



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDLRK4-LED-20L-FL-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-9921  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 09/25/19  
[TEST DATE] 03/20/18  
[MANUFACT] LSI INDUSTRIES, INC  
[LUMCAT] SDLRK4-LED-20L-FL-50  
[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	2148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	15.3
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	5296	3448	3224
55	4974	3003	2880
65	4488	2582	2557
75	3605	2174	2248
85	1799	1840	2005

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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	522	522	522	522	522
2.5	535	527	522	518	514
5.0	535	527	522	519	514
7.5	534	525	521	518	514
10.0	531	523	520	517	513
12.5	528	520	518	515	512
15.0	523	516	514	513	510
17.5	517	511	510	510	507
20.0	510	504	505	506	504
22.5	502	497	498	501	500
25.0	492	488	491	496	495
27.5	480	478	483	489	489
30.0	467	466	474	482	483
32.5	454	453	463	474	475
35.0	439	440	451	465	466
37.5	422	425	439	455	457
40.0	406	410	426	443	447
42.5	388	394	412	432	435
45.0	370	377	397	419	424
47.5	351	359	382	406	412
50.0	331	341	366	392	399
52.5	311	322	349	378	387
55.0	289	301	332	363	373
57.5	269	281	316	349	360
60.0	245	261	299	333	346
62.5	223	241	281	318	331
65.0	200	221	265	303	316
67.5	177	201	248	287	300
70.0	154	182	231	271	285
72.5	131	162	215	256	270
75.0	107	143	199	241	256
77.5	85	125	184	227	242
80.0	62	109	169	213	228
82.5	42	94	156	199	215
85.0	25	80	143	187	202
87.5	11	68	131	174	189
90.0	3	57	119	162	177
92.5	1	48	108	150	165
95.0	1	40	97	138	152
97.5	1	33	87	127	142
100.0	1	28	79	117	131
102.5	1	23	70	107	120
105.0	1	19	63	98	110
107.5	0	16	56	89	101
110.0	0	13	50	80	92
112.5	0	11	44	73	84
115.0	1	9	39	66	76
117.5	0	8	34	59	68
120.0	0	6	29	52	61
122.5	0	5	26	47	55
125.0	1	4	22	41	48
127.5	1	4	19	36	43
130.0	0	3	16	31	37
132.5	0	2	14	27	32

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CANDELA TABULATION - (Cont.)

135.0	0	2	11	23	28
137.5	1	1	10	19	23
140.0	0	1	8	16	20
142.5	0	1	6	13	16
145.0	0	1	5	11	13
147.5	1	1	4	9	11
150.0	1	1	3	7	8
152.5	0	0	1	5	6
155.0	0	0	1	3	4
157.5	1	0	0	2	3
160.0	0	0	0	1	1
162.5	1	1	1	1	1
165.0	1	0	0	0	0
167.5	1	1	1	0	0
170.0	1	1	0	0	0
172.5	1	1	1	0	0
175.0	1	1	1	1	1
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	195.38	N.A.	9.10
0-30	422.33	N.A.	19.70
0-40	705.32	N.A.	32.80
0-60	1309.43	N.A.	61.00
0-80	1771.13	N.A.	82.50
0-90	1914.67	N.A.	89.10
10-90	1864.83	N.A.	86.80
20-40	509.94	N.A.	23.70
20-50	816.79	N.A.	38.00
40-70	863.26	N.A.	40.20
60-80	461.70	N.A.	21.50
70-80	202.55	N.A.	9.40
80-90	143.54	N.A.	6.70
90-110	159.45	N.A.	7.40
90-120	197.45	N.A.	9.20
90-130	218.36	N.A.	10.20
90-150	232.12	N.A.	10.80
90-180	233.16	N.A.	10.90
110-180	73.71	N.A.	3.40
0-180	2147.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.83
10-20	145.55
20-30	226.94
30-40	283.00
40-50	306.85
50-60	297.25
60-70	259.15
70-80	202.55
80-90	143.54
90-100	96.74
100-110	62.71
110-120	38.00
120-130	20.91
130-140	9.90
140-150	3.85
150-160	0.84
160-170	0.15
170-180	0.05

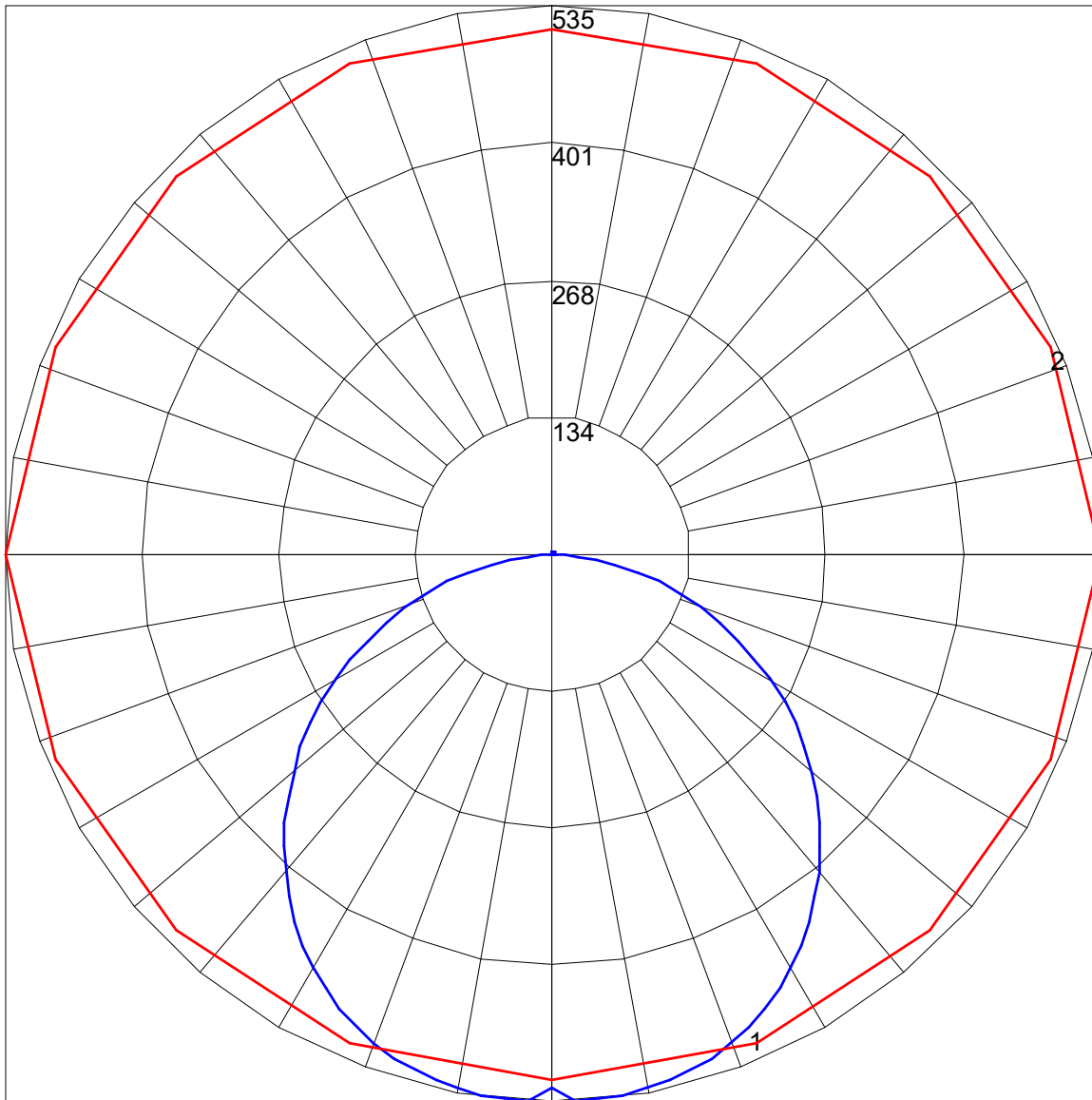
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	61	66	62	59	56
3	84	73	64	57	81	70	62	55	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	48	42	37	46	40	35	33
6	65	51	42	35	62	49	41	34	46	39	33	44	37	32	41	35	31	28
7	60	46	37	30	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 = 535 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.)