



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-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
[LUMEN CATEGORY]SDL4-LED-40L-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 SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4292
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	30.1
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	10583	6884	6451
55	9894	5991	5758
65	8966	5143	5084
75	7127	4318	4484
85	3230	3658	3988

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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	1047.042	1047.042	1047.042	1047.042	1047.042
2.5	1072.684	1057.726	1049.179	1040.631	1032.084
5.0	1072.684	1055.589	1049.179	1040.631	1032.084
7.5	1070.547	1053.452	1047.042	1038.495	1032.084
10.0	1066.273	1049.179	1044.905	1038.495	1029.947
12.5	1057.726	1042.768	1038.495	1034.221	1027.810
15.0	1049.179	1036.358	1032.084	1029.947	1023.537
17.5	1036.358	1023.537	1023.537	1023.537	1017.126
20.0	1021.400	1010.716	1012.853	1014.990	1010.716
22.5	1004.305	993.621	1000.032	1006.442	1002.169
25.0	982.937	976.527	985.074	993.621	993.621
27.5	961.569	955.159	967.979	980.800	980.800
30.0	935.927	933.790	948.748	965.843	967.979
32.5	908.149	908.149	929.517	950.885	950.885
35.0	878.233	882.507	903.875	931.654	933.790
37.5	846.181	852.591	880.370	910.285	914.559
40.0	811.992	820.539	852.591	886.780	893.191
42.5	777.803	788.487	824.813	863.275	869.686
45.0	739.340	754.297	792.760	837.633	848.318
47.5	700.877	717.972	762.845	811.992	824.813
50.0	660.277	681.646	730.792	786.350	799.171
52.5	623.951	641.046	698.740	756.434	775.666
55.0	574.805	602.583	662.414	726.519	745.750
57.5	534.205	561.984	628.225	696.603	717.972
60.0	491.469	521.384	596.173	666.688	690.193
62.5	448.732	482.921	561.984	634.636	660.277
65.0	399.585	442.322	527.795	602.583	628.225
67.5	354.712	401.722	493.605	572.668	598.310
70.0	307.702	361.123	459.416	540.615	568.394
72.5	258.555	318.386	427.364	510.700	538.479
75.0	211.545	284.197	395.312	480.785	510.700
77.5	166.672	250.008	365.396	453.006	482.921
80.0	121.799	217.956	337.618	425.227	455.143
82.5	83.336	188.040	309.839	397.449	427.364
85.0	44.873	160.262	284.197	371.807	401.722
87.5	19.231	134.620	260.692	348.302	378.217
90.0	2.137	113.251	237.187	322.660	354.712
92.5	0.000	94.020	215.819	299.155	329.070
95.0	2.137	79.062	194.451	275.650	305.565
97.5	2.137	66.241	175.219	254.282	282.060
100.0	2.137	53.421	155.988	232.913	260.692
102.5	2.137	44.873	141.030	211.545	239.324
105.0	2.137	38.463	123.936	194.451	220.092
107.5	0.000	32.052	111.115	177.356	200.861
110.0	0.000	25.642	98.294	160.262	183.767
112.5	0.000	21.368	87.610	145.304	166.672
115.0	0.000	19.231	76.926	130.346	151.714
117.5	0.000	14.958	66.241	117.525	136.756
120.0	0.000	12.821	57.694	104.704	121.799
122.5	0.000	10.684	51.284	91.883	108.978
125.0	0.000	8.547	44.873	83.336	98.294
127.5	0.000	6.410	36.326	72.652	85.473
130.0	2.137	6.410	32.052	61.968	74.789
132.5	0.000	4.274	25.642	53.421	64.105

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CANDELA TABULATION - (Cont.)

135.0	2.137	4.274	23.505	44.873	55.557
137.5	2.137	2.137	19.231	38.463	47.010
140.0	2.137	2.137	14.958	32.052	40.600
142.5	0.000	2.137	12.821	27.779	32.052
145.0	2.137	2.137	10.684	21.368	27.779
147.5	2.137	2.137	6.410	17.095	21.368
150.0	2.137	2.137	6.410	12.821	17.095
152.5	2.137	2.137	4.274	10.684	12.821
155.0	2.137	2.137	2.137	6.410	8.547
157.5	2.137	2.137	2.137	4.274	6.410
160.0	2.137	2.137	2.137	2.137	4.274
162.5	2.137	2.137	2.137	2.137	2.137
165.0	0.000	2.137	0.000	0.000	0.000
167.5	2.137	2.137	0.000	0.000	0.000
170.0	2.137	2.137	0.000	0.000	0.000
172.5	2.137	0.000	0.000	0.000	0.000
175.0	2.137	2.137	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	392.04	N.A.	9.10
0-30	846.79	N.A.	19.70
0-40	1413.81	N.A.	32.90
0-60	2621.36	N.A.	61.10
0-80	3541.69	N.A.	82.50
0-90	3827.48	N.A.	89.20
10-90	3727.46	N.A.	86.80
20-40	1021.78	N.A.	23.80
20-50	1635.45	N.A.	38.10
40-70	1724.8	N.A.	40.20
60-80	920.32	N.A.	21.40
70-80	403.07	N.A.	9.40
80-90	285.79	N.A.	6.70
90-110	317.49	N.A.	7.40
90-120	392.98	N.A.	9.20
90-130	434.68	N.A.	10.10
90-150	462.32	N.A.	10.80
90-180	464.97	N.A.	10.80
110-180	147.47	N.A.	3.40
0-180	4292.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.02
10-20	292.02
20-30	454.75
30-40	567.02
40-50	613.67
50-60	593.87
60-70	517.25
70-80	403.07
80-90	285.79
90-100	192.87
100-110	124.63
110-120	75.49
120-130	41.70
130-140	19.83
140-150	7.82
150-160	2.21
160-170	0.39
170-180	0.05

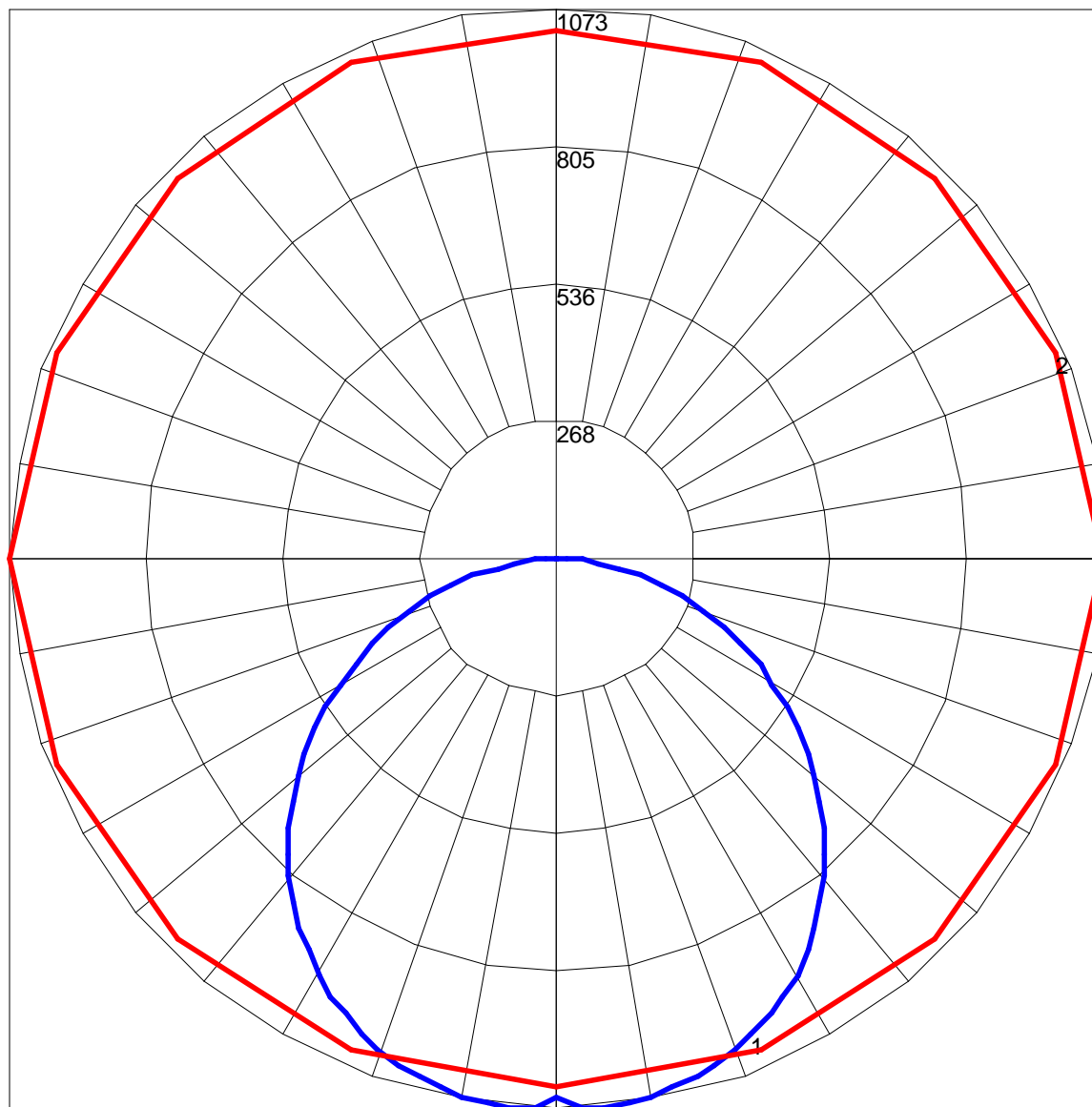
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	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	90	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	38	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 = 1072.684 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.)