

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: P253395

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253395  
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-50L93050-1D-UNV-W2A-DLED-W-4 (4000K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4236.3 lumens  
Efficiency: N/A  
Efficacy: 81.5 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

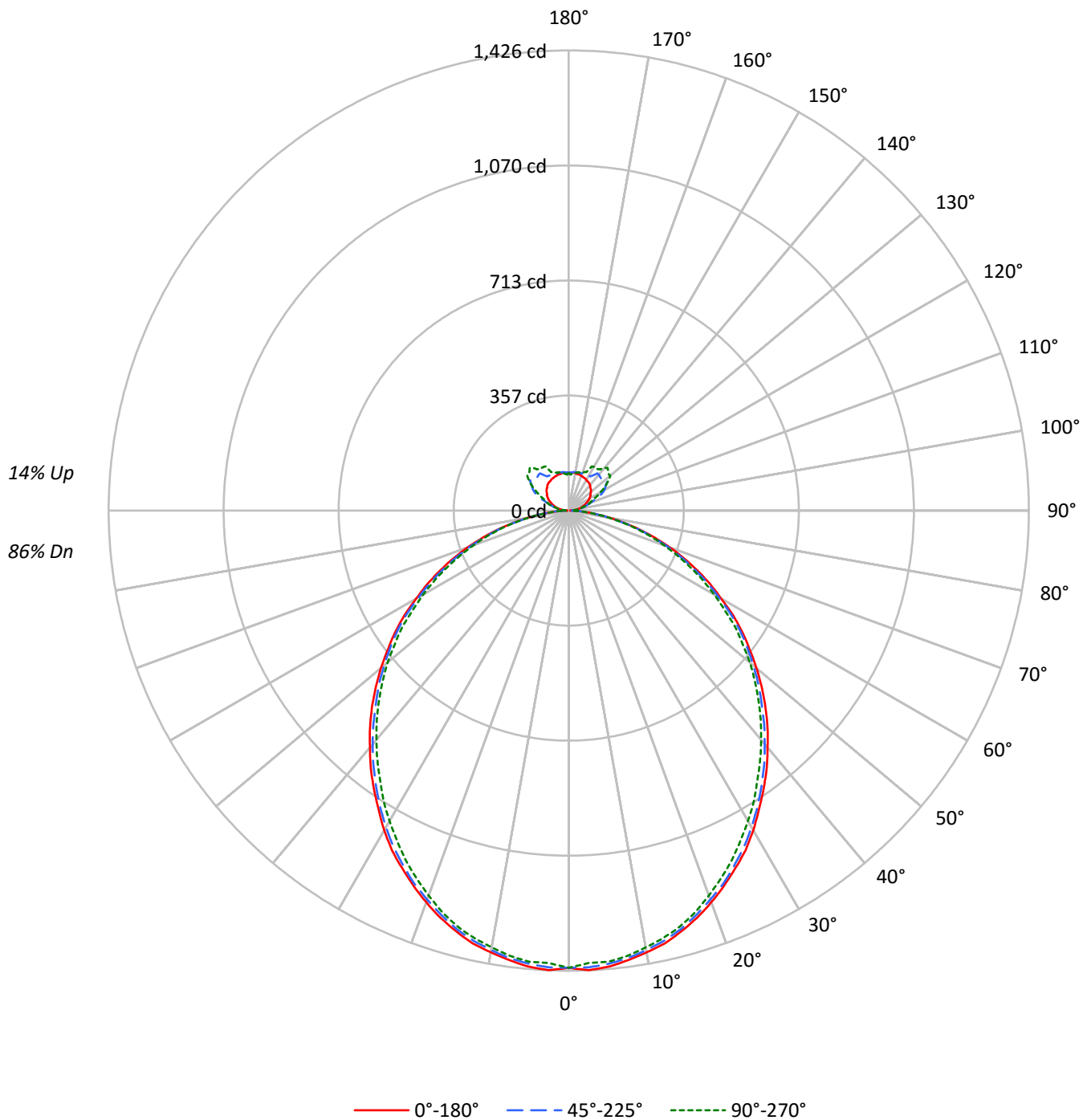
Input Watts (W): 52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |    |  |  | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |  |  |    |
| RCR |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |  |  |    |
| 0   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 96 | 96 | 96 | 90 | 90 | 90 | 86 |  |  |    |
| 1   | 106 | 101 | 97  | 94  | 102 | 98  | 94  | 91  | 91  | 88  | 85  | 85 | 83 | 80 | 79 | 77 | 76 | 73 |  |  |    |
| 2   | 97  | 89  | 82  | 77  | 93  | 86  | 80  | 75  | 80  | 75  | 71  | 75 | 71 | 67 | 70 | 67 | 64 | 61 |  |  |    |
| 3   | 88  | 78  | 70  | 64  | 85  | 75  | 68  | 62  | 71  | 65  | 60  | 66 | 61 | 57 | 62 | 58 | 54 | 52 |  |  |    |
| 4   | 81  | 69  | 61  | 54  | 77  | 67  | 59  | 53  | 63  | 56  | 51  | 59 | 53 | 49 | 55 | 51 | 47 | 44 |  |  |    |
| 5   | 74  | 62  | 53  | 47  | 71  | 60  | 52  | 46  | 56  | 49  | 44  | 53 | 47 | 42 | 50 | 45 | 41 | 38 |  |  |    |
| 6   | 69  | 56  | 47  | 41  | 66  | 54  | 46  | 40  | 51  | 44  | 39  | 48 | 42 | 37 | 45 | 40 | 36 | 34 |  |  |    |
| 7   | 64  | 51  | 42  | 36  | 61  | 49  | 41  | 36  | 46  | 39  | 34  | 44 | 38 | 33 | 41 | 36 | 32 | 30 |  |  |    |
| 8   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 42  | 36  | 31  | 40 | 34 | 30 | 38 | 33 | 29 | 27 |  |  |    |
| 9   | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 39  | 32  | 28  | 37 | 31 | 27 | 35 | 30 | 26 | 24 |  |  |    |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 31  | 26  | 36  | 30  | 25  | 34 | 29 | 24 | 33 | 27 | 24 | 22 |  |  |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11437 | 11437 | 11437 |
| 5°  | 11499 | 11426 | 11372 |
| 10° | 11394 | 11339 | 11266 |
| 15° | 11280 | 11224 | 11149 |
| 20° | 11096 | 11019 | 10904 |
| 25° | 10888 | 10808 | 10649 |
| 30° | 10665 | 10561 | 10353 |
| 35° | 10373 | 10262 | 10042 |
| 40° | 10102 | 9961  | 9772  |
| 45° | 9847  | 9644  | 9491  |
| 50° | 9543  | 9373  | 9205  |
| 55° | 9247  | 9120  | 8868  |
| 60° | 8803  | 8659  | 8407  |
| 65° | 8409  | 8195  | 7939  |
| 70° | 7860  | 7648  | 7383  |
| 75° | 7109  | 6971  | 6762  |
| 80° | 6025  | 5923  | 5816  |
| 85° | 4557  | 4761  | 4557  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.5  | 3.2       |
| 10°-20°   | 377.1  | 8.9       |
| 20°-30°   | 556.1  | 13.1      |
| 30°-40°   | 648.2  | 15.3      |
| 40°-50°   | 651.7  | 15.4      |
| 50°-60°   | 573.9  | 13.5      |
| 60°-70°   | 423.6  | 10.0      |
| 70°-80°   | 234.7  | 5.5       |
| 80°-90°   | 61.1   | 1.4       |
| 90°-100°  | 21.7   | 0.5       |
| 100°-110° | 56.0   | 1.3       |
| 110°-120° | 90.9   | 2.1       |
| 120°-130° | 113.6  | 2.7       |
| 130°-140° | 106.7  | 2.5       |
| 140°-150° | 84.1   | 2.0       |
| 150°-160° | 58.0   | 1.4       |
| 160°-170° | 34.2   | 0.8       |
| 170°-180° | 11.3   | 0.3       |
| 0°-30°    | 1066.6 | 25.2      |
| 0°-40°    | 1714.8 | 40.5      |
| 0°-60°    | 2940.4 | 69.4      |
| 0°-90°    | 3659.8 | 86.4      |
| 90°-120°  | 168.6  | 4.0       |
| 90°-150°  | 473.1  | 11.2      |
| 90°-180°  | 577.0  | 13.6      |
| 0°-180°   | 4236.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1417 | 1417  | 1417 | 1417  | 1417 |      |
| 5°   | 1419 | 1403  | 1410 | 1406  | 1403 | 134  |
| 15°  | 1350 | 1336  | 1343 | 1336  | 1334 | 380  |
| 25°  | 1222 | 1211  | 1213 | 1198  | 1196 | 563  |
| 35°  | 1052 | 1044  | 1041 | 1023  | 1019 | 659  |
| 45°  | 862  | 854   | 845  | 834   | 831  | 665  |
| 55°  | 657  | 650   | 648  | 635   | 630  | 586  |
| 65°  | 440  | 436   | 429  | 420   | 416  | 435  |
| 75°  | 228  | 226   | 224  | 217   | 217  | 241  |
| 85°  | 49   | 51    | 51   | 49    | 49   | 57   |
| 90°  | 4    | 9     | 9    | 9     | 9    | 5    |
| 95°  | 16   | 18    | 20   | 20    | 20   | 16   |
| 105° | 42   | 58    | 51   | 56    | 51   | 45   |
| 115° | 63   | 101   | 103  | 89    | 87   | 63   |
| 125° | 83   | 114   | 141  | 145   | 143  | 73   |
| 135° | 96   | 107   | 141  | 174   | 172  | 74   |
| 145° | 107  | 112   | 134  | 154   | 156  | 67   |
| 155° | 112  | 116   | 123  | 132   | 132  | 52   |
| 165° | 116  | 116   | 123  | 125   | 123  | 33   |
| 175° | 118  | 118   | 118  | 118   | 114  | 11   |
| 180° | 116  | 116   | 116  | 116   | 116  |      |



TEST NUMBER: P253395

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1416.7 | 1416.7 | 1416.7 | 1416.7 | 1416.7 |
| 2.5°   | 1425.7 | 1410.0 | 1416.7 | 1412.2 | 1403.3 |
| 5°     | 1419.0 | 1403.3 | 1410.0 | 1405.5 | 1403.3 |
| 7.5°   | 1405.5 | 1392.1 | 1398.8 | 1394.4 | 1392.1 |
| 10°    | 1389.9 | 1376.5 | 1383.2 | 1376.5 | 1374.3 |
| 12.5°  | 1374.3 | 1358.6 | 1365.3 | 1356.4 | 1356.4 |
| 15°    | 1349.7 | 1336.3 | 1343.0 | 1336.3 | 1334.0 |
| 17.5°  | 1322.9 | 1309.5 | 1313.9 | 1307.2 | 1305.0 |
| 20°    | 1291.6 | 1278.2 | 1282.6 | 1273.7 | 1269.2 |
| 22.5°  | 1258.1 | 1246.9 | 1251.4 | 1235.7 | 1233.5 |
| 25°    | 1222.3 | 1211.1 | 1213.4 | 1197.7 | 1195.5 |
| 27.5°  | 1186.6 | 1170.9 | 1175.4 | 1157.5 | 1153.0 |
| 30°    | 1144.1 | 1130.7 | 1132.9 | 1115.1 | 1110.6 |
| 32.5°  | 1097.2 | 1088.2 | 1088.2 | 1070.4 | 1068.1 |
| 35°    | 1052.5 | 1043.5 | 1041.3 | 1023.4 | 1019.0 |
| 37.5°  | 1007.8 | 996.6  | 994.4  | 974.3  | 974.3  |
| 40°    | 958.6  | 949.7  | 945.2  | 929.6  | 927.3  |
| 42.5°  | 911.7  | 900.5  | 896.1  | 880.4  | 880.4  |
| 45°    | 862.5  | 853.6  | 844.7  | 833.5  | 831.3  |
| 47.5°  | 811.1  | 802.2  | 797.7  | 784.3  | 782.1  |
| 50°    | 759.8  | 753.1  | 746.3  | 735.2  | 732.9  |
| 52.5°  | 706.1  | 701.7  | 697.2  | 686.0  | 679.3  |
| 55°    | 657.0  | 650.3  | 648.0  | 634.6  | 630.1  |
| 57.5°  | 603.3  | 596.6  | 594.4  | 578.8  | 572.1  |
| 60°    | 545.2  | 538.5  | 536.3  | 522.9  | 520.7  |
| 62.5°  | 493.8  | 487.1  | 482.7  | 473.7  | 469.3  |
| 65°    | 440.2  | 435.7  | 429.0  | 420.1  | 415.6  |
| 67.5°  | 386.6  | 382.1  | 375.4  | 368.7  | 364.2  |
| 70°    | 333.0  | 328.5  | 324.0  | 315.1  | 312.8  |
| 72.5°  | 279.3  | 274.9  | 270.4  | 265.9  | 265.9  |
| 75°    | 227.9  | 225.7  | 223.5  | 216.8  | 216.8  |
| 77.5°  | 176.5  | 174.3  | 172.1  | 169.8  | 169.8  |
| 80°    | 129.6  | 129.6  | 127.4  | 125.1  | 125.1  |
| 82.5°  | 87.1   | 87.1   | 87.1   | 84.9   | 84.9   |
| 85°    | 49.2   | 51.4   | 51.4   | 49.2   | 49.2   |
| 87.5°  | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   |
| 90°    | 4.5    | 8.9    | 8.9    | 8.9    | 8.9    |
| 92.5°  | 8.9    | 11.2   | 13.4   | 15.6   | 13.4   |
| 95°    | 15.6   | 17.9   | 20.1   | 20.1   | 20.1   |
| 97.5°  | 24.6   | 26.8   | 26.8   | 26.8   | 26.8   |
| 100°   | 31.3   | 35.8   | 33.5   | 35.8   | 33.5   |
| 102.5° | 38.0   | 46.9   | 46.9   | 42.5   | 42.5   |
| 105°   | 42.5   | 58.1   | 51.4   | 55.9   | 51.4   |
| 107.5° | 46.9   | 71.5   | 60.3   | 62.6   | 64.8   |
| 110°   | 53.6   | 80.4   | 73.7   | 67.0   | 69.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 58.1  | 98.3  | 87.1  | 78.2  | 76.0  |
| 115°   | 62.6  | 100.6 | 102.8 | 89.4  | 87.1  |
| 117.5° | 69.3  | 100.6 | 116.2 | 105.0 | 100.6 |
| 120°   | 73.7  | 107.3 | 127.4 | 118.4 | 114.0 |
| 122.5° | 78.2  | 111.7 | 134.1 | 134.1 | 129.6 |
| 125°   | 82.7  | 114.0 | 140.8 | 145.2 | 143.0 |
| 127.5° | 84.9  | 107.3 | 152.0 | 158.7 | 156.4 |
| 130°   | 89.4  | 102.8 | 149.7 | 160.9 | 167.6 |
| 132.5° | 93.9  | 105.0 | 145.2 | 163.1 | 167.6 |
| 135°   | 96.1  | 107.3 | 140.8 | 174.3 | 172.1 |
| 137.5° | 98.3  | 109.5 | 143.0 | 167.6 | 178.8 |
| 140°   | 102.8 | 109.5 | 145.2 | 158.7 | 172.1 |
| 142.5° | 105.0 | 111.7 | 145.2 | 152.0 | 160.9 |
| 145°   | 107.3 | 111.7 | 134.1 | 154.2 | 156.4 |
| 147.5° | 107.3 | 114.0 | 125.1 | 156.4 | 156.4 |
| 150°   | 109.5 | 114.0 | 125.1 | 156.4 | 156.4 |
| 152.5° | 111.7 | 116.2 | 122.9 | 136.3 | 154.2 |
| 155°   | 111.7 | 116.2 | 122.9 | 131.8 | 131.8 |
| 157.5° | 114.0 | 116.2 | 122.9 | 129.6 | 129.6 |
| 160°   | 114.0 | 116.2 | 122.9 | 127.4 | 125.1 |
| 162.5° | 116.2 | 116.2 | 120.7 | 125.1 | 122.9 |
| 165°   | 116.2 | 116.2 | 122.9 | 125.1 | 122.9 |
| 167.5° | 116.2 | 118.4 | 120.7 | 122.9 | 120.7 |
| 170°   | 118.4 | 118.4 | 120.7 | 120.7 | 118.4 |
| 172.5° | 118.4 | 118.4 | 120.7 | 118.4 | 116.2 |
| 175°   | 118.4 | 118.4 | 118.4 | 118.4 | 114.0 |
| 177.5° | 118.4 | 116.2 | 118.4 | 116.2 | 111.7 |
| 180°   | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 |

(END OF REPORT)