



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL2-LED-20L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9694
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/09/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL2-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	2082
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	16.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 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	9598	6505	6311
55	8782	5635	5637
65	7665	4796	5001
75	5836	3999	4390
85	2540	3350	3911

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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	509	509	509	509	509
2.5	521	516	510	503	500
5.0	521	516	510	503	500
7.5	519	515	509	503	500
10.0	517	513	508	502	500
12.5	513	509	505	501	499
15.0	508	505	502	499	497
17.5	502	499	498	496	495
20.0	495	493	493	492	492
22.5	486	485	486	487	488
25.0	477	476	479	483	484
27.5	466	466	471	477	479
30.0	454	455	462	469	472
32.5	440	442	451	461	465
35.0	425	428	439	452	457
37.5	409	413	427	442	447
40.0	392	397	413	431	438
42.5	374	380	399	419	427
45.0	355	362	384	407	415
47.5	336	345	369	394	404
50.0	317	327	353	381	392
52.5	297	308	337	366	378
55.0	276	289	321	352	365
57.5	256	270	304	338	351
60.0	234	251	287	323	336
62.5	214	231	271	309	322
65.0	191	211	255	294	309
67.5	168	191	238	279	294
70.0	146	173	221	263	279
72.5	125	154	206	249	264
75.0	103	137	191	234	250
77.5	82	120	176	220	235
80.0	62	105	162	207	222
82.5	42	89	149	193	209
85.0	25	76	137	181	197
87.5	13	64	125	169	185
90.0	5	54	114	157	172
92.5	2	46	104	146	160
95.0	2	38	94	134	148
97.5	1	32	84	123	137
100.0	1	26	76	114	127
102.5	1	22	68	104	117
105.0	1	18	60	95	108
107.5	1	16	54	87	99
110.0	1	13	48	78	90
112.5	1	11	42	71	82
115.0	1	9	37	64	74
117.5	1	8	33	57	67
120.0	1	7	29	51	60
122.5	1	5	25	45	53
125.0	1	4	21	40	47
127.5	1	4	18	35	42
130.0	1	3	16	30	36
132.5	1	2	13	26	31

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CANDELA TABULATION - (Cont.)

135.0	1	2	11	22	26
137.5	1	1	9	19	23
140.0	1	1	7	15	19
142.5	1	1	6	13	16
145.0	1	1	4	10	13
147.5	1	1	3	8	10
150.0	1	1	3	6	7
152.5	1	1	2	4	6
155.0	1	1	1	3	4
157.5	1	1	1	2	2
160.0	1	1	1	1	1
162.5	0	1	1	0	1
165.0	1	1	1	0	1
167.5	1	1	1	0	0
170.0	1	1	1	0	0
172.5	0	0	0	0	0
175.0	0	0	1	0	0
177.5	1	1	1	0	1
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	190.52	N.A.	9.20
0-30	411.71	N.A.	19.80
0-40	687.10	N.A.	33.00
0-60	1271.08	N.A.	61.10
0-80	1716.43	N.A.	82.50
0-90	1855.01	N.A.	89.10
10-90	1806.41	N.A.	86.80
20-40	496.58	N.A.	23.90
20-50	793.64	N.A.	38.10
40-70	833.91	N.A.	40.10
60-80	445.35	N.A.	21.40
70-80	195.42	N.A.	9.40
80-90	138.58	N.A.	6.70
90-110	154.56	N.A.	7.40
90-120	191.64	N.A.	9.20
90-130	212.04	N.A.	10.20
90-150	225.31	N.A.	10.80
90-180	226.51	N.A.	10.90
110-180	71.95	N.A.	3.50
0-180	2081.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.60
10-20	141.92
20-30	221.20
30-40	275.39
40-50	297.05
50-60	286.92
60-70	249.93
70-80	195.42
80-90	138.58
90-100	93.65
100-110	60.90
110-120	37.08
120-130	20.40
130-140	9.61
140-150	3.65
150-160	0.97
160-170	0.20
170-180	0.03

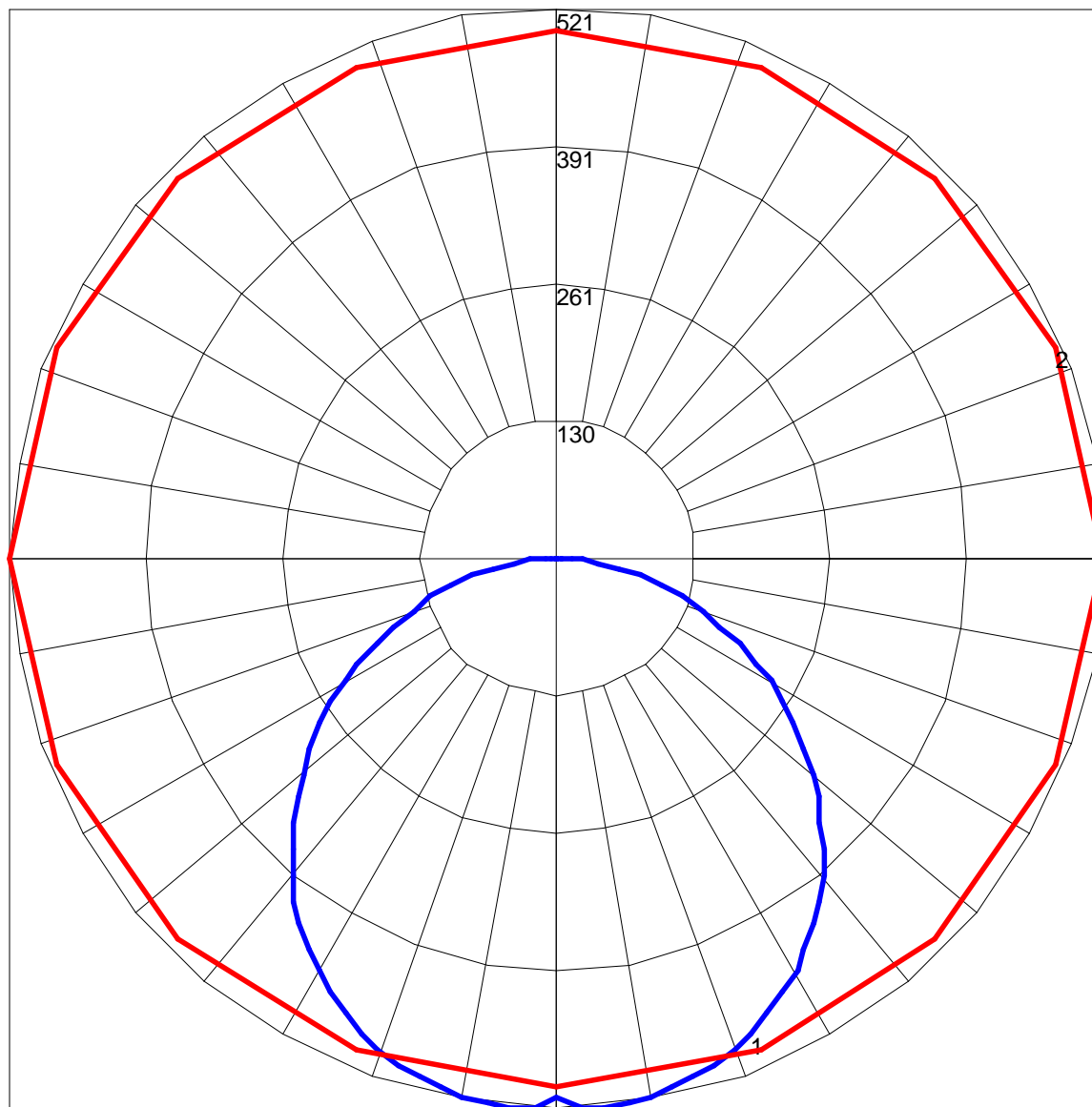
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	47	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 = 521 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.)