

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: P275108

Luminaire Tested: **J3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.5 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

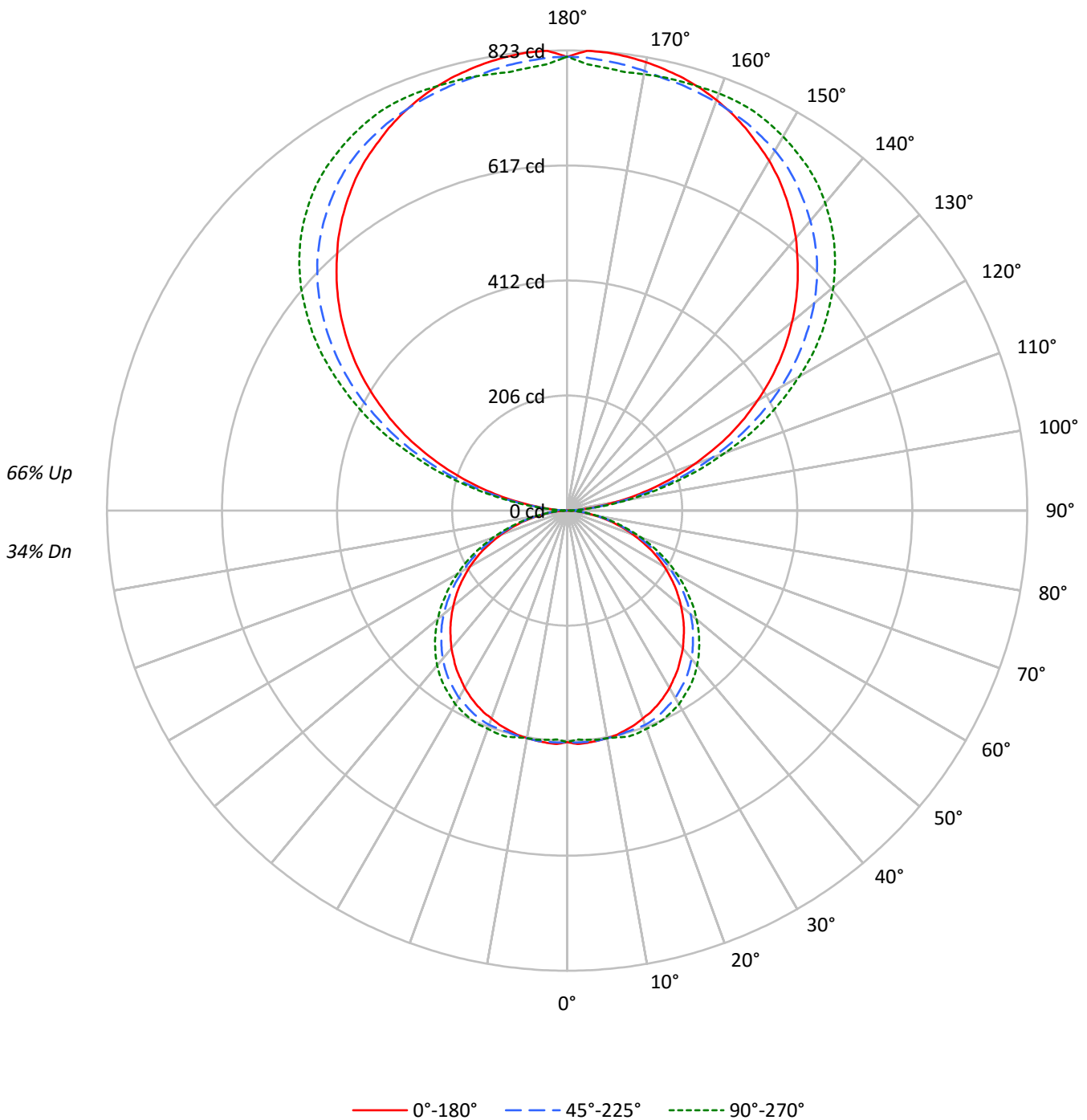
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P275108

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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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 65 | 62 | 60 | 50 | 48 | 47 | 36 | 35 | 34 | 28 |
| 2   | 85  | 78  | 72  | 67  | 77 | 71 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 56 | 51 | 50 | 45 | 41 | 38 | 35 | 33 | 28 | 26 | 24 | 19 |
| 4   | 71  | 60  | 52  | 47  | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 25 | 22 | 21 | 16 |
| 5   | 65  | 53  | 45  | 40  | 58 | 48 | 42 | 36 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |
| 6   | 60  | 48  | 40  | 34  | 53 | 43 | 36 | 31 | 35 | 30 | 26 | 27 | 23 | 21 | 20 | 17 | 15 | 12 |
| 7   | 55  | 43  | 35  | 30  | 49 | 39 | 32 | 27 | 32 | 26 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 |
| 8   | 51  | 39  | 31  | 26  | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9   | 47  | 35  | 28  | 23  | 43 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 13 | 11 | 9  |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3344 | 3344 | 3344 |
| 5°  | 3378 | 3365 | 3335 |
| 10° | 3388 | 3388 | 3388 |
| 15° | 3394 | 3425 | 3500 |
| 20° | 3399 | 3505 | 3567 |
| 25° | 3413 | 3556 | 3658 |
| 30° | 3415 | 3605 | 3730 |
| 35° | 3408 | 3635 | 3777 |
| 40° | 3392 | 3644 | 3812 |
| 45° | 3370 | 3633 | 3816 |
| 50° | 3338 | 3618 | 3797 |
| 55° | 3302 | 3567 | 3741 |
| 60° | 3242 | 3475 | 3660 |
| 65° | 3140 | 3343 | 3534 |
| 70° | 2960 | 3149 | 3314 |
| 75° | 2717 | 2885 | 3022 |
| 80° | 2357 | 2520 | 2608 |
| 85° | 1890 | 1964 | 2066 |



TEST NUMBER: P275108

CATALOG NUMBER: J3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.5   | 1.0       |
| 10°-20°   | 116.2  | 2.9       |
| 20°-30°   | 183.0  | 4.6       |
| 30°-40°   | 228.7  | 5.8       |
| 40°-50°   | 243.8  | 6.2       |
| 50°-60°   | 224.8  | 5.7       |
| 60°-70°   | 172.7  | 4.4       |
| 70°-80°   | 97.8   | 2.5       |
| 80°-90°   | 25.8   | 0.7       |
| 90°-100°  | 41.5   | 1.0       |
| 100°-110° | 195.4  | 4.9       |
| 110°-120° | 354.2  | 8.9       |
| 120°-130° | 455.0  | 11.5      |
| 130°-140° | 484.1  | 12.2      |
| 140°-150° | 445.4  | 11.2      |
| 150°-160° | 352.7  | 8.9       |
| 160°-170° | 223.9  | 5.7       |
| 170°-180° | 76.8   | 1.9       |
| 0°-30°    | 338.8  | 8.6       |
| 0°-40°    | 567.5  | 14.3      |
| 0°-60°    | 1036.1 | 26.2      |
| 0°-90°    | 1332.4 | 33.6      |
| 90°-120°  | 591.2  | 14.9      |
| 90°-150°  | 1975.7 | 49.9      |
| 90°-180°  | 2629.0 | 66.4      |
| 0°-180°   | 3961.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 414 | 414   | 414 | 414   | 414 |      |
| 5°   | 417 | 413   | 415 | 414   | 412 | 40   |
| 15°  | 406 | 404   | 410 | 417   | 419 | 115  |
| 25°  | 383 | 384   | 399 | 407   | 411 | 177  |
| 35°  | 346 | 352   | 369 | 378   | 383 | 216  |
| 45°  | 295 | 303   | 318 | 328   | 334 | 228  |
| 55°  | 235 | 242   | 253 | 262   | 266 | 209  |
| 65°  | 164 | 168   | 175 | 181   | 185 | 162  |
| 75°  | 87  | 89    | 92  | 96    | 97  | 93   |
| 85°  | 20  | 21    | 21  | 22    | 22  | 23   |
| 90°  | 1   | 1     | 1   | 0     | 0   | 3    |
| 95°  | 28  | 28    | 31  | 33    | 35  | 36   |
| 105° | 164 | 171   | 187 | 198   | 204 | 173  |
| 115° | 320 | 333   | 362 | 384   | 395 | 316  |
| 125° | 462 | 476   | 513 | 541   | 556 | 413  |
| 135° | 583 | 592   | 632 | 660   | 676 | 450  |
| 145° | 683 | 680   | 715 | 737   | 750 | 427  |
| 155° | 755 | 744   | 764 | 780   | 789 | 348  |
| 165° | 801 | 789   | 789 | 791   | 794 | 226  |
| 175° | 822 | 813   | 807 | 801   | 795 | 78   |
| 180° | 812 | 812   | 812 | 812   | 812 |      |



TEST NUMBER: P275108

CATALOG NUMBER: J3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 414.2 | 414.2 | 414.2 | 414.2 | 414.2 |
| 2.5°   | 417.8 | 414.2 | 415.2 | 415.2 | 409.8 |
| 5°     | 416.9 | 413.3 | 415.2 | 414.2 | 411.5 |
| 7.5°   | 415.2 | 412.5 | 415.2 | 415.2 | 413.3 |
| 10°    | 413.3 | 410.7 | 413.3 | 414.2 | 413.3 |
| 12.5°  | 410.7 | 408.0 | 412.5 | 414.2 | 415.2 |
| 15°    | 406.1 | 404.4 | 409.8 | 416.9 | 418.8 |
| 17.5°  | 401.9 | 400.9 | 409.0 | 416.9 | 417.8 |
| 20°    | 395.6 | 395.6 | 408.0 | 414.2 | 415.2 |
| 22.5°  | 390.3 | 390.3 | 404.4 | 410.7 | 414.2 |
| 25°    | 383.2 | 384.0 | 399.2 | 407.3 | 410.7 |
| 27.5°  | 375.2 | 377.9 | 392.9 | 401.9 | 405.4 |
| 30°    | 366.3 | 370.7 | 386.7 | 395.6 | 400.1 |
| 32.5°  | 355.7 | 361.7 | 377.9 | 386.7 | 391.1 |
| 35°    | 345.8 | 352.1 | 368.8 | 377.9 | 383.2 |
| 37.5°  | 333.4 | 341.3 | 358.2 | 367.1 | 373.4 |
| 40°    | 321.9 | 329.9 | 345.8 | 355.7 | 361.7 |
| 42.5°  | 308.4 | 317.3 | 332.5 | 342.3 | 348.4 |
| 45°    | 295.2 | 303.1 | 318.2 | 328.1 | 334.2 |
| 47.5°  | 280.9 | 289.0 | 304.2 | 313.0 | 319.0 |
| 50°    | 265.8 | 274.6 | 288.1 | 296.9 | 302.3 |
| 52.5°  | 250.6 | 258.6 | 271.1 | 280.1 | 285.4 |
| 55°    | 234.6 | 241.7 | 253.4 | 261.5 | 265.8 |
| 57.5°  | 217.7 | 224.8 | 234.6 | 242.7 | 247.1 |
| 60°    | 200.8 | 206.2 | 215.2 | 223.1 | 226.7 |
| 62.5°  | 183.1 | 187.7 | 195.6 | 201.9 | 206.2 |
| 65°    | 164.4 | 168.1 | 175.0 | 181.3 | 185.0 |
| 67.5°  | 145.0 | 148.5 | 154.6 | 160.0 | 162.7 |
| 70°    | 125.4 | 128.8 | 133.4 | 137.7 | 140.4 |
| 72.5°  | 106.6 | 108.5 | 112.9 | 116.5 | 118.3 |
| 75°    | 87.1  | 88.9  | 92.5  | 96.0  | 96.9  |
| 77.5°  | 69.4  | 70.2  | 73.0  | 74.8  | 75.6  |
| 80°    | 50.7  | 52.5  | 54.2  | 55.0  | 56.1  |
| 82.5°  | 34.6  | 35.6  | 36.4  | 37.3  | 38.1  |
| 85°    | 20.4  | 21.2  | 21.2  | 22.3  | 22.3  |
| 87.5°  | 8.9   | 9.8   | 9.8   | 9.8   | 9.8   |
| 90°    | 0.9   | 0.9   | 0.9   | 0.0   | 0.0   |
| 92.5°  | 8.9   | 8.9   | 9.8   | 10.6  | 11.5  |
| 95°    | 27.5  | 28.5  | 31.1  | 32.9  | 34.6  |
| 97.5°  | 55.0  | 56.9  | 62.1  | 66.7  | 68.5  |
| 100°   | 88.9  | 92.5  | 100.5 | 106.6 | 109.4 |
| 102.5° | 125.4 | 130.6 | 142.3 | 151.1 | 155.6 |
| 105°   | 163.6 | 170.7 | 186.7 | 198.3 | 203.6 |
| 107.5° | 202.7 | 211.7 | 232.1 | 245.4 | 252.5 |
| 110°   | 241.7 | 253.4 | 275.6 | 293.3 | 298.6 |



TEST NUMBER: P275108

CATALOG NUMBER: J3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 280.9 | 293.3 | 320.0 | 339.6 | 349.4 |
| 115°   | 320.0 | 333.4 | 361.7 | 384.0 | 394.8 |
| 117.5° | 357.5 | 371.5 | 402.7 | 427.7 | 437.3 |
| 120°   | 392.9 | 408.0 | 441.9 | 467.6 | 479.2 |
| 122.5° | 428.4 | 442.8 | 478.2 | 505.8 | 520.1 |
| 125°   | 462.3 | 476.5 | 513.0 | 541.3 | 556.5 |
| 127.5° | 494.4 | 507.5 | 545.9 | 575.2 | 589.4 |
| 130°   | 525.4 | 537.8 | 576.9 | 605.5 | 621.5 |
| 132.5° | 554.8 | 566.3 | 605.5 | 633.0 | 649.9 |
| 135°   | 583.2 | 592.1 | 632.1 | 659.6 | 675.7 |
| 137.5° | 609.8 | 616.1 | 655.3 | 682.8 | 698.0 |
| 140°   | 636.5 | 638.4 | 676.5 | 702.3 | 718.2 |
| 142.5° | 660.5 | 659.6 | 696.1 | 720.9 | 736.1 |
| 145°   | 682.8 | 680.1 | 714.8 | 736.9 | 750.3 |
| 147.5° | 704.0 | 698.0 | 730.7 | 749.5 | 761.9 |
| 150°   | 722.7 | 714.8 | 743.2 | 761.9 | 772.5 |
| 152.5° | 738.6 | 729.8 | 753.8 | 770.7 | 781.3 |
| 155°   | 754.8 | 744.2 | 763.6 | 779.6 | 788.6 |
| 157.5° | 769.0 | 755.5 | 770.7 | 784.9 | 792.2 |
| 160°   | 781.3 | 768.2 | 777.8 | 788.6 | 794.0 |
| 162.5° | 792.2 | 778.8 | 783.2 | 789.4 | 794.0 |
| 165°   | 801.1 | 788.6 | 788.6 | 791.1 | 794.0 |
| 167.5° | 808.0 | 797.4 | 792.2 | 793.0 | 794.0 |
| 170°   | 814.4 | 803.6 | 798.2 | 793.0 | 792.2 |
| 172.5° | 818.8 | 808.0 | 803.6 | 796.5 | 791.1 |
| 175°   | 822.3 | 812.6 | 807.1 | 801.1 | 794.8 |
| 177.5° | 823.2 | 815.1 | 810.7 | 804.6 | 799.2 |
| 180°   | 811.7 | 811.7 | 811.7 | 811.7 | 811.7 |

(END OF REPORT)