

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: P253307

Luminaire Tested: **J3-UL-80L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-80L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

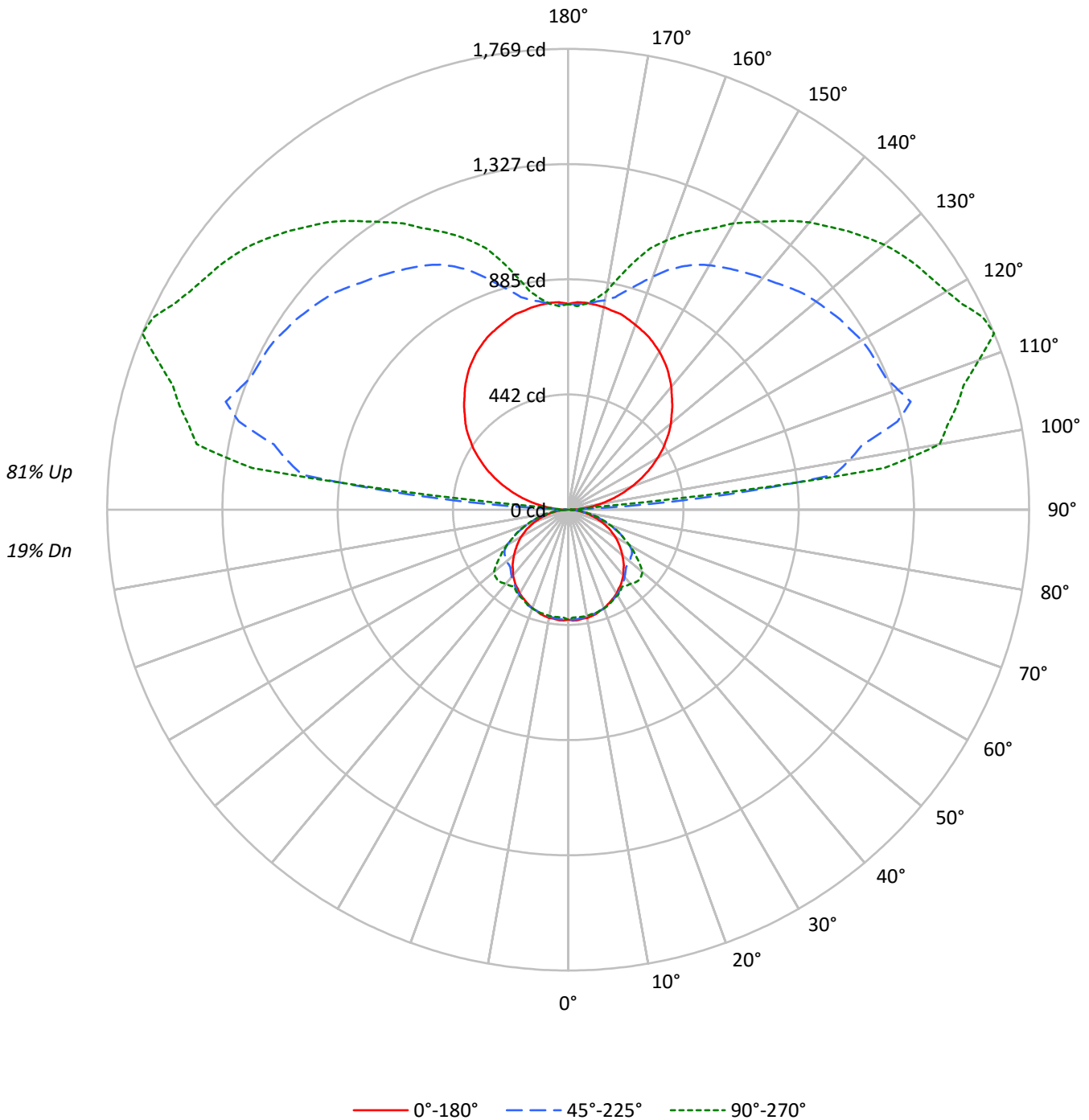
Lumens per Lamp: N/A
Luminaire Lumens: 7647.3 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): 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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Luminous Intensity Polar Plot





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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 | 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 | 36 | 30 | 28 | 26 | 18 | 17 | 16 | 10 | | | | |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 16 | 15 | 13 | 9 | | | | |
| 5 | 62 | 51 | 43 | 38 | 55 | 45 | 39 | 34 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 11 | 7 | | | | |
| 6 | 57 | 46 | 38 | 32 | 50 | 40 | 34 | 29 | 31 | 26 | 23 | 21 | 18 | 16 | 13 | 11 | 10 | 6 | | | | |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 19 | 16 | 14 | 12 | 10 | 9 | 6 | | | | |
| 8 | 49 | 37 | 30 | 24 | 43 | 33 | 26 | 22 | 25 | 20 | 17 | 18 | 15 | 12 | 11 | 9 | 8 | 5 | | | | |
| 9 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 4 | | | | |
| 10 | 42 | 30 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 16 | 13 | 15 | 12 | 10 | 9 | 7 | 6 | 4 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3406 | 3406 | 3406 |
| 5° | 3451 | 3419 | 3357 |
| 10° | 3459 | 3427 | 3395 |
| 15° | 3462 | 3429 | 3429 |
| 20° | 3459 | 3459 | 3459 |
| 25° | 3448 | 3482 | 3482 |
| 30° | 3464 | 3500 | 3536 |
| 35° | 3471 | 3509 | 3548 |
| 40° | 3467 | 3549 | 3916 |
| 45° | 3447 | 3579 | 4375 |
| 50° | 3404 | 3890 | 4667 |
| 55° | 3378 | 4194 | 4522 |
| 60° | 3374 | 4376 | 4376 |
| 65° | 3328 | 4214 | 4214 |
| 70° | 3198 | 4020 | 4020 |
| 75° | 3019 | 3743 | 3865 |
| 80° | 2878 | 3598 | 3598 |
| 85° | 2510 | 4298 | 3585 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.9 | 0.5 |
| 10°-20° | 115.9 | 1.5 |
| 20°-30° | 179.7 | 2.4 |
| 30°-40° | 224.0 | 2.9 |
| 40°-50° | 255.4 | 3.3 |
| 50°-60° | 255.1 | 3.3 |
| 60°-70° | 203.2 | 2.7 |
| 70°-80° | 125.1 | 1.6 |
| 80°-90° | 44.8 | 0.6 |
| 90°-100° | 475.3 | 6.2 |
| 100°-110° | 1157.8 | 15.1 |
| 110°-120° | 1183.8 | 15.5 |
| 120°-130° | 1050.5 | 13.7 |
| 130°-140° | 879.2 | 11.5 |
| 140°-150° | 672.7 | 8.8 |
| 150°-160° | 457.7 | 6.0 |
| 160°-170° | 250.4 | 3.3 |
| 170°-180° | 76.6 | 1.0 |
| 0°-30° | 335.6 | 4.4 |
| 0°-40° | 559.7 | 7.3 |
| 0°-60° | 1070.2 | 14.0 |
| 0°-90° | 1443.3 | 18.9 |
| 90°-120° | 2816.9 | 36.8 |
| 90°-150° | 5419.3 | 70.9 |
| 90°-180° | 6204.0 | 81.1 |
| 0°-180° | 7647.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 422 | 422 | 422 | 422 | 422 | |
| 5° | 426 | 418 | 422 | 418 | 414 | 40 |
| 15° | 414 | 410 | 410 | 410 | 410 | 117 |
| 25° | 387 | 387 | 391 | 391 | 391 | 179 |
| 35° | 352 | 352 | 356 | 360 | 360 | 220 |
| 45° | 302 | 302 | 314 | 364 | 383 | 232 |
| 55° | 240 | 244 | 298 | 321 | 321 | 215 |
| 65° | 174 | 186 | 221 | 221 | 221 | 171 |
| 75° | 97 | 120 | 120 | 124 | 124 | 103 |
| 85° | 27 | 39 | 46 | 43 | 39 | 31 |
| 90° | 8 | 16 | 8 | 0 | 0 | 10 |
| 95° | 62 | 507 | 507 | 62 | 62 | 63 |
| 105° | 190 | 778 | 1308 | 1463 | 1544 | 200 |
| 115° | 329 | 794 | 1312 | 1641 | 1753 | 325 |
| 125° | 457 | 821 | 1274 | 1548 | 1633 | 409 |
| 135° | 565 | 855 | 1204 | 1444 | 1514 | 436 |
| 145° | 662 | 848 | 1122 | 1304 | 1351 | 414 |
| 155° | 732 | 805 | 1030 | 1157 | 1181 | 337 |
| 165° | 778 | 794 | 871 | 960 | 987 | 219 |
| 175° | 797 | 790 | 794 | 797 | 794 | 76 |
| 180° | 790 | 790 | 790 | 790 | 790 | |



TEST NUMBER: P253307

CATALOG NUMBER: J3-UL-80L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 421.9 | 421.9 | 421.9 | 421.9 | 421.9 |
| 2.5° | 425.8 | 421.9 | 421.9 | 418.0 | 414.2 |
| 5° | 425.8 | 418.0 | 421.9 | 418.0 | 414.2 |
| 7.5° | 421.9 | 418.0 | 418.0 | 418.0 | 414.2 |
| 10° | 421.9 | 414.2 | 418.0 | 414.2 | 414.2 |
| 12.5° | 418.0 | 414.2 | 414.2 | 414.2 | 410.3 |
| 15° | 414.2 | 410.3 | 410.3 | 410.3 | 410.3 |
| 17.5° | 406.4 | 402.6 | 406.4 | 406.4 | 406.4 |
| 20° | 402.6 | 398.7 | 402.6 | 402.6 | 402.6 |
| 22.5° | 394.8 | 390.9 | 398.7 | 398.7 | 398.7 |
| 25° | 387.1 | 387.1 | 390.9 | 390.9 | 390.9 |
| 27.5° | 379.3 | 379.3 | 383.2 | 387.1 | 383.2 |
| 30° | 371.6 | 367.7 | 375.5 | 379.3 | 379.3 |
| 32.5° | 360.0 | 360.0 | 367.7 | 367.7 | 371.6 |
| 35° | 352.2 | 352.2 | 356.1 | 360.0 | 360.0 |
| 37.5° | 340.6 | 340.6 | 348.4 | 352.2 | 367.7 |
| 40° | 329.0 | 329.0 | 336.8 | 356.1 | 371.6 |
| 42.5° | 313.5 | 317.4 | 325.1 | 356.1 | 379.3 |
| 45° | 301.9 | 301.9 | 313.5 | 363.8 | 383.2 |
| 47.5° | 286.4 | 290.3 | 309.7 | 363.8 | 379.3 |
| 50° | 271.0 | 274.8 | 309.7 | 360.0 | 371.6 |
| 52.5° | 255.5 | 259.3 | 301.9 | 344.5 | 348.4 |
| 55° | 240.0 | 243.9 | 298.0 | 321.3 | 321.3 |
| 57.5° | 224.5 | 228.4 | 290.3 | 298.0 | 298.0 |
| 60° | 209.0 | 212.9 | 271.0 | 271.0 | 271.0 |
| 62.5° | 189.7 | 193.5 | 243.9 | 243.9 | 243.9 |
| 65° | 174.2 | 185.8 | 220.6 | 220.6 | 220.6 |
| 67.5° | 154.8 | 170.3 | 193.5 | 197.4 | 197.4 |
| 70° | 135.5 | 158.7 | 170.3 | 170.3 | 170.3 |
| 72.5° | 116.1 | 143.2 | 143.2 | 147.1 | 147.1 |
| 75° | 96.8 | 120.0 | 120.0 | 123.9 | 123.9 |
| 77.5° | 77.4 | 96.8 | 96.8 | 100.6 | 100.6 |
| 80° | 61.9 | 73.5 | 77.4 | 77.4 | 77.4 |
| 82.5° | 46.4 | 58.1 | 58.1 | 58.1 | 58.1 |
| 85° | 27.1 | 38.7 | 46.4 | 42.6 | 38.7 |
| 87.5° | 15.5 | 31.0 | 31.0 | 27.1 | 23.2 |
| 90° | 7.7 | 15.5 | 7.7 | 0.0 | 0.0 |
| 92.5° | 38.7 | 127.7 | 38.7 | 27.1 | 27.1 |
| 95° | 61.9 | 507.1 | 507.1 | 61.9 | 61.9 |
| 97.5° | 89.0 | 627.1 | 1029.6 | 1296.7 | 1223.2 |
| 100° | 120.0 | 781.9 | 1095.4 | 1354.8 | 1447.7 |
| 102.5° | 154.8 | 770.3 | 1157.3 | 1405.1 | 1490.2 |
| 105° | 189.7 | 778.0 | 1308.3 | 1463.1 | 1544.4 |
| 107.5° | 224.5 | 778.0 | 1378.0 | 1501.8 | 1590.9 |
| 110° | 259.3 | 778.0 | 1347.0 | 1660.5 | 1676.0 |



TEST NUMBER: P253307

CATALOG NUMBER: J3-UL-80L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 294.2 | 785.8 | 1319.9 | 1672.2 | 1768.9 |
| 115° | 329.0 | 793.5 | 1312.2 | 1641.2 | 1753.4 |
| 117.5° | 363.8 | 797.4 | 1308.3 | 1602.5 | 1707.0 |
| 120° | 394.8 | 801.2 | 1300.6 | 1587.0 | 1676.0 |
| 122.5° | 429.7 | 809.0 | 1285.1 | 1567.6 | 1652.8 |
| 125° | 456.7 | 820.6 | 1273.5 | 1548.3 | 1633.4 |
| 127.5° | 487.7 | 828.3 | 1258.0 | 1528.9 | 1610.2 |
| 130° | 514.8 | 839.9 | 1242.5 | 1498.0 | 1583.1 |
| 132.5° | 538.0 | 851.6 | 1227.0 | 1474.7 | 1548.3 |
| 135° | 565.1 | 855.4 | 1203.8 | 1443.8 | 1513.5 |
| 137.5° | 588.4 | 859.3 | 1180.6 | 1416.7 | 1474.7 |
| 140° | 615.4 | 855.4 | 1161.2 | 1378.0 | 1439.9 |
| 142.5° | 638.7 | 851.6 | 1141.9 | 1339.3 | 1397.3 |
| 145° | 661.9 | 847.7 | 1122.5 | 1304.4 | 1350.9 |
| 147.5° | 681.2 | 839.9 | 1103.2 | 1265.7 | 1308.3 |
| 150° | 700.6 | 828.3 | 1083.8 | 1230.9 | 1269.6 |
| 152.5° | 716.1 | 816.7 | 1060.6 | 1192.2 | 1219.3 |
| 155° | 731.6 | 805.1 | 1029.6 | 1157.3 | 1180.6 |
| 157.5° | 743.2 | 797.4 | 994.8 | 1118.6 | 1141.9 |
| 160° | 754.8 | 793.5 | 952.2 | 1079.9 | 1099.3 |
| 162.5° | 766.4 | 793.5 | 909.6 | 1029.6 | 1052.8 |
| 165° | 778.0 | 793.5 | 870.9 | 959.9 | 987.0 |
| 167.5° | 781.9 | 789.6 | 836.1 | 894.1 | 917.4 |
| 170° | 789.6 | 789.6 | 816.7 | 843.8 | 851.6 |
| 172.5° | 793.5 | 789.6 | 805.1 | 816.7 | 816.7 |
| 175° | 797.4 | 789.6 | 793.5 | 797.4 | 793.5 |
| 177.5° | 797.4 | 789.6 | 789.6 | 789.6 | 781.9 |
| 180° | 789.6 | 789.6 | 789.6 | 789.6 | 789.6 |

(END OF REPORT)