1451.995	1512.495
60.0	986.517	1065.537	1234.690	1390.261	1453.230
62.5	888.977	984.048	1165.547	1328.526	1391.496
65.0	796.375	900.089	1096.405	1263.088	1329.761
67.5	703.773	818.599	1027.262	1197.649	1260.618
70.0	616.110	740.814	959.354	1133.445	1198.884
72.5	522.274	659.324	892.681	1070.476	1138.384
75.0	432.141	586.478	830.946	1012.446	1080.354
77.5	340.774	514.866	769.212	953.181	1019.854
80.0	258.050	448.192	708.712	891.446	959.354
82.5	179.030	385.223	649.447	826.008	887.742
85.0	114.826	330.897	584.008	729.702	776.620
87.5	64.204	276.571	481.529	587.712	617.345
90.0	32.102	207.428	355.591	438.315	466.713
92.5	17.286	164.214	292.622	360.529	382.754
95.0	11.112	140.755	262.989	332.132	355.591
97.5	8.643	121.000	241.999	307.438	330.897
100.0	6.173	113.591	228.418	288.917	312.377
102.5	6.173	97.541	238.295	275.336	295.091
105.0	4.939	83.959	253.111	291.387	297.560
107.5	4.939	70.377	229.652	338.305	350.652
110.0	3.704	60.500	203.724	334.601	383.989
112.5	3.704	50.622	183.969	303.734	354.356
115.0	3.704	43.214	164.214	274.101	321.019
117.5	3.704	37.041	145.693	249.407	293.856
120.0	3.704	30.867	128.408	223.479	265.458
122.5	3.704	25.928	111.122	200.020	237.060
125.0	3.704	22.224	97.541	177.795	211.132
127.5	3.704	18.520	83.959	156.806	187.673
130.0	3.704	16.051	71.612	135.816	165.448
132.5	3.704	13.582	60.500	118.530	144.459

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CANDELA TABULATION - (Cont.)

135.0	3.704	11.112	49.388	101.245	125.938
137.5	3.704	9.878	41.979	85.194	106.183
140.0	3.704	7.408	35.806	70.377	87.663
142.5	3.704	6.173	29.633	58.030	71.612
145.0	3.704	4.939	23.459	46.918	59.265
147.5	3.704	4.939	19.755	38.275	48.153
150.0	3.704	3.704	14.816	30.867	38.275
152.5	3.704	3.704	11.112	23.459	29.633
155.0	3.704	3.704	7.408	17.286	22.224
157.5	3.704	3.704	6.173	12.347	17.286
160.0	3.704	3.704	4.939	8.643	11.112
162.5	3.704	3.704	3.704	6.173	7.408
165.0	3.704	3.704	3.704	3.704	4.939
167.5	3.704	3.704	3.704	2.469	3.704
170.0	3.704	3.704	3.704	2.469	3.704
172.5	3.704	3.704	2.469	2.469	2.469
175.0	3.704	3.704	2.469	2.469	2.469
177.5	3.704	3.704	2.469	2.469	2.469
180.0	2.469	2.469	2.469	2.469	2.469

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	810.70	N.A.	9.40
0-30	1749.37	N.A.	20.20
0-40	2916.92	N.A.	33.70
0-60	5407.3	N.A.	62.40
0-80	7320.59	N.A.	84.50
0-90	7874.19	N.A.	90.90
10-90	7667.19	N.A.	88.50
20-40	2106.22	N.A.	24.30
20-50	3369.87	N.A.	38.90
40-70	3561.32	N.A.	41.10
60-80	1913.29	N.A.	22.10
70-80	842.35	N.A.	9.70
80-90	553.60	N.A.	6.40
90-110	467.24	N.A.	5.40
90-120	628.80	N.A.	7.30
90-130	720.65	N.A.	8.30
90-150	783.14	N.A.	9.00
90-180	789.92	N.A.	9.10
110-180	322.68	N.A.	3.70
0-180	8664.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	207.00
10-20	603.70
20-30	938.67
30-40	1167.55
40-50	1263.65
50-60	1226.73
60-70	1070.94
70-80	842.35
80-90	553.60
90-100	259.07
100-110	208.17
110-120	161.56
120-130	91.85
130-140	44.87
140-150	17.62
150-160	5.26
160-170	1.23
170-180	0.29

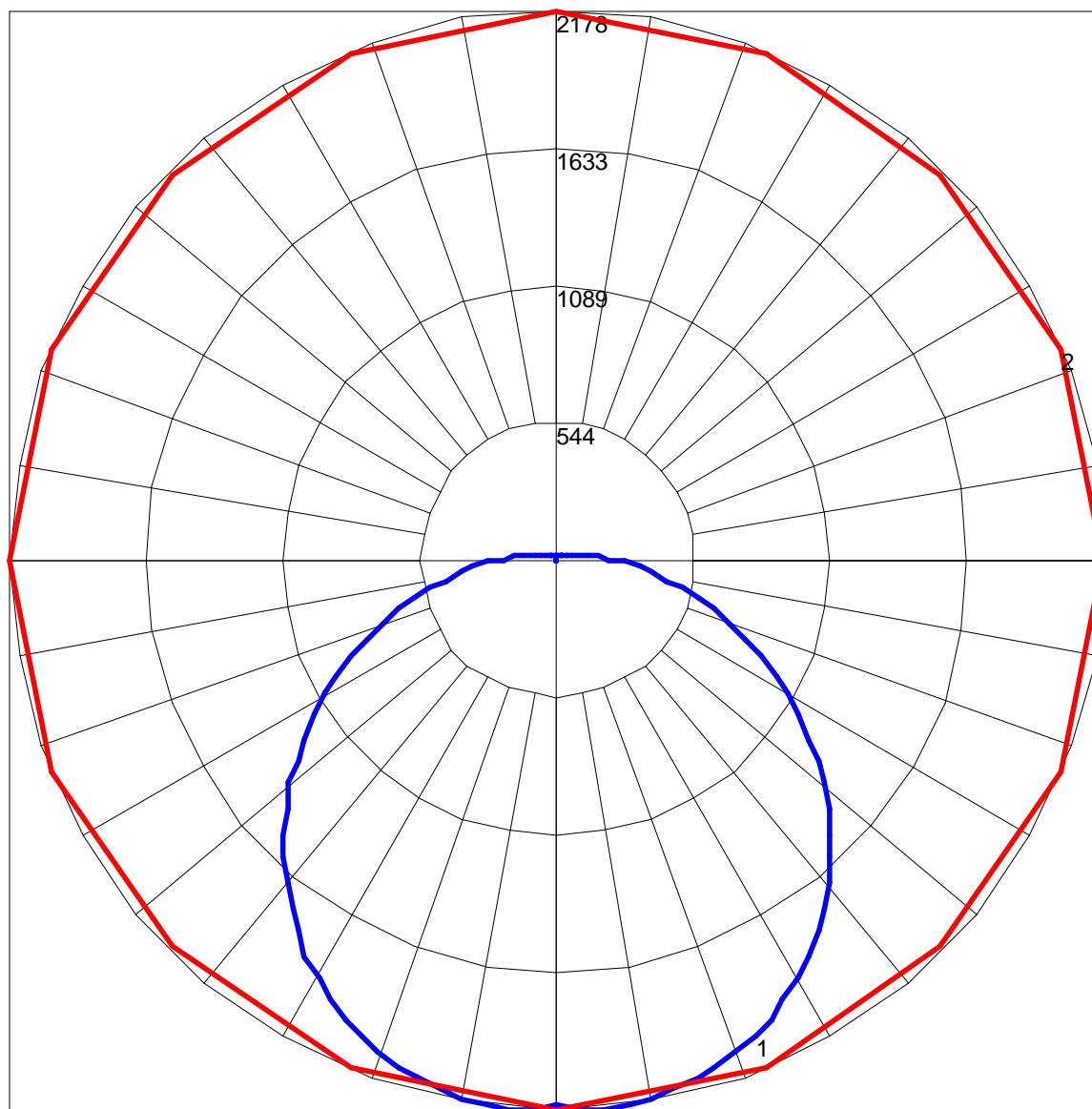
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	77	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 = 2177.993 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.)