

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: P274926

Luminaire Tested: **J2-WL-40L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)  
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-W-4 (6500K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4137.3 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Direct

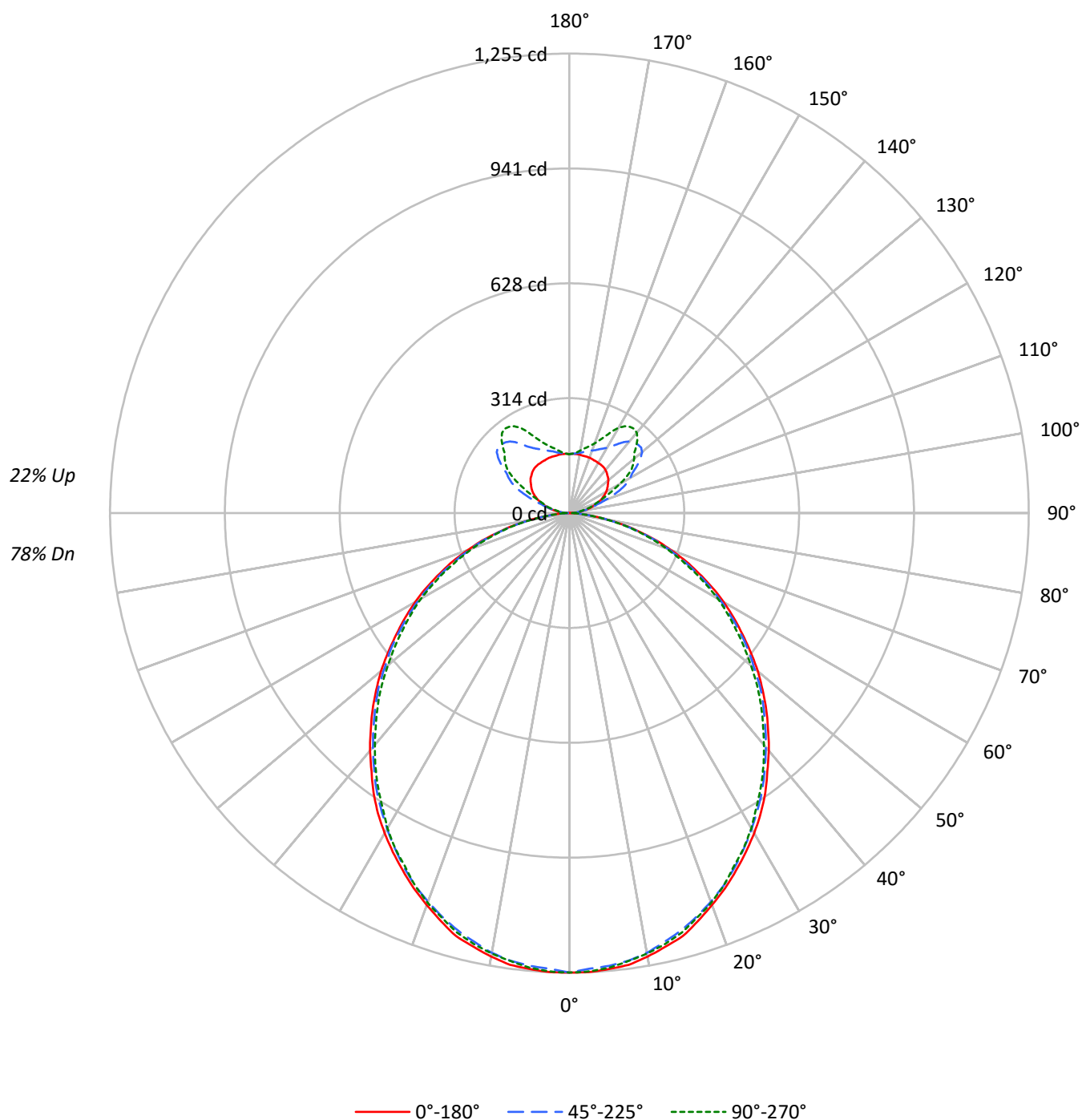
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| RCR |     |     |     |     |     |     |     |     |  |    |    |    |  |    |    |    |  |    |    |    |
| 0   | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 |  | 99 | 99 | 99 |  | 90 | 90 | 90 |  | 82 | 82 | 82 |
| 1   | 104 | 100 | 96  | 92  | 99  | 95  | 92  | 89  |  | 87 | 84 | 82 |  | 80 | 78 | 76 |  | 73 | 71 | 70 |
| 2   | 95  | 87  | 81  | 75  | 90  | 83  | 78  | 73  |  | 76 | 72 | 68 |  | 70 | 66 | 63 |  | 64 | 61 | 59 |
| 3   | 87  | 77  | 69  | 63  | 82  | 73  | 66  | 61  |  | 67 | 62 | 57 |  | 62 | 57 | 53 |  | 57 | 53 | 50 |
| 4   | 79  | 68  | 60  | 53  | 75  | 65  | 58  | 52  |  | 60 | 54 | 49 |  | 55 | 50 | 46 |  | 51 | 47 | 43 |
| 5   | 73  | 61  | 52  | 46  | 69  | 58  | 51  | 45  |  | 54 | 47 | 42 |  | 50 | 44 | 40 |  | 46 | 41 | 38 |
| 6   | 67  | 55  | 46  | 40  | 64  | 53  | 45  | 39  |  | 49 | 42 | 37 |  | 45 | 39 | 35 |  | 42 | 37 | 33 |
| 7   | 62  | 50  | 41  | 35  | 59  | 48  | 40  | 34  |  | 44 | 38 | 33 |  | 41 | 35 | 31 |  | 38 | 33 | 29 |
| 8   | 58  | 45  | 37  | 31  | 55  | 44  | 36  | 31  |  | 40 | 34 | 29 |  | 38 | 32 | 28 |  | 35 | 30 | 26 |
| 9   | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 28  |  | 37 | 31 | 26 |  | 35 | 29 | 25 |  | 32 | 27 | 24 |
| 10  | 51  | 38  | 31  | 25  | 48  | 37  | 30  | 25  |  | 34 | 28 | 24 |  | 32 | 27 | 23 |  | 30 | 25 | 22 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10132 | 10132 | 10132 |
| 5°  | 10128 | 10061 | 10103 |
| 10° | 10083 | 9997  | 10014 |
| 15° | 10000 | 9860  | 9913  |
| 20° | 9786  | 9704  | 9732  |
| 25° | 9597  | 9513  | 9476  |
| 30° | 9410  | 9284  | 9264  |
| 35° | 9197  | 9063  | 8991  |
| 40° | 8931  | 8800  | 8711  |
| 45° | 8686  | 8555  | 8447  |
| 50° | 8439  | 8282  | 8125  |
| 55° | 8118  | 8016  | 7824  |
| 60° | 7863  | 7677  | 7576  |
| 65° | 7465  | 7266  | 7106  |
| 70° | 6956  | 6784  | 6635  |
| 75° | 6195  | 6095  | 6029  |
| 80° | 4956  | 5002  | 4858  |
| 85° | 3196  | 3288  | 3390  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.2  | 2.9       |
| 10°-20°   | 334.4  | 8.1       |
| 20°-30°   | 493.2  | 11.9      |
| 30°-40°   | 576.0  | 13.9      |
| 40°-50°   | 578.5  | 14.0      |
| 50°-60°   | 509.1  | 12.3      |
| 60°-70°   | 378.6  | 9.2       |
| 70°-80°   | 207.5  | 5.0       |
| 80°-90°   | 47.2   | 1.1       |
| 90°-100°  | 23.8   | 0.6       |
| 100°-110° | 75.4   | 1.8       |
| 110°-120° | 142.2  | 3.4       |
| 120°-130° | 178.8  | 4.3       |
| 130°-140° | 176.1  | 4.3       |
| 140°-150° | 141.9  | 3.4       |
| 150°-160° | 90.8   | 2.2       |
| 160°-170° | 49.7   | 1.2       |
| 170°-180° | 15.7   | 0.4       |
| 0°-30°    | 945.8  | 22.9      |
| 0°-40°    | 1521.8 | 36.8      |
| 0°-60°    | 2609.4 | 63.1      |
| 0°-90°    | 3242.8 | 78.4      |
| 90°-120°  | 241.4  | 5.8       |
| 90°-150°  | 738.2  | 17.8      |
| 90°-180°  | 894.0  | 21.6      |
| 0°-180°   | 4137.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1255 | 1255  | 1255 | 1255  | 1255 |      |
| 5°   | 1250 | 1247  | 1242 | 1247  | 1247 | 119  |
| 15°  | 1196 | 1189  | 1180 | 1190  | 1186 | 336  |
| 25°  | 1077 | 1075  | 1068 | 1067  | 1064 | 496  |
| 35°  | 933  | 928   | 920  | 916   | 912  | 583  |
| 45°  | 761  | 759   | 749  | 741   | 740  | 587  |
| 55°  | 577  | 579   | 570  | 561   | 556  | 517  |
| 65°  | 391  | 391   | 380  | 376   | 372  | 388  |
| 75°  | 199  | 199   | 195  | 192   | 193  | 212  |
| 85°  | 34   | 36    | 36   | 38    | 37   | 44   |
| 90°  | 1    | 3     | 4    | 5     | 4    | 3    |
| 95°  | 22   | 21    | 21   | 23    | 23   | 22   |
| 105° | 63   | 100   | 65   | 65    | 58   | 66   |
| 115° | 100  | 200   | 157  | 120   | 111  | 99   |
| 125° | 128  | 205   | 226  | 209   | 207  | 114  |
| 135° | 146  | 183   | 264  | 268   | 258  | 113  |
| 145° | 157  | 177   | 230  | 277   | 287  | 98   |
| 155° | 159  | 171   | 192  | 220   | 231  | 74   |
| 165° | 161  | 166   | 174  | 183   | 186  | 46   |
| 175° | 162  | 162   | 163  | 164   | 164  | 15   |
| 180° | 161  | 161   | 161  | 161   | 161  |      |



TEST NUMBER: P274926

CATALOG NUMBER: J2-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1255.0 | 1255.0 | 1255.0 | 1255.0 | 1255.0 |
| 2.5°   | 1255.0 | 1253.0 | 1245.6 | 1251.9 | 1253.0 |
| 5°     | 1249.8 | 1246.7 | 1241.5 | 1246.7 | 1246.7 |
| 7.5°   | 1244.6 | 1239.4 | 1233.1 | 1236.2 | 1234.1 |
| 10°    | 1230.0 | 1227.9 | 1219.5 | 1223.7 | 1221.6 |
| 12.5°  | 1213.2 | 1210.1 | 1199.7 | 1208.0 | 1205.9 |
| 15°    | 1196.5 | 1189.2 | 1179.8 | 1190.3 | 1186.1 |
| 17.5°  | 1168.3 | 1166.2 | 1155.8 | 1165.2 | 1158.9 |
| 20°    | 1139.1 | 1138.0 | 1129.6 | 1133.8 | 1132.8 |
| 22.5°  | 1109.8 | 1106.7 | 1101.4 | 1102.5 | 1101.4 |
| 25°    | 1077.4 | 1075.3 | 1068.0 | 1066.9 | 1063.8 |
| 27.5°  | 1044.0 | 1042.9 | 1032.5 | 1032.5 | 1031.4 |
| 30°    | 1009.5 | 1006.3 | 995.9  | 995.9  | 993.8  |
| 32.5°  | 972.9  | 967.7  | 958.3  | 956.2  | 951.0  |
| 35°    | 933.2  | 928.0  | 919.6  | 916.5  | 912.3  |
| 37.5°  | 888.3  | 887.2  | 876.8  | 873.6  | 870.5  |
| 40°    | 847.5  | 844.4  | 835.0  | 831.8  | 826.6  |
| 42.5°  | 803.6  | 803.6  | 792.1  | 784.8  | 782.7  |
| 45°    | 760.8  | 758.7  | 749.3  | 740.9  | 739.9  |
| 47.5°  | 715.8  | 714.8  | 707.5  | 694.9  | 694.9  |
| 50°    | 671.9  | 669.8  | 659.4  | 651.0  | 646.9  |
| 52.5°  | 623.9  | 627.0  | 616.6  | 607.1  | 601.9  |
| 55°    | 576.8  | 578.9  | 569.5  | 561.2  | 555.9  |
| 57.5°  | 531.9  | 533.0  | 522.5  | 516.2  | 512.1  |
| 60°    | 487.0  | 485.9  | 475.5  | 470.3  | 469.2  |
| 62.5°  | 439.9  | 437.9  | 429.5  | 424.3  | 419.0  |
| 65°    | 390.8  | 390.8  | 380.4  | 376.2  | 372.0  |
| 67.5°  | 344.9  | 341.7  | 334.4  | 330.2  | 325.0  |
| 70°    | 294.7  | 293.6  | 287.4  | 284.2  | 281.1  |
| 72.5°  | 249.8  | 246.6  | 243.5  | 239.3  | 236.2  |
| 75°    | 198.6  | 198.6  | 195.4  | 192.3  | 193.3  |
| 77.5°  | 154.7  | 153.6  | 150.5  | 148.4  | 148.4  |
| 80°    | 106.6  | 108.7  | 107.6  | 106.6  | 104.5  |
| 82.5°  | 69.0   | 70.0   | 66.9   | 66.9   | 67.9   |
| 85°    | 34.5   | 35.5   | 35.5   | 37.6   | 36.6   |
| 87.5°  | 11.5   | 12.5   | 14.6   | 15.7   | 15.7   |
| 90°    | 1.0    | 3.1    | 4.2    | 5.2    | 4.2    |
| 92.5°  | 11.5   | 12.5   | 15.7   | 15.7   | 15.7   |
| 95°    | 21.9   | 20.9   | 20.9   | 23.0   | 23.0   |
| 97.5°  | 32.4   | 33.4   | 26.1   | 27.2   | 27.2   |
| 100°   | 42.8   | 52.3   | 39.7   | 32.4   | 32.4   |
| 102.5° | 53.3   | 76.3   | 52.3   | 46.0   | 41.8   |
| 105°   | 62.7   | 100.3  | 64.8   | 64.8   | 58.5   |
| 107.5° | 72.1   | 122.3  | 81.5   | 67.9   | 67.9   |
| 110°   | 81.5   | 151.5  | 105.5  | 81.5   | 77.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 92.0  | 179.7 | 131.7 | 98.2  | 92.0  |
| 115°   | 100.3 | 199.6 | 156.8 | 120.2 | 110.8 |
| 117.5° | 108.7 | 208.0 | 176.6 | 145.3 | 132.7 |
| 120°   | 116.0 | 211.1 | 191.2 | 171.4 | 158.8 |
| 122.5° | 122.3 | 210.0 | 203.8 | 195.4 | 185.0 |
| 125°   | 127.5 | 204.8 | 225.7 | 209.0 | 206.9 |
| 127.5° | 132.7 | 197.5 | 244.5 | 220.5 | 219.5 |
| 130°   | 139.0 | 190.2 | 259.2 | 228.9 | 230.9 |
| 132.5° | 143.2 | 185.0 | 265.4 | 248.7 | 239.3 |
| 135°   | 146.3 | 182.9 | 264.4 | 267.5 | 258.1 |
| 137.5° | 150.5 | 180.8 | 261.3 | 279.0 | 274.8 |
| 140°   | 153.6 | 180.8 | 255.0 | 284.2 | 286.3 |
| 142.5° | 155.7 | 178.7 | 244.5 | 283.2 | 290.5 |
| 145°   | 156.8 | 176.6 | 229.9 | 276.9 | 287.4 |
| 147.5° | 157.8 | 175.6 | 216.3 | 267.5 | 281.1 |
| 150°   | 157.8 | 173.5 | 205.9 | 252.9 | 269.6 |
| 152.5° | 158.8 | 172.4 | 198.6 | 235.1 | 250.8 |
| 155°   | 158.8 | 171.4 | 192.3 | 219.5 | 230.9 |
| 157.5° | 159.9 | 169.3 | 186.0 | 206.9 | 215.3 |
| 160°   | 160.9 | 168.2 | 181.8 | 196.5 | 202.7 |
| 162.5° | 160.9 | 167.2 | 177.7 | 189.1 | 193.3 |
| 165°   | 160.9 | 166.2 | 174.5 | 182.9 | 186.0 |
| 167.5° | 160.9 | 165.1 | 170.3 | 177.7 | 179.7 |
| 170°   | 162.0 | 164.1 | 167.2 | 172.4 | 173.5 |
| 172.5° | 162.0 | 163.0 | 165.1 | 168.2 | 168.2 |
| 175°   | 162.0 | 162.0 | 163.0 | 164.1 | 164.1 |
| 177.5° | 162.0 | 162.0 | 162.0 | 162.0 | 162.0 |
| 180°   | 160.9 | 160.9 | 160.9 | 160.9 | 160.9 |

(END OF REPORT)