

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: P275135

Luminaire Tested: **J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275135
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-60L82765-1D-UNV-W2A-W-4 (2700K)
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 2700K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5310.7 lumens
Efficiency: N/A
Efficacy: 120.4 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

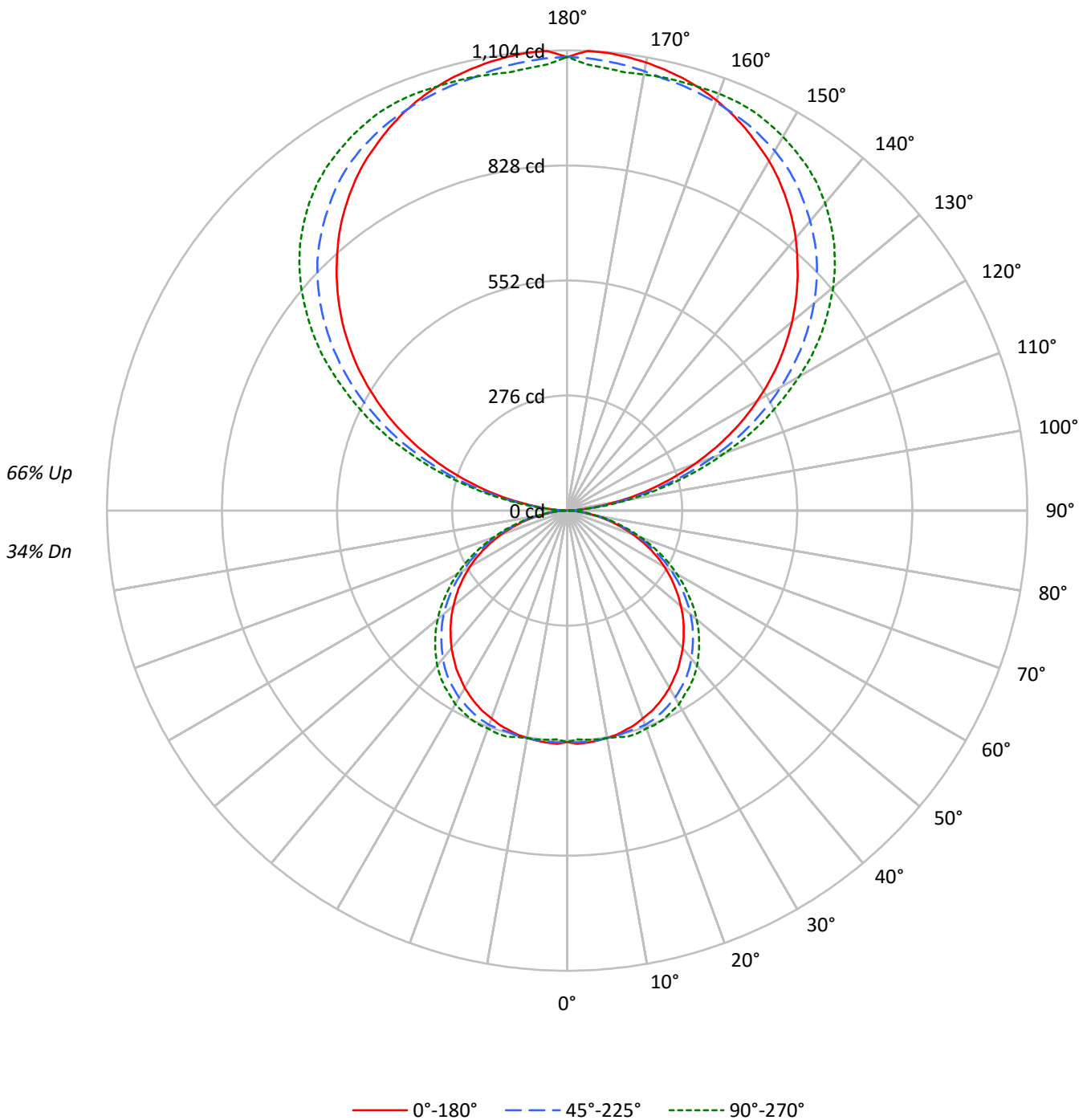
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P275135

CATALOG NUMBER: J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)

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° | 4483 | 4483 | 4483 |
| 5° | 4529 | 4511 | 4471 |
| 10° | 4541 | 4541 | 4541 |
| 15° | 4551 | 4592 | 4692 |
| 20° | 4556 | 4699 | 4782 |
| 25° | 4577 | 4767 | 4904 |
| 30° | 4578 | 4832 | 5000 |
| 35° | 4568 | 4873 | 5064 |
| 40° | 4547 | 4885 | 5110 |
| 45° | 4518 | 4870 | 5115 |
| 50° | 4475 | 4850 | 5089 |
| 55° | 4427 | 4781 | 5015 |
| 60° | 4346 | 4658 | 4907 |
| 65° | 4210 | 4481 | 4737 |
| 70° | 3968 | 4223 | 4442 |
| 75° | 3643 | 3868 | 4052 |
| 80° | 3161 | 3380 | 3496 |
| 85° | 2529 | 2631 | 2770 |



TEST NUMBER: P275135

CATALOG NUMBER: J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.0 | 1.0 |
| 10°-20° | 155.8 | 2.9 |
| 20°-30° | 245.4 | 4.6 |
| 30°-40° | 306.6 | 5.8 |
| 40°-50° | 326.8 | 6.2 |
| 50°-60° | 301.4 | 5.7 |
| 60°-70° | 231.5 | 4.4 |
| 70°-80° | 131.1 | 2.5 |
| 80°-90° | 34.6 | 0.7 |
| 90°-100° | 55.7 | 1.0 |
| 100°-110° | 262.0 | 4.9 |
| 110°-120° | 474.9 | 8.9 |
| 120°-130° | 610.0 | 11.5 |
| 130°-140° | 648.9 | 12.2 |
| 140°-150° | 597.1 | 11.2 |
| 150°-160° | 472.8 | 8.9 |
| 160°-170° | 300.2 | 5.7 |
| 170°-180° | 103.0 | 1.9 |
| 0°-30° | 454.2 | 8.6 |
| 0°-40° | 760.8 | 14.3 |
| 0°-60° | 1389.0 | 26.2 |
| 0°-90° | 1786.1 | 33.6 |
| 90°-120° | 792.6 | 14.9 |
| 90°-150° | 2648.6 | 49.9 |
| 90°-180° | 3525.0 | 66.4 |
| 0°-180° | 5310.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 555 | 555 | 555 | 555 | 555 | |
| 5° | 559 | 554 | 557 | 555 | 552 | 53 |
| 15° | 544 | 542 | 549 | 559 | 561 | 154 |
| 25° | 514 | 515 | 535 | 546 | 551 | 237 |
| 35° | 464 | 472 | 494 | 506 | 514 | 290 |
| 45° | 396 | 406 | 427 | 440 | 448 | 305 |
| 55° | 314 | 324 | 340 | 351 | 356 | 281 |
| 65° | 220 | 225 | 235 | 243 | 248 | 217 |
| 75° | 117 | 119 | 124 | 129 | 130 | 124 |
| 85° | 27 | 28 | 28 | 30 | 30 | 31 |
| 90° | 1 | 1 | 1 | 0 | 0 | 4 |
| 95° | 37 | 38 | 42 | 44 | 46 | 48 |
| 105° | 219 | 229 | 250 | 266 | 273 | 232 |
| 115° | 429 | 447 | 485 | 515 | 529 | 423 |
| 125° | 620 | 639 | 688 | 726 | 746 | 553 |
| 135° | 782 | 794 | 847 | 884 | 906 | 603 |
| 145° | 915 | 912 | 958 | 988 | 1006 | 573 |
| 155° | 1012 | 998 | 1024 | 1045 | 1057 | 467 |
| 165° | 1074 | 1057 | 1057 | 1061 | 1064 | 303 |
| 175° | 1102 | 1089 | 1082 | 1074 | 1065 | 105 |
| 180° | 1088 | 1088 | 1088 | 1088 | 1088 | |



TEST NUMBER: P275135

CATALOG NUMBER: J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 555.3 | 555.3 | 555.3 | 555.3 | 555.3 |
| 2.5° | 560.2 | 555.3 | 556.6 | 556.6 | 549.4 |
| 5° | 558.9 | 554.0 | 556.6 | 555.3 | 551.7 |
| 7.5° | 556.6 | 553.0 | 556.6 | 556.6 | 554.0 |
| 10° | 554.0 | 550.6 | 554.0 | 555.3 | 554.0 |
| 12.5° | 550.6 | 547.0 | 553.0 | 555.3 | 556.6 |
| 15° | 544.5 | 542.2 | 549.4 | 558.9 | 561.4 |
| 17.5° | 538.8 | 537.5 | 548.3 | 558.9 | 560.2 |
| 20° | 530.3 | 530.3 | 547.0 | 555.3 | 556.6 |
| 22.5° | 523.3 | 523.3 | 542.2 | 550.6 | 555.3 |
| 25° | 513.8 | 514.8 | 535.2 | 546.0 | 550.6 |
| 27.5° | 502.9 | 506.5 | 526.7 | 538.8 | 543.4 |
| 30° | 491.1 | 497.0 | 518.4 | 530.3 | 536.4 |
| 32.5° | 476.9 | 484.9 | 506.5 | 518.4 | 524.3 |
| 35° | 463.5 | 472.0 | 494.5 | 506.5 | 513.8 |
| 37.5° | 447.0 | 457.6 | 480.3 | 492.1 | 500.6 |
| 40° | 431.5 | 442.3 | 463.5 | 476.9 | 484.9 |
| 42.5° | 413.5 | 425.4 | 445.7 | 458.9 | 467.1 |
| 45° | 395.7 | 406.3 | 426.6 | 439.8 | 448.0 |
| 47.5° | 376.6 | 387.4 | 407.8 | 419.6 | 427.7 |
| 50° | 356.3 | 368.1 | 386.2 | 398.0 | 405.2 |
| 52.5° | 335.9 | 346.7 | 363.5 | 375.6 | 382.6 |
| 55° | 314.5 | 324.1 | 339.7 | 350.6 | 356.3 |
| 57.5° | 291.8 | 301.4 | 314.5 | 325.3 | 331.3 |
| 60° | 269.2 | 276.4 | 288.5 | 299.1 | 303.9 |
| 62.5° | 245.4 | 251.6 | 262.2 | 270.7 | 276.4 |
| 65° | 220.4 | 225.3 | 234.6 | 243.1 | 248.0 |
| 67.5° | 194.4 | 199.0 | 207.3 | 214.5 | 218.1 |
| 70° | 168.1 | 172.7 | 178.9 | 184.6 | 188.2 |
| 72.5° | 142.8 | 145.4 | 151.3 | 156.2 | 158.5 |
| 75° | 116.8 | 119.1 | 124.0 | 128.6 | 129.9 |
| 77.5° | 93.0 | 94.1 | 97.9 | 100.2 | 101.3 |
| 80° | 68.0 | 70.4 | 72.7 | 73.8 | 75.2 |
| 82.5° | 46.4 | 47.7 | 48.7 | 50.0 | 51.1 |
| 85° | 27.3 | 28.4 | 28.4 | 29.9 | 29.9 |
| 87.5° | 11.9 | 13.1 | 13.1 | 13.1 | 13.1 |
| 90° | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 |
| 92.5° | 11.9 | 11.9 | 13.1 | 14.2 | 15.5 |
| 95° | 36.9 | 38.1 | 41.8 | 44.1 | 46.4 |
| 97.5° | 73.8 | 76.3 | 83.3 | 89.4 | 91.8 |
| 100° | 119.1 | 124.0 | 134.8 | 142.8 | 146.7 |
| 102.5° | 168.1 | 175.1 | 190.7 | 202.6 | 208.6 |
| 105° | 219.4 | 228.9 | 250.3 | 265.8 | 273.0 |
| 107.5° | 271.7 | 283.8 | 311.1 | 328.9 | 338.5 |
| 110° | 324.1 | 339.7 | 369.4 | 393.2 | 400.4 |



TEST NUMBER: P275135

CATALOG NUMBER: J3-FL-60L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 376.6 | 393.2 | 429.0 | 455.3 | 468.4 |
| 115° | 429.0 | 447.0 | 484.9 | 514.8 | 529.2 |
| 117.5° | 479.2 | 498.1 | 539.8 | 573.3 | 586.2 |
| 120° | 526.7 | 547.0 | 592.4 | 626.9 | 642.4 |
| 122.5° | 574.4 | 593.7 | 641.1 | 678.0 | 697.3 |
| 125° | 619.7 | 638.8 | 687.8 | 725.7 | 746.0 |
| 127.5° | 662.7 | 680.3 | 731.8 | 771.0 | 790.1 |
| 130° | 704.3 | 721.0 | 773.4 | 811.7 | 833.1 |
| 132.5° | 743.7 | 759.2 | 811.7 | 848.6 | 871.3 |
| 135° | 781.9 | 793.7 | 847.3 | 884.2 | 905.8 |
| 137.5° | 817.5 | 825.9 | 878.5 | 915.4 | 935.7 |
| 140° | 853.3 | 855.8 | 906.9 | 941.5 | 962.9 |
| 142.5° | 885.5 | 884.2 | 933.2 | 966.5 | 986.8 |
| 145° | 915.4 | 911.8 | 958.2 | 987.9 | 1005.9 |
| 147.5° | 943.8 | 935.7 | 979.6 | 1004.8 | 1021.4 |
| 150° | 968.8 | 958.2 | 996.3 | 1021.4 | 1035.6 |
| 152.5° | 990.2 | 978.3 | 1010.5 | 1033.2 | 1047.4 |
| 155° | 1011.8 | 997.6 | 1023.7 | 1045.1 | 1057.2 |
| 157.5° | 1030.9 | 1012.9 | 1033.2 | 1052.3 | 1062.0 |
| 160° | 1047.4 | 1029.8 | 1042.8 | 1057.2 | 1064.4 |
| 162.5° | 1062.0 | 1044.0 | 1050.0 | 1058.2 | 1064.4 |
| 165° | 1073.9 | 1057.2 | 1057.2 | 1060.6 | 1064.4 |
| 167.5° | 1083.2 | 1069.0 | 1062.0 | 1063.1 | 1064.4 |
| 170° | 1091.7 | 1077.3 | 1070.1 | 1063.1 | 1062.0 |
| 172.5° | 1097.7 | 1083.2 | 1077.3 | 1067.8 | 1060.6 |
| 175° | 1102.3 | 1089.4 | 1082.0 | 1073.9 | 1065.4 |
| 177.5° | 1103.6 | 1092.8 | 1086.8 | 1078.6 | 1071.4 |
| 180° | 1088.1 | 1088.1 | 1088.1 | 1088.1 | 1088.1 |

(END OF REPORT)