

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: P274851

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274851  
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-20L82765-1D-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: 1911.2 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

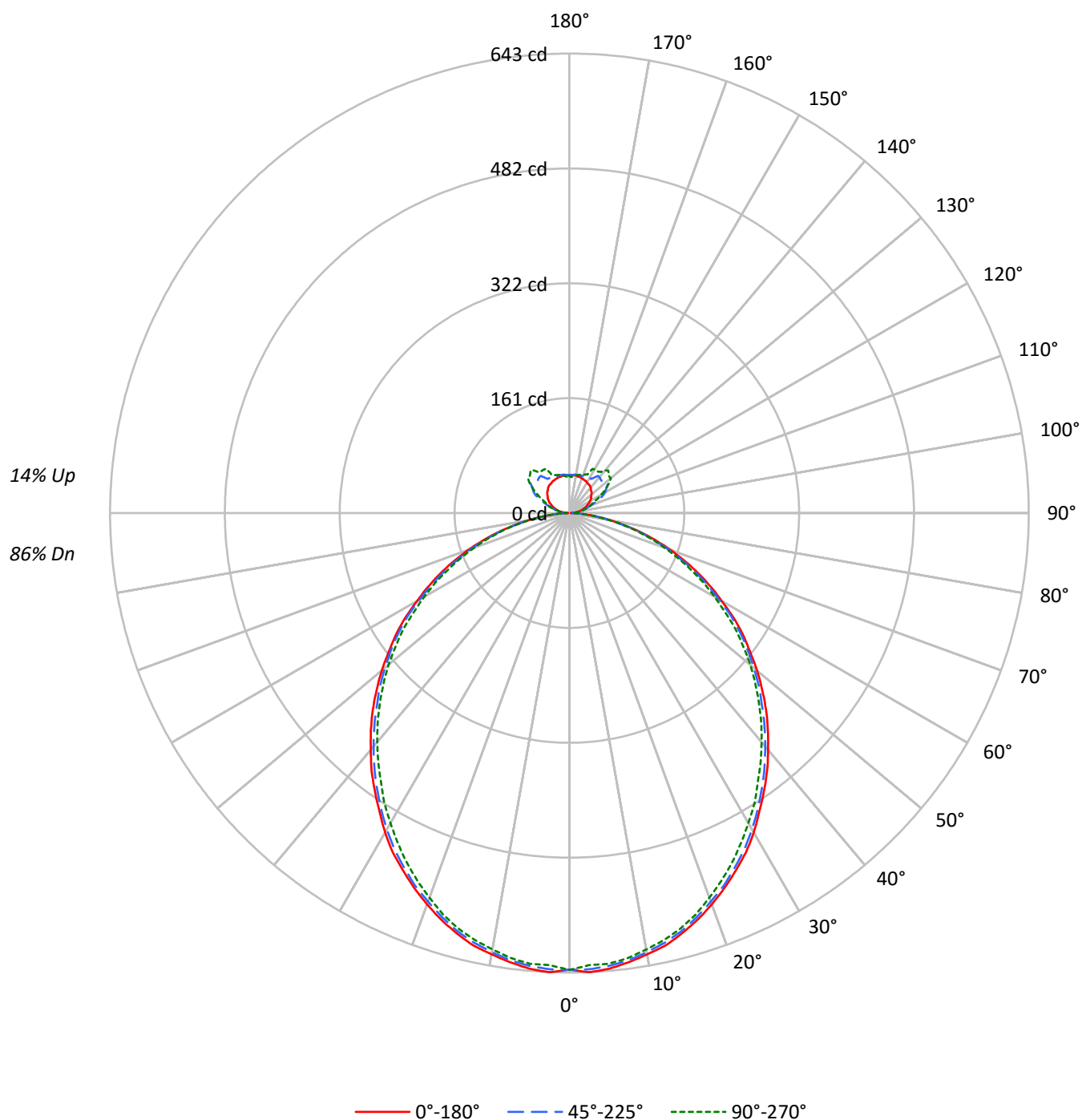
Input Watts (W): 17.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |    |  | 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°  | 5159 | 5159 | 5159 |
| 5°  | 5187 | 5155 | 5131 |
| 10° | 5140 | 5115 | 5082 |
| 15° | 5089 | 5064 | 5030 |
| 20° | 5006 | 4971 | 4919 |
| 25° | 4912 | 4876 | 4804 |
| 30° | 4811 | 4764 | 4670 |
| 35° | 4679 | 4630 | 4530 |
| 40° | 4558 | 4494 | 4409 |
| 45° | 4442 | 4351 | 4281 |
| 50° | 4305 | 4229 | 4153 |
| 55° | 4172 | 4114 | 4001 |
| 60° | 3972 | 3906 | 3793 |
| 65° | 3794 | 3698 | 3582 |
| 70° | 3545 | 3451 | 3330 |
| 75° | 3206 | 3144 | 3051 |
| 80° | 2720 | 2673 | 2627 |
| 85° | 2056 | 2149 | 2056 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 3.2       |
| 10°-20°   | 170.1  | 8.9       |
| 20°-30°   | 250.9  | 13.1      |
| 30°-40°   | 292.4  | 15.3      |
| 40°-50°   | 294.0  | 15.4      |
| 50°-60°   | 258.9  | 13.5      |
| 60°-70°   | 191.1  | 10.0      |
| 70°-80°   | 105.9  | 5.5       |
| 80°-90°   | 27.6   | 1.4       |
| 90°-100°  | 9.8    | 0.5       |
| 100°-110° | 25.3   | 1.3       |
| 110°-120° | 41.0   | 2.1       |
| 120°-130° | 51.2   | 2.7       |
| 130°-140° | 48.1   | 2.5       |
| 140°-150° | 38.0   | 2.0       |
| 150°-160° | 26.1   | 1.4       |
| 160°-170° | 15.4   | 0.8       |
| 170°-180° | 5.1    | 0.3       |
| 0°-30°    | 481.2  | 25.2      |
| 0°-40°    | 773.6  | 40.5      |
| 0°-60°    | 1326.5 | 69.4      |
| 0°-90°    | 1651.1 | 86.4      |
| 90°-120°  | 76.1   | 4.0       |
| 90°-150°  | 213.4  | 11.2      |
| 90°-180°  | 260.0  | 13.6      |
| 0°-180°   | 1911.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 639 | 639   | 639 | 639   | 639 |      |
| 5°   | 640 | 633   | 636 | 634   | 633 | 61   |
| 15°  | 609 | 603   | 606 | 603   | 602 | 172  |
| 25°  | 551 | 546   | 547 | 540   | 539 | 254  |
| 35°  | 475 | 471   | 470 | 462   | 460 | 297  |
| 45°  | 389 | 385   | 381 | 376   | 375 | 300  |
| 55°  | 296 | 293   | 292 | 286   | 284 | 264  |
| 65°  | 199 | 197   | 194 | 190   | 188 | 196  |
| 75°  | 103 | 102   | 101 | 98    | 98  | 109  |
| 85°  | 22  | 23    | 23  | 22    | 22  | 26   |
| 90°  | 2   | 4     | 4   | 4     | 4   | 2    |
| 95°  | 7   | 8     | 9   | 9     | 9   | 7    |
| 105° | 19  | 26    | 23  | 25    | 23  | 20   |
| 115° | 28  | 45    | 46  | 40    | 39  | 28   |
| 125° | 37  | 51    | 64  | 66    | 64  | 33   |
| 135° | 43  | 48    | 64  | 79    | 78  | 34   |
| 145° | 48  | 50    | 60  | 70    | 71  | 30   |
| 155° | 50  | 52    | 55  | 60    | 60  | 23   |
| 165° | 52  | 52    | 55  | 56    | 55  | 15   |
| 175° | 53  | 53    | 53  | 53    | 51  | 5    |
| 180° | 52  | 52    | 52  | 52    | 52  |      |



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CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 639.1 | 639.1 | 639.1 | 639.1 | 639.1 |
| 2.5°   | 643.2 | 636.1 | 639.1 | 637.1 | 633.1 |
| 5°     | 640.1 | 633.1 | 636.1 | 634.1 | 633.1 |
| 7.5°   | 634.1 | 628.0 | 631.1 | 629.1 | 628.0 |
| 10°    | 627.0 | 621.0 | 624.0 | 621.0 | 620.0 |
| 12.5°  | 620.0 | 612.9 | 615.9 | 611.9 | 611.9 |
| 15°    | 608.9 | 602.8 | 605.9 | 602.8 | 601.8 |
| 17.5°  | 596.8 | 590.7 | 592.8 | 589.7 | 588.7 |
| 20°    | 582.7 | 576.6 | 578.6 | 574.6 | 572.6 |
| 22.5°  | 567.6 | 562.5 | 564.5 | 557.5 | 556.5 |
| 25°    | 551.4 | 546.4 | 547.4 | 540.3 | 539.3 |
| 27.5°  | 535.3 | 528.2 | 530.3 | 522.2 | 520.2 |
| 30°    | 516.1 | 510.1 | 511.1 | 503.0 | 501.0 |
| 32.5°  | 495.0 | 490.9 | 490.9 | 482.9 | 481.9 |
| 35°    | 474.8 | 470.8 | 469.8 | 461.7 | 459.7 |
| 37.5°  | 454.7 | 449.6 | 448.6 | 439.5 | 439.5 |
| 40°    | 432.5 | 428.4 | 426.4 | 419.4 | 418.4 |
| 42.5°  | 411.3 | 406.3 | 404.2 | 397.2 | 397.2 |
| 45°    | 389.1 | 385.1 | 381.1 | 376.0 | 375.0 |
| 47.5°  | 365.9 | 361.9 | 359.9 | 353.8 | 352.8 |
| 50°    | 342.8 | 339.7 | 336.7 | 331.7 | 330.7 |
| 52.5°  | 318.6 | 316.5 | 314.5 | 309.5 | 306.5 |
| 55°    | 296.4 | 293.4 | 292.3 | 286.3 | 284.3 |
| 57.5°  | 272.2 | 269.2 | 268.2 | 261.1 | 258.1 |
| 60°    | 246.0 | 243.0 | 241.9 | 235.9 | 234.9 |
| 62.5°  | 222.8 | 219.8 | 217.7 | 213.7 | 211.7 |
| 65°    | 198.6 | 196.6 | 193.6 | 189.5 | 187.5 |
| 67.5°  | 174.4 | 172.4 | 169.4 | 166.3 | 164.3 |
| 70°    | 150.2 | 148.2 | 146.2 | 142.1 | 141.1 |
| 72.5°  | 126.0 | 124.0 | 122.0 | 120.0 | 120.0 |
| 75°    | 102.8 | 101.8 | 100.8 | 97.8  | 97.8  |
| 77.5°  | 79.6  | 78.6  | 77.6  | 76.6  | 76.6  |
| 80°    | 58.5  | 58.5  | 57.5  | 56.5  | 56.5  |
| 82.5°  | 39.3  | 39.3  | 39.3  | 38.3  | 38.3  |
| 85°    | 22.2  | 23.2  | 23.2  | 22.2  | 22.2  |
| 87.5°  | 9.1   | 9.1   | 9.1   | 9.1   | 9.1   |
| 90°    | 2.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| 92.5°  | 4.0   | 5.0   | 6.0   | 7.1   | 6.0   |
| 95°    | 7.1   | 8.1   | 9.1   | 9.1   | 9.1   |
| 97.5°  | 11.1  | 12.1  | 12.1  | 12.1  | 12.1  |
| 100°   | 14.1  | 16.1  | 15.1  | 16.1  | 15.1  |
| 102.5° | 17.1  | 21.2  | 21.2  | 19.2  | 19.2  |
| 105°   | 19.2  | 26.2  | 23.2  | 25.2  | 23.2  |
| 107.5° | 21.2  | 32.3  | 27.2  | 28.2  | 29.2  |
| 110°   | 24.2  | 36.3  | 33.3  | 30.2  | 31.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|--------|------|-------|------|-------|------|
| 112.5° | 26.2 | 44.4  | 39.3 | 35.3  | 34.3 |
| 115°   | 28.2 | 45.4  | 46.4 | 40.3  | 39.3 |
| 117.5° | 31.3 | 45.4  | 52.4 | 47.4  | 45.4 |
| 120°   | 33.3 | 48.4  | 57.5 | 53.4  | 51.4 |
| 122.5° | 35.3 | 50.4  | 60.5 | 60.5  | 58.5 |
| 125°   | 37.3 | 51.4  | 63.5 | 65.5  | 64.5 |
| 127.5° | 38.3 | 48.4  | 68.6 | 71.6  | 70.6 |
| 130°   | 40.3 | 46.4  | 67.5 | 72.6  | 75.6 |
| 132.5° | 42.3 | 47.4  | 65.5 | 73.6  | 75.6 |
| 135°   | 43.3 | 48.4  | 63.5 | 78.6  | 77.6 |
| 137.5° | 44.4 | 49.4  | 64.5 | 75.6  | 80.6 |
| 140°   | 46.4 | 49.4  | 65.5 | 71.6  | 77.6 |
| 142.5° | 47.4 | 50.4  | 65.5 | 68.6  | 72.6 |
| 145°   | 48.4 | 50.4  | 60.5 | 69.6  | 70.6 |
| 147.5° | 48.4 | 51.4  | 56.5 | 70.6  | 70.6 |
| 150°   | 49.4 | 51.4  | 56.5 | 70.6  | 70.6 |
| 152.5° | 50.4 | 52.4  | 55.4 | 61.5  | 69.6 |
| 155°   | 50.4 | 52.4  | 55.4 | 59.5  | 59.5 |
| 157.5° | 51.4 | 52.4  | 55.4 | 58.5  | 58.5 |
| 160°   | 51.4 | 52.4  | 55.4 | 57.5  | 56.5 |
| 162.5° | 52.4 | 52.4  | 54.4 | 56.5  | 55.4 |
| 165°   | 52.4 | 52.4  | 55.4 | 56.5  | 55.4 |
| 167.5° | 52.4 | 53.4  | 54.4 | 55.4  | 54.4 |
| 170°   | 53.4 | 53.4  | 54.4 | 54.4  | 53.4 |
| 172.5° | 53.4 | 53.4  | 54.4 | 53.4  | 52.4 |
| 175°   | 53.4 | 53.4  | 53.4 | 53.4  | 51.4 |
| 177.5° | 53.4 | 52.4  | 53.4 | 52.4  | 50.4 |
| 180°   | 52.4 | 52.4  | 52.4 | 52.4  | 52.4 |

(END OF REPORT)