



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL4-LED-20L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9918
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-20L-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	2009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	15.2
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	4953	3222	3019
55	4630	2804	2695
65	4196	2407	2379
75	3335	2021	2099
85	1511	1712	1866

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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	490	490	490	490	490
2.5	502	495	491	487	483
5.0	502	494	491	487	483
7.5	501	493	490	486	483
10.0	499	491	489	486	482
12.5	495	488	486	484	481
15.0	491	485	483	482	479
17.5	485	479	479	479	476
20.0	478	473	474	475	473
22.5	470	465	468	471	469
25.0	460	457	461	465	465
27.5	450	447	453	459	459
30.0	438	437	444	452	453
32.5	425	425	435	445	445
35.0	411	413	423	436	437
37.5	396	399	412	426	428
40.0	380	384	399	415	418
42.5	364	369	386	404	407
45.0	346	353	371	392	397
47.5	328	336	357	380	386
50.0	309	319	342	368	374
52.5	292	300	327	354	363
55.0	269	282	310	340	349
57.5	250	263	294	326	336
60.0	230	244	279	312	323
62.5	210	226	263	297	309
65.0	187	207	247	282	294
67.5	166	188	231	268	280
70.0	144	169	215	253	266
72.5	121	149	200	239	252
75.0	99	133	185	225	239
77.5	78	117	171	212	226
80.0	57	102	158	199	213
82.5	39	88	145	186	200
85.0	21	75	133	174	188
87.5	9	63	122	163	177
90.0	1	53	111	151	166
92.5	0	44	101	140	154
95.0	1	37	91	129	143
97.5	1	31	82	119	132
100.0	1	25	73	109	122
102.5	1	21	66	99	112
105.0	1	18	58	91	103
107.5	0	15	52	83	94
110.0	0	12	46	75	86
112.5	0	10	41	68	78
115.0	0	9	36	61	71
117.5	0	7	31	55	64
120.0	0	6	27	49	57
122.5	0	5	24	43	51
125.0	0	4	21	39	46
127.5	0	3	17	34	40
130.0	1	3	15	29	35
132.5	0	2	12	25	30

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CANDELA TABULATION - (Cont.)

135.0	1	2	11	21	26
137.5	1	1	9	18	22
140.0	1	1	7	15	19
142.5	0	1	6	13	15
145.0	1	1	5	10	13
147.5	1	1	3	8	10
150.0	1	1	3	6	8
152.5	1	1	2	5	6
155.0	1	1	1	3	4
157.5	1	1	1	2	3
160.0	1	1	1	1	2
162.5	1	1	1	1	1
165.0	0	1	0	0	0
167.5	1	1	0	0	0
170.0	1	1	0	0	0
172.5	1	0	0	0	0
175.0	1	1	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	183.47	N.A.	9.10
0-30	396.29	N.A.	19.70
0-40	661.64	N.A.	32.90
0-60	1226.76	N.A.	61.10
0-80	1657.46	N.A.	82.50
0-90	1791.2	N.A.	89.20
10-90	1744.39	N.A.	86.80
20-40	478.18	N.A.	23.80
20-50	765.37	N.A.	38.10
40-70	807.18	N.A.	40.20
60-80	430.70	N.A.	21.40
70-80	188.63	N.A.	9.40
80-90	133.74	N.A.	6.70
90-110	148.58	N.A.	7.40
90-120	183.91	N.A.	9.20
90-130	203.42	N.A.	10.10
90-150	216.36	N.A.	10.80
90-180	217.60	N.A.	10.80
110-180	69.01	N.A.	3.40
0-180	2008.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.81
10-20	136.66
20-30	212.82
30-40	265.36
40-50	287.19
50-60	277.92
60-70	242.07
70-80	188.63
80-90	133.74
90-100	90.26
100-110	58.32
110-120	35.33
120-130	19.51
130-140	9.28
140-150	3.66
150-160	1.03
160-170	0.18
170-180	0.02

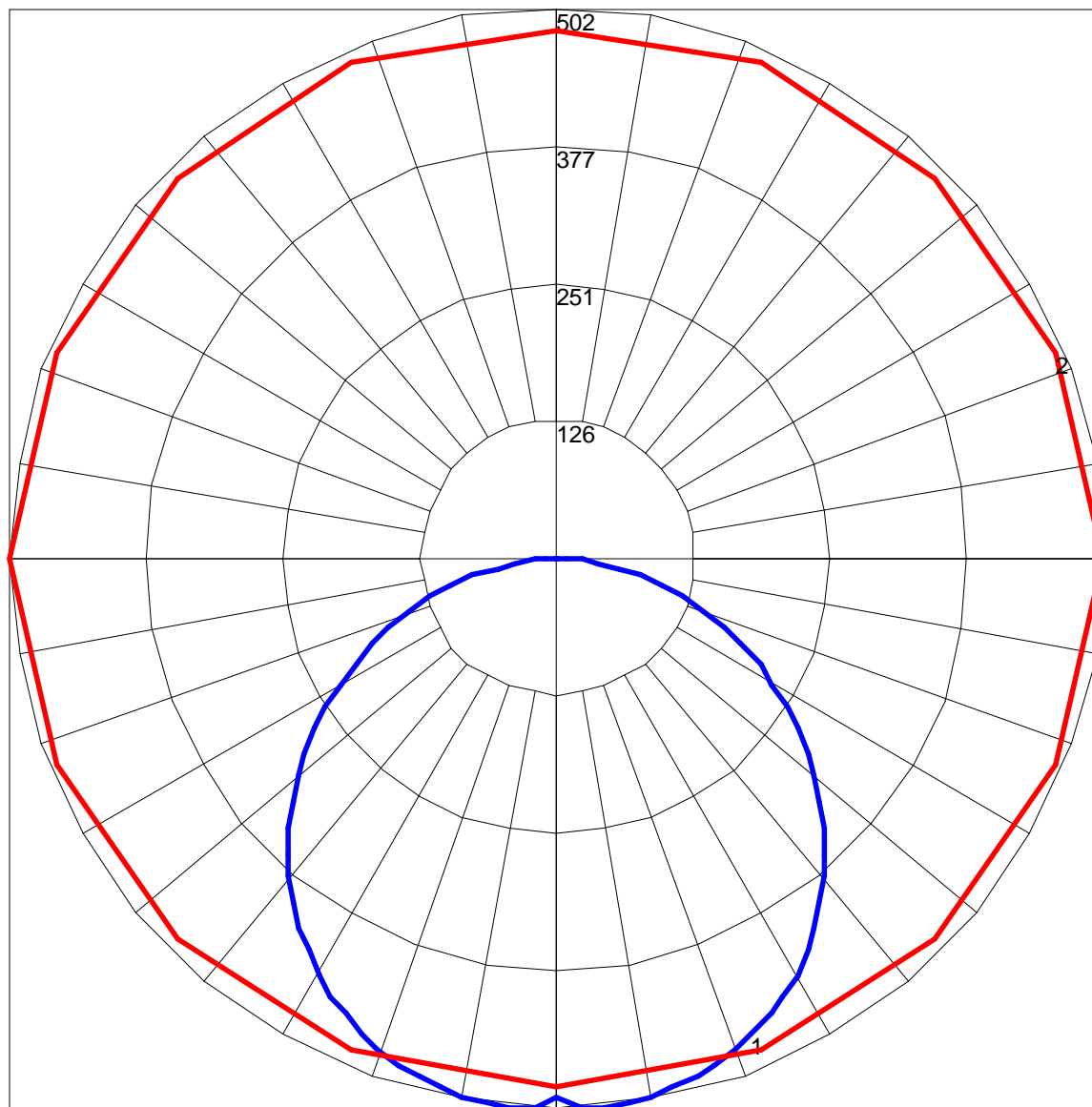
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 502 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.)