

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: P253461

Luminaire Tested: **J3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5095.0 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

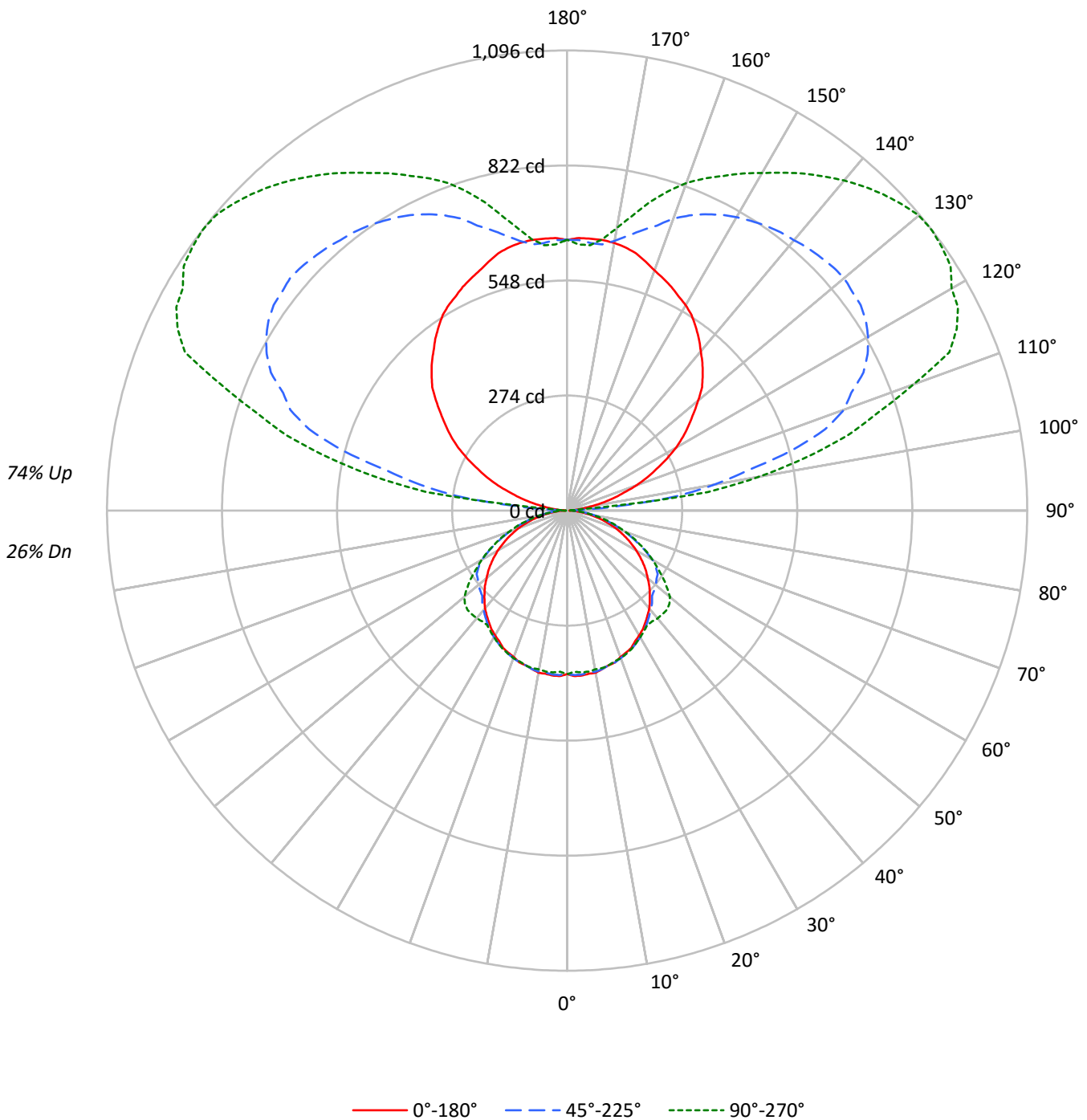
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1   | 92  | 88  | 84  | 80  | 82 | 78 | 75 | 72 | 61 | 58 | 56 | 44 | 43 | 42 | 29 | 28 | 28 | 21 |
| 2   | 84  | 76  | 70  | 65  | 74 | 68 | 63 | 59 | 53 | 49 | 46 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |
| 3   | 76  | 67  | 60  | 54  | 67 | 60 | 54 | 49 | 46 | 42 | 38 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |
| 4   | 69  | 59  | 51  | 45  | 61 | 53 | 46 | 41 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 16 | 12 |
| 5   | 63  | 52  | 44  | 38  | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 27 | 23 | 21 | 18 | 16 | 14 | 10 |
| 6   | 58  | 46  | 39  | 33  | 52 | 42 | 35 | 30 | 32 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  |
| 7   | 54  | 42  | 34  | 29  | 48 | 37 | 31 | 26 | 29 | 24 | 21 | 22 | 18 | 16 | 14 | 12 | 11 | 8  |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 26 | 22 | 18 | 20 | 16 | 14 | 13 | 11 | 9  | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 8  | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3144 | 3144 | 3144 |
| 5°  | 3197 | 3177 | 3135 |
| 10° | 3213 | 3192 | 3149 |
| 15° | 3189 | 3189 | 3189 |
| 20° | 3190 | 3212 | 3212 |
| 25° | 3216 | 3239 | 3239 |
| 30° | 3197 | 3245 | 3245 |
| 35° | 3202 | 3253 | 3278 |
| 40° | 3207 | 3261 | 3532 |
| 45° | 3180 | 3268 | 3827 |
| 50° | 3141 | 3465 | 4015 |
| 55° | 3122 | 3702 | 3920 |
| 60° | 3081 | 3789 | 3789 |
| 65° | 3005 | 3595 | 3645 |
| 70° | 2922 | 3408 | 3470 |
| 75° | 2735 | 3216 | 3297 |
| 80° | 2520 | 3115 | 2999 |
| 85° | 2390 | 3344 | 2862 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.1   | 0.7       |
| 10°-20°   | 107.8  | 2.1       |
| 20°-30°   | 166.5  | 3.3       |
| 30°-40°   | 206.6  | 4.1       |
| 40°-50°   | 231.2  | 4.5       |
| 50°-60°   | 225.9  | 4.4       |
| 60°-70°   | 178.2  | 3.5       |
| 70°-80°   | 107.8  | 2.1       |
| 80°-90°   | 38.4   | 0.8       |
| 90°-100°  | 132.3  | 2.6       |
| 100°-110° | 511.8  | 10.0      |
| 110°-120° | 703.3  | 13.8      |
| 120°-130° | 711.5  | 14.0      |
| 130°-140° | 630.6  | 12.4      |
| 140°-150° | 498.8  | 9.8       |
| 150°-160° | 348.2  | 6.8       |
| 160°-170° | 197.1  | 3.9       |
| 170°-180° | 61.8   | 1.2       |
| 0°-30°    | 311.4  | 6.1       |
| 0°-40°    | 518.0  | 10.2      |
| 0°-60°    | 975.1  | 19.1      |
| 0°-90°    | 1299.5 | 25.5      |
| 90°-120°  | 1347.5 | 26.4      |
| 90°-150°  | 3188.4 | 62.6      |
| 90°-180°  | 3795.0 | 74.5      |
| 0°-180°   | 5095.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 389 | 389   | 389 | 389   | 389  |      |
| 5°   | 394 | 389   | 392 | 389   | 387  | 38   |
| 15°  | 382 | 379   | 382 | 382   | 382  | 108  |
| 25°  | 361 | 356   | 364 | 364   | 364  | 166  |
| 35°  | 325 | 325   | 330 | 333   | 333  | 203  |
| 45°  | 278 | 281   | 286 | 322   | 335  | 215  |
| 55°  | 222 | 224   | 263 | 278   | 278  | 198  |
| 65°  | 157 | 165   | 188 | 191   | 191  | 155  |
| 75°  | 88  | 103   | 103 | 106   | 106  | 93   |
| 85°  | 26  | 41    | 36  | 34    | 31   | 27   |
| 90°  | 5   | 16    | 13  | 3     | 3    | 5    |
| 95°  | 21  | 103   | 124 | 26    | 26   | 26   |
| 105° | 114 | 366   | 554 | 640   | 691  | 121  |
| 115° | 235 | 495   | 779 | 964   | 1024 | 234  |
| 125° | 353 | 572   | 854 | 1039  | 1091 | 316  |
| 135° | 456 | 629   | 854 | 1021  | 1065 | 352  |
| 145° | 534 | 645   | 828 | 949   | 980  | 334  |
| 155° | 588 | 629   | 779 | 864   | 879  | 271  |
| 165° | 634 | 632   | 691 | 750   | 761  | 178  |
| 175° | 650 | 642   | 640 | 640   | 634  | 62   |
| 180° | 645 | 645   | 645 | 645   | 645  |      |



TEST NUMBER: P253461

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 389.4 | 389.4 | 389.4 | 389.4 | 389.4 |
| 2.5°   | 394.5 | 389.4 | 392.0 | 389.4 | 384.2 |
| 5°     | 394.5 | 389.4 | 392.0 | 389.4 | 386.8 |
| 7.5°   | 392.0 | 389.4 | 389.4 | 386.8 | 386.8 |
| 10°    | 392.0 | 386.8 | 389.4 | 386.8 | 384.2 |
| 12.5°  | 386.8 | 384.2 | 386.8 | 384.2 | 384.2 |
| 15°    | 381.6 | 379.1 | 381.6 | 381.6 | 381.6 |
| 17.5°  | 379.1 | 373.9 | 379.1 | 379.1 | 376.5 |
| 20°    | 371.3 | 368.7 | 373.9 | 373.9 | 373.9 |
| 22.5°  | 366.2 | 363.6 | 368.7 | 368.7 | 368.7 |
| 25°    | 361.0 | 355.8 | 363.6 | 363.6 | 363.6 |
| 27.5°  | 350.7 | 350.7 | 355.8 | 358.4 | 355.8 |
| 30°    | 343.0 | 340.4 | 348.1 | 350.7 | 348.1 |
| 32.5°  | 335.2 | 332.6 | 340.4 | 343.0 | 340.4 |
| 35°    | 324.9 | 324.9 | 330.1 | 332.6 | 332.6 |
| 37.5°  | 314.6 | 314.6 | 319.7 | 322.3 | 332.6 |
| 40°    | 304.3 | 304.3 | 309.4 | 324.9 | 335.2 |
| 42.5°  | 291.4 | 291.4 | 299.1 | 322.3 | 335.2 |
| 45°    | 278.5 | 281.1 | 286.2 | 322.3 | 335.2 |
| 47.5°  | 265.6 | 268.2 | 281.1 | 319.7 | 330.1 |
| 50°    | 250.1 | 255.3 | 275.9 | 312.0 | 319.7 |
| 52.5°  | 237.2 | 239.8 | 268.2 | 299.1 | 299.1 |
| 55°    | 221.8 | 224.3 | 263.0 | 278.5 | 278.5 |
| 57.5°  | 206.3 | 208.9 | 250.1 | 255.3 | 255.3 |
| 60°    | 190.8 | 193.4 | 234.7 | 234.7 | 234.7 |
| 62.5°  | 172.8 | 177.9 | 211.4 | 214.0 | 214.0 |
| 65°    | 157.3 | 165.0 | 188.2 | 190.8 | 190.8 |
| 67.5°  | 139.2 | 152.1 | 167.6 | 170.2 | 170.2 |
| 70°    | 123.8 | 139.2 | 144.4 | 147.0 | 147.0 |
| 72.5°  | 105.7 | 121.2 | 123.8 | 126.4 | 126.4 |
| 75°    | 87.7  | 103.1 | 103.1 | 105.7 | 105.7 |
| 77.5°  | 69.6  | 82.5  | 85.1  | 85.1  | 85.1  |
| 80°    | 54.2  | 61.9  | 67.0  | 64.5  | 64.5  |
| 82.5°  | 38.7  | 49.0  | 49.0  | 49.0  | 46.4  |
| 85°    | 25.8  | 41.3  | 36.1  | 33.5  | 30.9  |
| 87.5°  | 15.5  | 36.1  | 20.6  | 18.1  | 18.1  |
| 90°    | 5.2   | 15.5  | 12.9  | 2.6   | 2.6   |
| 92.5°  | 10.3  | 25.8  | 12.9  | 10.3  | 7.7   |
| 95°    | 20.6  | 103.1 | 123.8 | 25.8  | 25.8  |
| 97.5°  | 38.7  | 172.8 | 265.6 | 314.6 | 337.8 |
| 100°   | 59.3  | 257.9 | 355.8 | 435.8 | 464.2 |
| 102.5° | 85.1  | 312.0 | 438.4 | 538.9 | 580.2 |
| 105°   | 113.5 | 366.2 | 554.4 | 639.5 | 691.1 |
| 107.5° | 141.8 | 407.4 | 644.7 | 740.1 | 776.2 |
| 110°   | 175.3 | 440.9 | 701.4 | 866.4 | 876.7 |



TEST NUMBER: P253461

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 206.3 | 466.7 | 732.3 | 928.3  | 985.0  |
| 115°   | 234.7 | 495.1 | 778.7 | 964.4  | 1023.7 |
| 117.5° | 268.2 | 515.7 | 807.1 | 985.0  | 1049.5 |
| 120°   | 299.1 | 533.8 | 827.7 | 1010.8 | 1057.2 |
| 122.5° | 327.5 | 554.4 | 843.2 | 1031.4 | 1083.0 |
| 125°   | 353.3 | 572.5 | 853.5 | 1039.2 | 1090.8 |
| 127.5° | 379.1 | 587.9 | 856.1 | 1041.8 | 1095.9 |
| 130°   | 407.4 | 603.4 | 861.3 | 1039.2 | 1093.3 |
| 132.5° | 435.8 | 618.9 | 858.7 | 1031.4 | 1080.4 |
| 135°   | 456.4 | 629.2 | 853.5 | 1021.1 | 1065.0 |
| 137.5° | 477.0 | 636.9 | 848.4 | 1005.7 | 1046.9 |
| 140°   | 495.1 | 642.1 | 840.6 | 987.6  | 1026.3 |
| 142.5° | 515.7 | 644.7 | 835.5 | 969.6  | 1003.1 |
| 145°   | 533.8 | 644.7 | 827.7 | 948.9  | 979.9  |
| 147.5° | 551.8 | 642.1 | 817.4 | 928.3  | 954.1  |
| 150°   | 564.7 | 636.9 | 807.1 | 907.7  | 928.3  |
| 152.5° | 575.0 | 631.8 | 794.2 | 884.5  | 905.1  |
| 155°   | 587.9 | 629.2 | 778.7 | 863.8  | 879.3  |
| 157.5° | 598.2 | 629.2 | 760.7 | 840.6  | 856.1  |
| 160°   | 608.6 | 629.2 | 740.1 | 817.4  | 830.3  |
| 162.5° | 621.4 | 629.2 | 711.7 | 783.9  | 796.8  |
| 165°   | 634.3 | 631.8 | 691.1 | 750.4  | 760.7  |
| 167.5° | 642.1 | 631.8 | 670.4 | 709.1  | 719.4  |
| 170°   | 647.2 | 636.9 | 652.4 | 680.8  | 683.3  |
| 172.5° | 649.8 | 642.1 | 639.5 | 652.4  | 652.4  |
| 175°   | 649.8 | 642.1 | 639.5 | 639.5  | 634.3  |
| 177.5° | 649.8 | 644.7 | 644.7 | 642.1  | 634.3  |
| 180°   | 644.7 | 644.7 | 644.7 | 644.7  | 644.7  |

(END OF REPORT)