

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: P274915

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J2-WL-40L82765-1D-UNV-W2A-DLED-W-4 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3703.5 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

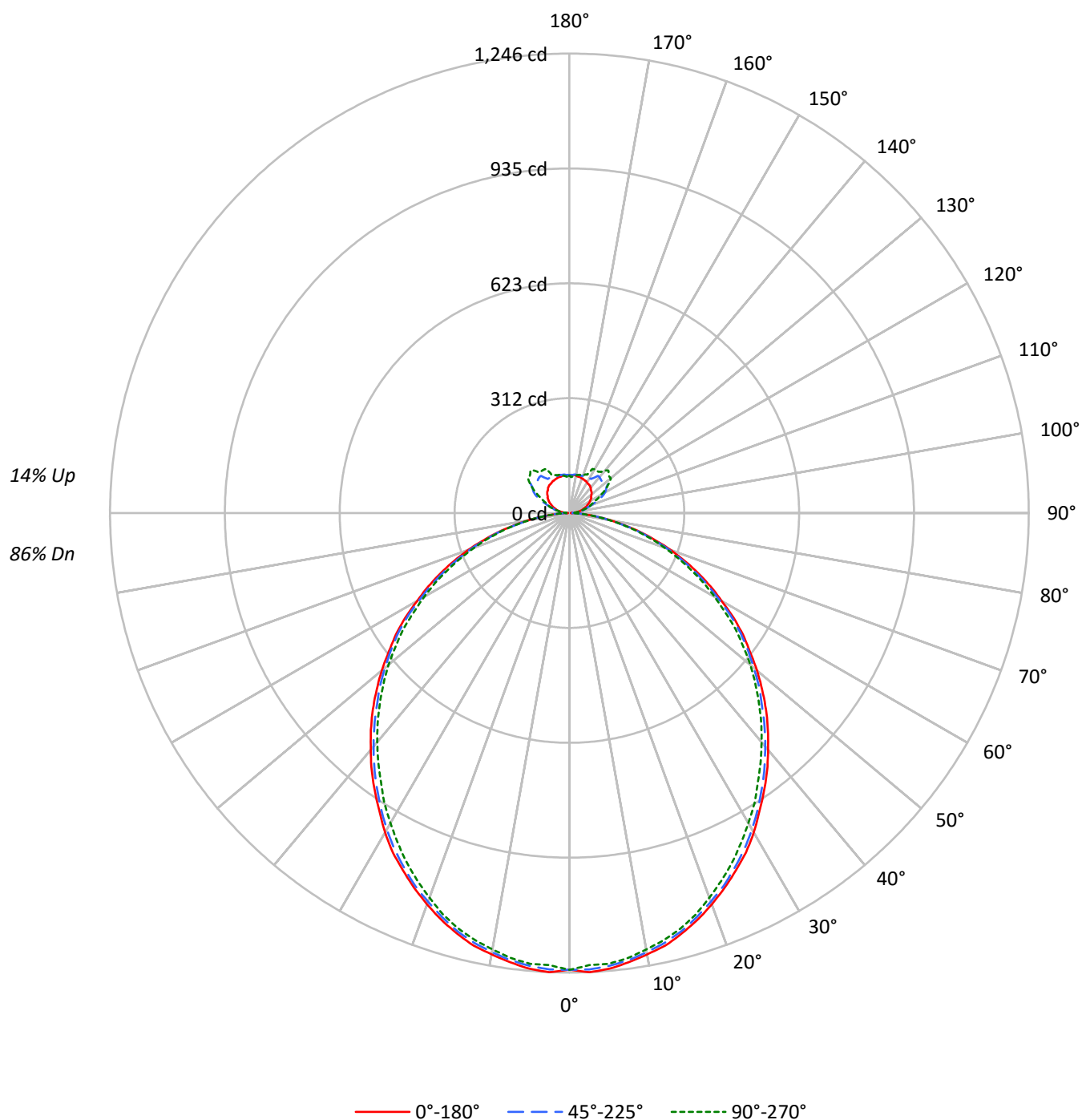
Input Watts (W): 37.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°    | 45°  | 90°  |
|-----|-------|------|------|
| 0°  | 9998  | 9998 | 9998 |
| 5°  | 10053 | 9990 | 9942 |
| 10° | 9961  | 9912 | 9848 |
| 15° | 9861  | 9813 | 9747 |
| 20° | 9700  | 9633 | 9533 |
| 25° | 9519  | 9449 | 9309 |
| 30° | 9324  | 9232 | 9051 |
| 35° | 9068  | 8971 | 8779 |
| 40° | 8832  | 8708 | 8544 |
| 45° | 8609  | 8430 | 8297 |
| 50° | 8342  | 8195 | 8048 |
| 55° | 8083  | 7973 | 7754 |
| 60° | 7697  | 7569 | 7350 |
| 65° | 7351  | 7165 | 6942 |
| 70° | 6871  | 6687 | 6456 |
| 75° | 6216  | 6095 | 5911 |
| 80° | 5267  | 5179 | 5086 |
| 85° | 3983  | 4159 | 3983 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.7  | 3.2       |
| 10°-20°   | 329.6  | 8.9       |
| 20°-30°   | 486.2  | 13.1      |
| 30°-40°   | 566.6  | 15.3      |
| 40°-50°   | 569.7  | 15.4      |
| 50°-60°   | 501.7  | 13.5      |
| 60°-70°   | 370.4  | 10.0      |
| 70°-80°   | 205.2  | 5.5       |
| 80°-90°   | 53.4   | 1.4       |
| 90°-100°  | 19.0   | 0.5       |
| 100°-110° | 48.9   | 1.3       |
| 110°-120° | 79.5   | 2.1       |
| 120°-130° | 99.3   | 2.7       |
| 130°-140° | 93.3   | 2.5       |
| 140°-150° | 73.5   | 2.0       |
| 150°-160° | 50.7   | 1.4       |
| 160°-170° | 29.9   | 0.8       |
| 170°-180° | 9.9    | 0.3       |
| 0°-30°    | 932.5  | 25.2      |
| 0°-40°    | 1499.1 | 40.5      |
| 0°-60°    | 2570.6 | 69.4      |
| 0°-90°    | 3199.5 | 86.4      |
| 90°-120°  | 147.4  | 4.0       |
| 90°-150°  | 413.6  | 11.2      |
| 90°-180°  | 504.0  | 13.6      |
| 0°-180°   | 3703.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1238 | 1238  | 1238 | 1238  | 1238 |      |
| 5°   | 1240 | 1227  | 1233 | 1229  | 1227 | 118  |
| 15°  | 1180 | 1168  | 1174 | 1168  | 1166 | 333  |
| 25°  | 1069 | 1059  | 1061 | 1047  | 1045 | 492  |
| 35°  | 920  | 912   | 910  | 895   | 891  | 576  |
| 45°  | 754  | 746   | 738  | 729   | 727  | 581  |
| 55°  | 574  | 568   | 566  | 555   | 551  | 512  |
| 65°  | 385  | 381   | 375  | 367   | 363  | 381  |
| 75°  | 199  | 197   | 195  | 190   | 190  | 211  |
| 85°  | 43   | 45    | 45   | 43    | 43   | 50   |
| 90°  | 4    | 8     | 8    | 8     | 8    | 5    |
| 95°  | 14   | 16    | 18   | 18    | 18   | 14   |
| 105° | 37   | 51    | 45   | 49    | 45   | 39   |
| 115° | 55   | 88    | 90   | 78    | 76   | 55   |
| 125° | 72   | 100   | 123  | 127   | 125  | 64   |
| 135° | 84   | 94    | 123  | 152   | 150  | 65   |
| 145° | 94   | 98    | 117  | 135   | 137  | 58   |
| 155° | 98   | 102   | 107  | 115   | 115  | 45   |
| 165° | 102  | 102   | 107  | 109   | 107  | 29   |
| 175° | 104  | 104   | 104  | 104   | 100  | 10   |
| 180° | 102  | 102   | 102  | 102   | 102  |      |



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CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-DLED-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1238.5 | 1238.5 | 1238.5 | 1238.5 | 1238.5 |
| 2.5°   | 1246.3 | 1232.7 | 1238.5 | 1234.6 | 1226.8 |
| 5°     | 1240.5 | 1226.8 | 1232.7 | 1228.8 | 1226.8 |
| 7.5°   | 1228.8 | 1217.0 | 1222.9 | 1219.0 | 1217.0 |
| 10°    | 1215.1 | 1203.4 | 1209.2 | 1203.4 | 1201.4 |
| 12.5°  | 1201.4 | 1187.7 | 1193.6 | 1185.8 | 1185.8 |
| 15°    | 1179.9 | 1168.2 | 1174.1 | 1168.2 | 1166.2 |
| 17.5°  | 1156.5 | 1144.8 | 1148.7 | 1142.8 | 1140.9 |
| 20°    | 1129.1 | 1117.4 | 1121.3 | 1113.5 | 1109.6 |
| 22.5°  | 1099.8 | 1090.1 | 1094.0 | 1080.3 | 1078.3 |
| 25°    | 1068.6 | 1058.8 | 1060.8 | 1047.1 | 1045.1 |
| 27.5°  | 1037.3 | 1023.6 | 1027.5 | 1011.9 | 1008.0 |
| 30°    | 1000.2 | 988.5  | 990.4  | 974.8  | 970.9  |
| 32.5°  | 959.2  | 951.4  | 951.4  | 935.7  | 933.8  |
| 35°    | 920.1  | 912.3  | 910.3  | 894.7  | 890.8  |
| 37.5°  | 881.0  | 871.3  | 869.3  | 851.7  | 851.7  |
| 40°    | 838.1  | 830.2  | 826.3  | 812.7  | 810.7  |
| 42.5°  | 797.0  | 787.3  | 783.4  | 769.7  | 769.7  |
| 45°    | 754.1  | 746.2  | 738.4  | 728.7  | 726.7  |
| 47.5°  | 709.1  | 701.3  | 697.4  | 685.7  | 683.7  |
| 50°    | 664.2  | 658.3  | 652.5  | 642.7  | 640.8  |
| 52.5°  | 617.3  | 613.4  | 609.5  | 599.7  | 593.9  |
| 55°    | 574.3  | 568.5  | 566.5  | 554.8  | 550.9  |
| 57.5°  | 527.4  | 521.6  | 519.6  | 506.0  | 500.1  |
| 60°    | 476.7  | 470.8  | 468.8  | 457.1  | 455.2  |
| 62.5°  | 431.7  | 425.9  | 422.0  | 414.1  | 410.2  |
| 65°    | 384.8  | 380.9  | 375.1  | 367.3  | 363.4  |
| 67.5°  | 338.0  | 334.1  | 328.2  | 322.3  | 318.4  |
| 70°    | 291.1  | 287.2  | 283.3  | 275.4  | 273.5  |
| 72.5°  | 244.2  | 240.3  | 236.4  | 232.5  | 232.5  |
| 75°    | 199.3  | 197.3  | 195.4  | 189.5  | 189.5  |
| 77.5°  | 154.3  | 152.4  | 150.4  | 148.5  | 148.5  |
| 80°    | 113.3  | 113.3  | 111.4  | 109.4  | 109.4  |
| 82.5°  | 76.2   | 76.2   | 76.2   | 74.2   | 74.2   |
| 85°    | 43.0   | 44.9   | 44.9   | 43.0   | 43.0   |
| 87.5°  | 17.6   | 17.6   | 17.6   | 17.6   | 17.6   |
| 90°    | 3.9    | 7.8    | 7.8    | 7.8    | 7.8    |
| 92.5°  | 7.8    | 9.8    | 11.7   | 13.7   | 11.7   |
| 95°    | 13.7   | 15.6   | 17.6   | 17.6   | 17.6   |
| 97.5°  | 21.5   | 23.4   | 23.4   | 23.4   | 23.4   |
| 100°   | 27.3   | 31.3   | 29.3   | 31.3   | 29.3   |
| 102.5° | 33.2   | 41.0   | 41.0   | 37.1   | 37.1   |
| 105°   | 37.1   | 50.8   | 44.9   | 48.8   | 44.9   |
| 107.5° | 41.0   | 62.5   | 52.7   | 54.7   | 56.7   |
| 110°   | 46.9   | 70.3   | 64.5   | 58.6   | 60.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 50.8  | 86.0  | 76.2  | 68.4  | 66.4  |
| 115°   | 54.7  | 87.9  | 89.9  | 78.1  | 76.2  |
| 117.5° | 60.6  | 87.9  | 101.6 | 91.8  | 87.9  |
| 120°   | 64.5  | 93.8  | 111.4 | 103.5 | 99.6  |
| 122.5° | 68.4  | 97.7  | 117.2 | 117.2 | 113.3 |
| 125°   | 72.3  | 99.6  | 123.1 | 127.0 | 125.0 |
| 127.5° | 74.2  | 93.8  | 132.8 | 138.7 | 136.7 |
| 130°   | 78.1  | 89.9  | 130.9 | 140.7 | 146.5 |
| 132.5° | 82.0  | 91.8  | 127.0 | 142.6 | 146.5 |
| 135°   | 84.0  | 93.8  | 123.1 | 152.4 | 150.4 |
| 137.5° | 86.0  | 95.7  | 125.0 | 146.5 | 156.3 |
| 140°   | 89.9  | 95.7  | 127.0 | 138.7 | 150.4 |
| 142.5° | 91.8  | 97.7  | 127.0 | 132.8 | 140.7 |
| 145°   | 93.8  | 97.7  | 117.2 | 134.8 | 136.7 |
| 147.5° | 93.8  | 99.6  | 109.4 | 136.7 | 136.7 |
| 150°   | 95.7  | 99.6  | 109.4 | 136.7 | 136.7 |
| 152.5° | 97.7  | 101.6 | 107.4 | 119.2 | 134.8 |
| 155°   | 97.7  | 101.6 | 107.4 | 115.3 | 115.3 |
| 157.5° | 99.6  | 101.6 | 107.4 | 113.3 | 113.3 |
| 160°   | 99.6  | 101.6 | 107.4 | 111.4 | 109.4 |
| 162.5° | 101.6 | 101.6 | 105.5 | 109.4 | 107.4 |
| 165°   | 101.6 | 101.6 | 107.4 | 109.4 | 107.4 |
| 167.5° | 101.6 | 103.5 | 105.5 | 107.4 | 105.5 |
| 170°   | 103.5 | 103.5 | 105.5 | 105.5 | 103.5 |
| 172.5° | 103.5 | 103.5 | 105.5 | 103.5 | 101.6 |
| 175°   | 103.5 | 103.5 | 103.5 | 103.5 | 99.6  |
| 177.5° | 103.5 | 101.6 | 103.5 | 101.6 | 97.7  |
| 180°   | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 |

(END OF REPORT)