



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDL8-LED-120L-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-120L-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	12942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	89.8
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	16347	10779	10147
55	15541	9460	9057
65	14184	8127	8037
75	12010	6929	7085
85	7797	5765	5758

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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	3236.799	3236.799	3236.799	3236.799	3236.799
2.5	3249.709	3253.398	3238.643	3234.955	3247.865
5.0	3247.865	3251.554	3240.488	3238.643	3249.709
7.5	3238.643	3244.176	3233.110	3238.643	3247.865
10.0	3222.044	3229.422	3223.889	3231.266	3246.021
12.5	3196.224	3205.445	3207.290	3222.044	3238.643
15.0	3164.870	3177.781	3185.158	3209.134	3222.044
17.5	3124.295	3140.894	3155.649	3187.002	3207.290
20.0	3078.187	3098.474	3122.451	3161.182	3183.313
22.5	3024.701	3048.677	3083.720	3129.828	3155.649
25.0	2961.994	2987.815	3037.611	3091.097	3122.451
27.5	2893.754	2925.107	2982.282	3048.677	3085.564
30.0	2816.292	2851.334	2921.419	3000.725	3037.611
32.5	2729.608	2773.872	2856.867	2945.395	2987.815
35.0	2639.236	2689.033	2786.783	2884.532	2932.485
37.5	2541.487	2596.817	2709.321	2819.980	2873.466
40.0	2436.360	2497.223	2628.170	2749.896	2808.915
42.5	2329.389	2397.629	2541.487	2672.434	2740.674
45.0	2216.885	2292.502	2451.115	2596.817	2668.745
47.5	2100.692	2183.687	2357.054	2511.977	2587.595
50.0	1978.966	2073.027	2259.304	2430.827	2508.289
52.5	1870.151	1953.145	2159.710	2344.143	2428.983
55.0	1731.826	1842.486	2060.117	2257.460	2345.988
57.5	1600.878	1715.227	1953.145	2168.932	2259.304
60.0	1473.620	1591.657	1844.330	2076.716	2170.776
62.5	1327.918	1469.931	1741.047	1984.499	2078.560
65.0	1189.593	1344.517	1637.765	1886.750	1986.343
67.5	1051.268	1222.791	1534.483	1789.000	1883.061
70.0	920.321	1106.598	1433.044	1693.095	1790.844
72.5	780.152	984.872	1333.451	1599.034	1700.472
75.0	645.515	876.057	1241.234	1512.351	1613.789
77.5	509.035	769.086	1149.018	1423.823	1523.417
80.0	385.465	669.492	1058.645	1331.606	1433.044
82.5	267.428	575.431	970.118	1233.857	1326.073
85.0	171.523	494.280	872.368	1089.999	1160.084
87.5	95.905	413.130	719.289	877.901	922.165
90.0	47.953	309.847	531.167	654.737	697.157
92.5	25.821	245.296	437.106	538.544	571.742
95.0	16.599	210.254	392.842	496.125	531.167
97.5	12.910	180.744	361.489	459.238	494.280
100.0	9.222	169.678	341.201	431.573	466.615
102.5	9.222	145.702	355.956	411.286	440.795
105.0	7.377	125.414	378.088	435.262	444.484
107.5	7.377	105.127	343.045	505.346	523.790
110.0	5.533	90.372	304.314	499.813	573.587
112.5	5.533	75.618	274.805	453.705	529.323
115.0	5.533	64.552	245.296	409.441	479.526
117.5	5.533	55.330	217.631	372.555	438.951
120.0	5.533	46.108	191.810	333.824	396.531
122.5	5.533	38.731	165.990	298.781	354.111
125.0	5.533	33.198	145.702	265.584	315.380
127.5	5.533	27.665	125.414	234.230	280.338
130.0	5.533	23.976	106.971	202.876	247.140
132.5	5.533	20.288	90.372	177.056	215.787

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	5.533	16.599	73.773	151.235	188.122
<b>137.5</b>	5.533	14.755	62.707	127.259	158.612
<b>140.0</b>	5.533	11.066	53.486	105.127	130.947
<b>142.5</b>	5.533	9.222	44.264	86.684	106.971
<b>145.0</b>	5.533	7.377	35.042	70.085	88.528
<b>147.5</b>	5.533	7.377	29.509	57.174	71.929
<b>150.0</b>	5.533	5.533	22.132	46.108	57.174
<b>152.5</b>	5.533	5.533	16.599	35.042	44.264
<b>155.0</b>	5.533	5.533	11.066	25.821	33.198
<b>157.5</b>	5.533	5.533	9.222	18.443	25.821
<b>160.0</b>	5.533	5.533	7.377	12.910	16.599
<b>162.5</b>	5.533	5.533	5.533	9.222	11.066
<b>165.0</b>	5.533	5.533	5.533	5.533	7.377
<b>167.5</b>	5.533	5.533	5.533	3.689	5.533
<b>170.0</b>	5.533	5.533	5.533	3.689	5.533
<b>172.5</b>	5.533	5.533	3.689	3.689	3.689
<b>175.0</b>	5.533	5.533	3.689	3.689	3.689
<b>177.5</b>	5.533	5.533	3.689	3.689	3.689
<b>180.0</b>	3.689	3.689	3.689	3.689	3.689

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1210.99	N.A.	9.40
0-30	2613.14	N.A.	20.20
0-40	4357.18	N.A.	33.70
0-60	8077.21	N.A.	62.40
0-80	10935.21	N.A.	84.50
0-90	11762.15	N.A.	90.90
10-90	11452.94	N.A.	88.50
20-40	3146.19	N.A.	24.30
20-50	5033.78	N.A.	38.90
40-70	5319.76	N.A.	41.10
60-80	2858.00	N.A.	22.10
70-80	1258.27	N.A.	9.70
80-90	826.94	N.A.	6.40
90-110	697.95	N.A.	5.40
90-120	939.28	N.A.	7.30
90-130	1076.48	N.A.	8.30
90-150	1169.83	N.A.	9.00
90-180	1179.96	N.A.	9.10
110-180	482.01	N.A.	3.70
0-180	12942.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	309.21
10-20	901.78
20-30	1402.15
30-40	1744.04
40-50	1887.59
50-60	1832.44
60-70	1599.73
70-80	1258.27
80-90	826.94
90-100	386.99
100-110	310.96
110-120	241.33
120-130	137.20
130-140	67.03
140-150	26.32
150-160	7.86
160-170	1.84
170-180	0.43

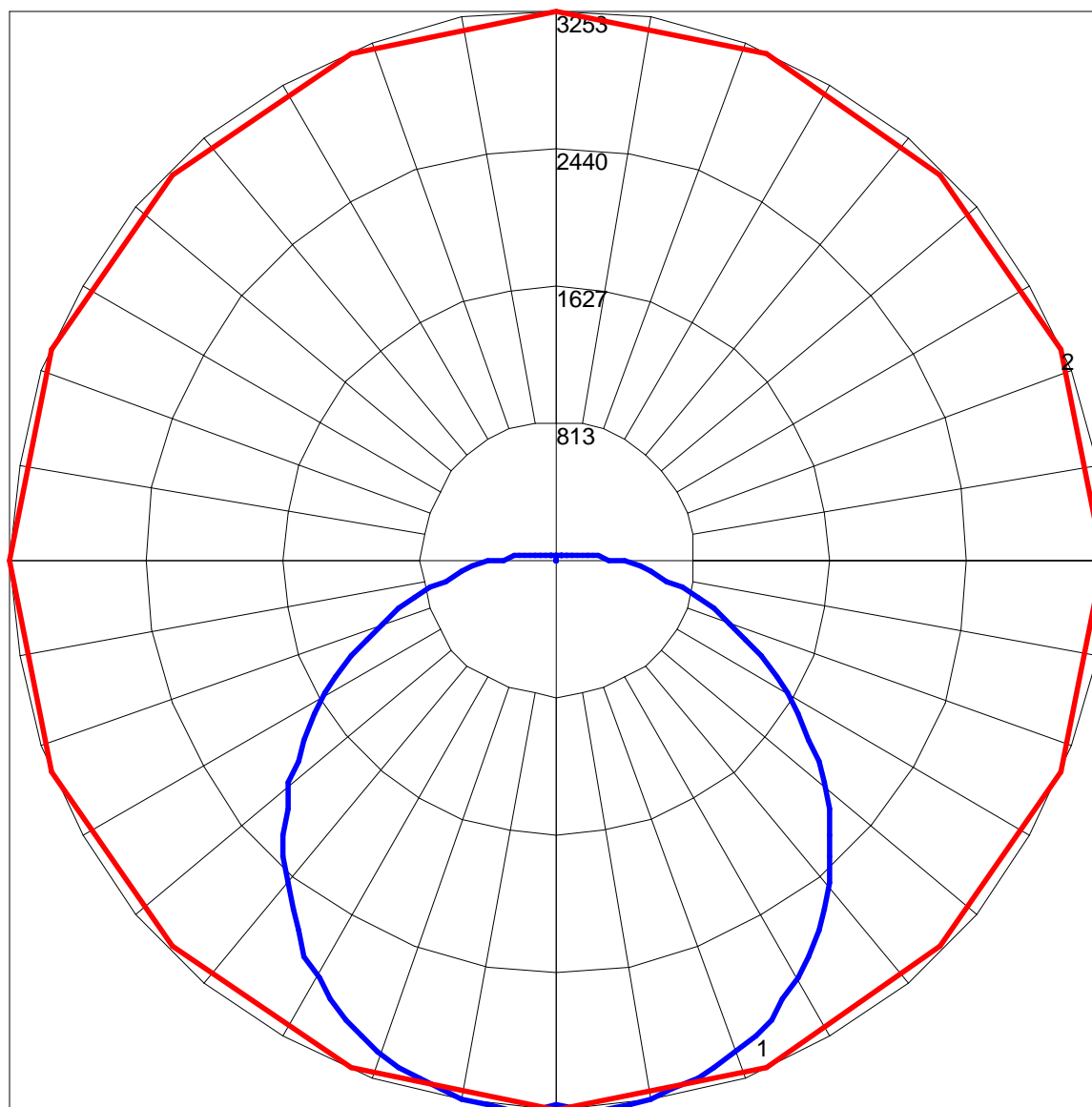
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3253.398 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.)