



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-80L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9752\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/22/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]S4-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\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8632
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	55.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	32007	30834	30117
55	32146	30779	29895
65	31194	29122	28467
75	27605	25824	25468
85	19569	20626	20626

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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>
<b>0.0</b>	2631.837	2631.837	2631.837	2631.837	2631.837
<b>2.5</b>	2713.278	2648.983	2627.551	2606.119	2584.687
<b>5.0</b>	2717.565	2653.269	2631.837	2610.405	2584.687
<b>7.5</b>	2708.992	2648.983	2623.264	2601.833	2576.114
<b>10.0</b>	2704.706	2644.696	2614.692	2597.546	2571.828
<b>12.5</b>	2700.419	2636.124	2610.405	2588.973	2563.255
<b>15.0</b>	2687.560	2627.551	2597.546	2576.114	2554.682
<b>17.5</b>	2666.128	2610.405	2580.401	2554.682	2533.250
<b>20.0</b>	2644.696	2584.687	2554.682	2528.964	2511.819
<b>22.5</b>	2614.692	2558.969	2528.964	2503.246	2486.100
<b>25.0</b>	2584.687	2533.250	2494.673	2473.241	2451.809
<b>27.5</b>	2550.396	2498.959	2460.382	2438.950	2417.518
<b>30.0</b>	2503.246	2456.096	2417.518	2391.800	2370.368
<b>32.5</b>	2451.809	2404.659	2361.795	2340.363	2318.931
<b>35.0</b>	2396.086	2344.650	2306.072	2284.640	2263.209
<b>37.5</b>	2331.791	2288.927	2246.063	2224.631	2198.913
<b>40.0</b>	2271.781	2220.345	2177.481	2156.049	2138.904
<b>42.5</b>	2190.340	2147.476	2104.612	2083.181	2066.035
<b>45.0</b>	2104.612	2066.035	2027.458	2001.739	1980.307
<b>47.5</b>	2014.599	1976.021	1941.730	1920.298	1898.866
<b>50.0</b>	1920.298	1881.721	1843.143	1825.998	1808.852
<b>52.5</b>	1817.425	1778.848	1744.557	1718.838	1710.266
<b>55.0</b>	1714.552	1675.975	1641.683	1611.679	1594.533
<b>57.5</b>	1603.106	1564.529	1525.951	1491.660	1478.801
<b>60.0</b>	1487.374	1444.510	1410.219	1375.928	1367.355
<b>62.5</b>	1358.782	1328.778	1273.055	1247.337	1243.050
<b>65.0</b>	1225.905	1191.614	1144.463	1118.745	1118.745
<b>67.5</b>	1088.740	1063.022	1020.158	998.726	994.440
<b>70.0</b>	947.290	917.285	887.281	870.135	861.562
<b>72.5</b>	805.839	784.408	758.689	745.830	741.544
<b>75.0</b>	664.389	638.671	621.525	612.952	612.952
<b>77.5</b>	531.511	505.793	501.506	488.647	492.934
<b>80.0</b>	402.920	381.488	381.488	368.629	372.915
<b>82.5</b>	274.328	261.469	265.756	257.183	257.183
<b>85.0</b>	158.596	162.882	167.169	158.596	167.169
<b>87.5</b>	64.296	72.868	81.441	77.155	77.155
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	987.31	N.A.	11.40
0-30	2143.18	N.A.	24.80
0-40	3593.52	N.A.	41.60
0-60	6630.39	N.A.	76.80
0-80	8443.94	N.A.	97.80
0-90	8631.9	N.A.	100.00
10-90	8380.81	N.A.	97.10
20-40	2606.21	N.A.	30.20
20-50	4174.95	N.A.	48.40
40-70	4182.51	N.A.	48.50
60-80	1813.55	N.A.	21.00
70-80	667.91	N.A.	7.70
80-90	187.96	N.A.	2.20
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	8631.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	251.09
10-20	736.23
20-30	1155.87
30-40	1450.34
40-50	1568.74
50-60	1468.12
60-70	1145.65
70-80	667.91
80-90	187.96
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

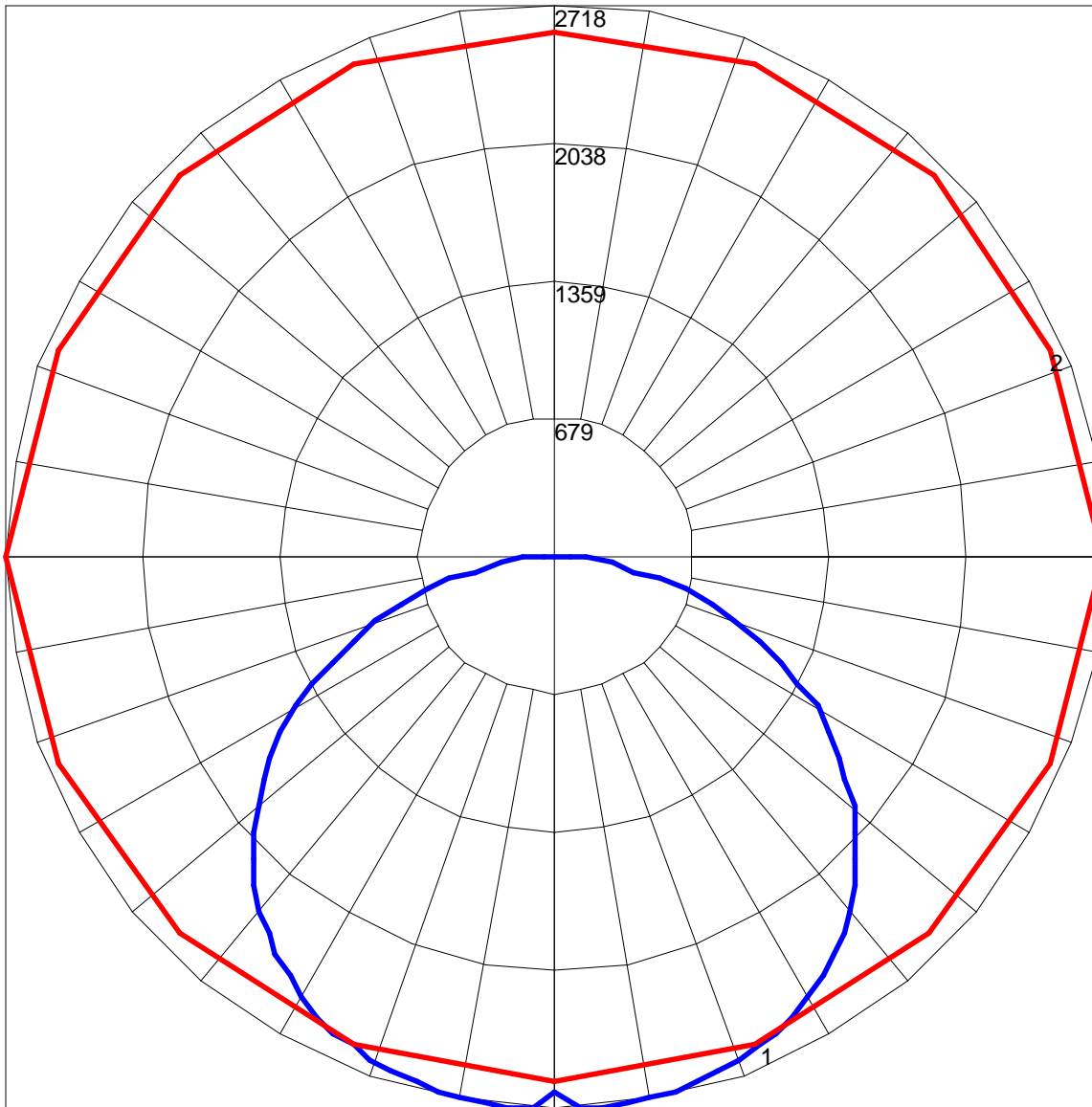
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 2717.565 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.)