



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-50L-35.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  
[LUMCAT]S4-LED-50L-35  
[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	4924
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	35.4
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	18257	17587	17178
55	18335	17556	17052
65	17793	16611	16237
75	15746	14730	14527
85	11162	11765	11765

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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>	1501.162	1501.162	1501.162	1501.162	1501.162
<b>2.5</b>	1547.615	1510.942	1498.718	1486.493	1474.269
<b>5.0</b>	1550.060	1513.387	1501.162	1488.938	1474.269
<b>7.5</b>	1545.170	1510.942	1496.273	1484.048	1469.379
<b>10.0</b>	1542.726	1508.497	1491.383	1481.603	1466.934
<b>12.5</b>	1540.281	1503.607	1488.938	1476.714	1462.044
<b>15.0</b>	1532.946	1498.718	1481.603	1469.379	1457.154
<b>17.5</b>	1520.722	1488.938	1471.824	1457.154	1444.930
<b>20.0</b>	1508.497	1474.269	1457.154	1442.485	1432.706
<b>22.5</b>	1491.383	1459.599	1442.485	1427.816	1418.036
<b>25.0</b>	1474.269	1444.930	1422.926	1410.702	1398.477
<b>27.5</b>	1454.710	1425.371	1403.367	1391.142	1378.918
<b>30.0</b>	1427.816	1400.922	1378.918	1364.249	1352.024
<b>32.5</b>	1398.477	1371.583	1347.134	1334.910	1322.686
<b>35.0</b>	1366.694	1337.355	1315.351	1303.126	1290.902
<b>37.5</b>	1330.020	1305.571	1281.122	1268.898	1254.229
<b>40.0</b>	1295.792	1266.453	1242.004	1229.780	1220.000
<b>42.5</b>	1249.339	1224.890	1200.441	1188.217	1178.437
<b>45.0</b>	1200.441	1178.437	1156.433	1141.764	1129.539
<b>47.5</b>	1149.098	1127.094	1107.535	1095.311	1083.086
<b>50.0</b>	1095.311	1073.307	1051.303	1041.523	1031.744
<b>52.5</b>	1036.633	1014.629	995.070	980.401	975.511
<b>55.0</b>	977.956	955.952	936.393	919.279	909.499
<b>57.5</b>	914.389	892.385	870.381	850.822	843.487
<b>60.0</b>	848.377	823.928	804.369	784.810	779.920
<b>62.5</b>	775.030	757.916	726.132	711.463	709.018
<b>65.0</b>	699.239	679.679	652.786	638.116	638.116
<b>67.5</b>	621.002	606.333	581.884	569.659	567.214
<b>70.0</b>	540.321	523.206	506.092	496.313	491.423
<b>72.5</b>	459.639	447.415	432.746	425.411	422.966
<b>75.0</b>	378.958	364.289	354.509	349.619	349.619
<b>77.5</b>	303.166	288.497	286.052	278.717	281.162
<b>80.0</b>	229.820	217.595	217.595	210.261	212.705
<b>82.5</b>	156.473	149.138	151.583	146.693	146.693
<b>85.0</b>	90.461	92.906	95.351	90.461	95.351
<b>87.5</b>	36.673	41.563	46.453	44.008	44.008
<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	563.15	N.A.	11.40
0-30	1222.44	N.A.	24.80
0-40	2049.69	N.A.	41.60
0-60	3781.88	N.A.	76.80
0-80	4816.3	N.A.	97.80
0-90	4923.51	N.A.	100.00
10-90	4780.29	N.A.	97.10
20-40	1486.54	N.A.	30.20
20-50	2381.33	N.A.	48.40
40-70	2385.64	N.A.	48.50
60-80	1034.42	N.A.	21.00
70-80	380.96	N.A.	7.70
80-90	107.21	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	4923.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.22
10-20	419.93
20-30	659.29
30-40	827.25
40-50	894.79
50-60	837.40
60-70	653.46
70-80	380.96
80-90	107.21
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

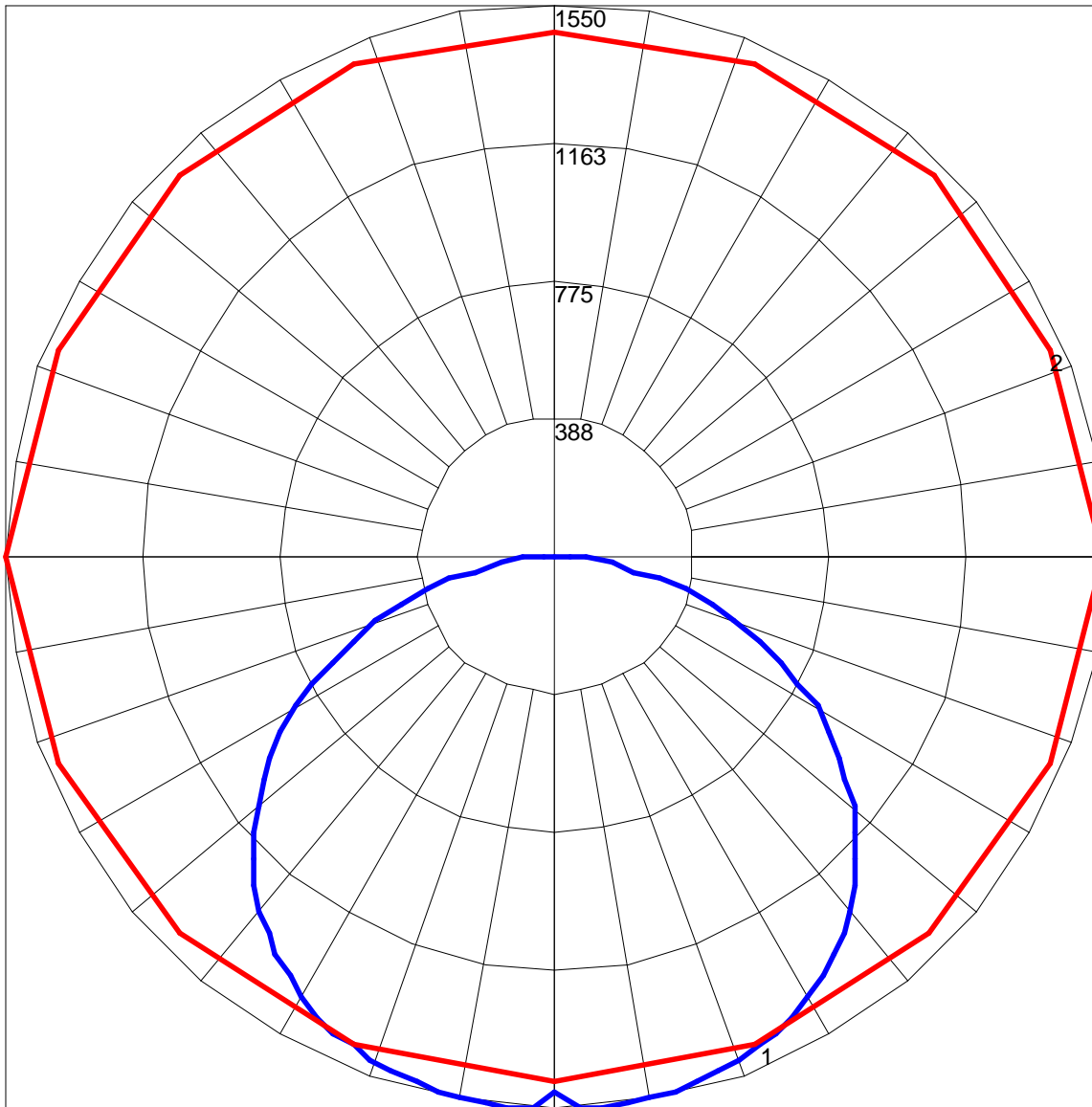
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	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	44	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 = 1550.06 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.)