

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: P253455

Luminaire Tested: **J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253455
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5051.0 lumens
Efficiency: N/A
Efficacy: 139.1 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

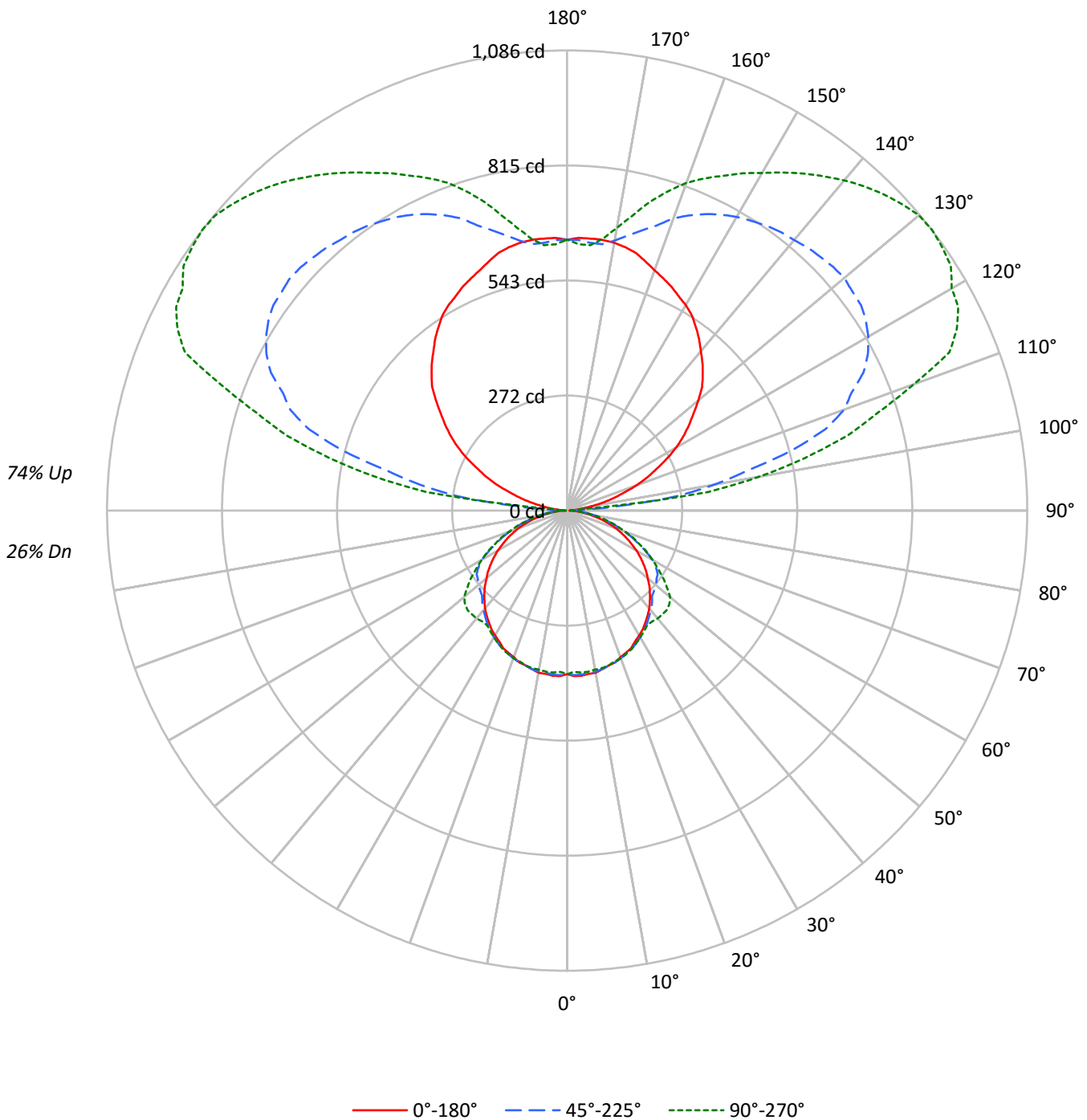
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253455

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253455

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

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° | 3116 | 3116 | 3116 |
| 5° | 3169 | 3149 | 3108 |
| 10° | 3186 | 3164 | 3122 |
| 15° | 3162 | 3162 | 3162 |
| 20° | 3162 | 3185 | 3185 |
| 25° | 3188 | 3210 | 3210 |
| 30° | 3169 | 3217 | 3217 |
| 35° | 3174 | 3225 | 3250 |
| 40° | 3178 | 3233 | 3502 |
| 45° | 3152 | 3240 | 3794 |
| 50° | 3115 | 3435 | 3981 |
| 55° | 3094 | 3669 | 3886 |
| 60° | 3055 | 3756 | 3756 |
| 65° | 2978 | 3564 | 3614 |
| 70° | 2896 | 3380 | 3439 |
| 75° | 2711 | 3191 | 3269 |
| 80° | 2497 | 3092 | 2971 |
| 85° | 2371 | 3316 | 2844 |



TEST NUMBER: P253455

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.8 | 0.7 |
| 10°-20° | 106.8 | 2.1 |
| 20°-30° | 165.1 | 3.3 |
| 30°-40° | 204.8 | 4.1 |
| 40°-50° | 229.2 | 4.5 |
| 50°-60° | 223.9 | 4.4 |
| 60°-70° | 176.7 | 3.5 |
| 70°-80° | 106.9 | 2.1 |
| 80°-90° | 38.1 | 0.8 |
| 90°-100° | 131.2 | 2.6 |
| 100°-110° | 507.4 | 10.0 |
| 110°-120° | 697.3 | 13.8 |
| 120°-130° | 705.4 | 14.0 |
| 130°-140° | 625.2 | 12.4 |
| 140°-150° | 494.4 | 9.8 |
| 150°-160° | 345.2 | 6.8 |
| 160°-170° | 195.4 | 3.9 |
| 170°-180° | 61.2 | 1.2 |
| 0°-30° | 308.8 | 6.1 |
| 0°-40° | 513.5 | 10.2 |
| 0°-60° | 966.6 | 19.1 |
| 0°-90° | 1288.3 | 25.5 |
| 90°-120° | 1335.8 | 26.4 |
| 90°-150° | 3160.9 | 62.6 |
| 90°-180° | 3763.0 | 74.5 |
| 0°-180° | 5051.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 386 | 386 | 386 | 386 | 386 | |
| 5° | 391 | 386 | 389 | 386 | 384 | 37 |
| 15° | 378 | 376 | 378 | 378 | 378 | 107 |
| 25° | 358 | 353 | 360 | 360 | 360 | 164 |
| 35° | 322 | 322 | 327 | 330 | 330 | 202 |
| 45° | 276 | 279 | 284 | 320 | 332 | 213 |
| 55° | 220 | 222 | 261 | 276 | 276 | 196 |
| 65° | 156 | 164 | 187 | 189 | 189 | 154 |
| 75° | 87 | 102 | 102 | 105 | 105 | 92 |
| 85° | 26 | 41 | 36 | 33 | 31 | 27 |
| 90° | 5 | 15 | 13 | 3 | 3 | 5 |
| 95° | 20 | 102 | 123 | 26 | 26 | 25 |
| 105° | 112 | 363 | 550 | 634 | 685 | 120 |
| 115° | 233 | 491 | 772 | 956 | 1015 | 232 |
| 125° | 350 | 568 | 846 | 1030 | 1081 | 313 |
| 135° | 452 | 624 | 846 | 1012 | 1056 | 349 |
| 145° | 529 | 639 | 821 | 941 | 971 | 331 |
| 155° | 583 | 624 | 772 | 856 | 872 | 269 |
| 165° | 629 | 626 | 685 | 744 | 754 | 177 |
| 175° | 644 | 636 | 634 | 634 | 629 | 61 |
| 180° | 639 | 639 | 639 | 639 | 639 | |



TEST NUMBER: P253455

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 |
| 2.5° | 391.1 | 386.0 | 388.6 | 386.0 | 380.9 |
| 5° | 391.1 | 386.0 | 388.6 | 386.0 | 383.5 |
| 7.5° | 388.6 | 386.0 | 386.0 | 383.5 | 383.5 |
| 10° | 388.6 | 383.5 | 386.0 | 383.5 | 380.9 |
| 12.5° | 383.5 | 380.9 | 383.5 | 380.9 | 380.9 |
| 15° | 378.3 | 375.8 | 378.3 | 378.3 | 378.3 |
| 17.5° | 375.8 | 370.7 | 375.8 | 375.8 | 373.2 |
| 20° | 368.1 | 365.6 | 370.7 | 370.7 | 370.7 |
| 22.5° | 363.0 | 360.4 | 365.6 | 365.6 | 365.6 |
| 25° | 357.9 | 352.8 | 360.4 | 360.4 | 360.4 |
| 27.5° | 347.7 | 347.7 | 352.8 | 355.3 | 352.8 |
| 30° | 340.0 | 337.4 | 345.1 | 347.7 | 345.1 |
| 32.5° | 332.3 | 329.8 | 337.4 | 340.0 | 337.4 |
| 35° | 322.1 | 322.1 | 327.2 | 329.8 | 329.8 |
| 37.5° | 311.9 | 311.9 | 317.0 | 319.5 | 329.8 |
| 40° | 301.6 | 301.6 | 306.8 | 322.1 | 332.3 |
| 42.5° | 288.9 | 288.9 | 296.5 | 319.5 | 332.3 |
| 45° | 276.1 | 278.6 | 283.8 | 319.5 | 332.3 |
| 47.5° | 263.3 | 265.9 | 278.6 | 317.0 | 327.2 |
| 50° | 248.0 | 253.1 | 273.5 | 309.3 | 317.0 |
| 52.5° | 235.2 | 237.7 | 265.9 | 296.5 | 296.5 |
| 55° | 219.8 | 222.4 | 260.7 | 276.1 | 276.1 |
| 57.5° | 204.5 | 207.1 | 248.0 | 253.1 | 253.1 |
| 60° | 189.2 | 191.7 | 232.6 | 232.6 | 232.6 |
| 62.5° | 171.3 | 176.4 | 209.6 | 212.2 | 212.2 |
| 65° | 155.9 | 163.6 | 186.6 | 189.2 | 189.2 |
| 67.5° | 138.0 | 150.8 | 166.2 | 168.7 | 168.7 |
| 70° | 122.7 | 138.0 | 143.2 | 145.7 | 145.7 |
| 72.5° | 104.8 | 120.1 | 122.7 | 125.3 | 125.3 |
| 75° | 86.9 | 102.3 | 102.3 | 104.8 | 104.8 |
| 77.5° | 69.0 | 81.8 | 84.4 | 84.4 | 84.4 |
| 80° | 53.7 | 61.4 | 66.5 | 63.9 | 63.9 |
| 82.5° | 38.3 | 48.6 | 48.6 | 48.6 | 46.0 |
| 85° | 25.6 | 40.9 | 35.8 | 33.2 | 30.7 |
| 87.5° | 15.3 | 35.8 | 20.5 | 17.9 | 17.9 |
| 90° | 5.1 | 15.3 | 12.8 | 2.6 | 2.6 |
| 92.5° | 10.2 | 25.6 | 12.8 | 10.2 | 7.7 |
| 95° | 20.5 | 102.3 | 122.7 | 25.6 | 25.6 |
| 97.5° | 38.3 | 171.3 | 263.3 | 311.9 | 334.9 |
| 100° | 58.8 | 255.6 | 352.8 | 432.0 | 460.1 |
| 102.5° | 84.4 | 309.3 | 434.6 | 534.3 | 575.2 |
| 105° | 112.5 | 363.0 | 549.6 | 634.0 | 685.1 |
| 107.5° | 140.6 | 403.9 | 639.1 | 733.7 | 769.5 |
| 110° | 173.8 | 437.1 | 695.3 | 858.9 | 869.2 |



TEST NUMBER: P253455

CATALOG NUMBER: J3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 204.5 | 462.7 | 726.0 | 920.3 | 976.5 |
| 115° | 232.6 | 490.8 | 772.0 | 956.1 | 1014.9 |
| 117.5° | 265.9 | 511.3 | 800.1 | 976.5 | 1040.4 |
| 120° | 296.5 | 529.2 | 820.6 | 1002.1 | 1048.1 |
| 122.5° | 324.7 | 549.6 | 835.9 | 1022.5 | 1073.7 |
| 125° | 350.2 | 567.5 | 846.2 | 1030.2 | 1081.3 |
| 127.5° | 375.8 | 582.8 | 848.7 | 1032.8 | 1086.4 |
| 130° | 403.9 | 598.2 | 853.8 | 1030.2 | 1083.9 |
| 132.5° | 432.0 | 613.5 | 851.3 | 1022.5 | 1071.1 |
| 135° | 452.5 | 623.7 | 846.2 | 1012.3 | 1055.8 |
| 137.5° | 472.9 | 631.4 | 841.0 | 997.0 | 1037.9 |
| 140° | 490.8 | 636.5 | 833.4 | 979.1 | 1017.4 |
| 142.5° | 511.3 | 639.1 | 828.3 | 961.2 | 994.4 |
| 145° | 529.2 | 639.1 | 820.6 | 940.7 | 971.4 |
| 147.5° | 547.1 | 636.5 | 810.4 | 920.3 | 945.8 |
| 150° | 559.8 | 631.4 | 800.1 | 899.8 | 920.3 |
| 152.5° | 570.1 | 626.3 | 787.4 | 876.8 | 897.3 |
| 155° | 582.8 | 623.7 | 772.0 | 856.4 | 871.7 |
| 157.5° | 593.1 | 623.7 | 754.1 | 833.4 | 848.7 |
| 160° | 603.3 | 623.7 | 733.7 | 810.4 | 823.1 |
| 162.5° | 616.1 | 623.7 | 705.6 | 777.1 | 789.9 |
| 165° | 628.9 | 626.3 | 685.1 | 743.9 | 754.1 |
| 167.5° | 636.5 | 626.3 | 664.7 | 703.0 | 713.2 |
| 170° | 641.6 | 631.4 | 646.8 | 674.9 | 677.4 |
| 172.5° | 644.2 | 636.5 | 634.0 | 646.8 | 646.8 |
| 175° | 644.2 | 636.5 | 634.0 | 634.0 | 628.9 |
| 177.5° | 644.2 | 639.1 | 639.1 | 636.5 | 628.9 |
| 180° | 639.1 | 639.1 | 639.1 | 639.1 | 639.1 |

(END OF REPORT)