



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S8-LED-80L-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  
[LUMEN CATEGORY]S8-LED-80L-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 SOURCE TYPE] LED  
[SEARCH APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	54.7
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	15590	15405	15276
55	15583	15366	15184
65	14914	14620	14419
75	13137	12783	12631
85	9152	9978	9828

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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	2635.115	2635.115	2635.115	2635.115	2635.115
2.5	2666.732	2641.195	2630.251	2631.467	2641.195
5.0	2669.164	2642.411	2632.683	2635.115	2643.627
7.5	2665.516	2639.979	2629.035	2633.899	2641.195
10.0	2659.436	2633.899	2622.955	2627.819	2633.899
12.5	2649.708	2622.955	2612.011	2616.875	2622.955
15.0	2635.115	2609.579	2598.635	2601.067	2607.147
17.5	2613.227	2591.339	2580.394	2581.610	2586.475
20.0	2587.691	2567.018	2557.290	2557.290	2562.154
22.5	2557.290	2537.834	2529.322	2528.106	2532.970
25.0	2522.025	2505.001	2496.489	2494.057	2498.921
27.5	2484.329	2464.873	2460.008	2453.928	2457.576
30.0	2436.904	2419.880	2415.016	2408.936	2411.368
32.5	2388.263	2371.239	2363.943	2355.431	2359.079
35.0	2332.326	2315.302	2308.006	2297.062	2304.358
37.5	2269.093	2254.501	2245.989	2235.045	2241.125
40.0	2200.996	2187.620	2179.108	2166.948	2168.164
42.5	2128.035	2114.659	2106.147	2089.122	2093.986
45.0	2050.210	2031.969	2025.889	2005.217	2008.865
47.5	1963.872	1946.848	1939.552	1915.231	1922.528
50.0	1871.455	1855.647	1844.702	1822.814	1828.894
52.5	1771.741	1754.717	1747.421	1723.100	1727.964
55.0	1662.299	1644.059	1639.195	1617.307	1619.739
57.5	1543.129	1534.617	1523.673	1506.649	1509.081
60.0	1423.959	1419.095	1400.855	1385.047	1388.695
62.5	1301.141	1297.493	1276.821	1262.229	1258.581
65.0	1172.243	1172.243	1149.139	1129.683	1133.331
67.5	1040.913	1040.913	1017.809	999.568	995.920
70.0	907.151	907.151	880.398	864.590	864.590
72.5	767.309	767.309	746.636	736.908	735.692
75.0	632.330	625.034	615.306	610.442	608.010
77.5	494.920	488.840	483.976	483.976	486.408
80.0	368.454	364.806	366.022	368.454	363.590
82.5	250.500	251.716	257.796	256.580	257.796
85.0	148.354	154.435	161.731	156.867	159.299
87.5	66.881	72.961	79.041	75.393	77.825
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	989.03	N.A.	11.50
0-30	2143.01	N.A.	25.00
0-40	3588.37	N.A.	41.80
0-60	6608.14	N.A.	77.00
0-80	8398.66	N.A.	97.90
0-90	8580.9	N.A.	100.00
10-90	8329.07	N.A.	97.10
20-40	2599.34	N.A.	30.30
20-50	4159.4	N.A.	48.50
40-70	4156.25	N.A.	48.40
60-80	1790.52	N.A.	20.90
70-80	654.05	N.A.	7.60
80-90	182.24	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	8580.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	251.84
10-20	737.19
20-30	1153.98
30-40	1445.36
40-50	1560.06
50-60	1459.72
60-70	1136.47
70-80	654.05
80-90	182.24
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

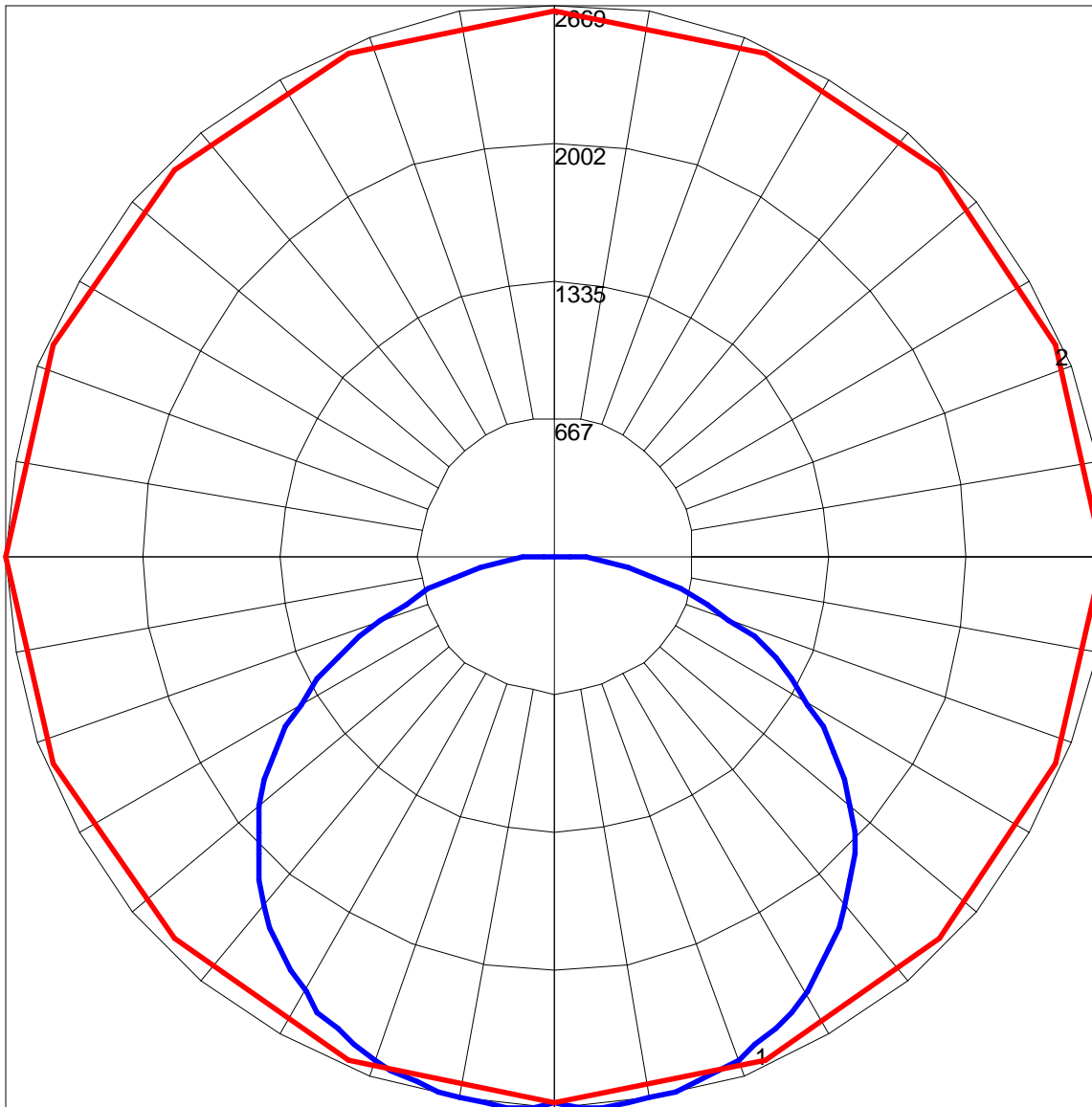
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2669.164 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.)