



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-50L-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
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]S4-LED-50L-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	5392
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	19992	19259	18811
55	20078	19225	18673
65	19484	18190	17781
75	17242	16130	15907
85	12223	12883	12883

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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	1643.868	1643.868	1643.868	1643.868	1643.868
2.5	1694.737	1654.578	1641.191	1627.804	1614.418
5.0	1697.415	1657.255	1643.868	1630.482	1614.418
7.5	1692.060	1654.578	1638.514	1625.127	1609.063
10.0	1689.383	1651.900	1633.159	1622.450	1606.386
12.5	1686.705	1646.546	1630.482	1617.095	1601.031
15.0	1678.673	1641.191	1622.450	1609.063	1595.677
17.5	1665.287	1630.482	1611.741	1595.677	1582.290
20.0	1651.900	1614.418	1595.677	1579.613	1568.904
22.5	1633.159	1598.354	1579.613	1563.549	1552.840
25.0	1614.418	1582.290	1558.194	1544.808	1531.421
27.5	1592.999	1560.872	1536.776	1523.389	1510.003
30.0	1563.549	1534.099	1510.003	1493.939	1480.552
32.5	1531.421	1501.971	1475.198	1461.811	1448.425
35.0	1496.616	1464.489	1440.393	1427.006	1413.620
37.5	1456.457	1429.684	1402.910	1389.524	1373.460
40.0	1418.974	1386.847	1360.073	1346.687	1335.978
42.5	1368.105	1341.332	1314.559	1301.173	1290.463
45.0	1314.559	1290.463	1266.368	1250.304	1236.917
47.5	1258.336	1234.240	1212.821	1199.435	1186.048
50.0	1199.435	1175.339	1151.243	1140.534	1129.825
52.5	1135.179	1111.084	1089.665	1073.601	1068.247
55.0	1070.924	1046.828	1025.410	1006.669	995.959
57.5	1001.314	977.218	953.122	931.704	923.672
60.0	929.027	902.253	880.835	859.417	854.062
62.5	848.707	829.966	795.161	779.097	776.420
65.0	765.711	744.292	714.842	698.778	698.778
67.5	680.037	663.973	637.200	623.813	621.136
70.0	591.686	572.944	554.203	543.494	538.139
72.5	503.334	489.948	473.884	465.852	463.175
75.0	414.983	398.919	388.210	382.855	382.855
77.5	331.986	315.923	313.245	305.213	307.891
80.0	251.667	238.281	238.281	230.249	232.926
82.5	171.348	163.316	165.993	160.639	160.639
85.0	99.060	101.738	104.415	99.060	104.415
87.5	40.160	45.514	50.869	48.192	48.192
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	616.68	N.A.	11.40
0-30	1338.65	N.A.	24.80
0-40	2244.54	N.A.	41.60
0-60	4141.4	N.A.	76.80
0-80	5274.16	N.A.	97.80
0-90	5391.56	N.A.	100.00
10-90	5234.72	N.A.	97.10
20-40	1627.86	N.A.	30.20
20-50	2607.71	N.A.	48.40
40-70	2612.43	N.A.	48.50
60-80	1132.76	N.A.	21.00
70-80	417.18	N.A.	7.70
80-90	117.40	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	5391.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.83
10-20	459.85
20-30	721.96
30-40	905.90
40-50	979.85
50-60	917.00
60-70	715.58
70-80	417.18
80-90	117.40
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

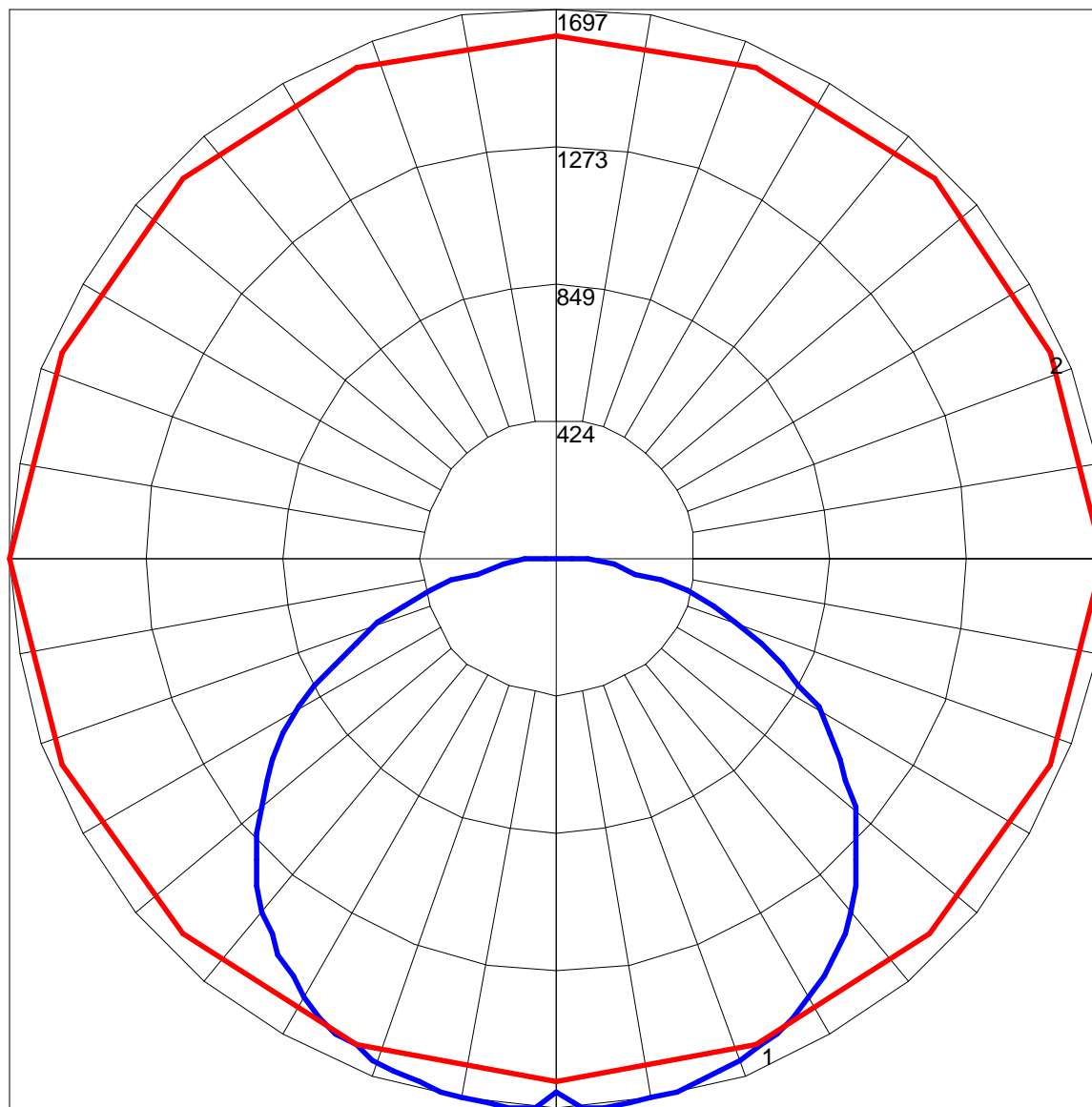
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1697.415 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.)