

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: P253365

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253365  
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-30L83050-1D-UNV-W2A-DLED-W-4 (3000K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2589.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

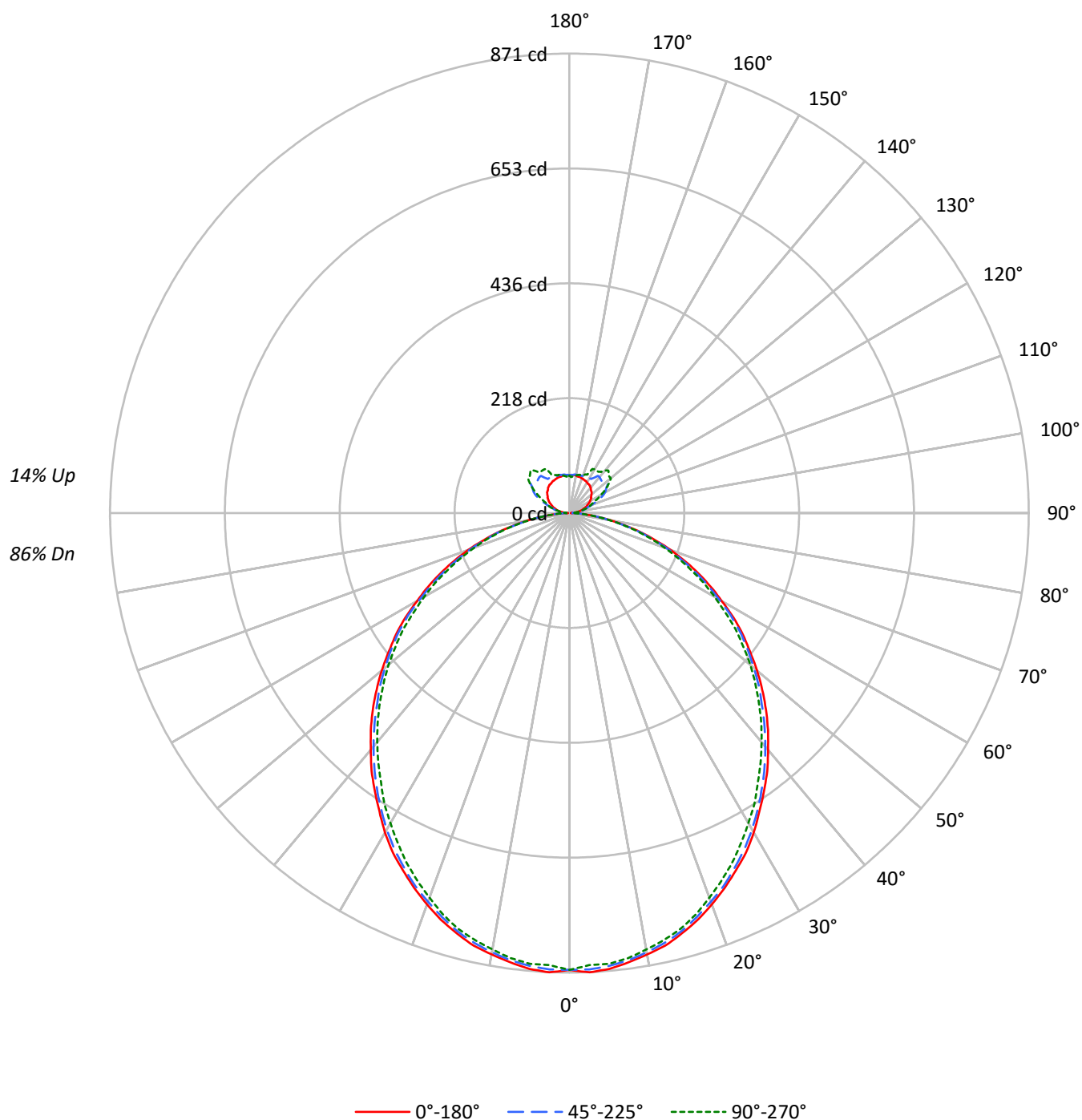
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 6990 | 6990 | 6990 |
| 5°  | 7028 | 6984 | 6951 |
| 10° | 6964 | 6930 | 6886 |
| 15° | 6894 | 6860 | 6815 |
| 20° | 6782 | 6735 | 6665 |
| 25° | 6655 | 6606 | 6509 |
| 30° | 6519 | 6455 | 6328 |
| 35° | 6340 | 6273 | 6138 |
| 40° | 6174 | 6088 | 5973 |
| 45° | 6019 | 5895 | 5801 |
| 50° | 5833 | 5730 | 5627 |
| 55° | 5651 | 5575 | 5422 |
| 60° | 5381 | 5293 | 5138 |
| 65° | 5140 | 5009 | 4852 |
| 70° | 4803 | 4674 | 4513 |
| 75° | 4345 | 4261 | 4133 |
| 80° | 3682 | 3622 | 3557 |
| 85° | 2779 | 2908 | 2779 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.6   | 3.2       |
| 10°-20°   | 230.5  | 8.9       |
| 20°-30°   | 339.9  | 13.1      |
| 30°-40°   | 396.2  | 15.3      |
| 40°-50°   | 398.3  | 15.4      |
| 50°-60°   | 350.8  | 13.5      |
| 60°-70°   | 258.9  | 10.0      |
| 70°-80°   | 143.5  | 5.5       |
| 80°-90°   | 37.3   | 1.4       |
| 90°-100°  | 13.3   | 0.5       |
| 100°-110° | 34.2   | 1.3       |
| 110°-120° | 55.6   | 2.1       |
| 120°-130° | 69.4   | 2.7       |
| 130°-140° | 65.2   | 2.5       |
| 140°-150° | 51.4   | 2.0       |
| 150°-160° | 35.4   | 1.4       |
| 160°-170° | 20.9   | 0.8       |
| 170°-180° | 6.9    | 0.3       |
| 0°-30°    | 651.9  | 25.2      |
| 0°-40°    | 1048.1 | 40.5      |
| 0°-60°    | 1797.2 | 69.4      |
| 0°-90°    | 2236.9 | 86.4      |
| 90°-120°  | 103.1  | 4.0       |
| 90°-150°  | 289.2  | 11.2      |
| 90°-180°  | 352.0  | 13.6      |
| 0°-180°   | 2589.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 866 | 866   | 866 | 866   | 866 |      |
| 5°   | 867 | 858   | 862 | 859   | 858 | 82   |
| 15°  | 825 | 817   | 821 | 817   | 815 | 232  |
| 25°  | 747 | 740   | 742 | 732   | 731 | 344  |
| 35°  | 643 | 638   | 636 | 626   | 623 | 403  |
| 45°  | 527 | 522   | 516 | 509   | 508 | 406  |
| 55°  | 402 | 397   | 396 | 388   | 385 | 358  |
| 65°  | 269 | 266   | 262 | 257   | 254 | 266  |
| 75°  | 139 | 138   | 137 | 132   | 132 | 147  |
| 85°  | 30  | 31    | 31  | 30    | 30  | 35   |
| 90°  | 3   | 6     | 6   | 6     | 6   | 3    |
| 95°  | 10  | 11    | 12  | 12    | 12  | 10   |
| 105° | 26  | 36    | 31  | 34    | 31  | 27   |
| 115° | 38  | 62    | 63  | 55    | 53  | 38   |
| 125° | 50  | 70    | 86  | 89    | 87  | 45   |
| 135° | 59  | 66    | 86  | 106   | 105 | 45   |
| 145° | 66  | 68    | 82  | 94    | 96  | 41   |
| 155° | 68  | 71    | 75  | 81    | 81  | 32   |
| 165° | 71  | 71    | 75  | 76    | 75  | 20   |
| 175° | 72  | 72    | 72  | 72    | 70  | 7    |
| 180° | 71  | 71    | 71  | 71    | 71  |      |



TEST NUMBER: P253365

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 865.9 | 865.9 | 865.9 | 865.9 | 865.9 |
| 2.5°   | 871.4 | 861.8 | 865.9 | 863.2 | 857.7 |
| 5°     | 867.3 | 857.7 | 861.8 | 859.1 | 857.7 |
| 7.5°   | 859.1 | 850.9 | 855.0 | 852.3 | 850.9 |
| 10°    | 849.5 | 841.3 | 845.4 | 841.3 | 840.0 |
| 12.5°  | 840.0 | 830.4 | 834.5 | 829.0 | 829.0 |
| 15°    | 824.9 | 816.8 | 820.8 | 816.8 | 815.4 |
| 17.5°  | 808.6 | 800.4 | 803.1 | 799.0 | 797.6 |
| 20°    | 789.4 | 781.2 | 784.0 | 778.5 | 775.8 |
| 22.5°  | 768.9 | 762.1 | 764.8 | 755.3 | 753.9 |
| 25°    | 747.1 | 740.3 | 741.6 | 732.1 | 730.7 |
| 27.5°  | 725.2 | 715.7 | 718.4 | 707.5 | 704.8 |
| 30°    | 699.3 | 691.1 | 692.5 | 681.5 | 678.8 |
| 32.5°  | 670.6 | 665.1 | 665.1 | 654.2 | 652.9 |
| 35°    | 643.3 | 637.8 | 636.5 | 625.5 | 622.8 |
| 37.5°  | 616.0 | 609.1 | 607.8 | 595.5 | 595.5 |
| 40°    | 585.9 | 580.5 | 577.7 | 568.2 | 566.8 |
| 42.5°  | 557.2 | 550.4 | 547.7 | 538.1 | 538.1 |
| 45°    | 527.2 | 521.7 | 516.3 | 509.4 | 508.1 |
| 47.5°  | 495.8 | 490.3 | 487.6 | 479.4 | 478.0 |
| 50°    | 464.4 | 460.3 | 456.2 | 449.3 | 448.0 |
| 52.5°  | 431.6 | 428.9 | 426.1 | 419.3 | 415.2 |
| 55°    | 401.5 | 397.4 | 396.1 | 387.9 | 385.2 |
| 57.5°  | 368.8 | 364.7 | 363.3 | 353.7 | 349.6 |
| 60°    | 333.3 | 329.2 | 327.8 | 319.6 | 318.2 |
| 62.5°  | 301.8 | 297.7 | 295.0 | 289.6 | 286.8 |
| 65°    | 269.1 | 266.3 | 262.2 | 256.8 | 254.0 |
| 67.5°  | 236.3 | 233.6 | 229.5 | 225.4 | 222.6 |
| 70°    | 203.5 | 200.8 | 198.0 | 192.6 | 191.2 |
| 72.5°  | 170.7 | 168.0 | 165.3 | 162.5 | 162.5 |
| 75°    | 139.3 | 137.9 | 136.6 | 132.5 | 132.5 |
| 77.5°  | 107.9 | 106.5 | 105.2 | 103.8 | 103.8 |
| 80°    | 79.2  | 79.2  | 77.9  | 76.5  | 76.5  |
| 82.5°  | 53.3  | 53.3  | 53.3  | 51.9  | 51.9  |
| 85°    | 30.0  | 31.4  | 31.4  | 30.0  | 30.0  |
| 87.5°  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  |
| 90°    | 2.7   | 5.5   | 5.5   | 5.5   | 5.5   |
| 92.5°  | 5.5   | 6.8   | 8.2   | 9.6   | 8.2   |
| 95°    | 9.6   | 10.9  | 12.3  | 12.3  | 12.3  |
| 97.5°  | 15.0  | 16.4  | 16.4  | 16.4  | 16.4  |
| 100°   | 19.1  | 21.9  | 20.5  | 21.9  | 20.5  |
| 102.5° | 23.2  | 28.7  | 28.7  | 26.0  | 26.0  |
| 105°   | 26.0  | 35.5  | 31.4  | 34.1  | 31.4  |
| 107.5° | 28.7  | 43.7  | 36.9  | 38.2  | 39.6  |
| 110°   | 32.8  | 49.2  | 45.1  | 41.0  | 42.3  |



TEST NUMBER: P253365

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°   |
|--------|------|-------|------|-------|-------|
| 112.5° | 35.5 | 60.1  | 53.3 | 47.8  | 46.4  |
| 115°   | 38.2 | 61.5  | 62.8 | 54.6  | 53.3  |
| 117.5° | 42.3 | 61.5  | 71.0 | 64.2  | 61.5  |
| 120°   | 45.1 | 65.6  | 77.9 | 72.4  | 69.7  |
| 122.5° | 47.8 | 68.3  | 81.9 | 81.9  | 79.2  |
| 125°   | 50.5 | 69.7  | 86.0 | 88.8  | 87.4  |
| 127.5° | 51.9 | 65.6  | 92.9 | 97.0  | 95.6  |
| 130°   | 54.6 | 62.8  | 91.5 | 98.3  | 102.4 |
| 132.5° | 57.4 | 64.2  | 88.8 | 99.7  | 102.4 |
| 135°   | 58.7 | 65.6  | 86.0 | 106.5 | 105.2 |
| 137.5° | 60.1 | 66.9  | 87.4 | 102.4 | 109.3 |
| 140°   | 62.8 | 66.9  | 88.8 | 97.0  | 105.2 |
| 142.5° | 64.2 | 68.3  | 88.8 | 92.9  | 98.3  |
| 145°   | 65.6 | 68.3  | 81.9 | 94.2  | 95.6  |
| 147.5° | 65.6 | 69.7  | 76.5 | 95.6  | 95.6  |
| 150°   | 66.9 | 69.7  | 76.5 | 95.6  | 95.6  |
| 152.5° | 68.3 | 71.0  | 75.1 | 83.3  | 94.2  |
| 155°   | 68.3 | 71.0  | 75.1 | 80.6  | 80.6  |
| 157.5° | 69.7 | 71.0  | 75.1 | 79.2  | 79.2  |
| 160°   | 69.7 | 71.0  | 75.1 | 77.9  | 76.5  |
| 162.5° | 71.0 | 71.0  | 73.8 | 76.5  | 75.1  |
| 165°   | 71.0 | 71.0  | 75.1 | 76.5  | 75.1  |
| 167.5° | 71.0 | 72.4  | 73.8 | 75.1  | 73.8  |
| 170°   | 72.4 | 72.4  | 73.8 | 73.8  | 72.4  |
| 172.5° | 72.4 | 72.4  | 73.8 | 72.4  | 71.0  |
| 175°   | 72.4 | 72.4  | 72.4 | 72.4  | 69.7  |
| 177.5° | 72.4 | 71.0  | 72.4 | 71.0  | 68.3  |
| 180°   | 71.0 | 71.0  | 71.0 | 71.0  | 71.0  |

(END OF REPORT)