

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: P253499

Luminaire Tested: **J3-CL-80L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253499
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-80L93050-1D-UNV-W2A-W-4 (5000K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7140.4 lumens
Efficiency: N/A
Efficacy: 110.0 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

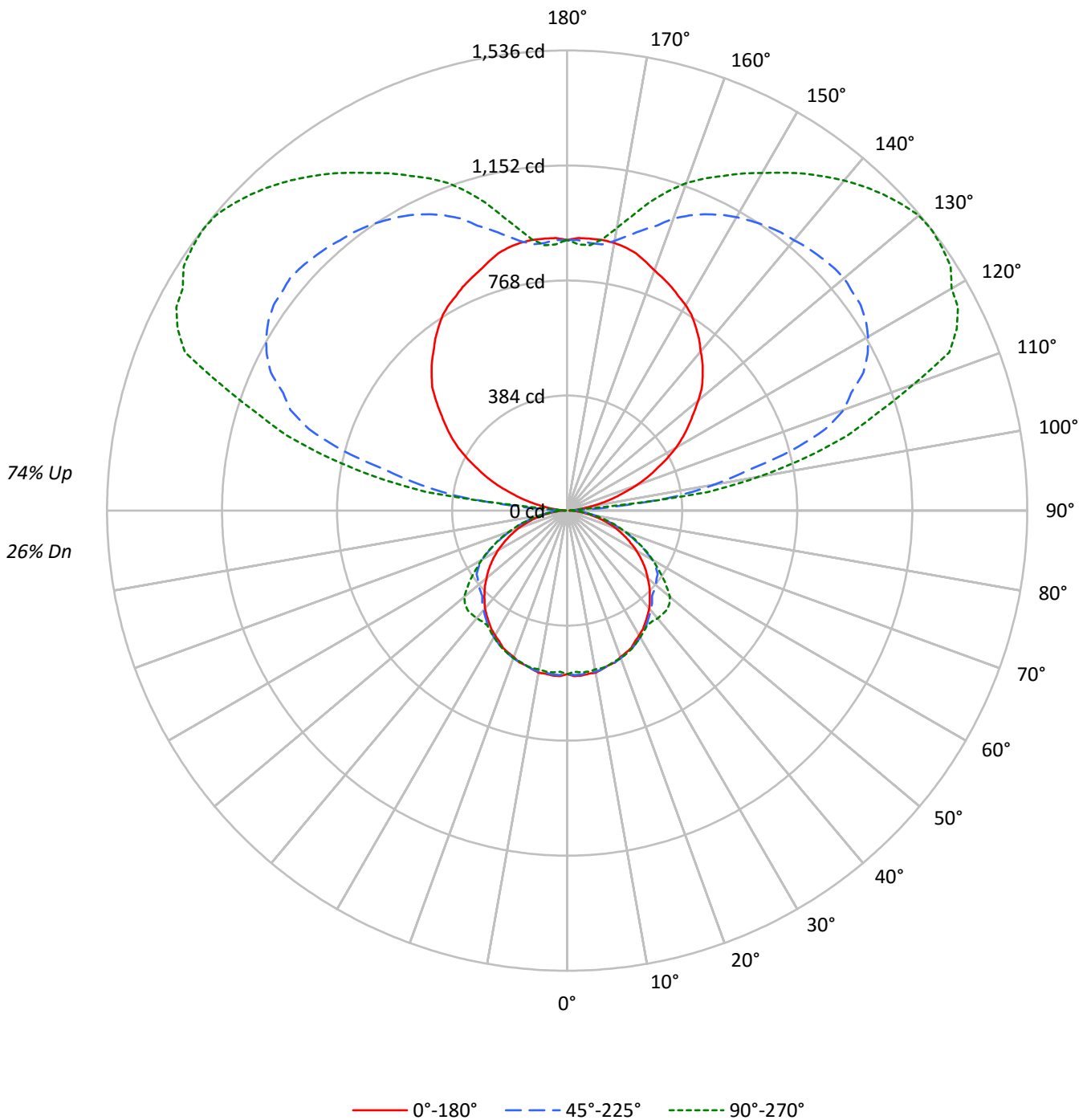
Input Watts (W): 64.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253499

CATALOG NUMBER: J3-CL-80L93050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P253499

CATALOG NUMBER: J3-CL-80L93050-1D-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 | 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° | 4405 | 4405 | 4405 |
| 5° | 4481 | 4451 | 4393 |
| 10° | 4503 | 4473 | 4414 |
| 15° | 4470 | 4470 | 4470 |
| 20° | 4471 | 4502 | 4502 |
| 25° | 4506 | 4538 | 4538 |
| 30° | 4480 | 4548 | 4548 |
| 35° | 4487 | 4559 | 4595 |
| 40° | 4494 | 4571 | 4951 |
| 45° | 4456 | 4579 | 5364 |
| 50° | 4402 | 4857 | 5628 |
| 55° | 4374 | 5188 | 5493 |
| 60° | 4317 | 5310 | 5310 |
| 65° | 4210 | 5039 | 5108 |
| 70° | 4095 | 4777 | 4862 |
| 75° | 3833 | 4510 | 4623 |
| 80° | 3529 | 4370 | 4198 |
| 85° | 3344 | 4687 | 4020 |



TEST NUMBER: P253499

CATALOG NUMBER: J3-CL-80L93050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.1 | 0.7 |
| 10°-20° | 151.0 | 2.1 |
| 20°-30° | 233.4 | 3.3 |
| 30°-40° | 289.5 | 4.1 |
| 40°-50° | 324.0 | 4.5 |
| 50°-60° | 316.6 | 4.4 |
| 60°-70° | 249.7 | 3.5 |
| 70°-80° | 151.1 | 2.1 |
| 80°-90° | 53.8 | 0.8 |
| 90°-100° | 185.5 | 2.6 |
| 100°-110° | 717.2 | 10.0 |
| 110°-120° | 985.7 | 13.8 |
| 120°-130° | 997.2 | 14.0 |
| 130°-140° | 883.8 | 12.4 |
| 140°-150° | 699.0 | 9.8 |
| 150°-160° | 488.0 | 6.8 |
| 160°-170° | 276.2 | 3.9 |
| 170°-180° | 86.6 | 1.2 |
| 0°-30° | 436.5 | 6.1 |
| 0°-40° | 726.0 | 10.2 |
| 0°-60° | 1366.5 | 19.1 |
| 0°-90° | 1821.2 | 25.5 |
| 90°-120° | 1888.4 | 26.4 |
| 90°-150° | 4468.4 | 62.6 |
| 90°-180° | 5319.0 | 74.5 |
| 0°-180° | 7140.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 546 | 546 | 546 | 546 | 546 | |
| 5° | 553 | 546 | 549 | 546 | 542 | 53 |
| 15° | 535 | 531 | 535 | 535 | 535 | 151 |
| 25° | 506 | 499 | 510 | 510 | 510 | 232 |
| 35° | 455 | 455 | 463 | 466 | 466 | 285 |
| 45° | 390 | 394 | 401 | 452 | 470 | 301 |
| 55° | 311 | 314 | 369 | 390 | 390 | 278 |
| 65° | 220 | 231 | 264 | 267 | 267 | 217 |
| 75° | 123 | 145 | 145 | 148 | 148 | 130 |
| 85° | 36 | 58 | 51 | 47 | 43 | 38 |
| 90° | 7 | 22 | 18 | 4 | 4 | 7 |
| 95° | 29 | 145 | 174 | 36 | 36 | 36 |
| 105° | 159 | 513 | 777 | 896 | 968 | 169 |
| 115° | 329 | 694 | 1091 | 1352 | 1435 | 328 |
| 125° | 495 | 802 | 1196 | 1456 | 1529 | 443 |
| 135° | 640 | 882 | 1196 | 1431 | 1492 | 493 |
| 145° | 748 | 903 | 1160 | 1330 | 1373 | 468 |
| 155° | 824 | 882 | 1091 | 1211 | 1232 | 380 |
| 165° | 889 | 885 | 968 | 1052 | 1066 | 250 |
| 175° | 911 | 900 | 896 | 896 | 889 | 87 |
| 180° | 903 | 903 | 903 | 903 | 903 | |



TEST NUMBER: P253499

CATALOG NUMBER: J3-CL-80L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 0° | 545.7 | 545.7 | 545.7 | 545.7 | 545.7 |
| 2.5° | 552.9 | 545.7 | 549.3 | 545.7 | 538.5 |
| 5° | 552.9 | 545.7 | 549.3 | 545.7 | 542.1 |
| 7.5° | 549.3 | 545.7 | 545.7 | 542.1 | 542.1 |
| 10° | 549.3 | 542.1 | 545.7 | 542.1 | 538.5 |
| 12.5° | 542.1 | 538.5 | 542.1 | 538.5 | 538.5 |
| 15° | 534.8 | 531.2 | 534.8 | 534.8 | 534.8 |
| 17.5° | 531.2 | 524.0 | 531.2 | 531.2 | 527.6 |
| 20° | 520.4 | 516.8 | 524.0 | 524.0 | 524.0 |
| 22.5° | 513.2 | 509.5 | 516.8 | 516.8 | 516.8 |
| 25° | 505.9 | 498.7 | 509.5 | 509.5 | 509.5 |
| 27.5° | 491.5 | 491.5 | 498.7 | 502.3 | 498.7 |
| 30° | 480.6 | 477.0 | 487.9 | 491.5 | 487.9 |
| 32.5° | 469.8 | 466.2 | 477.0 | 480.6 | 477.0 |
| 35° | 455.3 | 455.3 | 462.6 | 466.2 | 466.2 |
| 37.5° | 440.9 | 440.9 | 448.1 | 451.7 | 466.2 |
| 40° | 426.4 | 426.4 | 433.7 | 455.3 | 469.8 |
| 42.5° | 408.4 | 408.4 | 419.2 | 451.7 | 469.8 |
| 45° | 390.3 | 393.9 | 401.1 | 451.7 | 469.8 |
| 47.5° | 372.2 | 375.8 | 393.9 | 448.1 | 462.6 |
| 50° | 350.5 | 357.8 | 386.7 | 437.3 | 448.1 |
| 52.5° | 332.5 | 336.1 | 375.8 | 419.2 | 419.2 |
| 55° | 310.8 | 314.4 | 368.6 | 390.3 | 390.3 |
| 57.5° | 289.1 | 292.7 | 350.5 | 357.8 | 357.8 |
| 60° | 267.4 | 271.0 | 328.9 | 328.9 | 328.9 |
| 62.5° | 242.1 | 249.4 | 296.3 | 299.9 | 299.9 |
| 65° | 220.4 | 231.3 | 263.8 | 267.4 | 267.4 |
| 67.5° | 195.1 | 213.2 | 234.9 | 238.5 | 238.5 |
| 70° | 173.5 | 195.1 | 202.4 | 206.0 | 206.0 |
| 72.5° | 148.2 | 169.8 | 173.5 | 177.1 | 177.1 |
| 75° | 122.9 | 144.6 | 144.6 | 148.2 | 148.2 |
| 77.5° | 97.6 | 115.6 | 119.3 | 119.3 | 119.3 |
| 80° | 75.9 | 86.7 | 94.0 | 90.3 | 90.3 |
| 82.5° | 54.2 | 68.7 | 68.7 | 68.7 | 65.0 |
| 85° | 36.1 | 57.8 | 50.6 | 47.0 | 43.4 |
| 87.5° | 21.7 | 50.6 | 28.9 | 25.3 | 25.3 |
| 90° | 7.2 | 21.7 | 18.1 | 3.6 | 3.6 |
| 92.5° | 14.5 | 36.1 | 18.1 | 14.5 | 10.8 |
| 95° | 28.9 | 144.6 | 173.5 | 36.1 | 36.1 |
| 97.5° | 54.2 | 242.1 | 372.2 | 440.9 | 473.4 |
| 100° | 83.1 | 361.4 | 498.7 | 610.7 | 650.5 |
| 102.5° | 119.3 | 437.3 | 614.3 | 755.3 | 813.1 |
| 105° | 159.0 | 513.2 | 777.0 | 896.2 | 968.5 |
| 107.5° | 198.8 | 571.0 | 903.4 | 1037.2 | 1087.7 |
| 110° | 245.7 | 618.0 | 982.9 | 1214.2 | 1228.7 |



TEST NUMBER: P253499

CATALOG NUMBER: J3-CL-80L93050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 289.1 | 654.1 | 1026.3 | 1301.0 | 1380.5 |
| 115° | 328.9 | 693.8 | 1091.4 | 1351.6 | 1434.7 |
| 117.5° | 375.8 | 722.8 | 1131.1 | 1380.5 | 1470.8 |
| 120° | 419.2 | 748.1 | 1160.0 | 1416.6 | 1481.7 |
| 122.5° | 459.0 | 777.0 | 1181.7 | 1445.5 | 1517.8 |
| 125° | 495.1 | 802.3 | 1196.2 | 1456.4 | 1528.6 |
| 127.5° | 531.2 | 823.9 | 1199.8 | 1460.0 | 1535.9 |
| 130° | 571.0 | 845.6 | 1207.0 | 1456.4 | 1532.2 |
| 132.5° | 610.7 | 867.3 | 1203.4 | 1445.5 | 1514.2 |
| 135° | 639.6 | 881.8 | 1196.2 | 1431.1 | 1492.5 |
| 137.5° | 668.6 | 892.6 | 1188.9 | 1409.4 | 1467.2 |
| 140° | 693.8 | 899.8 | 1178.1 | 1384.1 | 1438.3 |
| 142.5° | 722.8 | 903.4 | 1170.9 | 1358.8 | 1405.8 |
| 145° | 748.1 | 903.4 | 1160.0 | 1329.9 | 1373.2 |
| 147.5° | 773.4 | 899.8 | 1145.6 | 1301.0 | 1337.1 |
| 150° | 791.4 | 892.6 | 1131.1 | 1272.1 | 1301.0 |
| 152.5° | 805.9 | 885.4 | 1113.0 | 1239.5 | 1268.4 |
| 155° | 823.9 | 881.8 | 1091.4 | 1210.6 | 1232.3 |
| 157.5° | 838.4 | 881.8 | 1066.1 | 1178.1 | 1199.8 |
| 160° | 852.9 | 881.8 | 1037.2 | 1145.6 | 1163.6 |
| 162.5° | 870.9 | 881.8 | 997.4 | 1098.6 | 1116.7 |
| 165° | 889.0 | 885.4 | 968.5 | 1051.6 | 1066.1 |
| 167.5° | 899.8 | 885.4 | 939.6 | 993.8 | 1008.2 |
| 170° | 907.1 | 892.6 | 914.3 | 954.0 | 957.7 |
| 172.5° | 910.7 | 899.8 | 896.2 | 914.3 | 914.3 |
| 175° | 910.7 | 899.8 | 896.2 | 896.2 | 889.0 |
| 177.5° | 910.7 | 903.4 | 903.4 | 899.8 | 889.0 |
| 180° | 903.4 | 903.4 | 903.4 | 903.4 | 903.4 |

(END OF REPORT)