

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: P274871

Luminaire Tested: **J2-WL-20L92765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274871  
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-20L92765-1D-UNV-W2A-W-4 (2700K)  
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 2700K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1601.8 lumens  
Efficiency: N/A  
Efficacy: 94.2 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

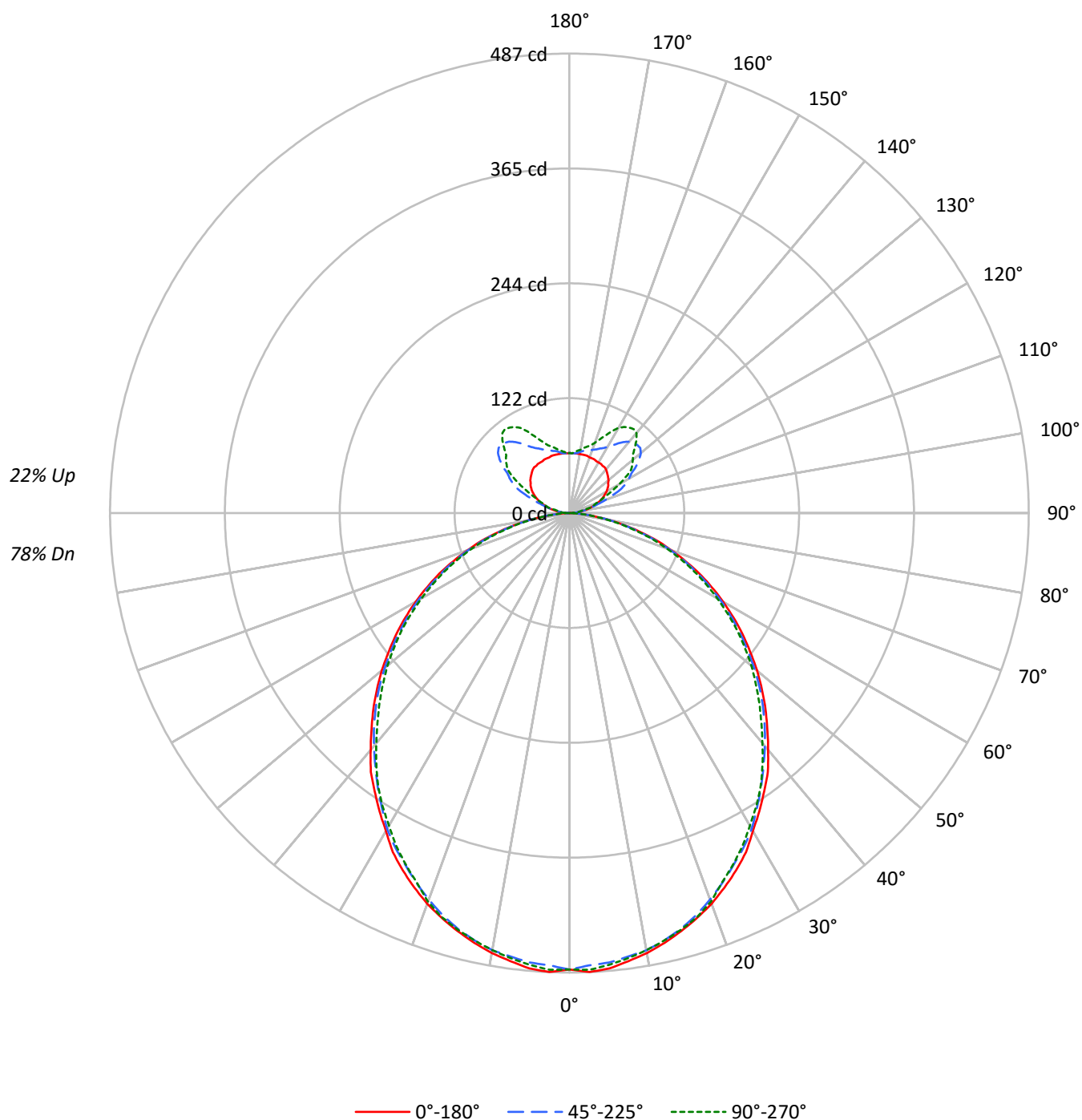
Input Watts (W): 17  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 3905 | 3905 | 3905 |
| 5°  | 3926 | 3875 | 3895 |
| 10° | 3882 | 3856 | 3856 |
| 15° | 3833 | 3814 | 3820 |
| 20° | 3785 | 3745 | 3765 |
| 25° | 3722 | 3666 | 3659 |
| 30° | 3625 | 3603 | 3567 |
| 35° | 3547 | 3493 | 3485 |
| 40° | 3453 | 3395 | 3354 |
| 45° | 3357 | 3312 | 3249 |
| 50° | 3259 | 3210 | 3161 |
| 55° | 3156 | 3101 | 3057 |
| 60° | 3039 | 2987 | 2924 |
| 65° | 2905 | 2846 | 2785 |
| 70° | 2703 | 2665 | 2592 |
| 75° | 2445 | 2371 | 2299 |
| 80° | 2004 | 2004 | 1897 |
| 85° | 1306 | 1380 | 1380 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.6   | 2.8       |
| 10°-20°   | 129.0  | 8.1       |
| 20°-30°   | 190.6  | 11.9      |
| 30°-40°   | 222.5  | 13.9      |
| 40°-50°   | 223.8  | 14.0      |
| 50°-60°   | 197.2  | 12.3      |
| 60°-70°   | 147.4  | 9.2       |
| 70°-80°   | 81.0   | 5.1       |
| 80°-90°   | 19.0   | 1.2       |
| 90°-100°  | 8.9    | 0.6       |
| 100°-110° | 29.1   | 1.8       |
| 110°-120° | 54.7   | 3.4       |
| 120°-130° | 68.8   | 4.3       |
| 130°-140° | 67.9   | 4.2       |
| 140°-150° | 55.2   | 3.4       |
| 150°-160° | 35.6   | 2.2       |
| 160°-170° | 19.4   | 1.2       |
| 170°-180° | 6.2    | 0.4       |
| 0°-30°    | 365.2  | 22.8      |
| 0°-40°    | 587.7  | 36.7      |
| 0°-60°    | 1008.6 | 63.0      |
| 0°-90°    | 1256.1 | 78.4      |
| 90°-120°  | 92.7   | 5.8       |
| 90°-150°  | 284.5  | 17.8      |
| 90°-180°  | 346.0  | 21.6      |
| 0°-180°   | 1601.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 484 | 484   | 484 | 484   | 484 |      |
| 5°   | 484 | 481   | 478 | 481   | 481 | 46   |
| 15°  | 459 | 459   | 456 | 458   | 457 | 129  |
| 25°  | 418 | 416   | 412 | 414   | 411 | 192  |
| 35°  | 360 | 359   | 354 | 354   | 354 | 225  |
| 45°  | 294 | 293   | 290 | 288   | 285 | 227  |
| 55°  | 224 | 224   | 220 | 217   | 217 | 200  |
| 65°  | 152 | 152   | 149 | 147   | 146 | 150  |
| 75°  | 78  | 78    | 76  | 75    | 74  | 83   |
| 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    | 24  | 26   |
| 115° | 39  | 76    | 60  | 46    | 42  | 39   |
| 125° | 50  | 79    | 86  | 80    | 80  | 45   |
| 135° | 57  | 71    | 102 | 102   | 98  | 44   |
| 145° | 61  | 69    | 90  | 107   | 110 | 39   |
| 155° | 63  | 67    | 75  | 86    | 91  | 29   |
| 165° | 64  | 65    | 68  | 71    | 73  | 18   |
| 175° | 64  | 64    | 64  | 65    | 65  | 6    |
| 180° | 64  | 64    | 64  | 64    | 64  |      |



TEST NUMBER: P274871

CATALOG NUMBER: J2-WL-20L92765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 483.7 | 483.7 | 483.7 | 483.7 | 483.7 |
| 2.5°   | 486.9 | 483.7 | 479.8 | 482.9 | 484.5 |
| 5°     | 484.5 | 481.4 | 478.2 | 480.6 | 480.6 |
| 7.5°   | 479.0 | 478.2 | 474.3 | 477.5 | 475.9 |
| 10°    | 473.5 | 472.8 | 470.4 | 472.8 | 470.4 |
| 12.5°  | 466.5 | 465.7 | 464.1 | 467.3 | 464.1 |
| 15°    | 458.6 | 458.6 | 456.3 | 457.9 | 457.1 |
| 17.5°  | 450.0 | 450.0 | 446.9 | 448.4 | 449.2 |
| 20°    | 440.6 | 439.0 | 435.9 | 437.5 | 438.3 |
| 22.5°  | 429.6 | 428.1 | 424.1 | 425.7 | 423.4 |
| 25°    | 417.9 | 415.5 | 411.6 | 414.0 | 410.8 |
| 27.5°  | 405.3 | 401.4 | 399.8 | 400.6 | 397.5 |
| 30°    | 388.9 | 388.1 | 386.5 | 384.9 | 382.6 |
| 32.5°  | 374.8 | 374.0 | 370.0 | 368.5 | 368.5 |
| 35°    | 359.9 | 359.1 | 354.4 | 353.6 | 353.6 |
| 37.5°  | 345.7 | 343.4 | 337.9 | 337.1 | 336.3 |
| 40°    | 327.7 | 326.9 | 322.2 | 320.7 | 318.3 |
| 42.5°  | 310.5 | 309.7 | 306.5 | 304.2 | 301.1 |
| 45°    | 294.0 | 293.2 | 290.1 | 287.7 | 284.6 |
| 47.5°  | 276.8 | 277.5 | 273.6 | 269.7 | 268.1 |
| 50°    | 259.5 | 260.3 | 255.6 | 252.4 | 251.7 |
| 52.5°  | 241.5 | 242.3 | 237.6 | 234.4 | 234.4 |
| 55°    | 224.2 | 224.2 | 220.3 | 217.2 | 217.2 |
| 57.5°  | 206.2 | 206.2 | 202.3 | 199.9 | 199.1 |
| 60°    | 188.2 | 187.4 | 185.0 | 182.7 | 181.1 |
| 62.5°  | 170.1 | 170.1 | 167.0 | 164.6 | 163.1 |
| 65°    | 152.1 | 152.1 | 149.0 | 146.6 | 145.8 |
| 67.5°  | 133.3 | 134.1 | 130.9 | 128.6 | 127.8 |
| 70°    | 114.5 | 114.5 | 112.9 | 109.8 | 109.8 |
| 72.5°  | 97.2  | 95.6  | 94.9  | 92.5  | 92.5  |
| 75°    | 78.4  | 77.6  | 76.0  | 75.3  | 73.7  |
| 77.5°  | 60.4  | 60.4  | 58.8  | 58.0  | 57.2  |
| 80°    | 43.1  | 44.7  | 43.1  | 42.3  | 40.8  |
| 82.5°  | 27.4  | 29.0  | 28.2  | 26.7  | 26.7  |
| 85°    | 14.1  | 14.9  | 14.9  | 14.9  | 14.9  |
| 87.5°  | 4.7   | 5.5   | 6.3   | 6.3   | 6.3   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 4.7   | 4.7   | 6.3   | 6.3   | 6.3   |
| 95°    | 8.6   | 7.8   | 7.8   | 8.6   | 8.6   |
| 97.5°  | 12.5  | 12.5  | 10.2  | 10.2  | 10.2  |
| 100°   | 16.5  | 20.4  | 15.7  | 12.5  | 12.5  |
| 102.5° | 20.4  | 29.0  | 20.4  | 17.2  | 15.7  |
| 105°   | 24.3  | 38.4  | 25.1  | 25.1  | 23.5  |
| 107.5° | 28.2  | 46.3  | 32.1  | 25.9  | 26.7  |
| 110°   | 32.1  | 57.2  | 40.0  | 32.1  | 30.6  |



TEST NUMBER: P274871

CATALOG NUMBER: J2-WL-20L92765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 36.1 | 68.2  | 50.2  | 38.4  | 36.1  |
| 115°   | 39.2 | 76.0  | 60.4  | 46.3  | 42.3  |
| 117.5° | 42.3 | 80.0  | 67.4  | 56.4  | 51.0  |
| 120°   | 45.5 | 81.5  | 72.9  | 65.9  | 61.2  |
| 122.5° | 47.8 | 81.5  | 77.6  | 75.3  | 70.6  |
| 125°   | 50.2 | 79.2  | 86.2  | 80.0  | 80.0  |
| 127.5° | 51.7 | 76.8  | 93.3  | 84.7  | 83.9  |
| 130°   | 54.1 | 74.5  | 98.8  | 87.0  | 87.8  |
| 132.5° | 55.7 | 72.1  | 101.9 | 94.9  | 90.9  |
| 135°   | 57.2 | 71.3  | 101.9 | 101.9 | 98.0  |
| 137.5° | 58.8 | 70.6  | 101.1 | 107.4 | 105.1 |
| 140°   | 60.4 | 70.6  | 98.8  | 109.8 | 110.5 |
| 142.5° | 61.2 | 69.8  | 94.9  | 109.8 | 112.1 |
| 145°   | 61.2 | 69.0  | 90.2  | 107.4 | 110.5 |
| 147.5° | 61.9 | 68.2  | 84.7  | 103.5 | 108.2 |
| 150°   | 61.9 | 68.2  | 80.8  | 98.8  | 104.3 |
| 152.5° | 61.9 | 67.4  | 77.6  | 91.7  | 98.0  |
| 155°   | 62.7 | 67.4  | 75.3  | 85.5  | 90.9  |
| 157.5° | 62.7 | 66.6  | 72.9  | 80.8  | 84.7  |
| 160°   | 62.7 | 65.9  | 71.3  | 76.8  | 79.2  |
| 162.5° | 63.5 | 65.1  | 69.8  | 73.7  | 75.3  |
| 165°   | 63.5 | 65.1  | 68.2  | 71.3  | 72.9  |
| 167.5° | 63.5 | 64.3  | 67.4  | 69.8  | 70.6  |
| 170°   | 63.5 | 64.3  | 65.9  | 67.4  | 68.2  |
| 172.5° | 63.5 | 64.3  | 64.3  | 65.9  | 66.6  |
| 175°   | 63.5 | 64.3  | 63.5  | 65.1  | 65.1  |
| 177.5° | 63.5 | 63.5  | 63.5  | 63.5  | 63.5  |
| 180°   | 63.5 | 63.5  | 63.5  | 63.5  | 63.5  |

(END OF REPORT)