



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK4-LED-80L-FL-30.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-30

[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	7777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	19173	12473	11687
55	17925	10854	10432
65	16244	9318	9210
75	12913	7823	8124
85	5851	6626	7225

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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	1896.971	1896.971	1896.971	1896.971	1896.971
2.5	1943.428	1916.328	1900.843	1885.357	1869.872
5.0	1943.428	1912.457	1900.843	1885.357	1869.872
7.5	1939.556	1908.585	1896.971	1881.486	1869.872
10.0	1931.814	1900.843	1893.100	1881.486	1866.000
12.5	1916.328	1889.229	1881.486	1873.743	1862.129
15.0	1900.843	1877.614	1869.872	1866.000	1854.386
17.5	1877.614	1854.386	1854.386	1854.386	1842.772
20.0	1850.515	1831.158	1835.029	1838.901	1831.158
22.5	1819.544	1800.187	1811.801	1823.415	1815.673
25.0	1780.830	1769.216	1784.702	1800.187	1800.187
27.5	1742.117	1730.502	1753.731	1776.959	1776.959
30.0	1695.660	1691.789	1718.888	1749.859	1753.731
32.5	1645.332	1645.332	1684.046	1722.760	1722.760
35.0	1591.133	1598.876	1637.590	1687.917	1691.789
37.5	1533.063	1544.677	1595.004	1649.204	1656.946
40.0	1471.121	1486.606	1544.677	1606.619	1618.233
42.5	1409.179	1428.536	1494.349	1564.034	1575.648
45.0	1339.494	1366.594	1436.278	1517.577	1536.934
47.5	1269.809	1300.780	1382.079	1471.121	1494.349
50.0	1196.253	1234.967	1324.009	1424.664	1447.892
52.5	1130.440	1161.411	1265.938	1370.465	1405.307
55.0	1041.399	1091.726	1200.125	1316.266	1351.108
57.5	967.843	1018.170	1138.183	1262.067	1300.780
60.0	890.415	944.614	1080.112	1207.867	1250.453
62.5	812.988	874.930	1018.170	1149.797	1196.253
65.0	723.946	801.374	956.228	1091.726	1138.183
67.5	642.647	727.818	894.286	1037.527	1083.984
70.0	557.477	654.262	832.345	979.457	1029.784
72.5	468.436	576.834	774.274	925.257	975.585
75.0	383.266	514.892	716.203	871.058	925.257
77.5	301.967	452.950	662.004	820.730	874.930
80.0	220.668	394.880	611.676	770.403	824.602
82.5	150.983	340.681	561.349	720.075	774.274
85.0	81.299	290.353	514.892	673.618	727.818
87.5	34.842	243.896	472.307	631.033	685.233
90.0	3.871	205.183	429.722	584.577	642.647
92.5	0.000	170.340	391.008	541.992	596.191
95.0	3.871	143.241	352.295	499.407	553.606
97.5	3.871	120.012	317.452	460.693	511.021
100.0	3.871	96.784	282.610	421.979	472.307
102.5	3.871	81.299	255.510	383.266	433.593
105.0	3.871	69.685	224.539	352.295	398.751
107.5	0.000	58.071	201.311	321.324	363.909
110.0	0.000	46.456	178.083	290.353	332.938
112.5	0.000	38.714	158.726	263.253	301.967
115.0	0.000	34.842	139.369	236.154	274.867
117.5	0.000	27.100	120.012	212.925	247.768
120.0	0.000	23.228	104.527	189.697	220.668
122.5	0.000	19.357	92.913	166.469	197.440
125.0	0.000	15.485	81.299	150.983	178.083
127.5	0.000	11.614	65.813	131.627	154.855
130.0	3.871	11.614	58.071	112.270	135.498
132.5	0.000	7.743	46.456	96.784	116.141

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	3.871	7.743	42.585	81.299	100.656
<b>137.5</b>	3.871	3.871	34.842	69.685	85.170
<b>140.0</b>	3.871	3.871	27.100	58.071	73.556
<b>142.5</b>	0.000	3.871	23.228	50.328	58.071
<b>145.0</b>	3.871	3.871	19.357	38.714	50.328
<b>147.5</b>	3.871	3.871	11.614	30.971	38.714
<b>150.0</b>	3.871	3.871	11.614	23.228	30.971
<b>152.5</b>	3.871	3.871	7.743	19.357	23.228
<b>155.0</b>	3.871	3.871	3.871	11.614	15.485
<b>157.5</b>	3.871	3.871	3.871	7.743	11.614
<b>160.0</b>	3.871	3.871	3.871	3.871	7.743
<b>162.5</b>	3.871	3.871	3.871	3.871	3.871
<b>165.0</b>	0.000	3.871	0.000	0.000	0.000
<b>167.5</b>	3.871	3.871	0.000	0.000	0.000
<b>170.0</b>	3.871	3.871	0.000	0.000	0.000
<b>172.5</b>	3.871	0.000	0.000	0.000	0.000
<b>175.0</b>	3.871	3.871	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	710.27	N.A.	9.10
0-30	1534.17	N.A.	19.70
0-40	2561.47	N.A.	32.90
0-60	4749.24	N.A.	61.10
0-80	6416.63	N.A.	82.50
0-90	6934.4	N.A.	89.20
10-90	6753.2	N.A.	86.80
20-40	1851.2	N.A.	23.80
20-50	2963.02	N.A.	38.10
40-70	3124.9	N.A.	40.20
60-80	1667.39	N.A.	21.40
70-80	730.26	N.A.	9.40
80-90	517.77	N.A.	6.70
90-110	575.22	N.A.	7.40
90-120	711.98	N.A.	9.20
90-130	787.52	N.A.	10.10
90-150	837.61	N.A.	10.80
90-180	842.40	N.A.	10.80
110-180	267.18	N.A.	3.40
0-180	7776.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	181.21
10-20	529.06
20-30	823.90
30-40	1027.3
40-50	1111.82
50-60	1075.95
60-70	937.13
70-80	730.26
80-90	517.77
90-100	349.43
100-110	225.79
110-120	136.76
120-130	75.55
130-140	35.92
140-150	14.17
150-160	4.00
160-170	0.70
170-180	0.08

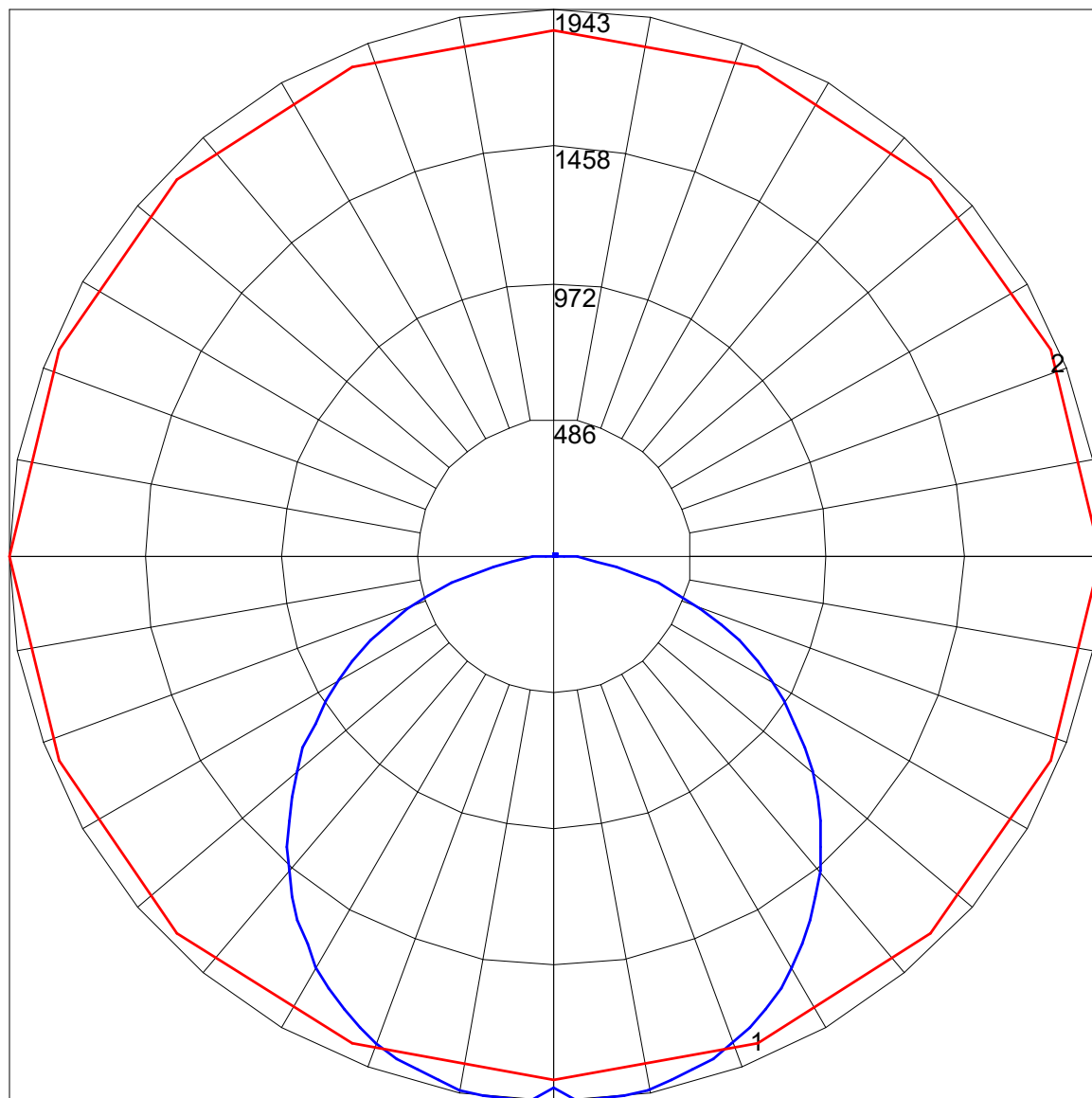
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1943.428 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.)