



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-40L-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-40L-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	4287
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	27.7
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	15898	15315	14959
55	15967	15288	14849
65	15494	14465	14140
75	13711	12827	12650
85	9720	10245	10245

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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	1307.224	1307.224	1307.224	1307.224	1307.224
2.5	1347.676	1315.741	1305.095	1294.450	1283.805
5.0	1349.805	1317.870	1307.224	1296.579	1283.805
7.5	1345.547	1315.741	1302.966	1292.321	1279.547
10.0	1343.418	1313.612	1298.708	1290.192	1277.418
12.5	1341.289	1309.353	1296.579	1285.934	1273.160
15.0	1334.902	1305.095	1290.192	1279.547	1268.902
17.5	1324.257	1296.579	1281.676	1268.902	1258.257
20.0	1313.612	1283.805	1268.902	1256.128	1247.612
22.5	1298.708	1271.031	1256.128	1243.354	1234.837
25.0	1283.805	1258.257	1239.095	1228.450	1217.805
27.5	1266.773	1241.224	1222.063	1211.418	1200.773
30.0	1243.354	1219.934	1200.773	1187.999	1177.354
32.5	1217.805	1194.386	1173.096	1162.450	1151.805
35.0	1190.128	1164.579	1145.418	1134.773	1124.128
37.5	1158.192	1136.902	1115.612	1104.967	1092.192
40.0	1128.386	1102.838	1081.547	1070.902	1062.386
42.5	1087.934	1066.644	1045.354	1034.709	1026.192
45.0	1045.354	1026.192	1007.031	994.257	983.612
47.5	1000.644	981.483	964.451	953.805	943.160
50.0	953.805	934.644	915.483	906.967	898.451
52.5	902.709	883.547	866.515	853.741	849.483
55.0	851.612	832.451	815.418	800.515	791.999
57.5	796.257	777.096	757.935	740.902	734.515
60.0	738.773	717.483	700.451	683.419	679.161
62.5	674.903	659.999	632.322	619.548	617.419
65.0	608.903	591.870	568.451	555.677	555.677
67.5	540.774	527.999	506.709	496.064	493.935
70.0	470.516	455.612	440.709	432.193	427.935
72.5	400.258	389.612	376.838	370.451	368.322
75.0	330.000	317.225	308.709	304.451	304.451
77.5	264.000	251.226	249.097	242.709	244.838
80.0	200.129	189.484	189.484	183.097	185.226
82.5	136.258	129.871	132.000	127.742	127.742
85.0	78.774	80.903	83.032	78.774	83.032
87.5	31.935	36.194	40.452	38.323	38.323
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	490.40	N.A.	11.40
0-30	1064.51	N.A.	24.80
0-40	1784.89	N.A.	41.60
0-60	3293.29	N.A.	76.80
0-80	4194.07	N.A.	97.80
0-90	4287.43	N.A.	100.00
10-90	4162.72	N.A.	97.10
20-40	1294.49	N.A.	30.20
20-50	2073.68	N.A.	48.40
40-70	2077.44	N.A.	48.50
60-80	900.78	N.A.	21.00
70-80	331.75	N.A.	7.70
80-90	93.36	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	4287.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	124.71
10-20	365.68
20-30	574.11
30-40	720.38
40-50	779.19
50-60	729.21
60-70	569.04
70-80	331.75
80-90	93.36
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

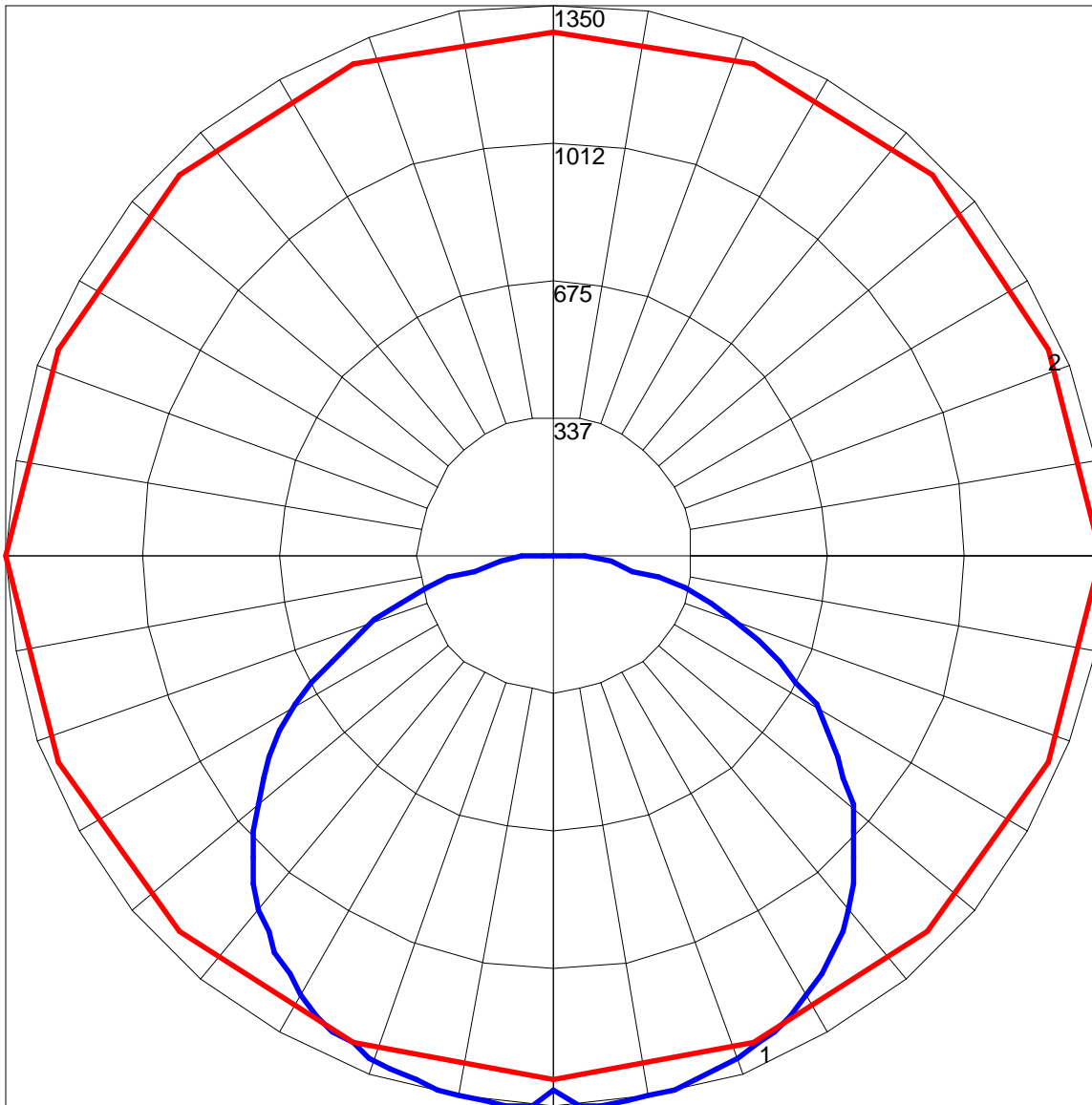
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1349.805 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.)