



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK4-LED-80L-FL-50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-9918\_scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 09/25/19

[TEST DATE] 03/20/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] SDLRK4-LED-80L-FL-50

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8606
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	61.2
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	21217	13802	12933
55	19836	12012	11545
65	17976	10312	10192
75	14289	8657	8990
85	6475	7333	7995

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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>
<b>0.0</b>	2099.209	2099.209	2099.209	2099.209	2099.209
<b>2.5</b>	2150.618	2120.630	2103.493	2086.357	2069.220
<b>5.0</b>	2150.618	2116.345	2103.493	2086.357	2069.220
<b>7.5</b>	2146.334	2112.061	2099.209	2082.073	2069.220
<b>10.0</b>	2137.766	2103.493	2094.925	2082.073	2064.936
<b>12.5</b>	2120.630	2090.641	2082.073	2073.504	2060.652
<b>15.0</b>	2103.493	2077.789	2069.220	2064.936	2052.084
<b>17.5</b>	2077.789	2052.084	2052.084	2052.084	2039.232
<b>20.0</b>	2047.800	2026.379	2030.663	2034.948	2026.379
<b>22.5</b>	2013.527	1992.107	2004.959	2017.811	2009.243
<b>25.0</b>	1970.686	1957.834	1974.970	1992.107	1992.107
<b>27.5</b>	1927.845	1914.993	1940.697	1966.402	1966.402
<b>30.0</b>	1876.436	1872.152	1902.140	1936.413	1940.697
<b>32.5</b>	1820.743	1820.743	1863.584	1906.425	1906.425
<b>35.0</b>	1760.765	1769.333	1812.174	1867.868	1872.152
<b>37.5</b>	1696.504	1709.356	1765.049	1825.027	1833.595
<b>40.0</b>	1627.958	1645.094	1709.356	1777.902	1790.754
<b>42.5</b>	1559.412	1580.833	1653.663	1730.776	1743.629
<b>45.0</b>	1482.299	1512.287	1589.401	1679.367	1700.788
<b>47.5</b>	1405.185	1439.458	1529.424	1627.958	1653.663
<b>50.0</b>	1323.787	1366.628	1465.162	1576.549	1602.253
<b>52.5</b>	1250.957	1285.230	1400.901	1516.571	1555.128
<b>55.0</b>	1152.423	1208.116	1328.071	1456.594	1495.151
<b>57.5</b>	1071.025	1126.718	1259.525	1396.617	1439.458
<b>60.0</b>	985.343	1045.320	1195.264	1336.639	1383.764
<b>62.5</b>	899.661	968.207	1126.718	1272.378	1323.787
<b>65.0</b>	801.127	886.809	1058.173	1208.116	1259.525
<b>67.5</b>	711.161	805.411	989.627	1148.139	1199.548
<b>70.0</b>	616.910	724.013	921.082	1083.877	1139.571
<b>72.5</b>	518.376	638.331	856.820	1023.900	1079.593
<b>75.0</b>	424.126	569.785	792.559	963.923	1023.900
<b>77.5</b>	334.160	501.240	732.581	908.229	968.207
<b>80.0</b>	244.194	436.978	676.888	852.536	912.513
<b>82.5</b>	167.080	377.001	621.195	796.843	856.820
<b>85.0</b>	89.966	321.308	569.785	745.433	805.411
<b>87.5</b>	38.557	269.898	522.660	698.308	758.286
<b>90.0</b>	4.284	227.057	475.535	646.899	711.161
<b>92.5</b>	0.000	188.500	432.694	599.774	659.751
<b>95.0</b>	4.284	158.512	389.853	552.649	612.626
<b>97.5</b>	4.284	132.807	351.296	509.808	565.501
<b>100.0</b>	4.284	107.103	312.739	466.967	522.660
<b>102.5</b>	4.284	89.966	282.751	424.126	479.819
<b>105.0</b>	4.284	77.114	248.478	389.853	441.262
<b>107.5</b>	0.000	64.262	222.773	355.580	402.705
<b>110.0</b>	0.000	51.409	197.069	321.308	368.433
<b>112.5</b>	0.000	42.841	175.648	291.319	334.160
<b>115.0</b>	0.000	38.557	154.228	261.330	304.171
<b>117.5</b>	0.000	29.989	132.807	235.626	274.182
<b>120.0</b>	0.000	25.705	115.671	209.921	244.194
<b>122.5</b>	0.000	21.421	102.818	184.216	218.489
<b>125.0</b>	0.000	17.136	89.966	167.080	197.069
<b>127.5</b>	0.000	12.852	72.830	145.659	171.364
<b>130.0</b>	4.284	12.852	64.262	124.239	149.944
<b>132.5</b>	0.000	8.568	51.409	107.103	128.523

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	4.284	8.568	47.125	89.966	111.387
<b>137.5</b>	4.284	4.284	38.557	77.114	94.250
<b>140.0</b>	4.284	4.284	29.989	64.262	81.398
<b>142.5</b>	0.000	4.284	25.705	55.693	64.262
<b>145.0</b>	4.284	4.284	21.421	42.841	55.693
<b>147.5</b>	4.284	4.284	12.852	34.273	42.841
<b>150.0</b>	4.284	4.284	12.852	25.705	34.273
<b>152.5</b>	4.284	4.284	8.568	21.421	25.705
<b>155.0</b>	4.284	4.284	4.284	12.852	17.136
<b>157.5</b>	4.284	4.284	4.284	8.568	12.852
<b>160.0</b>	4.284	4.284	4.284	4.284	8.568
<b>162.5</b>	4.284	4.284	4.284	4.284	4.284
<b>165.0</b>	0.000	4.284	0.000	0.000	0.000
<b>167.5</b>	4.284	4.284	0.000	0.000	0.000
<b>170.0</b>	4.284	4.284	0.000	0.000	0.000
<b>172.5</b>	4.284	0.000	0.000	0.000	0.000
<b>175.0</b>	4.284	4.284	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	785.99	N.A.	9.10
0-30	1697.73	N.A.	19.70
0-40	2834.55	N.A.	32.90
0-60	5255.56	N.A.	61.10
0-80	7100.71	N.A.	82.50
0-90	7673.69	N.A.	89.20
10-90	7473.16	N.A.	86.80
20-40	2048.56	N.A.	23.80
20-50	3278.91	N.A.	38.10
40-70	3458.05	N.A.	40.20
60-80	1845.15	N.A.	21.40
70-80	808.12	N.A.	9.40
80-90	572.97	N.A.	6.70
90-110	636.54	N.A.	7.40
90-120	787.88	N.A.	9.20
90-130	871.48	N.A.	10.10
90-150	926.91	N.A.	10.80
90-180	932.21	N.A.	10.80
110-180	295.67	N.A.	3.40
0-180	8605.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.53
10-20	585.47
20-30	911.73
30-40	1136.82
40-50	1230.35
50-60	1190.66
60-70	1037.04
70-80	808.12
80-90	572.97
90-100	386.68
100-110	249.86
110-120	151.34
120-130	83.60
130-140	39.75
140-150	15.68
150-160	4.43
160-170	0.78
170-180	0.09

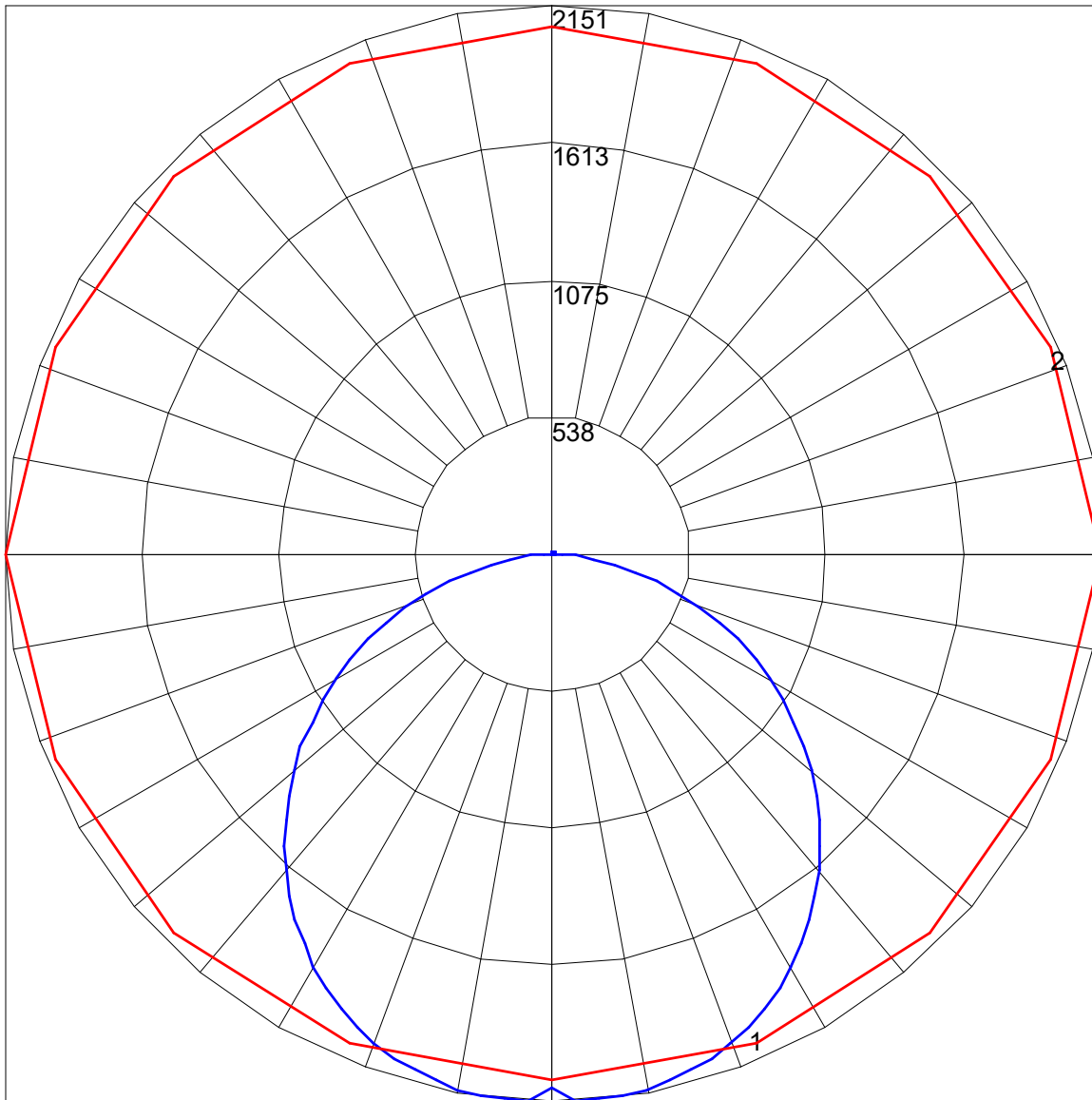
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2150.618 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.)