



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-50L-FL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9918_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-50L-FL-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	5349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	38.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13186	8578	8038
55	12328	7465	7175
65	11172	6409	6334
75	8881	5380	5587
85	4024	4557	4969

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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	1304.654	1304.654	1304.654	1304.654	1304.654
2.5	1336.605	1317.967	1307.317	1296.667	1286.016
5.0	1336.605	1315.305	1307.317	1296.667	1286.016
7.5	1333.943	1312.642	1304.654	1294.004	1286.016
10.0	1328.617	1307.317	1301.992	1294.004	1283.354
12.5	1317.967	1299.329	1294.004	1288.679	1280.691
15.0	1307.317	1291.342	1286.016	1283.354	1275.366
17.5	1291.342	1275.366	1275.366	1275.366	1267.379
20.0	1272.704	1259.391	1262.053	1264.716	1259.391
22.5	1251.403	1238.090	1246.078	1254.066	1248.741
25.0	1224.778	1216.790	1227.440	1238.090	1238.090
27.5	1198.152	1190.164	1206.140	1222.115	1222.115
30.0	1166.201	1163.539	1182.177	1203.477	1206.140
32.5	1131.588	1131.588	1158.214	1184.839	1184.839
35.0	1094.312	1099.637	1126.263	1160.876	1163.539
37.5	1054.374	1062.361	1096.975	1134.251	1139.576
40.0	1011.773	1022.423	1062.361	1104.962	1112.950
42.5	969.172	982.485	1027.748	1075.674	1083.662
45.0	921.246	939.884	987.810	1043.724	1057.036
47.5	873.320	894.620	950.534	1011.773	1027.748
50.0	822.731	849.357	910.596	979.822	995.797
52.5	777.468	798.768	870.657	942.546	966.509
55.0	716.229	750.842	825.394	905.270	929.233
57.5	665.640	700.253	782.793	867.995	894.620
60.0	612.389	649.665	742.854	830.719	860.007
62.5	559.138	601.739	700.253	790.780	822.731
65.0	497.899	551.150	657.652	750.842	782.793
67.5	441.985	500.561	615.051	713.566	745.517
70.0	383.409	449.973	572.450	673.628	708.241
72.5	322.170	396.721	532.512	636.352	670.965
75.0	263.593	354.120	492.574	599.076	636.352
77.5	207.680	311.520	455.298	564.463	601.739
80.0	151.766	271.581	420.684	529.849	567.125
82.5	103.840	234.305	386.071	495.236	532.512
85.0	55.914	199.692	354.120	463.285	500.561
87.5	23.963	167.741	324.832	433.997	471.273
90.0	2.663	141.116	295.544	402.047	441.985
92.5	0.000	117.153	268.919	372.758	410.034
95.0	2.663	98.515	242.293	343.470	380.746
97.5	2.663	82.539	218.330	316.845	351.458
100.0	2.663	66.564	194.367	290.219	324.832
102.5	2.663	55.914	175.729	263.593	298.207
105.0	2.663	47.926	154.428	242.293	274.244
107.5	0.000	39.938	138.453	220.992	250.281
110.0	0.000	31.951	122.478	199.692	228.980
112.5	0.000	26.626	109.165	181.054	207.680
115.0	0.000	23.963	95.852	162.416	189.042
117.5	0.000	18.638	82.539	146.441	170.404
120.0	0.000	15.975	71.889	130.465	151.766
122.5	0.000	13.313	63.901	114.490	135.791
125.0	0.000	10.650	55.914	103.840	122.478
127.5	0.000	7.988	45.264	90.527	106.502
130.0	2.663	7.988	39.938	77.214	93.190
132.5	0.000	5.325	31.951	66.564	79.877

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CANDELA TABULATION - (Cont.)

135.0	2.663	5.325	29.288	55.914	69.227
137.5	2.663	2.663	23.963	47.926	58.576
140.0	2.663	2.663	18.638	39.938	50.589
142.5	0.000	2.663	15.975	34.613	39.938
145.0	2.663	2.663	13.313	26.626	34.613
147.5	2.663	2.663	7.988	21.300	26.626
150.0	2.663	2.663	7.988	15.975	21.300
152.5	2.663	2.663	5.325	13.313	15.975
155.0	2.663	2.663	2.663	7.988	10.650
157.5	2.663	2.663	2.663	5.325	7.988
160.0	2.663	2.663	2.663	2.663	5.325
162.5	2.663	2.663	2.663	2.663	2.663
165.0	0.000	2.663	0.000	0.000	0.000
167.5	2.663	2.663	0.000	0.000	0.000
170.0	2.663	2.663	0.000	0.000	0.000
172.5	2.663	0.000	0.000	0.000	0.000
175.0	2.663	2.663	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	488.49	N.A.	9.10
0-30	1055.13	N.A.	19.70
0-40	1761.67	N.A.	32.90
0-60	3266.32	N.A.	61.10
0-80	4413.08	N.A.	82.50
0-90	4769.18	N.A.	89.20
10-90	4644.55	N.A.	86.80
20-40	1273.17	N.A.	23.80
20-50	2037.84	N.A.	38.10
40-70	2149.17	N.A.	40.20
60-80	1146.76	N.A.	21.40
70-80	502.24	N.A.	9.40
80-90	356.10	N.A.	6.70
90-110	395.61	N.A.	7.40
90-120	489.67	N.A.	9.20
90-130	541.62	N.A.	10.10
90-150	576.07	N.A.	10.80
90-180	579.37	N.A.	10.80
110-180	183.76	N.A.	3.40
0-180	5348.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.63
10-20	363.87
20-30	566.64
30-40	706.53
40-50	764.66
50-60	739.99
60-70	644.52
70-80	502.24
80-90	356.10
90-100	240.32
100-110	155.29
110-120	94.06
120-130	51.96
130-140	24.70
140-150	9.75
150-160	2.75
160-170	0.48
170-180	0.06

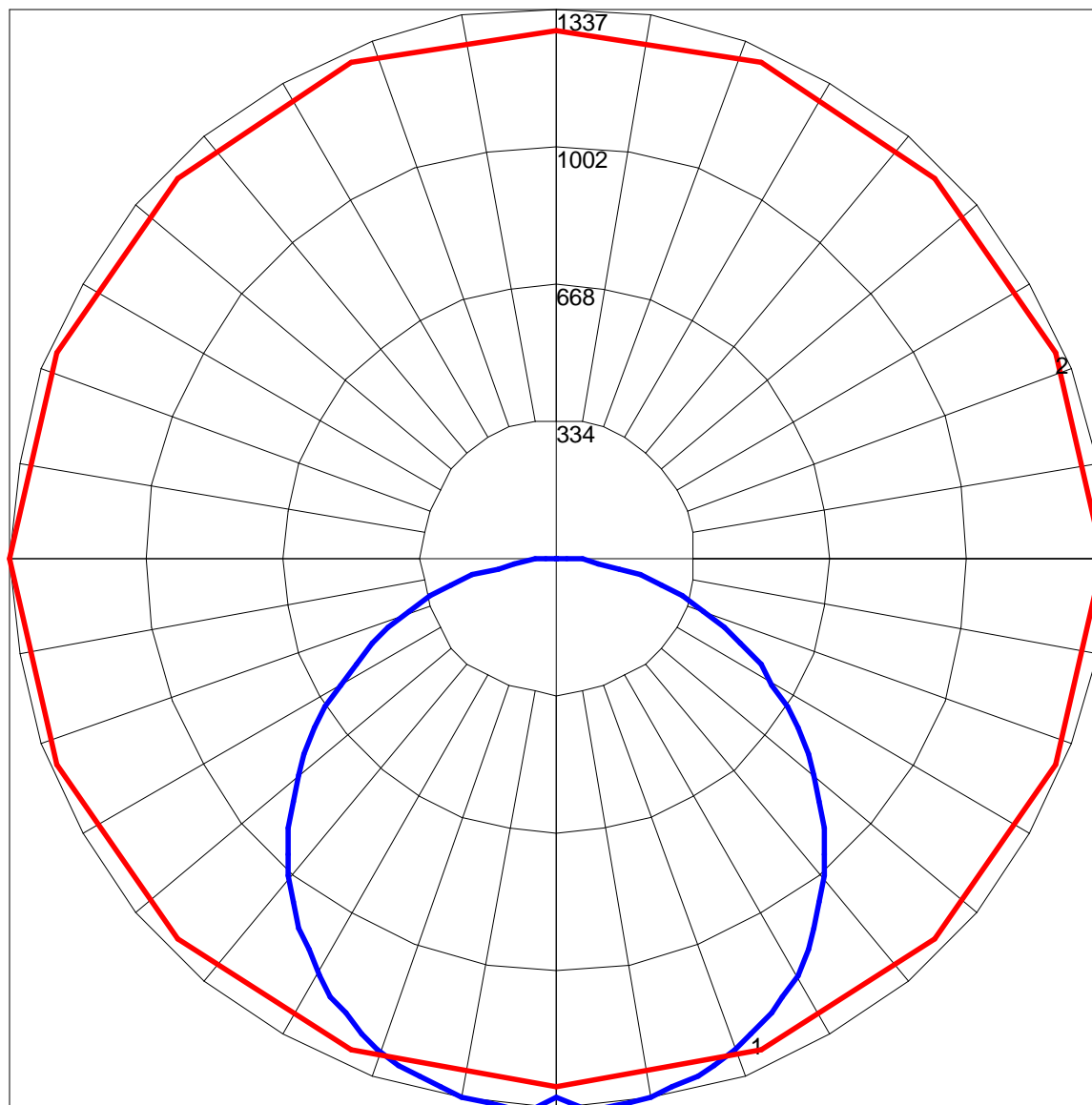
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	77	74	72	69
2	93	84	76	70	89	81	74	68	76	70	65	71	66	62	66	62	59	56
3	84	73	64	57	81	70	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	46	58	51	45	54	48	43	51	46	41	38
5	71	57	47	40	68	55	46	40	52	44	38	49	42	37	46	40	35	33
6	65	51	42	35	62	49	41	34	47	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	37	32	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1336.605 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)