

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: P253409

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253409  
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 (3500K)  
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 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1736.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

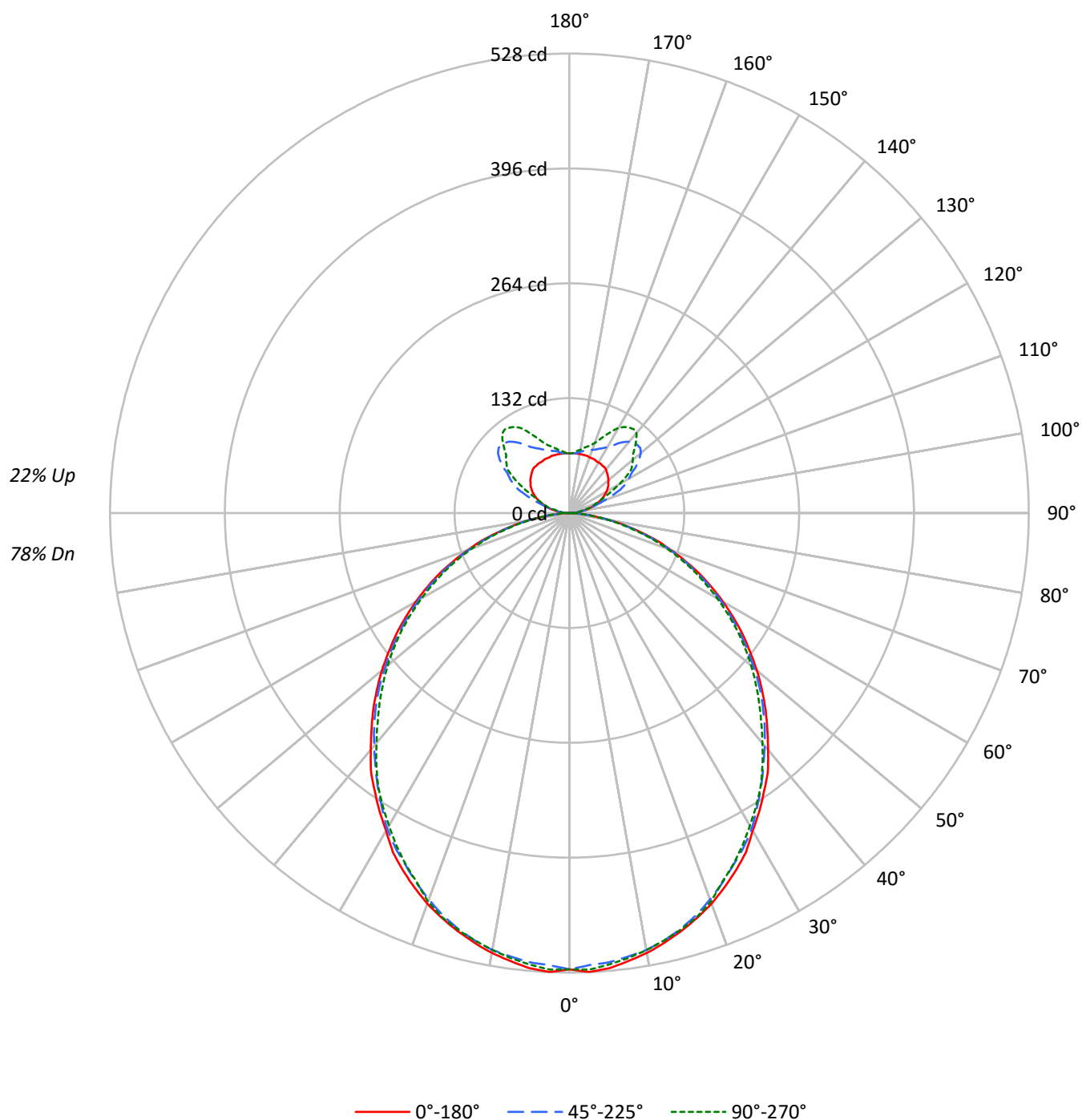
Input Watts (W): 17.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 4233 | 4233 | 4233 |
| 5°  | 4255 | 4200 | 4221 |
| 10° | 4207 | 4179 | 4179 |
| 15° | 4155 | 4133 | 4140 |
| 20° | 4103 | 4059 | 4081 |
| 25° | 4034 | 3974 | 3967 |
| 30° | 3929 | 3905 | 3866 |
| 35° | 3844 | 3785 | 3777 |
| 40° | 3743 | 3680 | 3636 |
| 45° | 3639 | 3589 | 3522 |
| 50° | 3533 | 3479 | 3426 |
| 55° | 3420 | 3361 | 3313 |
| 60° | 3292 | 3237 | 3169 |
| 65° | 3148 | 3085 | 3020 |
| 70° | 2929 | 2889 | 2809 |
| 75° | 2651 | 2570 | 2492 |
| 80° | 2171 | 2171 | 2055 |
| 85° | 1417 | 1491 | 1491 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.4   | 2.8       |
| 10°-20°   | 139.8  | 8.1       |
| 20°-30°   | 206.6  | 11.9      |
| 30°-40°   | 241.1  | 13.9      |
| 40°-50°   | 242.6  | 14.0      |
| 50°-60°   | 213.7  | 12.3      |
| 60°-70°   | 159.8  | 9.2       |
| 70°-80°   | 87.8   | 5.1       |
| 80°-90°   | 20.6   | 1.2       |
| 90°-100°  | 9.7    | 0.6       |
| 100°-110° | 31.5   | 1.8       |
| 110°-120° | 59.2   | 3.4       |
| 120°-130° | 74.6   | 4.3       |
| 130°-140° | 73.6   | 4.2       |
| 140°-150° | 59.8   | 3.4       |
| 150°-160° | 38.5   | 2.2       |
| 160°-170° | 21.1   | 1.2       |
| 170°-180° | 6.7    | 0.4       |
| 0°-30°    | 395.8  | 22.8      |
| 0°-40°    | 636.9  | 36.7      |
| 0°-60°    | 1093.2 | 63.0      |
| 0°-90°    | 1361.4 | 78.4      |
| 90°-120°  | 100.4  | 5.8       |
| 90°-150°  | 308.3  | 17.8      |
| 90°-180°  | 375.0  | 21.6      |
| 0°-180°   | 1736.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 524 | 524   | 524 | 524   | 524 |      |
| 5°   | 525 | 522   | 518 | 521   | 521 | 50   |
| 15°  | 497 | 497   | 494 | 496   | 495 | 140  |
| 25°  | 453 | 450   | 446 | 449   | 445 | 208  |
| 35°  | 390 | 389   | 384 | 383   | 383 | 244  |
| 45°  | 319 | 318   | 314 | 312   | 308 | 246  |
| 55°  | 243 | 243   | 239 | 235   | 235 | 217  |
| 65°  | 165 | 165   | 162 | 159   | 158 | 163  |
| 75°  | 85  | 84    | 82  | 82    | 80  | 90   |
| 85°  | 15  | 16    | 16  | 16    | 16  | 19   |
| 90°  | 0   | 0     | 0   | 0     | 0   | 1    |
| 95°  | 9   | 8     | 8   | 9     | 9   | 9    |
| 105° | 26  | 42    | 27  | 27    | 26  | 28   |
| 115° | 42  | 82    | 65  | 50    | 46  | 42   |
| 125° | 54  | 86    | 94  | 87    | 87  | 48   |
| 135° | 62  | 77    | 110 | 110   | 106 | 48   |
| 145° | 66  | 75    | 98  | 116   | 120 | 42   |
| 155° | 68  | 73    | 82  | 93    | 99  | 31   |
| 165° | 69  | 70    | 74  | 77    | 79  | 19   |
| 175° | 69  | 70    | 69  | 70    | 70  | 7    |
| 180° | 69  | 69    | 69  | 69    | 69  |      |



TEST NUMBER: P253409

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 524.3 | 524.3 | 524.3 | 524.3 | 524.3 |
| 2.5°   | 527.7 | 524.3 | 520.0 | 523.4 | 525.1 |
| 5°     | 525.1 | 521.7 | 518.3 | 520.9 | 520.9 |
| 7.5°   | 519.2 | 518.3 | 514.1 | 517.5 | 515.8 |
| 10°    | 513.2 | 512.4 | 509.8 | 512.4 | 509.8 |
| 12.5°  | 505.6 | 504.7 | 503.0 | 506.4 | 503.0 |
| 15°    | 497.1 | 497.1 | 494.5 | 496.2 | 495.4 |
| 17.5°  | 487.8 | 487.8 | 484.4 | 486.1 | 486.9 |
| 20°    | 477.6 | 475.9 | 472.5 | 474.2 | 475.0 |
| 22.5°  | 465.7 | 464.0 | 459.7 | 461.4 | 458.9 |
| 25°    | 452.9 | 450.4 | 446.1 | 448.7 | 445.3 |
| 27.5°  | 439.3 | 435.1 | 433.4 | 434.2 | 430.8 |
| 30°    | 421.5 | 420.6 | 418.9 | 417.2 | 414.7 |
| 32.5°  | 406.2 | 405.3 | 401.1 | 399.4 | 399.4 |
| 35°    | 390.0 | 389.2 | 384.1 | 383.2 | 383.2 |
| 37.5°  | 374.7 | 372.2 | 366.2 | 365.4 | 364.5 |
| 40°    | 355.2 | 354.3 | 349.2 | 347.5 | 345.0 |
| 42.5°  | 336.5 | 335.6 | 332.2 | 329.7 | 326.3 |
| 45°    | 318.7 | 317.8 | 314.4 | 311.9 | 308.5 |
| 47.5°  | 300.0 | 300.8 | 296.6 | 292.3 | 290.6 |
| 50°    | 281.3 | 282.1 | 277.0 | 273.6 | 272.8 |
| 52.5°  | 261.7 | 262.6 | 257.5 | 254.1 | 254.1 |
| 55°    | 243.0 | 243.0 | 238.8 | 235.4 | 235.4 |
| 57.5°  | 223.5 | 223.5 | 219.2 | 216.7 | 215.8 |
| 60°    | 203.9 | 203.1 | 200.5 | 198.0 | 196.3 |
| 62.5°  | 184.4 | 184.4 | 181.0 | 178.4 | 176.7 |
| 65°    | 164.8 | 164.8 | 161.5 | 158.9 | 158.1 |
| 67.5°  | 144.5 | 145.3 | 141.9 | 139.4 | 138.5 |
| 70°    | 124.1 | 124.1 | 122.4 | 119.0 | 119.0 |
| 72.5°  | 105.4 | 103.7 | 102.8 | 100.3 | 100.3 |
| 75°    | 85.0  | 84.1  | 82.4  | 81.6  | 79.9  |
| 77.5°  | 65.4  | 65.4  | 63.7  | 62.9  | 62.0  |
| 80°    | 46.7  | 48.4  | 46.7  | 45.9  | 44.2  |
| 82.5°  | 29.7  | 31.4  | 30.6  | 28.9  | 28.9  |
| 85°    | 15.3  | 16.1  | 16.1  | 16.1  | 16.1  |
| 87.5°  | 5.1   | 5.9   | 6.8   | 6.8   | 6.8   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 5.1   | 5.1   | 6.8   | 6.8   | 6.8   |
| 95°    | 9.3   | 8.5   | 8.5   | 9.3   | 9.3   |
| 97.5°  | 13.6  | 13.6  | 11.0  | 11.0  | 11.0  |
| 100°   | 17.8  | 22.1  | 17.0  | 13.6  | 13.6  |
| 102.5° | 22.1  | 31.4  | 22.1  | 18.7  | 17.0  |
| 105°   | 26.3  | 41.6  | 27.2  | 27.2  | 25.5  |
| 107.5° | 30.6  | 50.1  | 34.8  | 28.0  | 28.9  |
| 110°   | 34.8  | 62.0  | 43.3  | 34.8  | 33.1  |



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CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 39.1 | 73.9  | 54.4  | 41.6  | 39.1  |
| 115°   | 42.5 | 82.4  | 65.4  | 50.1  | 45.9  |
| 117.5° | 45.9 | 86.7  | 73.1  | 61.2  | 55.2  |
| 120°   | 49.3 | 88.4  | 79.0  | 71.4  | 66.3  |
| 122.5° | 51.8 | 88.4  | 84.1  | 81.6  | 76.5  |
| 125°   | 54.4 | 85.8  | 93.5  | 86.7  | 86.7  |
| 127.5° | 56.1 | 83.3  | 101.1 | 91.8  | 90.9  |
| 130°   | 58.6 | 80.7  | 107.1 | 94.3  | 95.2  |
| 132.5° | 60.3 | 78.2  | 110.5 | 102.8 | 98.6  |
| 135°   | 62.0 | 77.3  | 110.5 | 110.5 | 106.2 |
| 137.5° | 63.7 | 76.5  | 109.6 | 116.4 | 113.9 |
| 140°   | 65.4 | 76.5  | 107.1 | 119.0 | 119.8 |
| 142.5° | 66.3 | 75.6  | 102.8 | 119.0 | 121.5 |
| 145°   | 66.3 | 74.8  | 97.7  | 116.4 | 119.8 |
| 147.5° | 67.1 | 73.9  | 91.8  | 112.2 | 117.3 |
| 150°   | 67.1 | 73.9  | 87.5  | 107.1 | 113.0 |
| 152.5° | 67.1 | 73.1  | 84.1  | 99.4  | 106.2 |
| 155°   | 68.0 | 73.1  | 81.6  | 92.6  | 98.6  |
| 157.5° | 68.0 | 72.2  | 79.0  | 87.5  | 91.8  |
| 160°   | 68.0 | 71.4  | 77.3  | 83.3  | 85.8  |
| 162.5° | 68.8 | 70.5  | 75.6  | 79.9  | 81.6  |
| 165°   | 68.8 | 70.5  | 73.9  | 77.3  | 79.0  |
| 167.5° | 68.8 | 69.7  | 73.1  | 75.6  | 76.5  |
| 170°   | 68.8 | 69.7  | 71.4  | 73.1  | 73.9  |
| 172.5° | 68.8 | 69.7  | 69.7  | 71.4  | 72.2  |
| 175°   | 68.8 | 69.7  | 68.8  | 70.5  | 70.5  |
| 177.5° | 68.8 | 68.8  | 68.8  | 68.8  | 68.8  |
| 180°   | 68.8 | 68.8  | 68.8  | 68.8  | 68.8  |

(END OF REPORT)