



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9679
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/07/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-40L-FL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	9919	6461	6038
55	9329	5626	5397
65	8392	4795	4758
75	6705	4052	4188
85	3167	3410	3722

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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	984	984	984	984	984
2.5	1009	992	984	977	967
5.0	1009	992	984	977	968
7.5	1006	990	983	976	968
10.0	1001	986	980	974	966
12.5	994	979	975	971	964
15.0	985	972	968	966	960
17.5	974	961	959	960	955
20.0	960	948	949	952	948
22.5	943	934	938	943	941
25.0	924	918	923	933	931
27.5	903	898	908	921	920
30.0	878	876	890	906	908
32.5	852	852	870	890	892
35.0	823	826	848	873	876
37.5	794	799	825	854	858
40.0	762	769	799	832	838
42.5	728	739	772	809	817
45.0	693	706	744	784	794
47.5	657	673	714	760	771
50.0	621	637	684	734	748
52.5	580	602	653	707	724
55.0	542	563	622	680	699
57.5	501	525	589	652	673
60.0	458	488	557	623	646
62.5	416	450	524	593	618
65.0	374	412	492	564	588
67.5	331	375	461	534	560
70.0	287	337	430	505	532
72.5	242	301	400	477	504
75.0	199	265	371	450	477
77.5	156	231	341	422	451
80.0	115	201	314	397	425
82.5	77	173	288	372	399
85.0	44	148	265	346	375
87.5	19	125	242	323	353
90.0	5	106	219	300	329
92.5	1	87	198	278	306
95.0	1	72	179	256	284
97.5	1	60	161	235	263
100.0	2	50	145	216	242
102.5	2	42	130	197	222
105.0	1	35	116	180	203
107.5	1	29	103	164	187
110.0	1	24	91	149	171
112.5	1	20	81	135	155
115.0	1	17	71	122	141
117.5	1	14	62	109	127
120.0	1	12	55	97	114
122.5	1	10	47	86	102
125.0	1	8	41	76	90
127.5	1	6	35	66	80
130.0	1	5	30	57	70
132.5	1	4	26	50	61

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CANDELA TABULATION - (Cont.)

135.0	1	3	22	43	52
137.5	1	3	18	36	44
140.0	1	2	15	30	37
142.5	1	2	12	25	31
145.0	1	1	9	20	25
147.5	1	2	7	16	21
150.0	1	1	5	12	16
152.5	1	1	4	9	12
155.0	1	1	2	6	9
157.5	1	1	2	4	6
160.0	1	1	1	2	3
162.5	1	1	1	1	2
165.0	1	1	1	1	1
167.5	1	1	1	1	1
170.0	1	1	1	1	1
172.5	1	1	1	1	1
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	1	1	1	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.91	N.A.	9.20
0-30	794.71	N.A.	19.80
0-40	1326.27	N.A.	33.00
0-60	2456.9	N.A.	61.20
0-80	3316.58	N.A.	82.60
0-90	3582.57	N.A.	89.30
10-90	3488.66	N.A.	86.90
20-40	958.36	N.A.	23.90
20-50	1533.17	N.A.	38.20
40-70	1613.63	N.A.	40.20
60-80	859.68	N.A.	21.40
70-80	376.68	N.A.	9.40
80-90	265.99	N.A.	6.60
90-110	294.09	N.A.	7.30
90-120	364.39	N.A.	9.10
90-130	403.11	N.A.	10.00
90-150	428.95	N.A.	10.70
90-180	431.20	N.A.	10.70
110-180	137.10	N.A.	3.40
0-180	4013.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.91
10-20	274.00
20-30	426.80
30-40	531.56
40-50	574.81
50-60	555.81
60-70	483.00
70-80	376.68
80-90	265.99
90-100	178.51
100-110	115.59
110-120	70.29
120-130	38.72
130-140	18.64
140-150	7.20
150-160	1.84
160-170	0.32
170-180	0.10

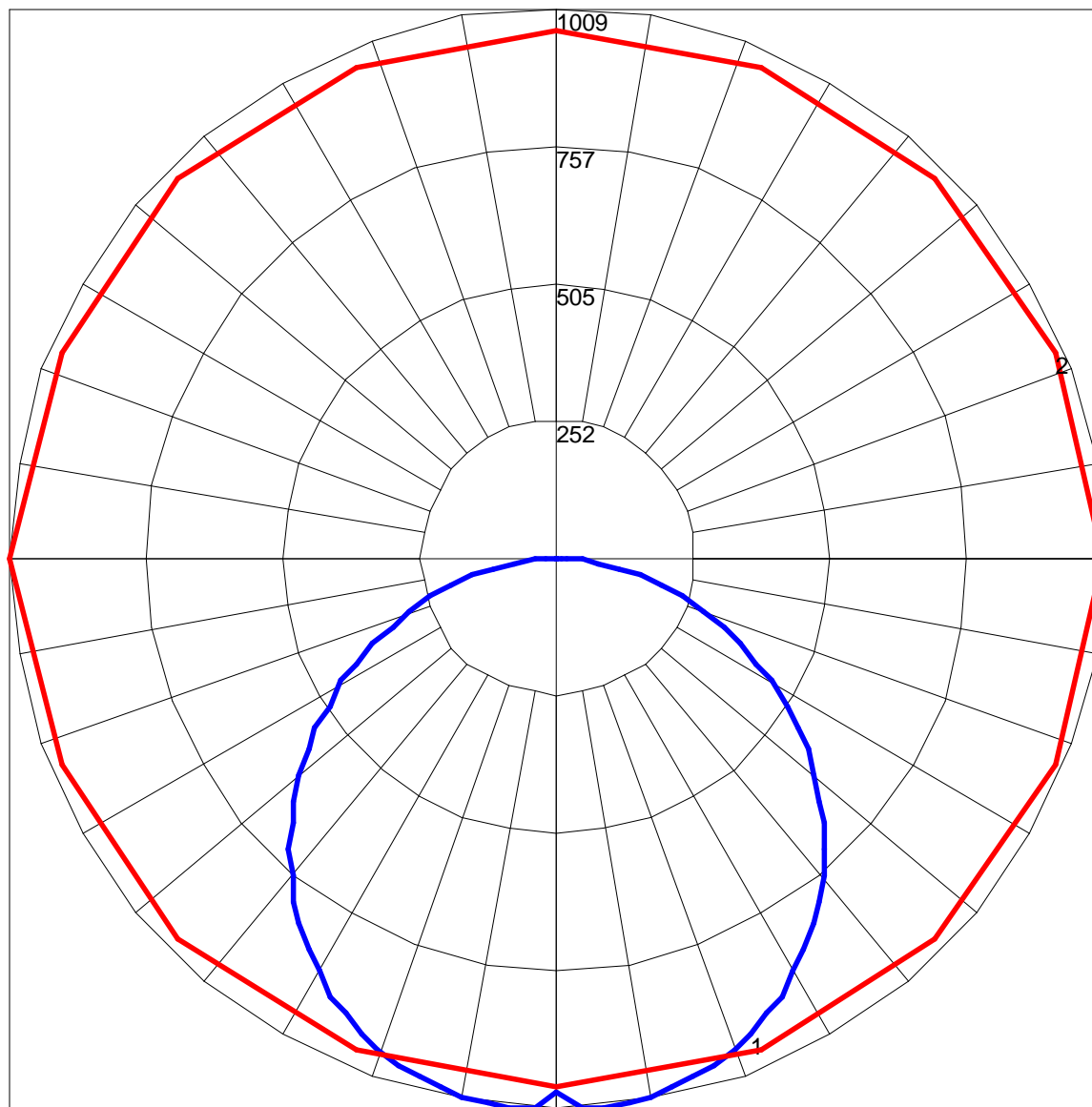
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	90	85	88	84	81	82	79	76	77	75	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	47	74	62	53	47	58	51	45	54	48	43	51	46	41	39
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	50	41	34	47	39	33	44	37	32	41	35	31	29
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	39	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	34	27	22	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1009 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.)