

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P274949

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (5700K)**

Issue Date: 10/15/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P274949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/15/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (5700K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4810.5 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Direct

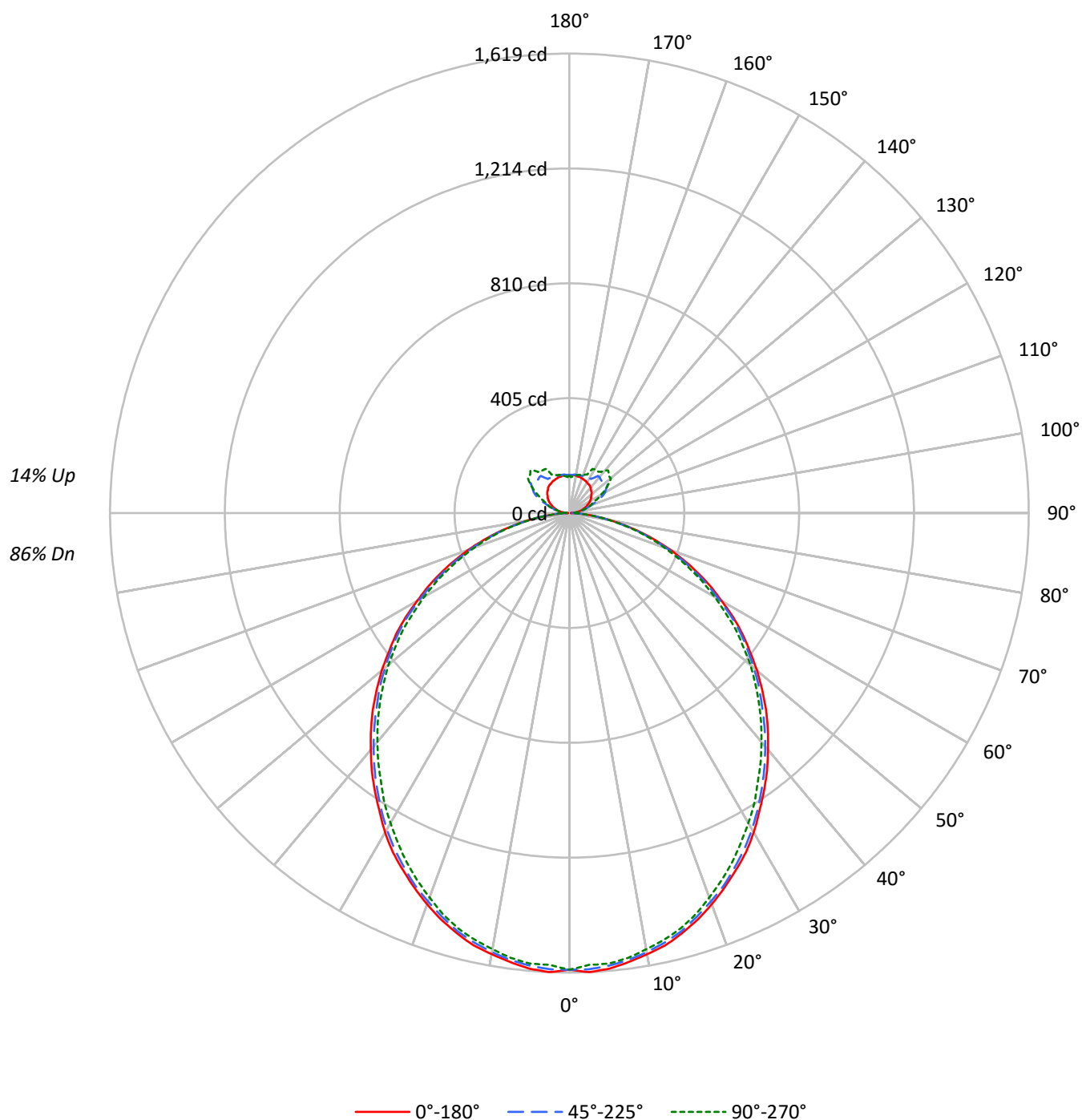
Input Watts (W): 52.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |  |     |     |     |     |  |     |     |     |  |    |    |    |  |    |    |    |    |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|----|----|----|--|----|----|----|----|
| RF  | 20  |     |     |     |  | 20  |     |     |     |  | 20  |     |     |  |    | 20 |    |  |    |    |    | 20 |
| RC  | 80  |     |     |     |  | 70  |     |     |     |  | 50  |     |     |  |    | 30 |    |  |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50 | 30 | 10 |  | 50 | 30 | 10 |    |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |    |    |    |  |    |    |    |    |
| 0   | 116 | 116 | 116 | 116 |  | 112 | 112 | 112 | 112 |  | 104 | 104 | 104 |  | 96 | 96 | 96 |  | 90 | 90 | 90 |    |
| 1   | 106 | 101 | 97  | 94  |  | 102 | 98  | 94  | 91  |  | 91  | 88  | 85  |  | 85 | 83 | 80 |  | 79 | 77 | 76 |    |
| 2   | 97  | 89  | 82  | 77  |  | 93  | 86  | 80  | 75  |  | 80  | 75  | 71  |  | 75 | 71 | 67 |  | 70 | 67 | 64 |    |
| 3   | 88  | 78  | 70  | 64  |  | 85  | 75  | 68  | 62  |  | 71  | 65  | 60  |  | 66 | 61 | 57 |  | 62 | 58 | 54 |    |
| 4   | 81  | 69  | 61  | 54  |  | 77  | 67  | 59  | 53  |  | 63  | 56  | 51  |  | 59 | 53 | 49 |  | 55 | 51 | 47 |    |
| 5   | 74  | 62  | 53  | 47  |  | 71  | 60  | 52  | 46  |  | 56  | 49  | 44  |  | 53 | 47 | 42 |  | 50 | 45 | 41 |    |
| 6   | 69  | 56  | 47  | 41  |  | 66  | 54  | 46  | 40  |  | 51  | 44  | 39  |  | 48 | 42 | 37 |  | 45 | 40 | 36 |    |
| 7   | 64  | 51  | 42  | 36  |  | 61  | 49  | 41  | 36  |  | 46  | 39  | 34  |  | 44 | 38 | 33 |  | 41 | 36 | 32 |    |
| 8   | 59  | 46  | 38  | 32  |  | 57  | 45  | 37  | 32  |  | 42  | 36  | 31  |  | 40 | 34 | 30 |  | 38 | 33 | 29 |    |
| 9   | 55  | 42  | 34  | 29  |  | 53  | 41  | 34  | 29  |  | 39  | 32  | 28  |  | 37 | 31 | 27 |  | 35 | 30 | 26 |    |
| 10  | 52  | 39  | 31  | 26  |  | 50  | 38  | 31  | 26  |  | 36  | 30  | 25  |  | 34 | 29 | 24 |  | 33 | 27 | 24 |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12987 | 12987 | 12987 |
| 5°  | 13058 | 12975 | 12913 |
| 10° | 12938 | 12876 | 12792 |
| 15° | 12809 | 12746 | 12660 |
| 20° | 12600 | 12513 | 12382 |
| 25° | 12364 | 12273 | 12092 |
| 30° | 12111 | 11993 | 11756 |
| 35° | 11778 | 11653 | 11404 |
| 40° | 11472 | 11311 | 11097 |
| 45° | 11182 | 10950 | 10776 |
| 50° | 10835 | 10644 | 10453 |
| 55° | 10500 | 10358 | 10072 |
| 60° | 9996  | 9833  | 9545  |
| 65° | 9549  | 9307  | 9016  |
| 70° | 8925  | 8684  | 8384  |
| 75° | 8072  | 7913  | 7676  |
| 80° | 6843  | 6722  | 6606  |
| 85° | 5169  | 5409  | 5169  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.5  | 3.2       |
| 10°-20°   | 428.2  | 8.9       |
| 20°-30°   | 631.5  | 13.1      |
| 30°-40°   | 736.0  | 15.3      |
| 40°-50°   | 740.0  | 15.4      |
| 50°-60°   | 651.7  | 13.5      |
| 60°-70°   | 481.1  | 10.0      |
| 70°-80°   | 266.5  | 5.5       |
| 80°-90°   | 69.4   | 1.4       |
| 90°-100°  | 24.6   | 0.5       |
| 100°-110° | 63.6   | 1.3       |
| 110°-120° | 103.3  | 2.1       |
| 120°-130° | 129.0  | 2.7       |
| 130°-140° | 121.2  | 2.5       |
| 140°-150° | 95.5   | 2.0       |
| 150°-160° | 65.8   | 1.4       |
| 160°-170° | 38.8   | 0.8       |
| 170°-180° | 12.8   | 0.3       |
| 0°-30°    | 1211.2 | 25.2      |
| 0°-40°    | 1947.2 | 40.5      |
| 0°-60°    | 3338.9 | 69.4      |
| 0°-90°    | 4155.9 | 86.4      |
| 90°-120°  | 191.5  | 4.0       |
| 90°-150°  | 537.2  | 11.2      |
| 90°-180°  | 655.0  | 13.6      |
| 0°-180°   | 4810.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1609 | 1609  | 1609 | 1609  | 1609 |      |
| 5°   | 1611 | 1594  | 1601 | 1596  | 1594 | 153  |
| 15°  | 1533 | 1517  | 1525 | 1517  | 1515 | 432  |
| 25°  | 1388 | 1375  | 1378 | 1360  | 1358 | 640  |
| 35°  | 1195 | 1185  | 1182 | 1162  | 1157 | 748  |
| 45°  | 979  | 969   | 959  | 946   | 944  | 755  |
| 55°  | 746  | 738   | 736  | 721   | 716  | 665  |
| 65°  | 500  | 495   | 487  | 477   | 472  | 494  |
| 75°  | 259  | 256   | 254  | 246   | 246  | 274  |
| 85°  | 56   | 58    | 58   | 56    | 56   | 65   |
| 90°  | 5    | 10    | 10   | 10    | 10   | 6    |
| 95°  | 18   | 20    | 23   | 23    | 23   | 19   |
| 105° | 48   | 66    | 58   | 63    | 58   | 51   |
| 115° | 71   | 114   | 117  | 102   | 99   | 71   |
| 125° | 94   | 129   | 160  | 165   | 162  | 83   |
| 135° | 109  | 122   | 160  | 198   | 195  | 84   |
| 145° | 122  | 127   | 152  | 175   | 178  | 76   |
| 155° | 127  | 132   | 140  | 150   | 150  | 59   |
| 165° | 132  | 132   | 140  | 142   | 140  | 37   |
| 175° | 134  | 134   | 134  | 134   | 129  | 13   |
| 180° | 132  | 132   | 132  | 132   | 132  |      |



TEST NUMBER: P274949

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1608.7 | 1608.7 | 1608.7 | 1608.7 | 1608.7 |
| 2.5°   | 1618.9 | 1601.1 | 1608.7 | 1603.7 | 1593.5 |
| 5°     | 1611.3 | 1593.5 | 1601.1 | 1596.0 | 1593.5 |
| 7.5°   | 1596.0 | 1580.8 | 1588.4 | 1583.4 | 1580.8 |
| 10°    | 1578.3 | 1563.1 | 1570.7 | 1563.1 | 1560.5 |
| 12.5°  | 1560.5 | 1542.8 | 1550.4 | 1540.2 | 1540.2 |
| 15°    | 1532.6 | 1517.4 | 1525.0 | 1517.4 | 1514.8 |
| 17.5°  | 1502.2 | 1486.9 | 1492.0 | 1484.4 | 1481.9 |
| 20°    | 1466.6 | 1451.4 | 1456.5 | 1446.3 | 1441.3 |
| 22.5°  | 1428.6 | 1415.9 | 1421.0 | 1403.2 | 1400.7 |
| 25°    | 1388.0 | 1375.3 | 1377.8 | 1360.1 | 1357.5 |
| 27.5°  | 1347.4 | 1329.6 | 1334.7 | 1314.4 | 1309.3 |
| 30°    | 1299.2 | 1283.9 | 1286.5 | 1266.2 | 1261.1 |
| 32.5°  | 1245.9 | 1235.7 | 1235.7 | 1215.4 | 1212.9 |
| 35°    | 1195.1 | 1185.0 | 1182.4 | 1162.1 | 1157.1 |
| 37.5°  | 1144.4 | 1131.7 | 1129.2 | 1106.3 | 1106.3 |
| 40°    | 1088.6 | 1078.4 | 1073.3 | 1055.6 | 1053.0 |
| 42.5°  | 1035.3 | 1022.6 | 1017.5 | 999.7  | 999.7  |
| 45°    | 979.4  | 969.3  | 959.1  | 946.5  | 943.9  |
| 47.5°  | 921.1  | 910.9  | 905.9  | 890.6  | 888.1  |
| 50°    | 862.7  | 855.1  | 847.5  | 834.8  | 832.3  |
| 52.5°  | 801.8  | 796.8  | 791.7  | 779.0  | 771.4  |
| 55°    | 746.0  | 738.4  | 735.9  | 720.6  | 715.6  |
| 57.5°  | 685.1  | 677.5  | 675.0  | 657.2  | 649.6  |
| 60°    | 619.1  | 611.5  | 609.0  | 593.8  | 591.2  |
| 62.5°  | 560.8  | 553.2  | 548.1  | 537.9  | 532.9  |
| 65°    | 499.9  | 494.8  | 487.2  | 477.0  | 472.0  |
| 67.5°  | 439.0  | 433.9  | 426.3  | 418.7  | 413.6  |
| 70°    | 378.1  | 373.0  | 367.9  | 357.8  | 355.2  |
| 72.5°  | 317.2  | 312.1  | 307.0  | 302.0  | 302.0  |
| 75°    | 258.8  | 256.3  | 253.7  | 246.1  | 246.1  |
| 77.5°  | 200.5  | 197.9  | 195.4  | 192.8  | 192.8  |
| 80°    | 147.2  | 147.2  | 144.6  | 142.1  | 142.1  |
| 82.5°  | 99.0   | 99.0   | 99.0   | 96.4   | 96.4   |
| 85°    | 55.8   | 58.4   | 58.4   | 55.8   | 55.8   |
| 87.5°  | 22.8   | 22.8   | 22.8   | 22.8   | 22.8   |
| 90°    | 5.1    | 10.1   | 10.1   | 10.1   | 10.1   |
| 92.5°  | 10.1   | 12.7   | 15.2   | 17.8   | 15.2   |
| 95°    | 17.8   | 20.3   | 22.8   | 22.8   | 22.8   |
| 97.5°  | 27.9   | 30.4   | 30.4   | 30.4   | 30.4   |
| 100°   | 35.5   | 40.6   | 38.1   | 40.6   | 38.1   |
| 102.5° | 43.1   | 53.3   | 53.3   | 48.2   | 48.2   |
| 105°   | 48.2   | 66.0   | 58.4   | 63.4   | 58.4   |
| 107.5° | 53.3   | 81.2   | 68.5   | 71.0   | 73.6   |
| 110°   | 60.9   | 91.3   | 83.7   | 76.1   | 78.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 66.0  | 111.6 | 99.0  | 88.8  | 86.3  |
| 115°   | 71.0  | 114.2 | 116.7 | 101.5 | 99.0  |
| 117.5° | 78.7  | 114.2 | 131.9 | 119.3 | 114.2 |
| 120°   | 83.7  | 121.8 | 144.6 | 134.5 | 129.4 |
| 122.5° | 88.8  | 126.9 | 152.2 | 152.2 | 147.2 |
| 125°   | 93.9  | 129.4 | 159.9 | 164.9 | 162.4 |
| 127.5° | 96.4  | 121.8 | 172.5 | 180.2 | 177.6 |
| 130°   | 101.5 | 116.7 | 170.0 | 182.7 | 190.3 |
| 132.5° | 106.6 | 119.3 | 164.9 | 185.2 | 190.3 |
| 135°   | 109.1 | 121.8 | 159.9 | 197.9 | 195.4 |
| 137.5° | 111.6 | 124.3 | 162.4 | 190.3 | 203.0 |
| 140°   | 116.7 | 124.3 | 164.9 | 180.2 | 195.4 |
| 142.5° | 119.3 | 126.9 | 164.9 | 172.5 | 182.7 |
| 145°   | 121.8 | 126.9 | 152.2 | 175.1 | 177.6 |
| 147.5° | 121.8 | 129.4 | 142.1 | 177.6 | 177.6 |
| 150°   | 124.3 | 129.4 | 142.1 | 177.6 | 177.6 |
| 152.5° | 126.9 | 131.9 | 139.6 | 154.8 | 175.1 |
| 155°   | 126.9 | 131.9 | 139.6 | 149.7 | 149.7 |
| 157.5° | 129.4 | 131.9 | 139.6 | 147.2 | 147.2 |
| 160°   | 129.4 | 131.9 | 139.6 | 144.6 | 142.1 |
| 162.5° | 131.9 | 131.9 | 137.0 | 142.1 | 139.6 |
| 165°   | 131.9 | 131.9 | 139.6 | 142.1 | 139.6 |
| 167.5° | 131.9 | 134.5 | 137.0 | 139.6 | 137.0 |
| 170°   | 134.5 | 134.5 | 137.0 | 137.0 | 134.5 |
| 172.5° | 134.5 | 134.5 | 137.0 | 134.5 | 131.9 |
| 175°   | 134.5 | 134.5 | 134.5 | 134.5 | 129.4 |
| 177.5° | 134.5 | 131.9 | 134.5 | 131.9 | 126.9 |
| 180°   | 131.9 | 131.9 | 131.9 | 131.9 | 131.9 |

(END OF REPORT)