



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-50L-FL-35.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-50L-FL-35
[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	5018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	12370	8047	7540
55	11565	7003	6731
65	10481	6012	5942
75	8331	5047	5242
85	3775	4275	4661

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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	1223.907	1223.907	1223.907	1223.907	1223.907
2.5	1253.881	1236.396	1226.405	1216.414	1206.423
5.0	1253.881	1233.898	1226.405	1216.414	1206.423
7.5	1251.383	1231.401	1223.907	1213.916	1206.423
10.0	1246.387	1226.405	1221.410	1213.916	1203.925
12.5	1236.396	1218.912	1213.916	1208.921	1201.427
15.0	1226.405	1211.418	1206.423	1203.925	1196.432
17.5	1211.418	1196.432	1196.432	1196.432	1188.939
20.0	1193.934	1181.445	1183.943	1186.441	1181.445
22.5	1173.952	1161.463	1168.956	1176.450	1171.454
25.0	1148.974	1141.481	1151.472	1161.463	1161.463
27.5	1123.997	1116.503	1131.490	1146.476	1146.476
30.0	1094.023	1091.526	1109.010	1128.992	1131.490
32.5	1061.552	1061.552	1086.530	1111.508	1111.508
35.0	1026.583	1031.579	1056.557	1089.028	1091.526
37.5	989.117	996.610	1029.081	1064.050	1069.046
40.0	949.153	959.144	996.610	1036.575	1044.068
42.5	909.188	921.677	964.139	1009.099	1016.592
45.0	864.228	881.713	926.673	979.126	991.615
47.5	819.269	839.251	891.704	949.153	964.139
50.0	771.811	796.789	854.237	919.179	934.166
52.5	729.349	749.331	816.771	884.211	906.691
55.0	671.900	704.371	774.309	849.242	871.722
57.5	624.443	656.914	734.344	814.273	839.251
60.0	574.487	609.456	696.878	779.304	806.780
62.5	524.532	564.496	656.914	741.838	771.811
65.0	467.083	517.038	616.949	704.371	734.344
67.5	414.630	469.581	576.985	669.402	699.376
70.0	359.679	422.123	537.021	631.936	664.407
72.5	302.230	372.168	499.554	596.967	629.438
75.0	247.279	332.203	462.087	561.998	596.967
77.5	194.826	292.239	427.119	529.527	564.496
80.0	142.373	254.773	394.648	497.056	532.025
82.5	97.413	219.804	362.177	464.585	499.554
85.0	52.453	187.333	332.203	434.612	469.581
87.5	22.480	157.360	304.728	407.137	442.105
90.0	2.498	132.382	277.252	377.163	414.630
92.5	0.000	109.902	252.275	349.688	384.657
95.0	2.498	92.417	227.297	322.212	357.181
97.5	2.498	77.431	204.817	297.235	329.706
100.0	2.498	62.444	182.337	272.257	304.728
102.5	2.498	52.453	164.853	247.279	279.750
105.0	2.498	44.960	144.871	227.297	257.270
107.5	0.000	37.467	129.884	207.315	234.790
110.0	0.000	29.973	114.897	187.333	214.808
112.5	0.000	24.978	102.409	169.848	194.826
115.0	0.000	22.480	89.920	152.364	177.342
117.5	0.000	17.484	77.431	137.377	159.857
120.0	0.000	14.987	67.440	122.391	142.373
122.5	0.000	12.489	59.946	107.404	127.386
125.0	0.000	9.991	52.453	97.413	114.897
127.5	0.000	7.493	42.462	84.924	99.911
130.0	2.498	7.493	37.467	72.435	87.422
132.5	0.000	4.996	29.973	62.444	74.933

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CANDELA TABULATION - (Cont.)

135.0	2.498	4.996	27.475	52.453	64.942
137.5	2.498	2.498	22.480	44.960	54.951
140.0	2.498	2.498	17.484	37.467	47.458
142.5	0.000	2.498	14.987	32.471	37.467
145.0	2.498	2.498	12.489	24.978	32.471
147.5	2.498	2.498	7.493	19.982	24.978
150.0	2.498	2.498	7.493	14.987	19.982
152.5	2.498	2.498	4.996	12.489	14.987
155.0	2.498	2.498	2.498	7.493	9.991
157.5	2.498	2.498	2.498	4.996	7.493
160.0	2.498	2.498	2.498	2.498	4.996
162.5	2.498	2.498	2.498	2.498	2.498
165.0	0.000	2.498	0.000	0.000	0.000
167.5	2.498	2.498	0.000	0.000	0.000
170.0	2.498	2.498	0.000	0.000	0.000
172.5	2.498	0.000	0.000	0.000	0.000
175.0	2.498	2.498	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	458.26	N.A.	9.10
0-30	989.83	N.A.	19.70
0-40	1652.63	N.A.	32.90
0-60	3064.16	N.A.	61.10
0-80	4139.95	N.A.	82.50
0-90	4474.01	N.A.	89.20
10-90	4357.1	N.A.	86.80
20-40	1194.37	N.A.	23.80
20-50	1911.71	N.A.	38.10
40-70	2016.15	N.A.	40.20
60-80	1075.78	N.A.	21.40
70-80	471.16	N.A.	9.40
80-90	334.06	N.A.	6.70
90-110	371.12	N.A.	7.40
90-120	459.36	N.A.	9.20
90-130	508.10	N.A.	10.10
90-150	540.42	N.A.	10.80
90-180	543.51	N.A.	10.80
110-180	172.38	N.A.	3.40
0-180	5017.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.91
10-20	341.35
20-30	531.57
30-40	662.81
40-50	717.34
50-60	694.19
60-70	604.63
70-80	471.16
80-90	334.06
90-100	225.45
100-110	145.68
110-120	88.24
120-130	48.74
130-140	23.17
140-150	9.14
150-160	2.58
160-170	0.45
170-180	0.05

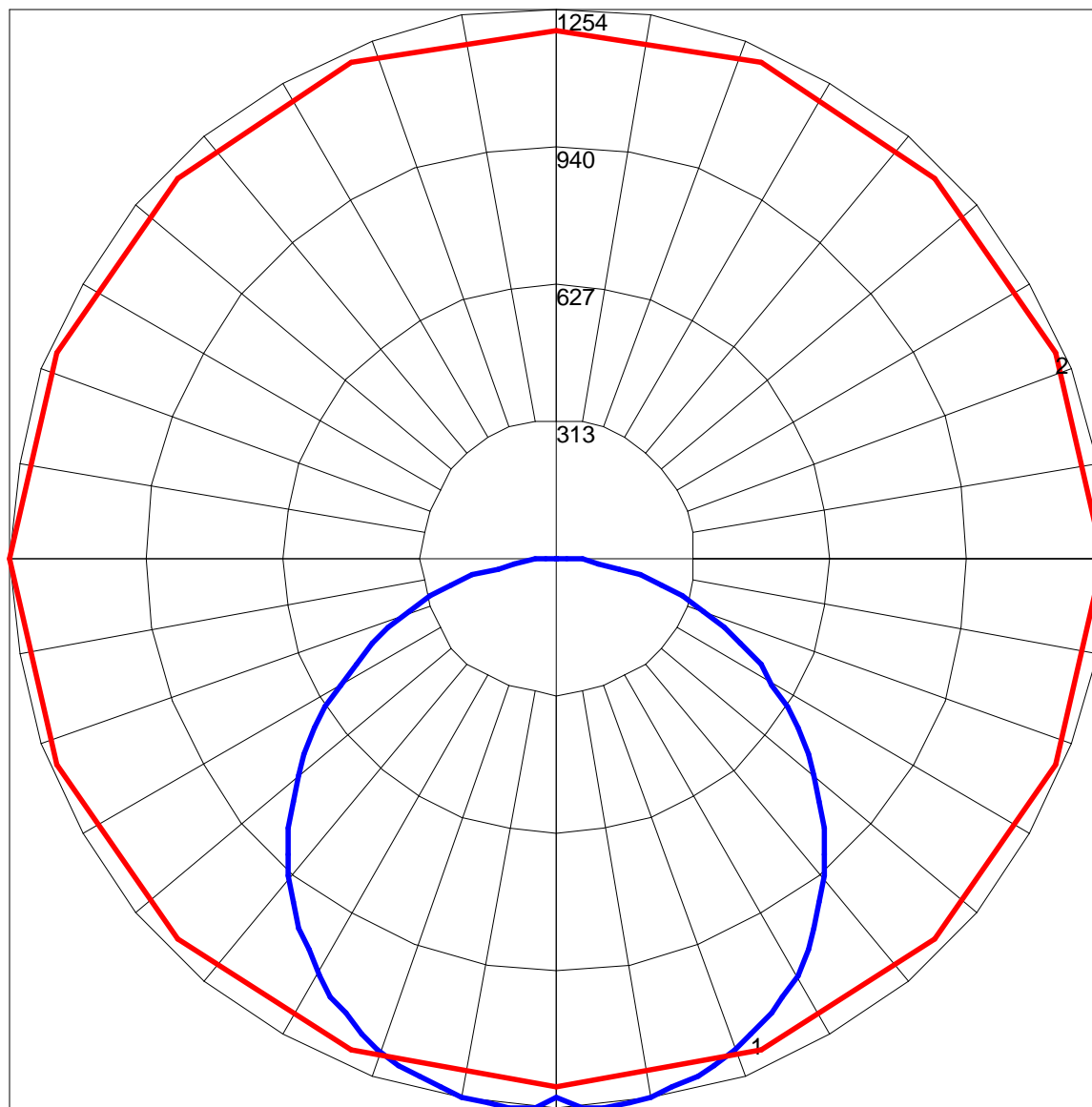
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1253.881 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.)