



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK8-LED-100L-FL-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-9832

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 09/25/19

[TEST DATE] 03/01/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] SDLRK8-LED-100L-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	9998
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	72.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 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	12697	8373	7870
55	12133	7357	7034
65	11006	6317	6243
75	9042	5370	5466
85	4955	4408	4343

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2493	2493	2493	2493	2493
<b>2.5</b>	2507	2506	2496	2493	2502
<b>5.0</b>	2508	2506	2497	2497	2504
<b>7.5</b>	2501	2500	2494	2496	2505
<b>10.0</b>	2488	2490	2487	2493	2503
<b>12.5</b>	2469	2473	2475	2485	2497
<b>15.0</b>	2446	2451	2459	2475	2488
<b>17.5</b>	2415	2424	2438	2460	2475
<b>20.0</b>	2381	2392	2413	2442	2460
<b>22.5</b>	2338	2353	2382	2417	2438
<b>25.0</b>	2293	2309	2348	2389	2413
<b>27.5</b>	2241	2259	2308	2358	2386
<b>30.0</b>	2183	2205	2263	2322	2352
<b>32.5</b>	2119	2146	2213	2280	2314
<b>35.0</b>	2047	2081	2160	2234	2273
<b>37.5</b>	1973	2011	2101	2184	2228
<b>40.0</b>	1891	1938	2040	2131	2178
<b>42.5</b>	1810	1859	1972	2074	2127
<b>45.0</b>	1722	1778	1904	2013	2070
<b>47.5</b>	1633	1694	1833	1952	2008
<b>50.0</b>	1542	1607	1757	1887	1949
<b>52.5</b>	1450	1518	1680	1820	1886
<b>55.0</b>	1352	1429	1602	1753	1822
<b>57.5</b>	1246	1335	1518	1685	1757
<b>60.0</b>	1136	1238	1436	1613	1687
<b>62.5</b>	1029	1141	1356	1539	1615
<b>65.0</b>	923	1046	1273	1465	1543
<b>67.5</b>	815	953	1194	1388	1461
<b>70.0</b>	707	860	1115	1312	1388
<b>72.5</b>	598	770	1037	1239	1317
<b>75.0</b>	486	680	962	1168	1245
<b>77.5</b>	382	596	887	1097	1175
<b>80.0</b>	278	518	818	1025	1103
<b>82.5</b>	187	447	748	940	1011
<b>85.0</b>	109	383	667	824	875
<b>87.5</b>	48	321	549	658	689
<b>90.0</b>	13	242	409	501	534
<b>92.5</b>	5	191	330	408	435
<b>95.0</b>	4	163	298	374	399
<b>97.5</b>	4	145	273	347	373
<b>100.0</b>	4	129	261	325	351
<b>102.5</b>	4	110	275	316	337
<b>105.0</b>	4	93	291	339	347
<b>107.5</b>	4	79	264	377	396
<b>110.0</b>	3	65	233	380	423
<b>112.5</b>	4	56	209	347	403
<b>115.0</b>	3	47	186	312	365
<b>117.5</b>	3	39	166	282	330
<b>120.0</b>	3	33	146	255	298
<b>122.5</b>	4	28	126	228	268
<b>125.0</b>	3	23	111	202	240
<b>127.5</b>	3	19	97	177	213
<b>130.0</b>	4	16	83	155	187
<b>132.5</b>	4	13	69	135	164

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CANDELA TABULATION - (Cont.)

135.0	4	11	56	117	142
137.5	4	9	47	99	122
140.0	4	7	39	81	102
142.5	4	7	32	64	83
145.0	4	6	25	52	64
147.5	4	5	20	43	52
150.0	4	5	16	33	42
152.5	4	4	10	25	32
155.0	4	4	9	19	24
157.5	4	4	7	13	17
160.0	3	4	5	8	10
162.5	4	4	5	7	8
165.0	4	4	4	5	6
167.5	4	4	4	4	5
170.0	4	4	4	4	4
172.5	4	4	3	3	3
175.0	4	4	3	3	3
177.5	4	4	3	3	3
180.0	3	3	3	3	3

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	934.51	N.A.	9.30
0-30	2018.46	N.A.	20.20
0-40	3369.72	N.A.	33.70
0-60	6258.87	N.A.	62.60
0-80	8474.22	N.A.	84.80
0-90	9103.44	N.A.	91.10
10-90	8865.03	N.A.	88.70
20-40	2435.2	N.A.	24.40
20-50	3900.43	N.A.	39.00
40-70	4131.77	N.A.	41.30
60-80	2215.34	N.A.	22.20
70-80	972.73	N.A.	9.70
80-90	629.22	N.A.	6.30
90-110	530.02	N.A.	5.30
90-120	712.65	N.A.	7.10
90-130	816.52	N.A.	8.20
90-150	886.81	N.A.	8.90
90-180	894.13	N.A.	8.90
110-180	364.11	N.A.	3.60
0-180	9997.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	238.41
10-20	696.10
20-30	1083.94
30-40	1351.26
40-50	1465.22
50-60	1423.93
60-70	1242.62
70-80	972.73
80-90	629.22
90-100	293.23
100-110	236.79
110-120	182.62
120-130	103.87
130-140	50.82
140-150	19.47
150-160	5.60
160-170	1.38
170-180	0.33

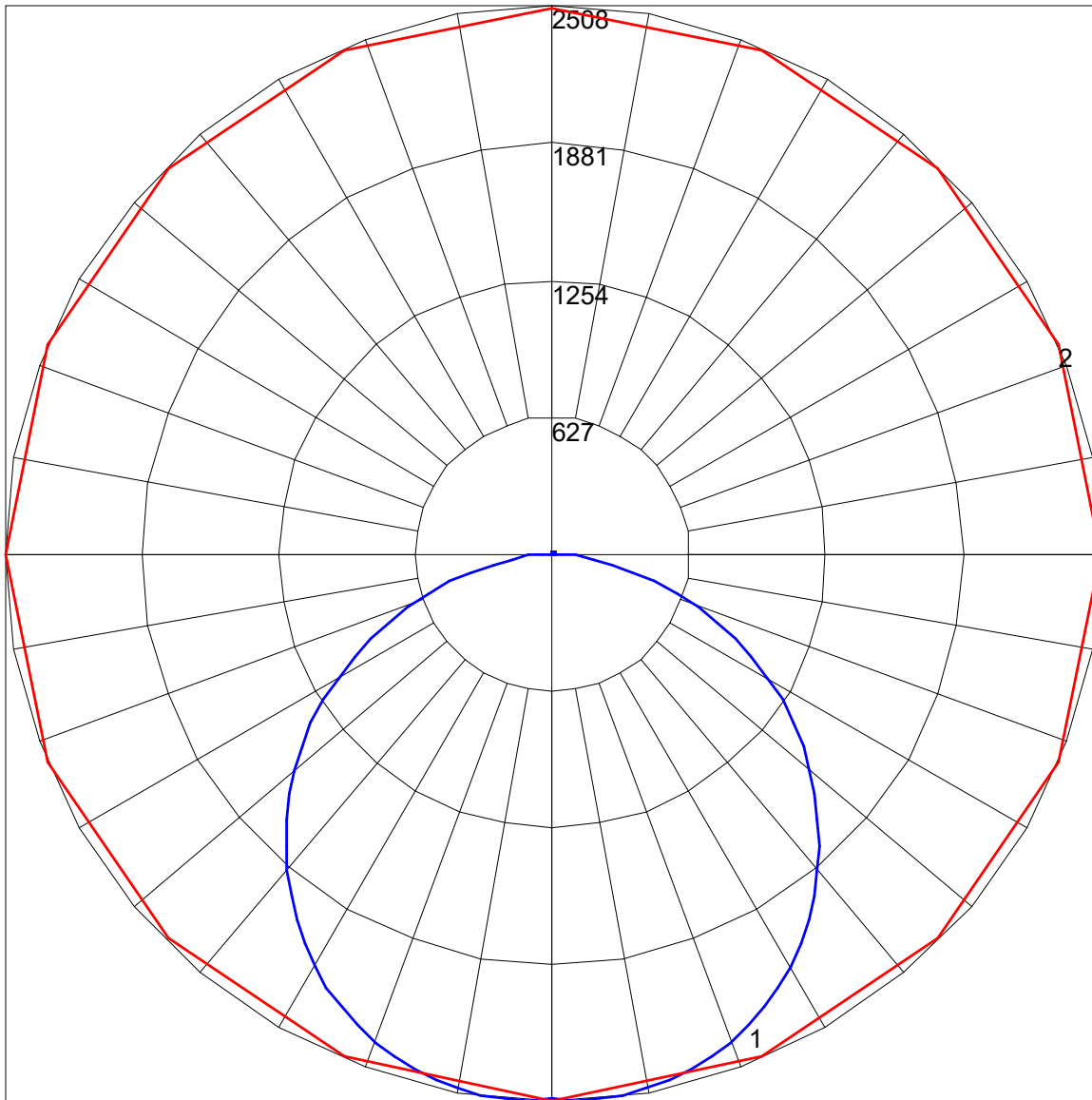
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	98	93	88	100	95	90	86	89	85	82	84	81	78	79	76	74	71
2	94	84	77	70	90	82	75	68	77	71	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	47	41	36	34
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	38	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 2508 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)