

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: P275215

Luminaire Tested: **J3-UL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-50L82765-1D-UNV-W2A-W-4 (2700K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4599.7 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

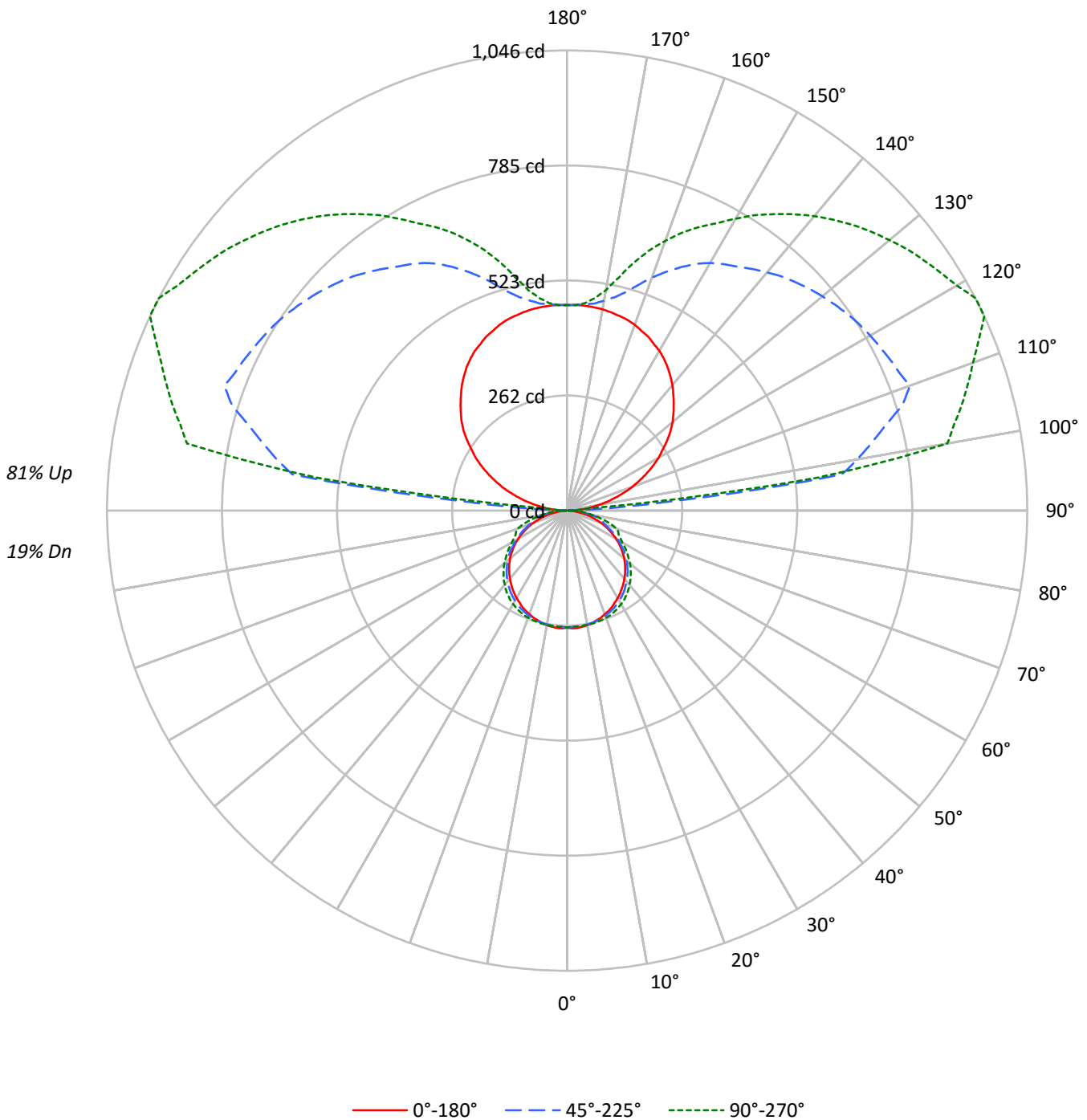
Input Watts (W): 35.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 28 | 28 | 28 | 19 |
| 1   | 91  | 86  | 83  | 79  | 80 | 76 | 73 | 70 | 57 | 55 | 53 | 40 | 39 | 38 | 24 | 23 | 23 | 15 |
| 2   | 82  | 75  | 69  | 64  | 72 | 66 | 61 | 57 | 50 | 47 | 44 | 35 | 33 | 31 | 21 | 20 | 19 | 13 |
| 3   | 75  | 66  | 59  | 53  | 66 | 58 | 52 | 47 | 44 | 40 | 37 | 31 | 28 | 26 | 18 | 17 | 16 | 10 |
| 4   | 68  | 58  | 50  | 45  | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 16 | 15 | 13 | 9  |
| 5   | 62  | 51  | 44  | 38  | 55 | 45 | 39 | 34 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 12 | 8  |
| 6   | 57  | 46  | 38  | 32  | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 16 | 13 | 11 | 10 | 7  |
| 7   | 53  | 41  | 33  | 28  | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 20 | 16 | 14 | 12 | 10 | 9  | 6  |
| 8   | 49  | 37  | 30  | 25  | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9  | 8  | 5  |
| 9   | 45  | 34  | 26  | 22  | 40 | 30 | 24 | 20 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8  | 7  | 5  |
| 10  | 42  | 31  | 24  | 19  | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 9  | 7  | 6  | 4  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2149 | 2149 | 2149 |
| 5°  | 2171 | 2148 | 2143 |
| 10° | 2167 | 2153 | 2163 |
| 15° | 2157 | 2167 | 2191 |
| 20° | 2153 | 2183 | 2228 |
| 25° | 2150 | 2197 | 2258 |
| 30° | 2143 | 2207 | 2288 |
| 35° | 2135 | 2214 | 2311 |
| 40° | 2131 | 2216 | 2326 |
| 45° | 2132 | 2217 | 2335 |
| 50° | 2128 | 2214 | 2337 |
| 55° | 2108 | 2206 | 2335 |
| 60° | 2075 | 2167 | 2335 |
| 65° | 2013 | 2145 | 2466 |
| 70° | 1931 | 2148 | 2802 |
| 75° | 1778 | 2461 | 2823 |
| 80° | 1553 | 2492 | 2757 |
| 85° | 1232 | 2825 | 3149 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.3   | 0.6       |
| 10°-20°   | 73.6   | 1.6       |
| 20°-30°   | 114.1  | 2.5       |
| 30°-40°   | 141.1  | 3.1       |
| 40°-50°   | 150.5  | 3.3       |
| 50°-60°   | 140.2  | 3.0       |
| 60°-70°   | 114.2  | 2.5       |
| 70°-80°   | 78.6   | 1.7       |
| 80°-90°   | 30.9   | 0.7       |
| 90°-100°  | 271.3  | 5.9       |
| 100°-110° | 694.6  | 15.1      |
| 110°-120° | 718.9  | 15.6      |
| 120°-130° | 640.4  | 13.9      |
| 130°-140° | 533.3  | 11.6      |
| 140°-150° | 406.0  | 8.8       |
| 150°-160° | 273.1  | 5.9       |
| 160°-170° | 148.0  | 3.2       |
| 170°-180° | 45.4   | 1.0       |
| 0°-30°    | 213.0  | 4.6       |
| 0°-40°    | 354.1  | 7.7       |
| 0°-60°    | 644.9  | 14.0      |
| 0°-90°    | 868.7  | 18.9      |
| 90°-120°  | 1684.8 | 36.6      |
| 90°-150°  | 3264.6 | 71.0      |
| 90°-180°  | 3731.0 | 81.1      |
| 0°-180°   | 4599.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 266 | 266   | 266 | 266   | 266  |      |
| 5°   | 268 | 267   | 265 | 266   | 264  | 25   |
| 15°  | 258 | 260   | 259 | 262   | 262  | 73   |
| 25°  | 241 | 244   | 247 | 252   | 254  | 111  |
| 35°  | 217 | 220   | 225 | 232   | 234  | 136  |
| 45°  | 187 | 190   | 194 | 201   | 204  | 144  |
| 55°  | 150 | 152   | 157 | 162   | 166  | 134  |
| 65°  | 105 | 108   | 112 | 123   | 129  | 104  |
| 75°  | 57  | 60    | 79  | 88    | 90   | 60   |
| 85°  | 13  | 24    | 30  | 34    | 34   | 15   |
| 90°  | 2   | 3     | 3   | 2     | 2    | 4    |
| 95°  | 39  | 302   | 222 | 37    | 37   | 38   |
| 105° | 114 | 479   | 749 | 881   | 929  | 121  |
| 115° | 199 | 496   | 811 | 1002  | 1046 | 197  |
| 125° | 277 | 506   | 778 | 937   | 991  | 248  |
| 135° | 343 | 520   | 734 | 872   | 918  | 265  |
| 145° | 398 | 510   | 676 | 786   | 823  | 249  |
| 155° | 436 | 485   | 610 | 688   | 712  | 201  |
| 165° | 458 | 471   | 514 | 564   | 583  | 130  |
| 175° | 467 | 468   | 471 | 472   | 474  | 45   |
| 180° | 467 | 467   | 467 | 467   | 467  |      |



TEST NUMBER: P275215

CATALOG NUMBER: J3-UL-50L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 |
| 2.5°   | 267.9 | 267.3 | 265.0 | 265.6 | 264.4 |
| 5°     | 267.9 | 266.8 | 265.0 | 265.6 | 264.4 |
| 7.5°   | 266.2 | 265.6 | 263.9 | 265.0 | 264.4 |
| 10°    | 264.4 | 263.9 | 262.7 | 264.4 | 263.9 |
| 12.5°  | 262.1 | 262.1 | 261.6 | 263.3 | 263.3 |
| 15°    | 258.1 | 259.8 | 259.3 | 262.1 | 262.1 |
| 17.5°  | 255.2 | 256.4 | 257.0 | 260.4 | 261.0 |
| 20°    | 250.6 | 252.9 | 254.1 | 257.5 | 259.3 |
| 22.5°  | 246.6 | 248.9 | 250.6 | 255.2 | 257.0 |
| 25°    | 241.4 | 243.7 | 246.6 | 251.8 | 253.5 |
| 27.5°  | 235.1 | 239.1 | 242.0 | 248.3 | 250.0 |
| 30°    | 229.9 | 232.8 | 236.8 | 243.1 | 245.4 |
| 32.5°  | 223.5 | 227.0 | 231.0 | 237.9 | 240.8 |
| 35°    | 216.6 | 220.1 | 224.7 | 232.2 | 234.5 |
| 37.5°  | 209.7 | 212.6 | 217.8 | 225.3 | 228.2 |
| 40°    | 202.2 | 205.1 | 210.3 | 218.4 | 220.7 |
| 42.5°  | 194.7 | 197.6 | 202.8 | 210.3 | 213.2 |
| 45°    | 186.7 | 189.6 | 194.2 | 201.1 | 204.5 |
| 47.5°  | 178.0 | 180.9 | 185.5 | 192.4 | 195.9 |
| 50°    | 169.4 | 171.7 | 176.3 | 182.6 | 186.1 |
| 52.5°  | 159.6 | 161.9 | 166.5 | 172.3 | 175.7 |
| 55°    | 149.8 | 152.1 | 156.7 | 161.9 | 165.9 |
| 57.5°  | 139.4 | 141.7 | 145.2 | 150.9 | 155.6 |
| 60°    | 128.5 | 130.8 | 134.2 | 140.6 | 144.6 |
| 62.5°  | 117.0 | 119.3 | 123.3 | 130.2 | 136.5 |
| 65°    | 105.4 | 107.7 | 112.3 | 122.7 | 129.1 |
| 67.5°  | 93.9  | 96.2  | 100.2 | 115.2 | 125.6 |
| 70°    | 81.8  | 84.1  | 91.0  | 111.8 | 118.7 |
| 72.5°  | 69.1  | 72.6  | 84.1  | 103.1 | 106.0 |
| 75°    | 57.0  | 60.5  | 78.9  | 88.1  | 90.5  |
| 77.5°  | 44.4  | 49.5  | 68.6  | 72.6  | 73.7  |
| 80°    | 33.4  | 40.9  | 53.6  | 58.8  | 59.3  |
| 82.5°  | 22.5  | 35.1  | 41.5  | 44.9  | 44.9  |
| 85°    | 13.3  | 24.2  | 30.5  | 34.0  | 34.0  |
| 87.5°  | 7.5   | 16.1  | 22.5  | 26.5  | 25.9  |
| 90°    | 1.7   | 2.9   | 2.9   | 2.3   | 2.3   |
| 92.5°  | 20.7  | 56.5  | 18.4  | 17.3  | 17.3  |
| 95°    | 38.6  | 301.9 | 222.4 | 37.4  | 37.4  |
| 97.5°  | 53.6  | 367.0 | 629.7 | 762.2 | 573.3 |
| 100°   | 73.2  | 440.2 | 670.1 | 825.6 | 877.5 |
| 102.5° | 92.2  | 467.3 | 708.1 | 848.7 | 900.5 |
| 105°   | 114.1 | 479.3 | 749.0 | 880.9 | 928.7 |
| 107.5° | 135.4 | 486.3 | 799.1 | 909.2 | 955.2 |
| 110°   | 157.3 | 489.7 | 829.1 | 942.0 | 981.7 |



TEST NUMBER: P275215

CATALOG NUMBER: J3-UL-50L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 177.5 | 492.6 | 817.5 | 980.0  | 1012.3 |
| 115°   | 198.8 | 495.5 | 810.6 | 1001.9 | 1046.3 |
| 117.5° | 219.5 | 497.2 | 802.6 | 979.4  | 1046.3 |
| 120°   | 240.3 | 500.1 | 795.7 | 964.5  | 1022.7 |
| 122.5° | 257.5 | 503.5 | 787.6 | 951.2  | 1006.5 |
| 125°   | 277.1 | 506.4 | 778.4 | 936.8  | 991.0  |
| 127.5° | 296.1 | 509.3 | 768.0 | 921.8  | 975.4  |
| 130°   | 312.8 | 515.6 | 757.6 | 906.8  | 956.4  |
| 132.5° | 327.8 | 519.1 | 746.1 | 889.0  | 938.0  |
| 135°   | 342.8 | 520.3 | 734.0 | 871.7  | 918.4  |
| 137.5° | 357.2 | 519.7 | 721.9 | 852.1  | 896.5  |
| 140°   | 372.2 | 518.0 | 706.9 | 831.9  | 874.0  |
| 142.5° | 385.4 | 514.5 | 691.9 | 809.5  | 848.7  |
| 145°   | 398.1 | 510.5 | 676.4 | 785.9  | 822.7  |
| 147.5° | 409.1 | 504.1 | 664.3 | 760.5  | 796.2  |
| 150°   | 419.4 | 497.2 | 649.9 | 734.6  | 766.3  |
| 152.5° | 426.9 | 490.9 | 632.0 | 709.8  | 736.3  |
| 155°   | 436.1 | 485.1 | 610.1 | 687.9  | 711.5  |
| 157.5° | 441.9 | 480.5 | 587.1 | 660.8  | 683.9  |
| 160°   | 449.4 | 477.0 | 563.5 | 631.5  | 652.8  |
| 162.5° | 454.6 | 473.6 | 537.5 | 598.6  | 619.4  |
| 165°   | 458.0 | 470.7 | 513.9 | 564.0  | 583.1  |
| 167.5° | 461.5 | 469.6 | 496.6 | 527.7  | 542.7  |
| 170°   | 464.4 | 468.4 | 484.5 | 500.7  | 508.7  |
| 172.5° | 466.1 | 467.8 | 474.7 | 483.4  | 487.4  |
| 175°   | 467.3 | 467.8 | 470.7 | 472.4  | 473.6  |
| 177.5° | 467.8 | 467.8 | 467.8 | 467.3  | 467.8  |
| 180°   | 467.3 | 467.3 | 467.3 | 467.3  | 467.3  |

(END OF REPORT)