



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-50L-30.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-30
[_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	5047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	18713	18027	17607
55	18794	17995	17478
65	18237	17026	16643
75	16139	15098	14889
85	11441	12059	12059

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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	1538.666	1538.666	1538.666	1538.666	1538.666
2.5	1586.279	1548.689	1536.160	1523.630	1511.100
5.0	1588.785	1551.195	1538.666	1526.136	1511.100
7.5	1583.773	1548.689	1533.654	1521.124	1506.088
10.0	1581.267	1546.183	1528.642	1518.618	1503.582
12.5	1578.761	1541.172	1526.136	1513.606	1498.570
15.0	1571.243	1536.160	1518.618	1506.088	1493.558
17.5	1558.713	1526.136	1508.594	1493.558	1481.028
20.0	1546.183	1511.100	1493.558	1478.522	1468.498
22.5	1528.642	1496.064	1478.522	1463.486	1453.463
25.0	1511.100	1481.028	1458.475	1445.945	1433.415
27.5	1491.052	1460.981	1438.427	1425.897	1413.367
30.0	1463.486	1435.921	1413.367	1398.331	1385.801
32.5	1433.415	1405.849	1380.789	1368.260	1355.730
35.0	1400.837	1370.766	1348.212	1335.682	1323.152
37.5	1363.248	1338.188	1313.128	1300.598	1285.563
40.0	1328.164	1298.092	1273.033	1260.503	1250.479
42.5	1280.551	1255.491	1230.431	1217.901	1207.878
45.0	1230.431	1207.878	1185.324	1170.288	1157.758
47.5	1177.806	1155.252	1135.204	1122.675	1110.145
50.0	1122.675	1100.121	1077.567	1067.543	1057.519
52.5	1062.531	1039.978	1019.930	1004.894	999.882
55.0	1002.388	979.834	959.787	942.245	932.221
57.5	937.233	914.679	892.125	872.078	864.560
60.0	869.572	844.512	824.464	804.416	799.404
62.5	794.392	776.851	744.273	729.237	726.731
65.0	716.707	696.660	669.094	654.058	654.058
67.5	636.516	621.481	596.421	583.891	581.385
70.0	553.819	536.278	518.736	508.712	503.700
72.5	471.122	458.593	443.557	436.039	433.533
75.0	388.425	373.390	363.366	358.354	358.354
77.5	310.740	295.704	293.198	285.681	288.187
80.0	235.561	223.031	223.031	215.513	218.019
82.5	160.382	152.864	155.370	150.358	150.358
85.0	92.721	95.227	97.733	92.721	97.733
87.5	37.590	42.601	47.613	45.107	45.107
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	577.22	N.A.	11.40
0-30	1252.98	N.A.	24.80
0-40	2100.9	N.A.	41.60
0-60	3876.36	N.A.	76.80
0-80	4936.63	N.A.	97.80
0-90	5046.51	N.A.	100.00
10-90	4899.72	N.A.	97.10
20-40	1523.68	N.A.	30.20
20-50	2440.82	N.A.	48.40
40-70	2445.24	N.A.	48.50
60-80	1060.27	N.A.	21.00
70-80	390.48	N.A.	7.70
80-90	109.89	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	5046.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.80
10-20	430.42
20-30	675.76
30-40	847.92
40-50	917.14
50-60	858.32
60-70	669.79
70-80	390.48
80-90	109.89
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

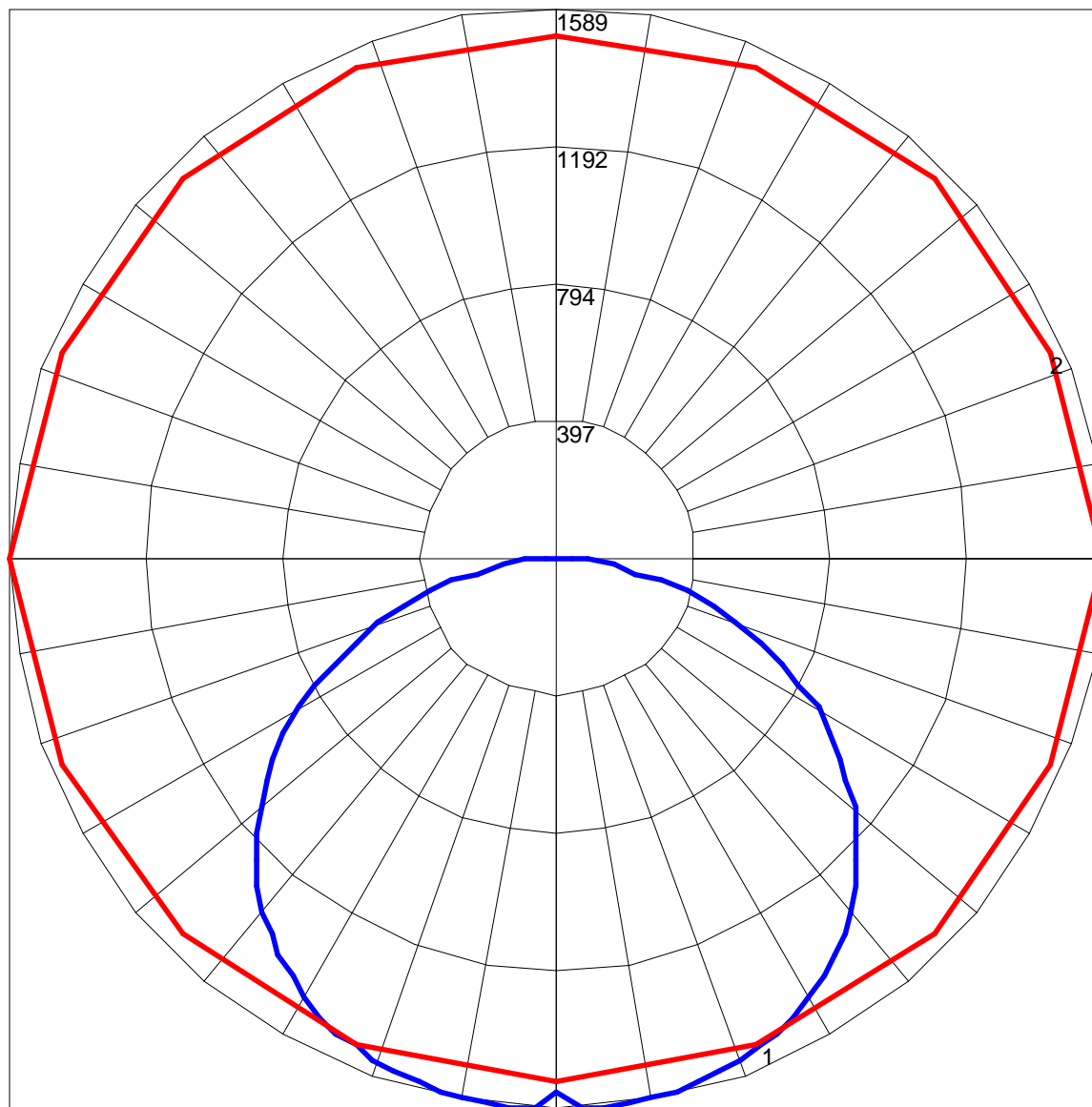
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1588.785 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.)