

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: P253408

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J2-WL-20L93050-1D-UNV-W2A-W-4 (3000K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1590.1 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.31  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Direct

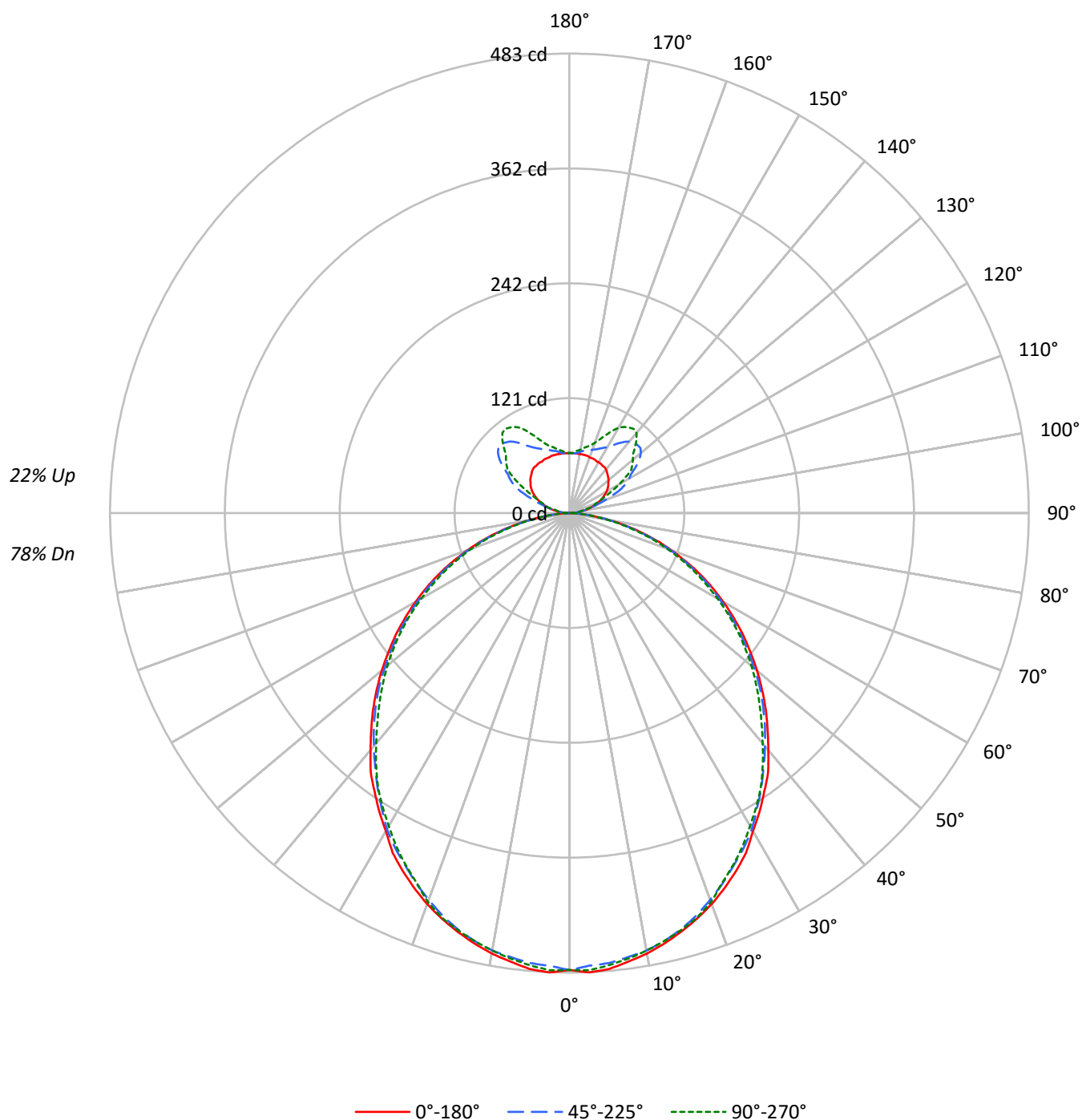
Input Watts (W): 17.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 78 |    |    |
| 1   | 104 | 100 | 96  | 92  | 99  | 95  | 92  | 88  | 87 | 84 | 82 | 80 | 78 | 76 | 73 | 71 | 70 | 66 |    |    |
| 2   | 95  | 87  | 81  | 75  | 90  | 83  | 78  | 73  | 76 | 72 | 68 | 70 | 66 | 63 | 64 | 61 | 59 | 55 |    |    |
| 3   | 87  | 77  | 69  | 63  | 82  | 73  | 66  | 61  | 67 | 62 | 57 | 62 | 57 | 53 | 57 | 53 | 50 | 47 |    |    |
| 4   | 79  | 68  | 60  | 53  | 75  | 65  | 58  | 52  | 60 | 54 | 49 | 55 | 50 | 46 | 51 | 46 | 43 | 40 |    |    |
| 5   | 73  | 61  | 52  | 46  | 69  | 58  | 50  | 45  | 54 | 47 | 42 | 50 | 44 | 40 | 46 | 41 | 37 | 35 |    |    |
| 6   | 67  | 55  | 46  | 40  | 64  | 53  | 45  | 39  | 49 | 42 | 37 | 45 | 39 | 35 | 41 | 37 | 33 | 31 |    |    |
| 7   | 62  | 49  | 41  | 35  | 59  | 48  | 40  | 34  | 44 | 38 | 33 | 41 | 35 | 31 | 38 | 33 | 29 | 27 |    |    |
| 8   | 58  | 45  | 37  | 31  | 55  | 43  | 36  | 31  | 40 | 34 | 29 | 38 | 32 | 28 | 35 | 30 | 26 | 24 |    |    |
| 9   | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 27  | 37 | 31 | 26 | 35 | 29 | 25 | 32 | 27 | 24 | 22 |    |    |
| 10  | 51  | 38  | 30  | 25  | 48  | 37  | 30  | 25  | 34 | 28 | 24 | 32 | 27 | 23 | 30 | 25 | 22 | 20 |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3877 | 3877 | 3877 |
| 5°  | 3898 | 3848 | 3866 |
| 10° | 3854 | 3828 | 3828 |
| 15° | 3805 | 3786 | 3793 |
| 20° | 3758 | 3717 | 3738 |
| 25° | 3695 | 3640 | 3632 |
| 30° | 3598 | 3577 | 3540 |
| 35° | 3520 | 3467 | 3459 |
| 40° | 3428 | 3371 | 3330 |
| 45° | 3333 | 3288 | 3225 |
| 50° | 3235 | 3186 | 3137 |
| 55° | 3133 | 3078 | 3035 |
| 60° | 3016 | 2966 | 2903 |
| 65° | 2884 | 2825 | 2766 |
| 70° | 2681 | 2646 | 2573 |
| 75° | 2427 | 2355 | 2283 |
| 80° | 1990 | 1990 | 1883 |
| 85° | 1297 | 1371 | 1371 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.3   | 2.8       |
| 10°-20°   | 128.0  | 8.1       |
| 20°-30°   | 189.2  | 11.9      |
| 30°-40°   | 220.9  | 13.9      |
| 40°-50°   | 222.2  | 14.0      |
| 50°-60°   | 195.7  | 12.3      |
| 60°-70°   | 146.3  | 9.2       |
| 70°-80°   | 80.4   | 5.1       |
| 80°-90°   | 18.9   | 1.2       |
| 90°-100°  | 8.9    | 0.6       |
| 100°-110° | 28.8   | 1.8       |
| 110°-120° | 54.2   | 3.4       |
| 120°-130° | 68.3   | 4.3       |
| 130°-140° | 67.4   | 4.2       |
| 140°-150° | 54.8   | 3.4       |
| 150°-160° | 35.3   | 2.2       |
| 160°-170° | 19.3   | 1.2       |
| 170°-180° | 6.1    | 0.4       |
| 0°-30°    | 362.5  | 22.8      |
| 0°-40°    | 583.4  | 36.7      |
| 0°-60°    | 1001.3 | 63.0      |
| 0°-90°    | 1247.0 | 78.4      |
| 90°-120°  | 92.0   | 5.8       |
| 90°-150°  | 282.4  | 17.8      |
| 90°-180°  | 343.0  | 21.6      |
| 0°-180°   | 1590.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 480 | 480   | 480 | 480   | 480 |      |
| 5°   | 481 | 478   | 475 | 477   | 477 | 46   |
| 15°  | 455 | 455   | 453 | 454   | 454 | 128  |
| 25°  | 415 | 412   | 409 | 411   | 408 | 191  |
| 35°  | 357 | 356   | 352 | 351   | 351 | 224  |
| 45°  | 292 | 291   | 288 | 286   | 282 | 225  |
| 55°  | 223 | 223   | 219 | 216   | 216 | 199  |
| 65°  | 151 | 151   | 148 | 146   | 145 | 149  |
| 75°  | 78  | 77    | 76  | 75    | 73  | 82   |
| 85°  | 14  | 15    | 15  | 15    | 15  | 18   |
| 90°  | 0   | 0     | 0   | 0     | 0   | 1    |
| 95°  | 9   | 8     | 8   | 9     | 9   | 9    |
| 105° | 24  | 38    | 25  | 25    | 23  | 25   |
| 115° | 39  | 76    | 60  | 46    | 42  | 38   |
| 125° | 50  | 79    | 86  | 79    | 79  | 44   |
| 135° | 57  | 71    | 101 | 101   | 97  | 44   |
| 145° | 61  | 68    | 90  | 107   | 110 | 38   |
| 155° | 62  | 67    | 75  | 85    | 90  | 29   |
| 165° | 63  | 65    | 68  | 71    | 72  | 18   |
| 175° | 63  | 64    | 63  | 65    | 65  | 6    |
| 180° | 63  | 63    | 63  | 63    | 63  |      |



TEST NUMBER: P253408

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 480.2 | 480.2 | 480.2 | 480.2 | 480.2 |
| 2.5°   | 483.3 | 480.2 | 476.3 | 479.4 | 481.0 |
| 5°     | 481.0 | 477.9 | 474.8 | 477.1 | 477.1 |
| 7.5°   | 475.6 | 474.8 | 470.9 | 474.0 | 472.4 |
| 10°    | 470.1 | 469.3 | 467.0 | 469.3 | 467.0 |
| 12.5°  | 463.1 | 462.3 | 460.8 | 463.9 | 460.8 |
| 15°    | 455.3 | 455.3 | 453.0 | 454.5 | 453.8 |
| 17.5°  | 446.8 | 446.8 | 443.6 | 445.2 | 446.0 |
| 20°    | 437.4 | 435.9 | 432.7 | 434.3 | 435.1 |
| 22.5°  | 426.5 | 425.0 | 421.1 | 422.6 | 420.3 |
| 25°    | 414.8 | 412.5 | 408.6 | 411.0 | 407.8 |
| 27.5°  | 402.4 | 398.5 | 396.9 | 397.7 | 394.6 |
| 30°    | 386.0 | 385.3 | 383.7 | 382.2 | 379.8 |
| 32.5°  | 372.0 | 371.3 | 367.4 | 365.8 | 365.8 |
| 35°    | 357.2 | 356.5 | 351.8 | 351.0 | 351.0 |
| 37.5°  | 343.2 | 340.9 | 335.5 | 334.7 | 333.9 |
| 40°    | 325.3 | 324.6 | 319.9 | 318.3 | 316.0 |
| 42.5°  | 308.2 | 307.4 | 304.3 | 302.0 | 298.9 |
| 45°    | 291.9 | 291.1 | 288.0 | 285.6 | 282.5 |
| 47.5°  | 274.7 | 275.5 | 271.6 | 267.7 | 266.2 |
| 50°    | 257.6 | 258.4 | 253.7 | 250.6 | 249.8 |
| 52.5°  | 239.7 | 240.5 | 235.8 | 232.7 | 232.7 |
| 55°    | 222.6 | 222.6 | 218.7 | 215.6 | 215.6 |
| 57.5°  | 204.7 | 204.7 | 200.8 | 198.5 | 197.7 |
| 60°    | 186.8 | 186.0 | 183.7 | 181.3 | 179.8 |
| 62.5°  | 168.9 | 168.9 | 165.8 | 163.4 | 161.9 |
| 65°    | 151.0 | 151.0 | 147.9 | 145.5 | 144.8 |
| 67.5°  | 132.3 | 133.1 | 130.0 | 127.6 | 126.9 |
| 70°    | 113.6 | 113.6 | 112.1 | 109.0 | 109.0 |
| 72.5°  | 96.5  | 95.0  | 94.2  | 91.8  | 91.8  |
| 75°    | 77.8  | 77.1  | 75.5  | 74.7  | 73.2  |
| 77.5°  | 59.9  | 59.9  | 58.4  | 57.6  | 56.8  |
| 80°    | 42.8  | 44.4  | 42.8  | 42.0  | 40.5  |
| 82.5°  | 27.2  | 28.8  | 28.0  | 26.5  | 26.5  |
| 85°    | 14.0  | 14.8  | 14.8  | 14.8  | 14.8  |
| 87.5°  | 4.7   | 5.4   | 6.2   | 6.2   | 6.2   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 4.7   | 4.7   | 6.2   | 6.2   | 6.2   |
| 95°    | 8.6   | 7.8   | 7.8   | 8.6   | 8.6   |
| 97.5°  | 12.5  | 12.5  | 10.1  | 10.1  | 10.1  |
| 100°   | 16.3  | 20.2  | 15.6  | 12.5  | 12.5  |
| 102.5° | 20.2  | 28.8  | 20.2  | 17.1  | 15.6  |
| 105°   | 24.1  | 38.1  | 24.9  | 24.9  | 23.3  |
| 107.5° | 28.0  | 45.9  | 31.9  | 25.7  | 26.5  |
| 110°   | 31.9  | 56.8  | 39.7  | 31.9  | 30.4  |



TEST NUMBER: P253408

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 35.8 | 67.7  | 49.8  | 38.1  | 35.8  |
| 115°   | 38.9 | 75.5  | 59.9  | 45.9  | 42.0  |
| 117.5° | 42.0 | 79.4  | 66.9  | 56.0  | 50.6  |
| 120°   | 45.1 | 80.9  | 72.4  | 65.4  | 60.7  |
| 122.5° | 47.5 | 80.9  | 77.1  | 74.7  | 70.0  |
| 125°   | 49.8 | 78.6  | 85.6  | 79.4  | 79.4  |
| 127.5° | 51.4 | 76.3  | 92.6  | 84.1  | 83.3  |
| 130°   | 53.7 | 73.9  | 98.1  | 86.4  | 87.2  |
| 132.5° | 55.3 | 71.6  | 101.2 | 94.2  | 90.3  |
| 135°   | 56.8 | 70.8  | 101.2 | 101.2 | 97.3  |
| 137.5° | 58.4 | 70.0  | 100.4 | 106.6 | 104.3 |
| 140°   | 59.9 | 70.0  | 98.1  | 109.0 | 109.7 |
| 142.5° | 60.7 | 69.3  | 94.2  | 109.0 | 111.3 |
| 145°   | 60.7 | 68.5  | 89.5  | 106.6 | 109.7 |
| 147.5° | 61.5 | 67.7  | 84.1  | 102.7 | 107.4 |
| 150°   | 61.5 | 67.7  | 80.2  | 98.1  | 103.5 |
| 152.5° | 61.5 | 66.9  | 77.1  | 91.1  | 97.3  |
| 155°   | 62.3 | 66.9  | 74.7  | 84.8  | 90.3  |
| 157.5° | 62.3 | 66.2  | 72.4  | 80.2  | 84.1  |
| 160°   | 62.3 | 65.4  | 70.8  | 76.3  | 78.6  |
| 162.5° | 63.0 | 64.6  | 69.3  | 73.2  | 74.7  |
| 165°   | 63.0 | 64.6  | 67.7  | 70.8  | 72.4  |
| 167.5° | 63.0 | 63.8  | 66.9  | 69.3  | 70.0  |
| 170°   | 63.0 | 63.8  | 65.4  | 66.9  | 67.7  |
| 172.5° | 63.0 | 63.8  | 63.8  | 65.4  | 66.2  |
| 175°   | 63.0 | 63.8  | 63.0  | 64.6  | 64.6  |
| 177.5° | 63.0 | 63.0  | 63.0  | 63.0  | 63.0  |
| 180°   | 63.0 | 63.0  | 63.0  | 63.0  | 63.0  |

(END OF REPORT)