

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: P253443

Luminaire Tested: **J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253443
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4537.4 lumens
Efficiency: N/A
Efficacy: 128.2 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

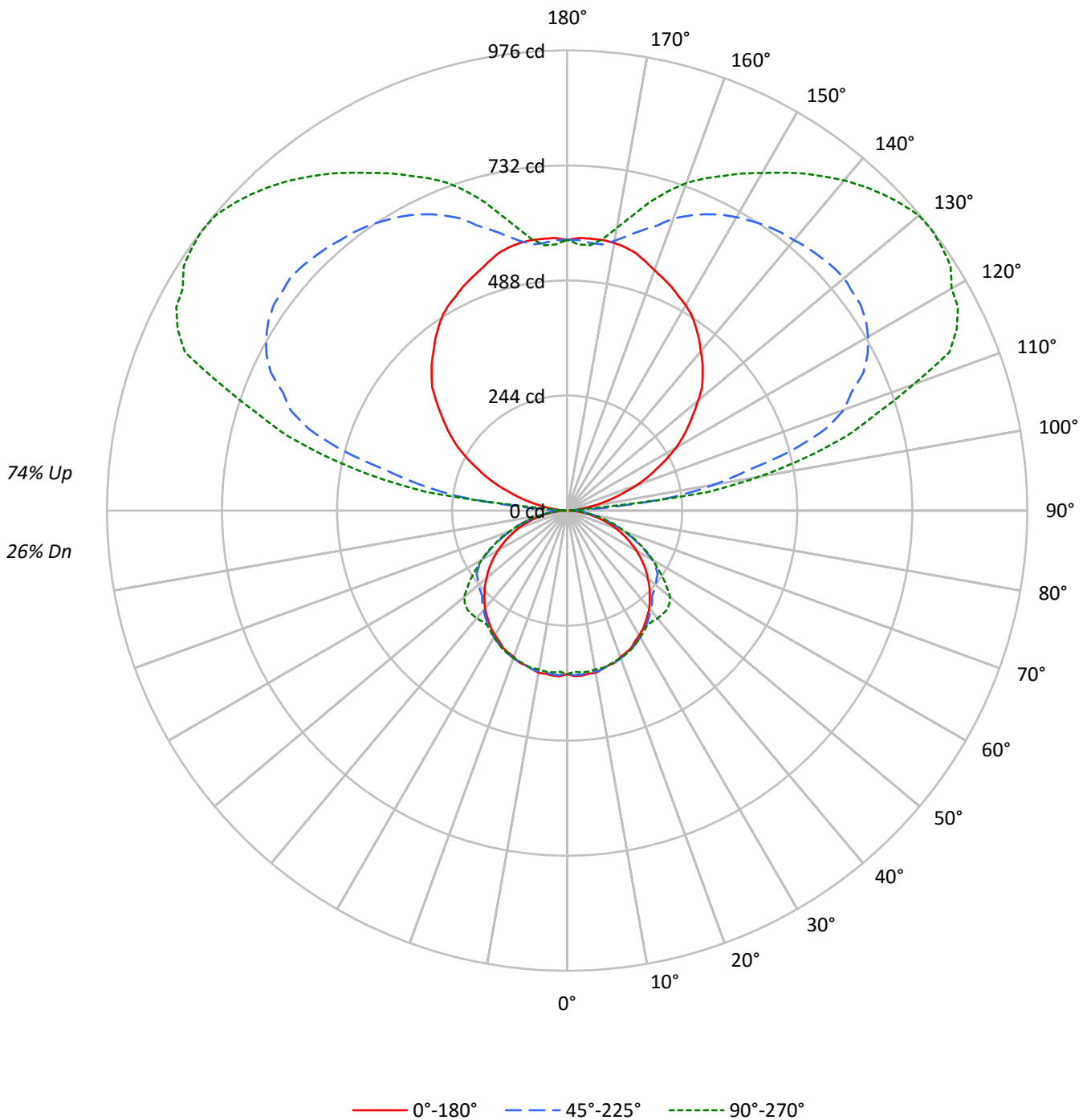
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253443

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

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° | 2800 | 2800 | 2800 |
| 5° | 2848 | 2829 | 2792 |
| 10° | 2862 | 2843 | 2805 |
| 15° | 2841 | 2841 | 2841 |
| 20° | 2841 | 2861 | 2861 |
| 25° | 2864 | 2884 | 2884 |
| 30° | 2847 | 2890 | 2890 |
| 35° | 2851 | 2896 | 2919 |
| 40° | 2856 | 2904 | 3146 |
| 45° | 2831 | 2910 | 3408 |
| 50° | 2798 | 3086 | 3577 |
| 55° | 2780 | 3296 | 3491 |
| 60° | 2743 | 3374 | 3374 |
| 65° | 2676 | 3202 | 3245 |
| 70° | 2601 | 3035 | 3090 |
| 75° | 2436 | 2866 | 2938 |
| 80° | 2241 | 2775 | 2669 |
| 85° | 2130 | 2973 | 2556 |



TEST NUMBER: P253443

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.1 | 0.7 |
| 10°-20° | 96.0 | 2.1 |
| 20°-30° | 148.3 | 3.3 |
| 30°-40° | 184.0 | 4.1 |
| 40°-50° | 205.9 | 4.5 |
| 50°-60° | 201.2 | 4.4 |
| 60°-70° | 158.7 | 3.5 |
| 70°-80° | 96.0 | 2.1 |
| 80°-90° | 34.2 | 0.8 |
| 90°-100° | 117.9 | 2.6 |
| 100°-110° | 455.8 | 10.0 |
| 110°-120° | 626.4 | 13.8 |
| 120°-130° | 633.7 | 14.0 |
| 130°-140° | 561.6 | 12.4 |
| 140°-150° | 444.2 | 9.8 |
| 150°-160° | 310.1 | 6.8 |
| 160°-170° | 175.5 | 3.9 |
| 170°-180° | 55.0 | 1.2 |
| 0°-30° | 277.4 | 6.1 |
| 0°-40° | 461.3 | 10.2 |
| 0°-60° | 868.4 | 19.1 |
| 0°-90° | 1157.3 | 25.5 |
| 90°-120° | 1200.0 | 26.4 |
| 90°-150° | 2839.4 | 62.6 |
| 90°-180° | 3380.0 | 74.5 |
| 0°-180° | 4537.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 347 | 347 | 347 | 347 | 347 | |
| 5° | 351 | 347 | 349 | 347 | 344 | 33 |
| 15° | 340 | 338 | 340 | 340 | 340 | 96 |
| 25° | 322 | 317 | 324 | 324 | 324 | 148 |
| 35° | 289 | 289 | 294 | 296 | 296 | 181 |
| 45° | 248 | 250 | 255 | 287 | 298 | 191 |
| 55° | 198 | 200 | 234 | 248 | 248 | 176 |
| 65° | 140 | 147 | 168 | 170 | 170 | 138 |
| 75° | 78 | 92 | 92 | 94 | 94 | 83 |
| 85° | 23 | 37 | 32 | 30 | 28 | 24 |
| 90° | 5 | 14 | 12 | 2 | 2 | 4 |
| 95° | 18 | 92 | 110 | 23 | 23 | 23 |
| 105° | 101 | 326 | 494 | 570 | 615 | 107 |
| 115° | 209 | 441 | 694 | 859 | 912 | 208 |
| 125° | 315 | 510 | 760 | 926 | 971 | 281 |
| 135° | 406 | 560 | 760 | 909 | 948 | 313 |
| 145° | 475 | 574 | 737 | 845 | 873 | 297 |
| 155° | 524 | 560 | 694 | 769 | 783 | 241 |
| 165° | 565 | 563 | 615 | 668 | 677 | 159 |
| 175° | 579 | 572 | 570 | 570 | 565 | 55 |
| 180° | 574 | 574 | 574 | 574 | 574 | |



TEST NUMBER: P253443

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 346.8 | 346.8 | 346.8 | 346.8 | 346.8 |
| 2.5° | 351.4 | 346.8 | 349.1 | 346.8 | 342.2 |
| 5° | 351.4 | 346.8 | 349.1 | 346.8 | 344.5 |
| 7.5° | 349.1 | 346.8 | 346.8 | 344.5 | 344.5 |
| 10° | 349.1 | 344.5 | 346.8 | 344.5 | 342.2 |
| 12.5° | 344.5 | 342.2 | 344.5 | 342.2 | 342.2 |
| 15° | 339.9 | 337.6 | 339.9 | 339.9 | 339.9 |
| 17.5° | 337.6 | 333.0 | 337.6 | 337.6 | 335.3 |
| 20° | 330.7 | 328.4 | 333.0 | 333.0 | 333.0 |
| 22.5° | 326.1 | 323.8 | 328.4 | 328.4 | 328.4 |
| 25° | 321.5 | 316.9 | 323.8 | 323.8 | 323.8 |
| 27.5° | 312.3 | 312.3 | 316.9 | 319.2 | 316.9 |
| 30° | 305.4 | 303.1 | 310.0 | 312.3 | 310.0 |
| 32.5° | 298.5 | 296.2 | 303.1 | 305.4 | 303.1 |
| 35° | 289.3 | 289.3 | 293.9 | 296.2 | 296.2 |
| 37.5° | 280.2 | 280.2 | 284.8 | 287.1 | 296.2 |
| 40° | 271.0 | 271.0 | 275.6 | 289.3 | 298.5 |
| 42.5° | 259.5 | 259.5 | 266.4 | 287.1 | 298.5 |
| 45° | 248.0 | 250.3 | 254.9 | 287.1 | 298.5 |
| 47.5° | 236.5 | 238.8 | 250.3 | 284.8 | 293.9 |
| 50° | 222.8 | 227.3 | 245.7 | 277.9 | 284.8 |
| 52.5° | 211.3 | 213.6 | 238.8 | 266.4 | 266.4 |
| 55° | 197.5 | 199.8 | 234.2 | 248.0 | 248.0 |
| 57.5° | 183.7 | 186.0 | 222.8 | 227.3 | 227.3 |
| 60° | 169.9 | 172.2 | 209.0 | 209.0 | 209.0 |
| 62.5° | 153.9 | 158.5 | 188.3 | 190.6 | 190.6 |
| 65° | 140.1 | 147.0 | 167.6 | 169.9 | 169.9 |
| 67.5° | 124.0 | 135.5 | 149.3 | 151.6 | 151.6 |
| 70° | 110.2 | 124.0 | 128.6 | 130.9 | 130.9 |
| 72.5° | 94.2 | 107.9 | 110.2 | 112.5 | 112.5 |
| 75° | 78.1 | 91.9 | 91.9 | 94.2 | 94.2 |
| 77.5° | 62.0 | 73.5 | 75.8 | 75.8 | 75.8 |
| 80° | 48.2 | 55.1 | 59.7 | 57.4 | 57.4 |
| 82.5° | 34.4 | 43.6 | 43.6 | 43.6 | 41.3 |
| 85° | 23.0 | 36.7 | 32.1 | 29.9 | 27.6 |
| 87.5° | 13.8 | 32.1 | 18.4 | 16.1 | 16.1 |
| 90° | 4.6 | 13.8 | 11.5 | 2.3 | 2.3 |
| 92.5° | 9.2 | 23.0 | 11.5 | 9.2 | 6.9 |
| 95° | 18.4 | 91.9 | 110.2 | 23.0 | 23.0 |
| 97.5° | 34.4 | 153.9 | 236.5 | 280.2 | 300.8 |
| 100° | 52.8 | 229.6 | 316.9 | 388.1 | 413.4 |
| 102.5° | 75.8 | 277.9 | 390.4 | 479.9 | 516.7 |
| 105° | 101.0 | 326.1 | 493.7 | 569.5 | 615.4 |
| 107.5° | 126.3 | 362.8 | 574.1 | 659.1 | 691.2 |
| 110° | 156.2 | 392.7 | 624.6 | 771.6 | 780.8 |



TEST NUMBER: P253443

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 183.7 | 415.6 | 652.2 | 826.7 | 877.2 |
| 115° | 209.0 | 440.9 | 693.5 | 858.9 | 911.7 |
| 117.5° | 238.8 | 459.3 | 718.8 | 877.2 | 934.6 |
| 120° | 266.4 | 475.4 | 737.1 | 900.2 | 941.5 |
| 122.5° | 291.6 | 493.7 | 750.9 | 918.6 | 964.5 |
| 125° | 314.6 | 509.8 | 760.1 | 925.5 | 971.4 |
| 127.5° | 337.6 | 523.6 | 762.4 | 927.7 | 976.0 |
| 130° | 362.8 | 537.4 | 767.0 | 925.5 | 973.7 |
| 132.5° | 388.1 | 551.1 | 764.7 | 918.6 | 962.2 |
| 135° | 406.5 | 560.3 | 760.1 | 909.4 | 948.4 |
| 137.5° | 424.8 | 567.2 | 755.5 | 895.6 | 932.3 |
| 140° | 440.9 | 571.8 | 748.6 | 879.5 | 914.0 |
| 142.5° | 459.3 | 574.1 | 744.0 | 863.4 | 893.3 |
| 145° | 475.4 | 574.1 | 737.1 | 845.1 | 872.6 |
| 147.5° | 491.4 | 571.8 | 728.0 | 826.7 | 849.7 |
| 150° | 502.9 | 567.2 | 718.8 | 808.3 | 826.7 |
| 152.5° | 512.1 | 562.6 | 707.3 | 787.7 | 806.0 |
| 155° | 523.6 | 560.3 | 693.5 | 769.3 | 783.1 |
| 157.5° | 532.8 | 560.3 | 677.4 | 748.6 | 762.4 |
| 160° | 542.0 | 560.3 | 659.1 | 728.0 | 739.4 |
| 162.5° | 553.4 | 560.3 | 633.8 | 698.1 | 709.6 |
| 165° | 564.9 | 562.6 | 615.4 | 668.3 | 677.4 |
| 167.5° | 571.8 | 562.6 | 597.1 | 631.5 | 640.7 |
| 170° | 576.4 | 567.2 | 581.0 | 606.3 | 608.5 |
| 172.5° | 578.7 | 571.8 | 569.5 | 581.0 | 581.0 |
| 175° | 578.7 | 571.8 | 569.5 | 569.5 | 564.9 |
| 177.5° | 578.7 | 574.1 | 574.1 | 571.8 | 564.9 |
| 180° | 574.1 | 574.1 | 574.1 | 574.1 | 574.1 |

(END OF REPORT)