

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: P253352

Luminaire Tested: **J3-FL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253352  
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-50L840-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

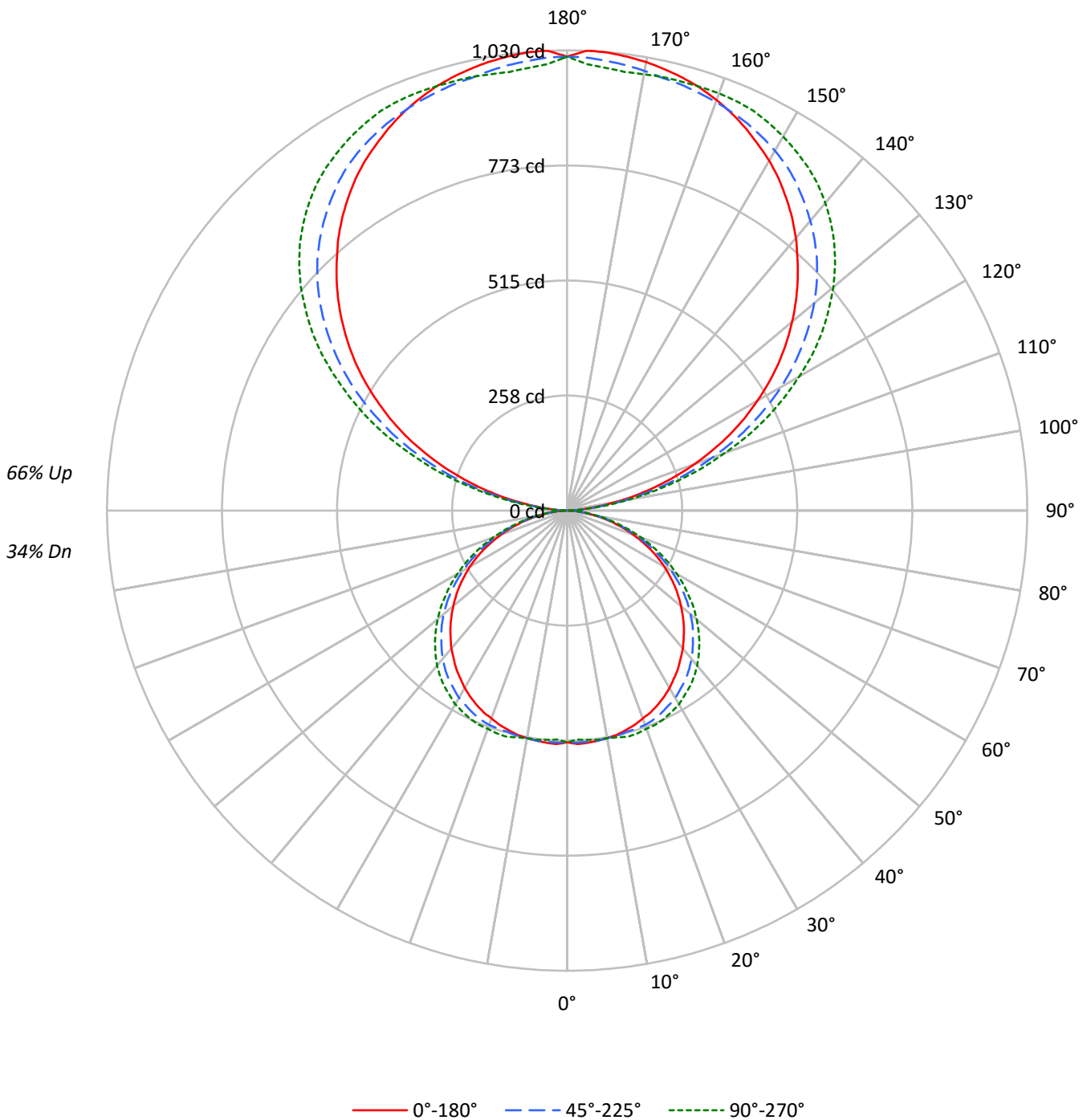
Lumens per Lamp: N/A  
Luminaire Lumens: 4958.4 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 33.5  
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   | 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°  | 4186 | 4186 | 4186 |
| 5°  | 4229 | 4211 | 4174 |
| 10° | 4241 | 4241 | 4241 |
| 15° | 4249 | 4287 | 4381 |
| 20° | 4253 | 4387 | 4464 |
| 25° | 4273 | 4451 | 4579 |
| 30° | 4274 | 4512 | 4668 |
| 35° | 4265 | 4550 | 4728 |
| 40° | 4246 | 4561 | 4772 |
| 45° | 4219 | 4547 | 4776 |
| 50° | 4177 | 4528 | 4752 |
| 55° | 4134 | 4465 | 4681 |
| 60° | 4057 | 4348 | 4582 |
| 65° | 3931 | 4185 | 4422 |
| 70° | 3703 | 3942 | 4147 |
| 75° | 3400 | 3612 | 3784 |
| 80° | 2952 | 3157 | 3264 |
| 85° | 2362 | 2455 | 2584 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.5   | 1.0       |
| 10°-20°   | 145.5  | 2.9       |
| 20°-30°   | 229.1  | 4.6       |
| 30°-40°   | 286.3  | 5.8       |
| 40°-50°   | 305.1  | 6.2       |
| 50°-60°   | 281.4  | 5.7       |
| 60°-70°   | 216.1  | 4.4       |
| 70°-80°   | 122.4  | 2.5       |
| 80°-90°   | 32.3   | 0.7       |
| 90°-100°  | 52.0   | 1.0       |
| 100°-110° | 244.6  | 4.9       |
| 110°-120° | 443.4  | 8.9       |
| 120°-130° | 569.5  | 11.5      |
| 130°-140° | 605.9  | 12.2      |
| 140°-150° | 557.5  | 11.2      |
| 150°-160° | 441.5  | 8.9       |
| 160°-170° | 280.3  | 5.7       |
| 170°-180° | 96.1   | 1.9       |
| 0°-30°    | 424.0  | 8.6       |
| 0°-40°    | 710.3  | 14.3      |
| 0°-60°    | 1296.8 | 26.2      |
| 0°-90°    | 1667.7 | 33.6      |
| 90°-120°  | 740.0  | 14.9      |
| 90°-150°  | 2472.9 | 49.9      |
| 90°-180°  | 3291.0 | 66.4      |
| 0°-180°   | 4958.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 518  | 518   | 518  | 518   | 518  |      |
| 5°   | 522  | 517   | 520  | 518   | 515  | 50   |
| 15°  | 508  | 506   | 513  | 522   | 524  | 144  |
| 25°  | 480  | 481   | 500  | 510   | 514  | 221  |
| 35°  | 433  | 441   | 462  | 473   | 480  | 270  |
| 45°  | 370  | 379   | 398  | 411   | 418  | 285  |
| 55°  | 294  | 303   | 317  | 327   | 333  | 262  |
| 65°  | 206  | 210   | 219  | 227   | 232  | 203  |
| 75°  | 109  | 111   | 116  | 120   | 121  | 116  |
| 85°  | 26   | 26    | 26   | 28    | 28   | 29   |
| 90°  | 1    | 1     | 1    | 0     | 0    | 3    |
| 95°  | 34   | 36    | 39   | 41    | 43   | 45   |
| 105° | 205  | 214   | 234  | 248   | 255  | 217  |
| 115° | 400  | 417   | 453  | 481   | 494  | 395  |
| 125° | 579  | 596   | 642  | 678   | 697  | 516  |
| 135° | 730  | 741   | 791  | 826   | 846  | 563  |
| 145° | 855  | 851   | 895  | 922   | 939  | 535  |
| 155° | 945  | 931   | 956  | 976   | 987  | 436  |
| 165° | 1003 | 987   | 987  | 990   | 994  | 283  |
| 175° | 1029 | 1017  | 1010 | 1003  | 995  | 98   |
| 180° | 1016 | 1016  | 1016 | 1016  | 1016 |      |



TEST NUMBER: P253352

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 518.5 | 518.5 | 518.5 | 518.5 | 518.5 |
| 2.5°   | 523.0 | 518.5 | 519.6 | 519.6 | 512.9 |
| 5°     | 521.8 | 517.3 | 519.6 | 518.5 | 515.1 |
| 7.5°   | 519.6 | 516.3 | 519.6 | 519.6 | 517.3 |
| 10°    | 517.3 | 514.1 | 517.3 | 518.5 | 517.3 |
| 12.5°  | 514.1 | 510.7 | 516.3 | 518.5 | 519.6 |
| 15°    | 508.4 | 506.2 | 512.9 | 521.8 | 524.2 |
| 17.5°  | 503.0 | 501.8 | 511.9 | 521.8 | 523.0 |
| 20°    | 495.1 | 495.1 | 510.7 | 518.5 | 519.6 |
| 22.5°  | 488.6 | 488.6 | 506.2 | 514.1 | 518.5 |
| 25°    | 479.7 | 480.7 | 499.7 | 509.8 | 514.1 |
| 27.5°  | 469.6 | 472.9 | 491.7 | 503.0 | 507.4 |
| 30°    | 458.5 | 464.0 | 484.0 | 495.1 | 500.8 |
| 32.5°  | 445.2 | 452.8 | 472.9 | 484.0 | 489.6 |
| 35°    | 432.8 | 440.7 | 461.7 | 472.9 | 479.7 |
| 37.5°  | 417.3 | 427.2 | 448.4 | 459.5 | 467.4 |
| 40°    | 402.9 | 413.0 | 432.8 | 445.2 | 452.8 |
| 42.5°  | 386.1 | 397.2 | 416.2 | 428.4 | 436.1 |
| 45°    | 369.5 | 379.3 | 398.3 | 410.6 | 418.3 |
| 47.5°  | 351.6 | 361.7 | 380.7 | 391.8 | 399.3 |
| 50°    | 332.6 | 343.7 | 360.5 | 371.6 | 378.4 |
| 52.5°  | 313.6 | 323.7 | 339.4 | 350.7 | 357.2 |
| 55°    | 293.7 | 302.6 | 317.2 | 327.3 | 332.6 |
| 57.5°  | 272.5 | 281.4 | 293.7 | 303.8 | 309.3 |
| 60°    | 251.3 | 258.0 | 269.3 | 279.2 | 283.8 |
| 62.5°  | 229.2 | 234.9 | 244.8 | 252.7 | 258.0 |
| 65°    | 205.8 | 210.4 | 219.1 | 227.0 | 231.5 |
| 67.5°  | 181.5 | 185.8 | 193.5 | 200.3 | 203.6 |
| 70°    | 156.9 | 161.3 | 167.0 | 172.4 | 175.7 |
| 72.5°  | 133.4 | 135.7 | 141.3 | 145.8 | 148.0 |
| 75°    | 109.0 | 111.2 | 115.8 | 120.1 | 121.3 |
| 77.5°  | 86.9  | 87.9  | 91.4  | 93.6  | 94.6  |
| 80°    | 63.5  | 65.7  | 67.9  | 68.9  | 70.2  |
| 82.5°  | 43.3  | 44.5  | 45.5  | 46.7  | 47.7  |
| 85°    | 25.5  | 26.5  | 26.5  | 27.9  | 27.9  |
| 87.5°  | 11.1  | 12.3  | 12.3  | 12.3  | 12.3  |
| 90°    | 1.2   | 1.2   | 1.2   | 0.0   | 0.0   |
| 92.5°  | 11.1  | 11.1  | 12.3  | 13.3  | 14.4  |
| 95°    | 34.4  | 35.6  | 39.0  | 41.2  | 43.3  |
| 97.5°  | 68.9  | 71.2  | 77.8  | 83.5  | 85.7  |
| 100°   | 111.2 | 115.8 | 125.9 | 133.4 | 136.9 |
| 102.5° | 156.9 | 163.5 | 178.1 | 189.2 | 194.7 |
| 105°   | 204.8 | 213.7 | 233.7 | 248.1 | 254.9 |
| 107.5° | 253.7 | 265.0 | 290.5 | 307.1 | 316.0 |
| 110°   | 302.6 | 317.2 | 344.9 | 367.1 | 373.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 351.6  | 367.1  | 400.5  | 425.1  | 437.3  |
| 115°   | 400.5  | 417.3  | 452.8  | 480.7  | 494.1  |
| 117.5° | 447.4  | 465.0  | 504.0  | 535.3  | 547.3  |
| 120°   | 491.7  | 510.7  | 553.1  | 585.3  | 599.8  |
| 122.5° | 536.3  | 554.3  | 598.6  | 633.0  | 651.0  |
| 125°   | 578.6  | 596.4  | 642.1  | 677.6  | 696.6  |
| 127.5° | 618.8  | 635.2  | 683.3  | 719.9  | 737.7  |
| 130°   | 657.6  | 673.2  | 722.1  | 757.9  | 777.9  |
| 132.5° | 694.4  | 708.8  | 757.9  | 792.3  | 813.5  |
| 135°   | 730.0  | 741.1  | 791.1  | 825.6  | 845.8  |
| 137.5° | 763.2  | 771.2  | 820.2  | 854.7  | 873.7  |
| 140°   | 796.7  | 799.1  | 846.7  | 879.0  | 899.0  |
| 142.5° | 826.8  | 825.6  | 871.3  | 902.4  | 921.4  |
| 145°   | 854.7  | 851.3  | 894.6  | 922.3  | 939.2  |
| 147.5° | 881.2  | 873.7  | 914.6  | 938.2  | 953.6  |
| 150°   | 904.5  | 894.6  | 930.3  | 953.6  | 966.9  |
| 152.5° | 924.5  | 913.4  | 943.5  | 964.7  | 977.9  |
| 155°   | 944.7  | 931.4  | 955.8  | 975.8  | 987.0  |
| 157.5° | 962.5  | 945.7  | 964.7  | 982.5  | 991.6  |
| 160°   | 977.9  | 961.5  | 973.6  | 987.0  | 993.8  |
| 162.5° | 991.6  | 974.8  | 980.3  | 988.0  | 993.8  |
| 165°   | 1002.7 | 987.0  | 987.0  | 990.2  | 993.8  |
| 167.5° | 1011.4 | 998.1  | 991.6  | 992.6  | 993.8  |
| 170°   | 1019.3 | 1005.8 | 999.1  | 992.6  | 991.6  |
| 172.5° | 1024.8 | 1011.4 | 1005.8 | 996.9  | 990.2  |
| 175°   | 1029.2 | 1017.1 | 1010.2 | 1002.7 | 994.8  |
| 177.5° | 1030.4 | 1020.3 | 1014.8 | 1007.0 | 1000.3 |
| 180°   | 1015.9 | 1015.9 | 1015.9 | 1015.9 | 1015.9 |

(END OF REPORT)