

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: P253590

Luminaire Tested: **J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319.9 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

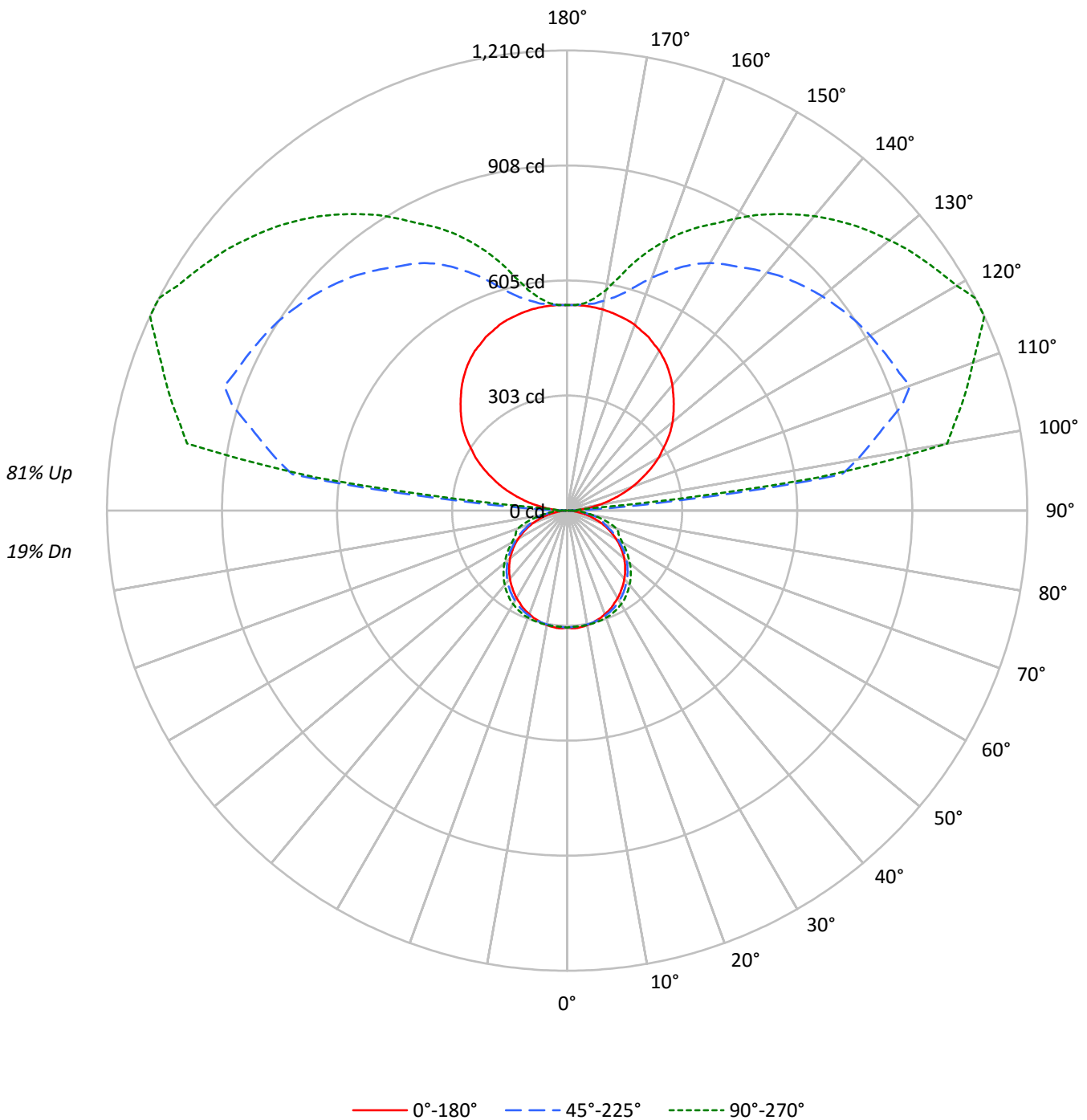
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253590

CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)

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 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 28 | 28 | 28 | 19 |
| 1 | 91 | 86 | 83 | 79 | 80 | 76 | 73 | 70 | 57 | 55 | 53 | 40 | 39 | 38 | 24 | 23 | 23 | 15 |
| 2 | 82 | 75 | 69 | 64 | 72 | 66 | 61 | 57 | 50 | 47 | 44 | 35 | 33 | 31 | 21 | 20 | 19 | 13 |
| 3 | 75 | 66 | 59 | 53 | 66 | 58 | 52 | 47 | 44 | 40 | 37 | 31 | 28 | 26 | 18 | 17 | 16 | 10 |
| 4 | 68 | 58 | 50 | 45 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 16 | 15 | 13 | 9 |
| 5 | 62 | 51 | 44 | 38 | 55 | 45 | 39 | 34 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 12 | 8 |
| 6 | 57 | 46 | 38 | 32 | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 16 | 13 | 11 | 10 | 7 |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 20 | 16 | 14 | 12 | 10 | 9 | 6 |
| 8 | 49 | 37 | 30 | 25 | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9 | 8 | 5 |
| 9 | 45 | 34 | 26 | 22 | 40 | 30 | 24 | 20 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 5 |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 9 | 7 | 6 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2486 | 2486 | 2486 |
| 5° | 2511 | 2484 | 2479 |
| 10° | 2508 | 2491 | 2502 |
| 15° | 2495 | 2506 | 2534 |
| 20° | 2491 | 2525 | 2576 |
| 25° | 2487 | 2540 | 2612 |
| 30° | 2479 | 2553 | 2646 |
| 35° | 2469 | 2561 | 2673 |
| 40° | 2465 | 2563 | 2689 |
| 45° | 2465 | 2564 | 2701 |
| 50° | 2460 | 2561 | 2703 |
| 55° | 2438 | 2550 | 2701 |
| 60° | 2399 | 2507 | 2701 |
| 65° | 2329 | 2481 | 2852 |
| 70° | 2233 | 2485 | 3241 |
| 75° | 2059 | 2848 | 3263 |
| 80° | 1795 | 2882 | 3189 |
| 85° | 1417 | 3270 | 3640 |



TEST NUMBER: P253590

CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.3 | 0.6 |
| 10°-20° | 85.1 | 1.6 |
| 20°-30° | 132.0 | 2.5 |
| 30°-40° | 163.2 | 3.1 |
| 40°-50° | 174.1 | 3.3 |
| 50°-60° | 162.2 | 3.0 |
| 60°-70° | 132.1 | 2.5 |
| 70°-80° | 91.0 | 1.7 |
| 80°-90° | 35.8 | 0.7 |
| 90°-100° | 313.8 | 5.9 |
| 100°-110° | 803.3 | 15.1 |
| 110°-120° | 831.4 | 15.6 |
| 120°-130° | 740.7 | 13.9 |
| 130°-140° | 616.8 | 11.6 |
| 140°-150° | 469.6 | 8.8 |
| 150°-160° | 315.9 | 5.9 |
| 160°-170° | 171.1 | 3.2 |
| 170°-180° | 52.5 | 1.0 |
| 0°-30° | 246.4 | 4.6 |
| 0°-40° | 409.6 | 7.7 |
| 0°-60° | 745.9 | 14.0 |
| 0°-90° | 1004.8 | 18.9 |
| 90°-120° | 1948.6 | 36.6 |
| 90°-150° | 3775.7 | 71.0 |
| 90°-180° | 4315.0 | 81.1 |
| 0°-180° | 5319.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 308 | 308 | 308 | 308 | 308 | |
| 5° | 310 | 308 | 306 | 307 | 306 | 29 |
| 15° | 298 | 300 | 300 | 303 | 303 | 84 |
| 25° | 279 | 282 | 285 | 291 | 293 | 129 |
| 35° | 250 | 254 | 260 | 268 | 271 | 157 |
| 45° | 216 | 219 | 225 | 233 | 237 | 166 |
| 55° | 173 | 176 | 181 | 187 | 192 | 155 |
| 65° | 122 | 125 | 130 | 142 | 149 | 121 |
| 75° | 66 | 70 | 91 | 102 | 105 | 70 |
| 85° | 15 | 28 | 35 | 39 | 39 | 18 |
| 90° | 2 | 3 | 3 | 3 | 3 | 5 |
| 95° | 45 | 349 | 257 | 43 | 43 | 44 |
| 105° | 132 | 554 | 866 | 1019 | 1074 | 139 |
| 115° | 230 | 573 | 938 | 1159 | 1210 | 227 |
| 125° | 320 | 586 | 900 | 1084 | 1146 | 287 |
| 135° | 396 | 602 | 849 | 1008 | 1062 | 306 |
| 145° | 460 | 590 | 782 | 909 | 952 | 288 |
| 155° | 504 | 561 | 706 | 796 | 823 | 232 |
| 165° | 530 | 544 | 594 | 652 | 674 | 150 |
| 175° | 540 | 541 | 544 | 546 | 548 | 51 |
| 180° | 540 | 540 | 540 | 540 | 540 | |



TEST NUMBER: P253590

CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 0° | 307.9 | 307.9 | 307.9 | 307.9 | 307.9 |
| 2.5° | 309.9 | 309.2 | 306.5 | 307.2 | 305.9 |
| 5° | 309.9 | 308.5 | 306.5 | 307.2 | 305.9 |
| 7.5° | 307.9 | 307.2 | 305.2 | 306.5 | 305.9 |
| 10° | 305.9 | 305.2 | 303.9 | 305.9 | 305.2 |
| 12.5° | 303.2 | 303.2 | 302.5 | 304.5 | 304.5 |
| 15° | 298.5 | 300.5 | 299.9 | 303.2 | 303.2 |
| 17.5° | 295.2 | 296.5 | 297.2 | 301.2 | 301.9 |
| 20° | 289.9 | 292.5 | 293.9 | 297.9 | 299.9 |
| 22.5° | 285.2 | 287.9 | 289.9 | 295.2 | 297.2 |
| 25° | 279.2 | 281.9 | 285.2 | 291.2 | 293.2 |
| 27.5° | 271.9 | 276.5 | 279.9 | 287.2 | 289.2 |
| 30° | 265.9 | 269.2 | 273.9 | 281.2 | 283.9 |
| 32.5° | 258.5 | 262.5 | 267.2 | 275.2 | 278.5 |
| 35° | 250.5 | 254.5 | 259.9 | 268.5 | 271.2 |
| 37.5° | 242.5 | 245.9 | 251.9 | 260.5 | 263.9 |
| 40° | 233.9 | 237.2 | 243.2 | 252.5 | 255.2 |
| 42.5° | 225.2 | 228.6 | 234.6 | 243.2 | 246.5 |
| 45° | 215.9 | 219.2 | 224.6 | 232.6 | 236.6 |
| 47.5° | 205.9 | 209.2 | 214.6 | 222.6 | 226.6 |
| 50° | 195.9 | 198.6 | 203.9 | 211.2 | 215.2 |
| 52.5° | 184.6 | 187.2 | 192.6 | 199.2 | 203.2 |
| 55° | 173.2 | 175.9 | 181.2 | 187.2 | 191.9 |
| 57.5° | 161.3 | 163.9 | 167.9 | 174.6 | 179.9 |
| 60° | 148.6 | 151.3 | 155.3 | 162.6 | 167.3 |
| 62.5° | 135.3 | 137.9 | 142.6 | 150.6 | 157.9 |
| 65° | 121.9 | 124.6 | 129.9 | 141.9 | 149.3 |
| 67.5° | 108.6 | 111.3 | 115.9 | 133.3 | 145.3 |
| 70° | 94.6 | 97.3 | 105.3 | 129.3 | 137.3 |
| 72.5° | 80.0 | 84.0 | 97.3 | 119.3 | 122.6 |
| 75° | 66.0 | 70.0 | 91.3 | 102.0 | 104.6 |
| 77.5° | 51.3 | 57.3 | 79.3 | 84.0 | 85.3 |
| 80° | 38.6 | 47.3 | 62.0 | 68.0 | 68.6 |
| 82.5° | 26.0 | 40.6 | 48.0 | 52.0 | 52.0 |
| 85° | 15.3 | 28.0 | 35.3 | 39.3 | 39.3 |
| 87.5° | 8.7 | 18.7 | 26.0 | 30.7 | 30.0 |
| 90° | 2.0 | 3.3 | 3.3 | 2.7 | 2.7 |
| 92.5° | 24.0 | 65.3 | 21.3 | 20.0 | 20.0 |
| 95° | 44.6 | 349.2 | 257.2 | 43.3 | 43.3 |
| 97.5° | 62.0 | 424.5 | 728.3 | 881.6 | 663.0 |
| 100° | 84.6 | 509.1 | 775.0 | 954.9 | 1014.8 |
| 102.5° | 106.6 | 540.4 | 818.9 | 981.5 | 1041.5 |
| 105° | 131.9 | 554.4 | 866.2 | 1018.8 | 1074.1 |
| 107.5° | 156.6 | 562.4 | 924.2 | 1051.5 | 1104.8 |
| 110° | 181.9 | 566.4 | 958.9 | 1089.5 | 1135.5 |



TEST NUMBER: P253590

CATALOG NUMBER: J3-UL-50L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 205.2 | 569.7 | 945.5 | 1133.5 | 1170.8 |
| 115° | 229.9 | 573.1 | 937.5 | 1158.8 | 1210.1 |
| 117.5° | 253.9 | 575.1 | 928.2 | 1132.8 | 1210.1 |
| 120° | 277.9 | 578.4 | 920.2 | 1115.5 | 1182.8 |
| 122.5° | 297.9 | 582.4 | 910.9 | 1100.1 | 1164.1 |
| 125° | 320.5 | 585.7 | 900.2 | 1083.5 | 1146.1 |
| 127.5° | 342.5 | 589.0 | 888.2 | 1066.2 | 1128.1 |
| 130° | 361.8 | 596.4 | 876.2 | 1048.8 | 1106.1 |
| 132.5° | 379.1 | 600.4 | 862.9 | 1028.2 | 1084.8 |
| 135° | 396.5 | 601.7 | 848.9 | 1008.2 | 1062.2 |
| 137.5° | 413.1 | 601.0 | 834.9 | 985.5 | 1036.8 |
| 140° | 430.5 | 599.0 | 817.6 | 962.2 | 1010.8 |
| 142.5° | 445.8 | 595.0 | 800.3 | 936.2 | 981.5 |
| 145° | 460.4 | 590.4 | 782.3 | 908.9 | 951.5 |
| 147.5° | 473.1 | 583.1 | 768.3 | 879.6 | 920.9 |
| 150° | 485.1 | 575.1 | 751.6 | 849.6 | 886.2 |
| 152.5° | 493.8 | 567.7 | 731.0 | 820.9 | 851.6 |
| 155° | 504.4 | 561.1 | 705.7 | 795.6 | 822.9 |
| 157.5° | 511.1 | 555.7 | 679.0 | 764.3 | 791.0 |
| 160° | 519.7 | 551.7 | 651.7 | 730.3 | 755.0 |
| 162.5° | 525.7 | 547.7 | 621.7 | 692.3 | 716.3 |
| 165° | 529.7 | 544.4 | 594.4 | 652.4 | 674.3 |
| 167.5° | 533.7 | 543.1 | 574.4 | 610.4 | 627.7 |
| 170° | 537.1 | 541.7 | 560.4 | 579.1 | 588.4 |
| 172.5° | 539.1 | 541.1 | 549.1 | 559.1 | 563.7 |
| 175° | 540.4 | 541.1 | 544.4 | 546.4 | 547.7 |
| 177.5° | 541.1 | 541.1 | 541.1 | 540.4 | 541.1 |
| 180° | 540.4 | 540.4 | 540.4 | 540.4 | 540.4 |

(END OF REPORT)