



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK4-LED-50L-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-50L-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                | 5349                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 139                 |
| Total Luminaire Watts           | 38.4                |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 13186            | 8578              | 8038              |
| 55                  | 12328            | 7465              | 7175              |
| 65                  | 11172            | 6409              | 6334              |
| 75                  | 8881             | 5380              | 5587              |
| 85                  | 4024             | 4557              | 4969              |

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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   | 1304.654   | 1304.654    | 1304.654    | 1304.654    | 1304.654    |
| 2.5   | 1336.605   | 1317.967    | 1307.317    | 1296.667    | 1286.016    |
| 5.0   | 1336.605   | 1315.305    | 1307.317    | 1296.667    | 1286.016    |
| 7.5   | 1333.943   | 1312.642    | 1304.654    | 1294.004    | 1286.016    |
| 10.0  | 1328.617   | 1307.317    | 1301.992    | 1294.004    | 1283.354    |
| 12.5  | 1317.967   | 1299.329    | 1294.004    | 1288.679    | 1280.691    |
| 15.0  | 1307.317   | 1291.342    | 1286.016    | 1283.354    | 1275.366    |
| 17.5  | 1291.342   | 1275.366    | 1275.366    | 1275.366    | 1267.379    |
| 20.0  | 1272.704   | 1259.391    | 1262.053    | 1264.716    | 1259.391    |
| 22.5  | 1251.403   | 1238.090    | 1246.078    | 1254.066    | 1248.741    |
| 25.0  | 1224.778   | 1216.790    | 1227.440    | 1238.090    | 1238.090    |
| 27.5  | 1198.152   | 1190.164    | 1206.140    | 1222.115    | 1222.115    |
| 30.0  | 1166.201   | 1163.539    | 1182.177    | 1203.477    | 1206.140    |
| 32.5  | 1131.588   | 1131.588    | 1158.214    | 1184.839    | 1184.839    |
| 35.0  | 1094.312   | 1099.637    | 1126.263    | 1160.876    | 1163.539    |
| 37.5  | 1054.374   | 1062.361    | 1096.975    | 1134.251    | 1139.576    |
| 40.0  | 1011.773   | 1022.423    | 1062.361    | 1104.962    | 1112.950    |
| 42.5  | 969.172    | 982.485     | 1027.748    | 1075.674    | 1083.662    |
| 45.0  | 921.246    | 939.884     | 987.810     | 1043.724    | 1057.036    |
| 47.5  | 873.320    | 894.620     | 950.534     | 1011.773    | 1027.748    |
| 50.0  | 822.731    | 849.357     | 910.596     | 979.822     | 995.797     |
| 52.5  | 777.468    | 798.768     | 870.657     | 942.546     | 966.509     |
| 55.0  | 716.229    | 750.842     | 825.394     | 905.270     | 929.233     |
| 57.5  | 665.640    | 700.253     | 782.793     | 867.995     | 894.620     |
| 60.0  | 612.389    | 649.665     | 742.854     | 830.719     | 860.007     |
| 62.5  | 559.138    | 601.739     | 700.253     | 790.780     | 822.731     |
| 65.0  | 497.899    | 551.150     | 657.652     | 750.842     | 782.793     |
| 67.5  | 441.985    | 500.561     | 615.051     | 713.566     | 745.517     |
| 70.0  | 383.409    | 449.973     | 572.450     | 673.628     | 708.241     |
| 72.5  | 322.170    | 396.721     | 532.512     | 636.352     | 670.965     |
| 75.0  | 263.593    | 354.120     | 492.574     | 599.076     | 636.352     |
| 77.5  | 207.680    | 311.520     | 455.298     | 564.463     | 601.739     |
| 80.0  | 151.766    | 271.581     | 420.684     | 529.849     | 567.125     |
| 82.5  | 103.840    | 234.305     | 386.071     | 495.236     | 532.512     |
| 85.0  | 55.914     | 199.692     | 354.120     | 463.285     | 500.561     |
| 87.5  | 23.963     | 167.741     | 324.832     | 433.997     | 471.273     |
| 90.0  | 2.663      | 141.116     | 295.544     | 402.047     | 441.985     |
| 92.5  | 0.000      | 117.153     | 268.919     | 372.758     | 410.034     |
| 95.0  | 2.663      | 98.515      | 242.293     | 343.470     | 380.746     |
| 97.5  | 2.663      | 82.539      | 218.330     | 316.845     | 351.458     |
| 100.0 | 2.663      | 66.564      | 194.367     | 290.219     | 324.832     |
| 102.5 | 2.663      | 55.914      | 175.729     | 263.593     | 298.207     |
| 105.0 | 2.663      | 47.926      | 154.428     | 242.293     | 274.244     |
| 107.5 | 0.000      | 39.938      | 138.453     | 220.992     | 250.281     |
| 110.0 | 0.000      | 31.951      | 122.478     | 199.692     | 228.980     |
| 112.5 | 0.000      | 26.626      | 109.165     | 181.054     | 207.680     |
| 115.0 | 0.000      | 23.963      | 95.852      | 162.416     | 189.042     |
| 117.5 | 0.000      | 18.638      | 82.539      | 146.441     | 170.404     |
| 120.0 | 0.000      | 15.975      | 71.889      | 130.465     | 151.766     |
| 122.5 | 0.000      | 13.313      | 63.901      | 114.490     | 135.791     |
| 125.0 | 0.000      | 10.650      | 55.914      | 103.840     | 122.478     |
| 127.5 | 0.000      | 7.988       | 45.264      | 90.527      | 106.502     |
| 130.0 | 2.663      | 7.988       | 39.938      | 77.214      | 93.190      |
| 132.5 | 0.000      | 5.325       | 31.951      | 66.564      | 79.877      |

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**CANDELA TABULATION - (Cont.)**

|              |       |       |        |        |        |
|--------------|-------|-------|--------|--------|--------|
| <b>135.0</b> | 2.663 | 5.325 | 29.288 | 55.914 | 69.227 |
| <b>137.5</b> | 2.663 | 2.663 | 23.963 | 47.926 | 58.576 |
| <b>140.0</b> | 2.663 | 2.663 | 18.638 | 39.938 | 50.589 |
| <b>142.5</b> | 0.000 | 2.663 | 15.975 | 34.613 | 39.938 |
| <b>145.0</b> | 2.663 | 2.663 | 13.313 | 26.626 | 34.613 |
| <b>147.5</b> | 2.663 | 2.663 | 7.988  | 21.300 | 26.626 |
| <b>150.0</b> | 2.663 | 2.663 | 7.988  | 15.975 | 21.300 |
| <b>152.5</b> | 2.663 | 2.663 | 5.325  | 13.313 | 15.975 |
| <b>155.0</b> | 2.663 | 2.663 | 2.663  | 7.988  | 10.650 |
| <b>157.5</b> | 2.663 | 2.663 | 2.663  | 5.325  | 7.988  |
| <b>160.0</b> | 2.663 | 2.663 | 2.663  | 2.663  | 5.325  |
| <b>162.5</b> | 2.663 | 2.663 | 2.663  | 2.663  | 2.663  |
| <b>165.0</b> | 0.000 | 2.663 | 0.000  | 0.000  | 0.000  |
| <b>167.5</b> | 2.663 | 2.663 | 0.000  | 0.000  | 0.000  |
| <b>170.0</b> | 2.663 | 2.663 | 0.000  | 0.000  | 0.000  |
| <b>172.5</b> | 2.663 | 0.000 | 0.000  | 0.000  | 0.000  |
| <b>175.0</b> | 2.663 | 2.663 | 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    | 488.49  | N.A.  | 9.10   |
| 0-30    | 1055.13 | N.A.  | 19.70  |
| 0-40    | 1761.67 | N.A.  | 32.90  |
| 0-60    | 3266.32 | N.A.  | 61.10  |
| 0-80    | 4413.08 | N.A.  | 82.50  |
| 0-90    | 4769.18 | N.A.  | 89.20  |
| 10-90   | 4644.55 | N.A.  | 86.80  |
| 20-40   | 1273.17 | N.A.  | 23.80  |
| 20-50   | 2037.84 | N.A.  | 38.10  |
| 40-70   | 2149.17 | N.A.  | 40.20  |
| 60-80   | 1146.76 | N.A.  | 21.40  |
| 70-80   | 502.24  | N.A.  | 9.40   |
| 80-90   | 356.10  | N.A.  | 6.70   |
| 90-110  | 395.61  | N.A.  | 7.40   |
| 90-120  | 489.67  | N.A.  | 9.20   |
| 90-130  | 541.62  | N.A.  | 10.10  |
| 90-150  | 576.07  | N.A.  | 10.80  |
| 90-180  | 579.37  | N.A.  | 10.80  |
| 110-180 | 183.76  | N.A.  | 3.40   |
| 0-180   | 5348.55 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 124.63 |
| 10-20   | 363.87 |
| 20-30   | 566.64 |
| 30-40   | 706.53 |
| 40-50   | 764.66 |
| 50-60   | 739.99 |
| 60-70   | 644.52 |
| 70-80   | 502.24 |
| 80-90   | 356.10 |
| 90-100  | 240.32 |
| 100-110 | 155.29 |
| 110-120 | 94.06  |
| 120-130 | 51.96  |
| 130-140 | 24.70  |
| 140-150 | 9.75   |
| 150-160 | 2.75   |
| 160-170 | 0.48   |
| 170-180 | 0.06   |

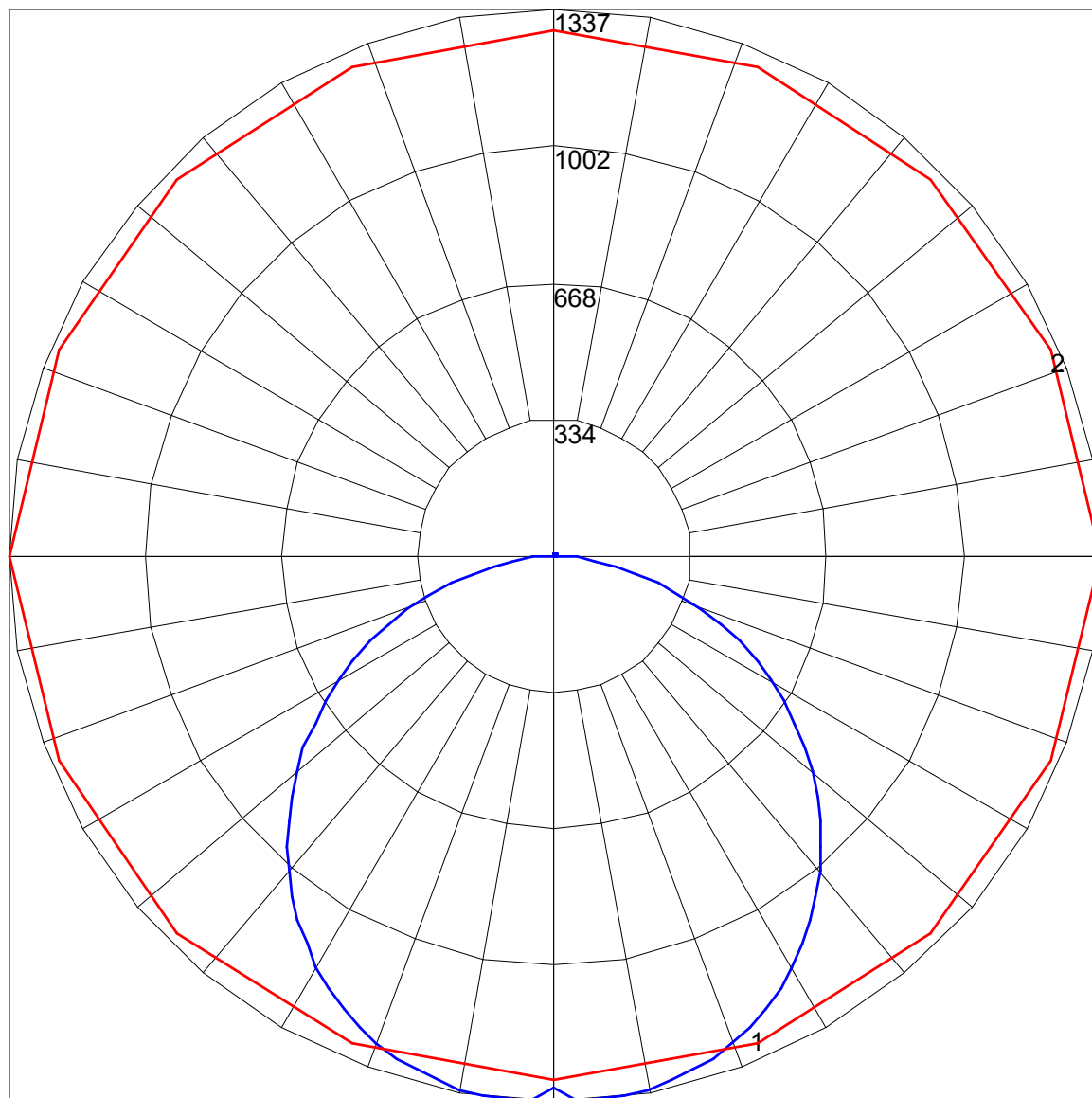
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1336.605 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.)