



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S8-LED-120L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9762\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/23/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S8-LED-120L-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	12797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	81.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23250	22974	22781
55	23239	22916	22644
65	22242	21804	21504
75	19591	19063	18837
85	13649	14880	14656

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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	3929.811	3929.811	3929.811	3929.811	3929.811
2.5	3976.962	3938.879	3922.557	3924.371	3938.879
5.0	3980.589	3940.692	3926.184	3929.811	3942.506
7.5	3975.148	3937.065	3920.744	3927.998	3938.879
10.0	3966.081	3927.998	3911.676	3918.930	3927.998
12.5	3951.573	3911.676	3895.355	3902.609	3911.676
15.0	3929.811	3891.728	3875.407	3879.034	3888.101
17.5	3897.169	3864.526	3848.205	3850.018	3857.272
20.0	3859.085	3828.256	3813.748	3813.748	3821.002
22.5	3813.748	3784.733	3772.038	3770.225	3777.479
25.0	3761.158	3735.769	3723.074	3719.448	3726.701
27.5	3704.940	3675.924	3668.670	3659.603	3665.043
30.0	3634.214	3608.825	3601.571	3592.504	3596.131
32.5	3561.675	3536.286	3525.405	3512.711	3518.151
35.0	3478.255	3452.866	3441.985	3425.664	3436.545
37.5	3383.954	3362.192	3349.498	3333.176	3342.244
40.0	3282.399	3262.451	3249.756	3231.621	3233.435
42.5	3173.590	3153.642	3140.947	3115.559	3122.813
45.0	3057.527	3030.325	3021.258	2990.429	2995.869
47.5	2928.770	2903.382	2892.501	2856.231	2867.112
50.0	2790.946	2767.371	2751.049	2718.407	2727.474
52.5	2642.240	2616.852	2605.971	2569.701	2576.955
55.0	2479.027	2451.825	2444.571	2411.928	2415.555
57.5	2301.306	2288.612	2272.290	2246.902	2250.529
60.0	2123.585	2116.331	2089.129	2065.554	2070.994
62.5	1940.424	1934.983	1904.154	1882.392	1876.952
65.0	1748.195	1748.195	1713.739	1684.723	1690.163
67.5	1552.339	1552.339	1517.883	1490.681	1485.240
70.0	1352.856	1352.856	1312.960	1289.384	1289.384
72.5	1144.306	1144.306	1113.477	1098.969	1097.155
75.0	943.010	932.129	917.621	910.367	906.740
77.5	738.086	729.019	721.765	721.765	725.392
80.0	549.484	544.044	545.857	549.484	542.231
82.5	373.577	375.390	384.458	382.644	384.458
85.0	221.245	230.312	241.193	233.939	237.566
87.5	99.741	108.809	117.876	112.436	116.063
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1474.96	N.A.	11.50
0-30	3195.92	N.A.	25.00
0-40	5351.42	N.A.	41.80
0-60	9854.88	N.A.	77.00
0-80	12525.13	N.A.	97.90
0-90	12796.91	N.A.	100.00
10-90	12421.34	N.A.	97.10
20-40	3876.46	N.A.	30.30
20-50	6203.01	N.A.	48.50
40-70	6198.31	N.A.	48.40
60-80	2670.24	N.A.	20.90
70-80	975.39	N.A.	7.60
80-90	271.78	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12796.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	375.57
10-20	1099.39
20-30	1720.95
30-40	2155.5
40-50	2326.55
50-60	2176.91
60-70	1694.85
70-80	975.39
80-90	271.78
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

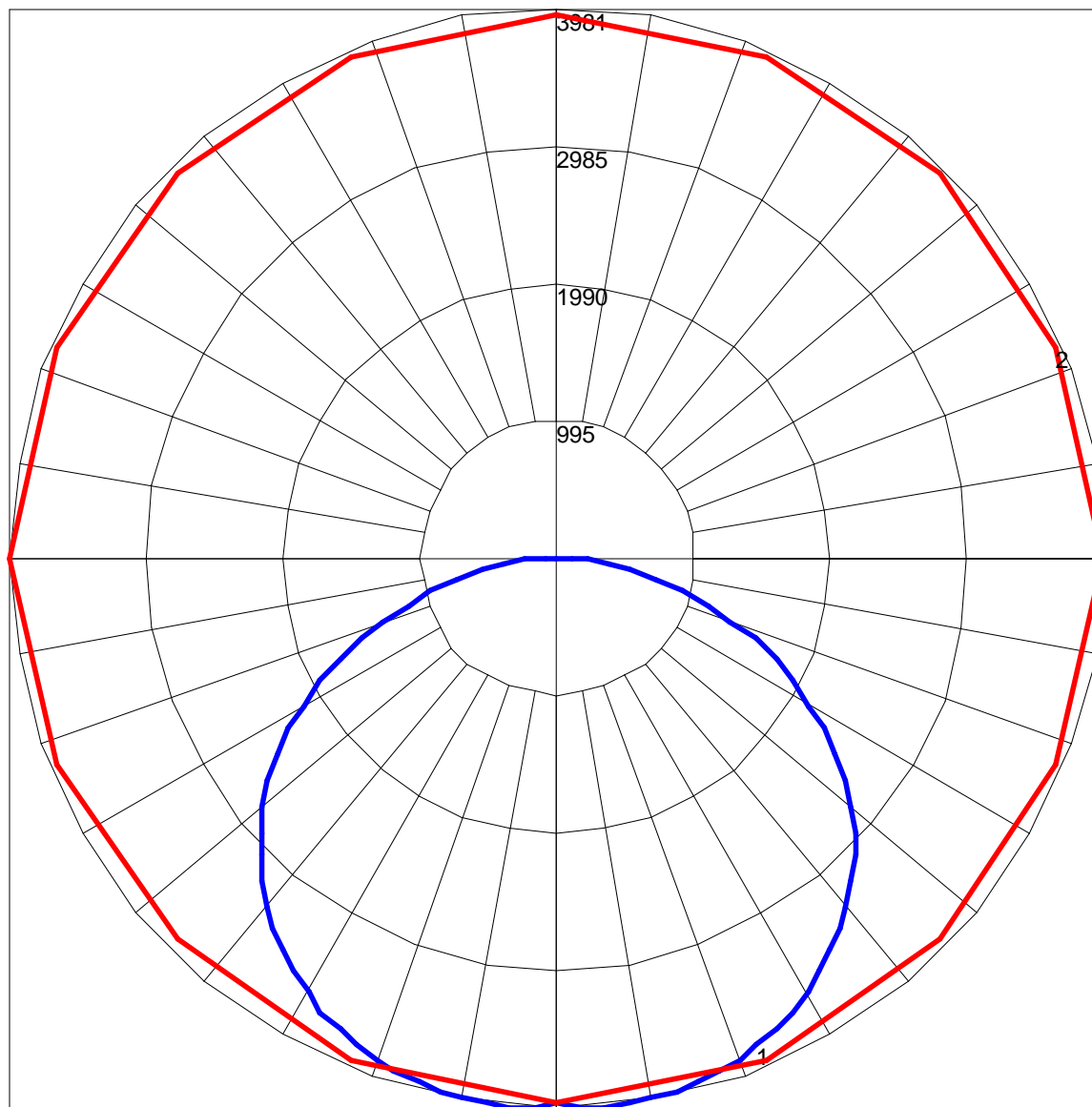
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

POLAR GRAPH



Maximum Candela = 3980.589 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)