



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-50L-FL-30.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-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_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	11917	7752	7264
55	11141	6746	6484
65	10096	5792	5724
75	8026	4862	5049
85	3637	4119	4490

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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	1179.018	1179.018	1179.018	1179.018	1179.018
2.5	1207.892	1191.049	1181.425	1171.800	1162.175
5.0	1207.892	1188.643	1181.425	1171.800	1162.175
7.5	1205.486	1186.237	1179.018	1169.394	1162.175
10.0	1200.674	1181.425	1176.612	1169.394	1159.769
12.5	1191.049	1174.206	1169.394	1164.581	1157.363
15.0	1181.425	1166.988	1162.175	1159.769	1152.551
17.5	1166.988	1152.551	1152.551	1152.551	1145.332
20.0	1150.145	1138.114	1140.520	1142.926	1138.114
22.5	1130.895	1118.864	1126.083	1133.301	1128.489
25.0	1106.834	1099.615	1109.240	1118.864	1118.864
27.5	1082.772	1075.554	1089.991	1104.427	1104.427
30.0	1053.898	1051.492	1068.335	1087.584	1089.991
32.5	1022.618	1022.618	1046.680	1070.741	1070.741
35.0	988.932	993.744	1017.806	1049.086	1051.492
37.5	952.839	960.058	991.338	1025.024	1029.837
40.0	914.341	923.965	960.058	998.556	1005.775
42.5	875.842	887.873	928.778	972.089	979.307
45.0	832.531	849.375	892.685	943.215	955.246
47.5	789.221	808.470	858.999	914.341	928.778
50.0	743.503	767.565	822.907	885.467	899.904
52.5	702.599	721.848	786.814	851.781	873.436
55.0	647.257	678.537	745.910	818.094	839.750
57.5	601.540	632.820	707.411	784.408	808.470
60.0	553.417	587.103	671.319	750.722	777.190
62.5	505.294	543.792	632.820	714.630	743.503
65.0	449.952	498.075	594.322	678.537	707.411
67.5	399.423	452.358	555.823	644.851	673.725
70.0	346.487	406.641	517.324	608.759	640.039
72.5	291.145	358.518	481.232	575.072	606.352
75.0	238.210	320.019	445.140	541.386	575.072
77.5	187.680	281.521	411.453	510.106	543.792
80.0	137.151	245.428	380.173	478.826	512.512
82.5	93.840	211.742	348.893	447.546	481.232
85.0	50.529	180.462	320.019	418.672	452.358
87.5	21.655	151.588	293.552	392.204	425.890
90.0	2.406	127.526	267.084	363.330	399.423
92.5	0.000	105.871	243.022	336.862	370.549
95.0	2.406	89.028	218.961	310.395	344.081
97.5	2.406	74.591	197.305	286.333	317.613
100.0	2.406	60.154	175.650	262.271	293.552
102.5	2.406	50.529	158.807	238.210	269.490
105.0	2.406	43.311	139.557	218.961	247.834
107.5	0.000	36.092	125.120	199.711	226.179
110.0	0.000	28.874	110.683	180.462	206.930
112.5	0.000	24.062	98.653	163.619	187.680
115.0	0.000	21.655	86.622	146.776	170.837
117.5	0.000	16.843	74.591	132.339	153.994
120.0	0.000	14.437	64.966	117.902	137.151
122.5	0.000	12.031	57.748	103.465	122.714
125.0	0.000	9.625	50.529	93.840	110.683
127.5	0.000	7.218	40.905	81.809	96.246
130.0	2.406	7.218	36.092	69.779	84.216
132.5	0.000	4.812	28.874	60.154	72.185

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CANDELA TABULATION - (Cont.)

135.0	2.406	4.812	26.468	50.529	62.560
137.5	2.406	2.406	21.655	43.311	52.936
140.0	2.406	2.406	16.843	36.092	45.717
142.5	0.000	2.406	14.437	31.280	36.092
145.0	2.406	2.406	12.031	24.062	31.280
147.5	2.406	2.406	7.218	19.249	24.062
150.0	2.406	2.406	7.218	14.437	19.249
152.5	2.406	2.406	4.812	12.031	14.437
155.0	2.406	2.406	2.406	7.218	9.625
157.5	2.406	2.406	2.406	4.812	7.218
160.0	2.406	2.406	2.406	2.406	4.812
162.5	2.406	2.406	2.406	2.406	2.406
165.0	0.000	2.406	0.000	0.000	0.000
167.5	2.406	2.406	0.000	0.000	0.000
170.0	2.406	2.406	0.000	0.000	0.000
172.5	2.406	0.000	0.000	0.000	0.000
175.0	2.406	2.406	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	441.45	N.A.	9.10
0-30	953.53	N.A.	19.70
0-40	1592.02	N.A.	32.90
0-60	2951.78	N.A.	61.10
0-80	3988.11	N.A.	82.50
0-90	4309.92	N.A.	89.20
10-90	4197.29	N.A.	86.80
20-40	1150.57	N.A.	23.80
20-50	1841.6	N.A.	38.10
40-70	1942.21	N.A.	40.20
60-80	1036.33	N.A.	21.40
70-80	453.88	N.A.	9.40
80-90	321.81	N.A.	6.70
90-110	357.51	N.A.	7.40
90-120	442.51	N.A.	9.20
90-130	489.47	N.A.	10.10
90-150	520.60	N.A.	10.80
90-180	523.57	N.A.	10.80
110-180	166.06	N.A.	3.40
0-180	4833.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.63
10-20	328.83
20-30	512.07
30-40	638.50
40-50	691.03
50-60	668.73
60-70	582.45
70-80	453.88
80-90	321.81
90-100	217.18
100-110	140.34
110-120	85.00
120-130	46.95
130-140	22.32
140-150	8.81
150-160	2.49
160-170	0.44
170-180	0.05

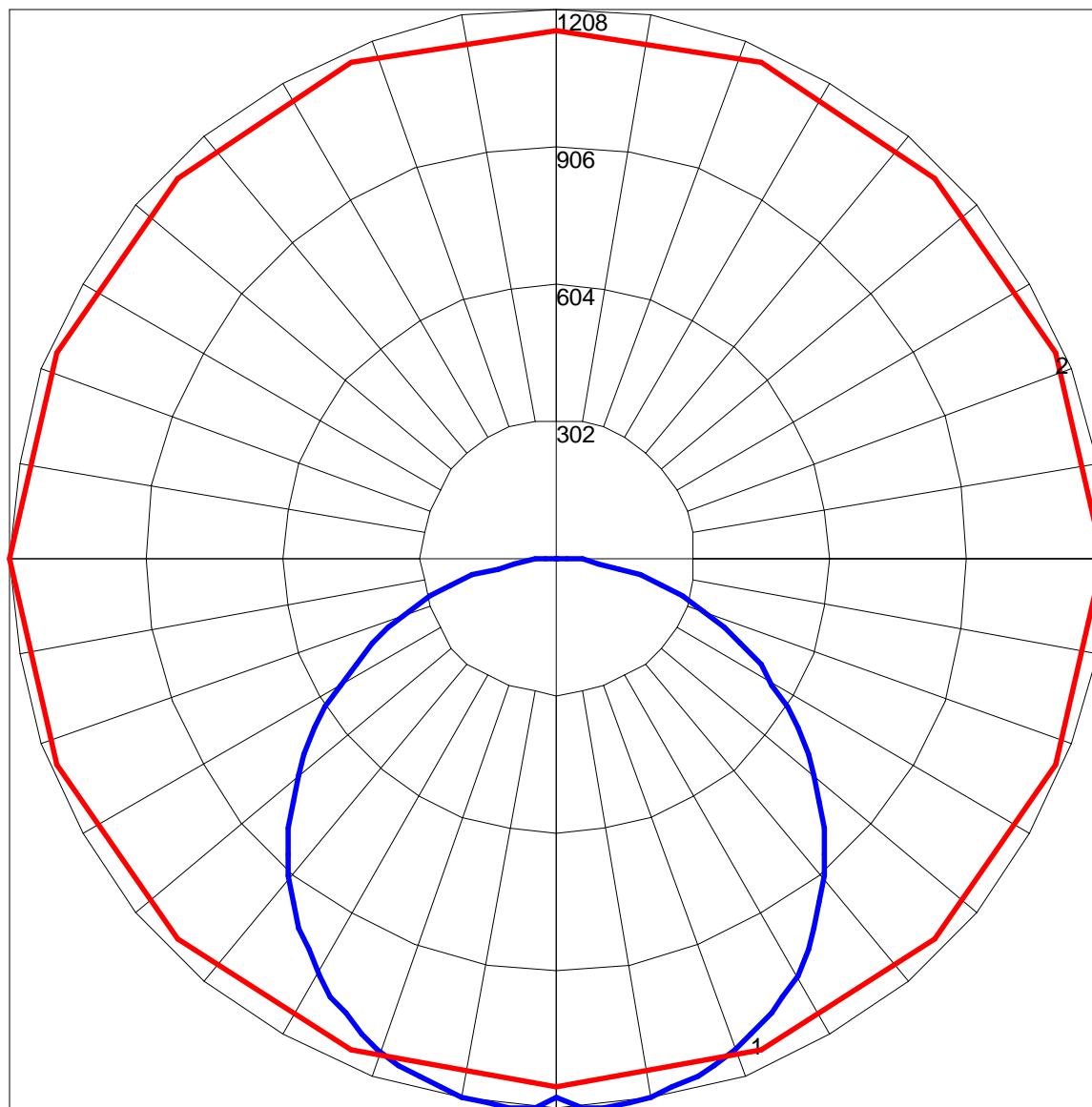
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1207.892 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.)