

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: P253463

Luminaire Tested: **J3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253463  
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-80L83050-1D-UNV-W2A-W-4 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8118.2 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

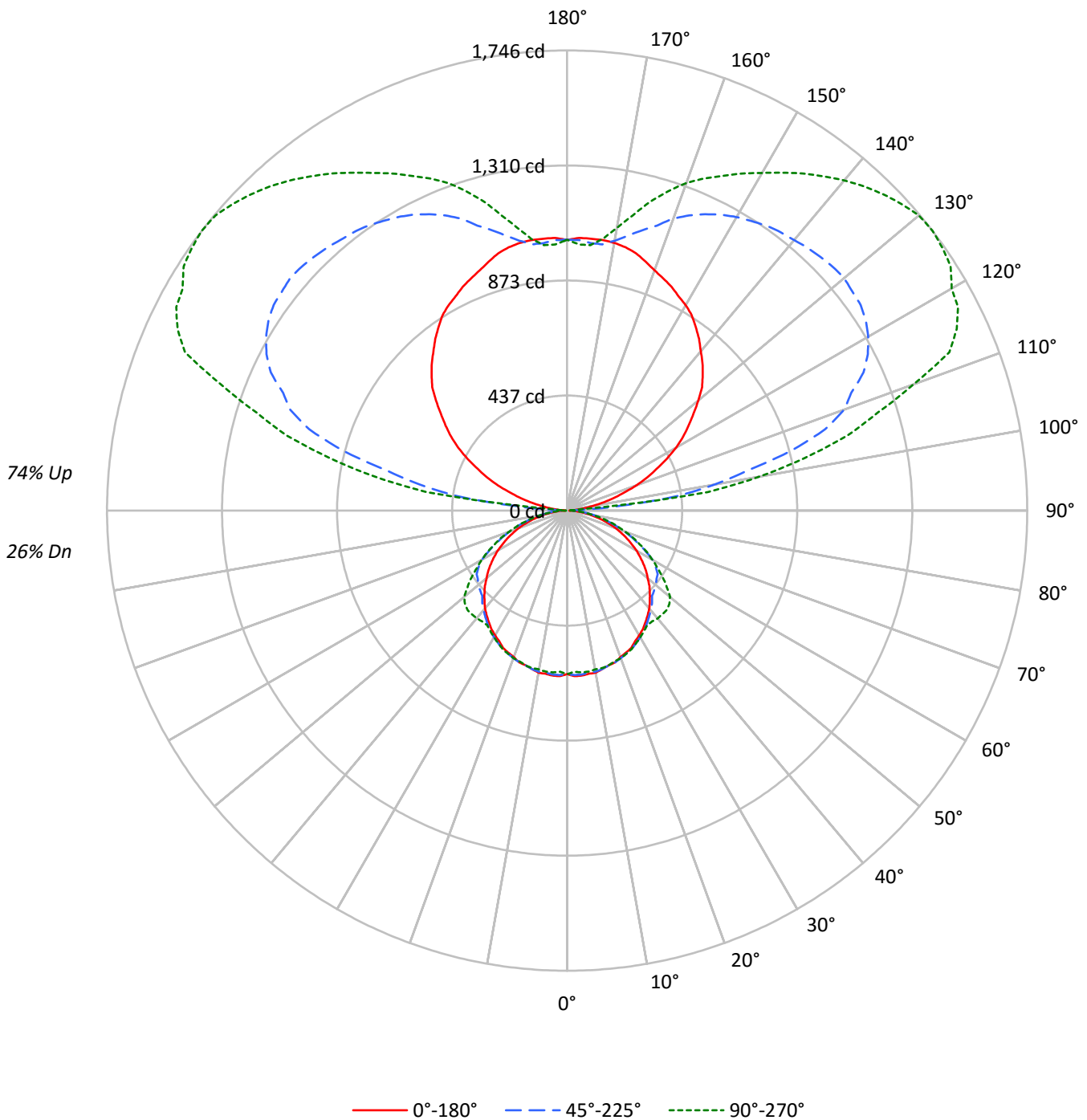
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 5008 | 5008 | 5008 |
| 5°  | 5094 | 5061 | 4994 |
| 10° | 5119 | 5086 | 5018 |
| 15° | 5082 | 5082 | 5082 |
| 20° | 5082 | 5119 | 5119 |
| 25° | 5124 | 5160 | 5160 |
| 30° | 5094 | 5171 | 5171 |
| 35° | 5102 | 5183 | 5223 |
| 40° | 5109 | 5195 | 5629 |
| 45° | 5066 | 5207 | 6098 |
| 50° | 5005 | 5521 | 6399 |
| 55° | 4973 | 5899 | 6245 |
| 60° | 4908 | 6037 | 6037 |
| 65° | 4787 | 5729 | 5807 |
| 70° | 4655 | 5431 | 5528 |
| 75° | 4357 | 5125 | 5256 |
| 80° | 4012 | 4965 | 4775 |
| 85° | 3807 | 5326 | 4566 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.2   | 0.7       |
| 10°-20°   | 171.7  | 2.1       |
| 20°-30°   | 265.4  | 3.3       |
| 30°-40°   | 329.2  | 4.1       |
| 40°-50°   | 368.3  | 4.5       |
| 50°-60°   | 359.9  | 4.4       |
| 60°-70°   | 283.9  | 3.5       |
| 70°-80°   | 171.8  | 2.1       |
| 80°-90°   | 61.2   | 0.8       |
| 90°-100°  | 210.9  | 2.6       |
| 100°-110° | 815.5  | 10.0      |
| 110°-120° | 1120.7 | 13.8      |
| 120°-130° | 1133.8 | 14.0      |
| 130°-140° | 1004.8 | 12.4      |
| 140°-150° | 794.7  | 9.8       |
| 150°-160° | 554.9  | 6.8       |
| 160°-170° | 314.0  | 3.9       |
| 170°-180° | 98.4   | 1.2       |
| 0°-30°    | 496.2  | 6.1       |
| 0°-40°    | 825.4  | 10.2      |
| 0°-60°    | 1553.6 | 19.1      |
| 0°-90°    | 2070.6 | 25.5      |
| 90°-120°  | 2147.0 | 26.4      |
| 90°-150°  | 5080.3 | 62.6      |
| 90°-180°  | 6048.0 | 74.5      |
| 0°-180°   | 8118.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 620  | 620   | 620  | 620   | 620  |      |
| 5°   | 629  | 620   | 624  | 620   | 616  | 60   |
| 15°  | 608  | 604   | 608  | 608   | 608  | 172  |
| 25°  | 575  | 567   | 579  | 579   | 579  | 264  |
| 35°  | 518  | 518   | 526  | 530   | 530  | 324  |
| 45°  | 444  | 448   | 456  | 514   | 534  | 342  |
| 55°  | 353  | 358   | 419  | 444   | 444  | 316  |
| 65°  | 251  | 263   | 300  | 304   | 304  | 247  |
| 75°  | 140  | 164   | 164  | 168   | 168  | 148  |
| 85°  | 41   | 66    | 58   | 53    | 49   | 43   |
| 90°  | 8    | 25    | 20   | 4     | 4    | 8    |
| 95°  | 33   | 164   | 197  | 41    | 41   | 41   |
| 105° | 181  | 583   | 883  | 1019  | 1101 | 192  |
| 115° | 374  | 789   | 1241 | 1537  | 1631 | 373  |
| 125° | 563  | 912   | 1360 | 1656  | 1738 | 504  |
| 135° | 727  | 1002  | 1360 | 1627  | 1697 | 560  |
| 145° | 850  | 1027  | 1319 | 1512  | 1561 | 532  |
| 155° | 937  | 1002  | 1241 | 1376  | 1401 | 432  |
| 165° | 1011 | 1007  | 1101 | 1196  | 1212 | 284  |
| 175° | 1035 | 1023  | 1019 | 1019  | 1011 | 99   |
| 180° | 1027 | 1027  | 1027 | 1027  | 1027 |      |



TEST NUMBER: P253463

CATALOG NUMBER: J3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°    | 67.5°  | 90°    |
|--------|-------|-------|--------|--------|--------|
| 0°     | 620.4 | 620.4 | 620.4  | 620.4  | 620.4  |
| 2.5°   | 628.6 | 620.4 | 624.5  | 620.4  | 612.2  |
| 5°     | 628.6 | 620.4 | 624.5  | 620.4  | 616.3  |
| 7.5°   | 624.5 | 620.4 | 620.4  | 616.3  | 616.3  |
| 10°    | 624.5 | 616.3 | 620.4  | 616.3  | 612.2  |
| 12.5°  | 616.3 | 612.2 | 616.3  | 612.2  | 612.2  |
| 15°    | 608.1 | 604.0 | 608.1  | 608.1  | 608.1  |
| 17.5°  | 604.0 | 595.8 | 604.0  | 604.0  | 599.9  |
| 20°    | 591.6 | 587.5 | 595.8  | 595.8  | 595.8  |
| 22.5°  | 583.4 | 579.3 | 587.5  | 587.5  | 587.5  |
| 25°    | 575.2 | 567.0 | 579.3  | 579.3  | 579.3  |
| 27.5°  | 558.8 | 558.8 | 567.0  | 571.1  | 567.0  |
| 30°    | 546.5 | 542.3 | 554.7  | 558.8  | 554.7  |
| 32.5°  | 534.1 | 530.0 | 542.3  | 546.5  | 542.3  |
| 35°    | 517.7 | 517.7 | 525.9  | 530.0  | 530.0  |
| 37.5°  | 501.3 | 501.3 | 509.5  | 513.6  | 530.0  |
| 40°    | 484.8 | 484.8 | 493.0  | 517.7  | 534.1  |
| 42.5°  | 464.3 | 464.3 | 476.6  | 513.6  | 534.1  |
| 45°    | 443.7 | 447.8 | 456.1  | 513.6  | 534.1  |
| 47.5°  | 423.2 | 427.3 | 447.8  | 509.5  | 525.9  |
| 50°    | 398.5 | 406.8 | 439.6  | 497.1  | 509.5  |
| 52.5°  | 378.0 | 382.1 | 427.3  | 476.6  | 476.6  |
| 55°    | 353.3 | 357.5 | 419.1  | 443.7  | 443.7  |
| 57.5°  | 328.7 | 332.8 | 398.5  | 406.8  | 406.8  |
| 60°    | 304.0 | 308.2 | 373.9  | 373.9  | 373.9  |
| 62.5°  | 275.3 | 283.5 | 336.9  | 341.0  | 341.0  |
| 65°    | 250.6 | 263.0 | 299.9  | 304.0  | 304.0  |
| 67.5°  | 221.9 | 242.4 | 267.1  | 271.2  | 271.2  |
| 70°    | 197.2 | 221.9 | 230.1  | 234.2  | 234.2  |
| 72.5°  | 168.5 | 193.1 | 197.2  | 201.3  | 201.3  |
| 75°    | 139.7 | 164.3 | 164.3  | 168.5  | 168.5  |
| 77.5°  | 110.9 | 131.5 | 135.6  | 135.6  | 135.6  |
| 80°    | 86.3  | 98.6  | 106.8  | 102.7  | 102.7  |
| 82.5°  | 61.6  | 78.1  | 78.1   | 78.1   | 74.0   |
| 85°    | 41.1  | 65.7  | 57.5   | 53.4   | 49.3   |
| 87.5°  | 24.7  | 57.5  | 32.9   | 28.8   | 28.8   |
| 90°    | 8.2   | 24.7  | 20.5   | 4.1    | 4.1    |
| 92.5°  | 16.4  | 41.1  | 20.5   | 16.4   | 12.3   |
| 95°    | 32.9  | 164.3 | 197.2  | 41.1   | 41.1   |
| 97.5°  | 61.6  | 275.3 | 423.2  | 501.3  | 538.2  |
| 100°   | 94.5  | 410.9 | 567.0  | 694.4  | 739.6  |
| 102.5° | 135.6 | 497.1 | 698.5  | 858.7  | 924.5  |
| 105°   | 180.8 | 583.4 | 883.4  | 1018.9 | 1101.1 |
| 107.5° | 226.0 | 649.2 | 1027.2 | 1179.2 | 1236.7 |
| 110°   | 279.4 | 702.6 | 1117.6 | 1380.5 | 1396.9 |



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CATALOG NUMBER: J3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 328.7  | 743.7  | 1166.9 | 1479.1 | 1569.5 |
| 115°   | 373.9  | 788.9  | 1240.8 | 1536.6 | 1631.1 |
| 117.5° | 427.3  | 821.7  | 1286.0 | 1569.5 | 1672.2 |
| 120°   | 476.6  | 850.5  | 1318.9 | 1610.6 | 1684.6 |
| 122.5° | 521.8  | 883.4  | 1343.5 | 1643.5 | 1725.6 |
| 125°   | 562.9  | 912.1  | 1360.0 | 1655.8 | 1738.0 |
| 127.5° | 604.0  | 936.8  | 1364.1 | 1659.9 | 1746.2 |
| 130°   | 649.2  | 961.4  | 1372.3 | 1655.8 | 1742.1 |
| 132.5° | 694.4  | 986.1  | 1368.2 | 1643.5 | 1721.5 |
| 135°   | 727.2  | 1002.5 | 1360.0 | 1627.0 | 1696.9 |
| 137.5° | 760.1  | 1014.8 | 1351.8 | 1602.4 | 1668.1 |
| 140°   | 788.9  | 1023.1 | 1339.4 | 1573.6 | 1635.3 |
| 142.5° | 821.7  | 1027.2 | 1331.2 | 1544.9 | 1598.3 |
| 145°   | 850.5  | 1027.2 | 1318.9 | 1512.0 | 1561.3 |
| 147.5° | 879.3  | 1023.1 | 1302.4 | 1479.1 | 1520.2 |
| 150°   | 899.8  | 1014.8 | 1286.0 | 1446.3 | 1479.1 |
| 152.5° | 916.2  | 1006.6 | 1265.5 | 1409.3 | 1442.1 |
| 155°   | 936.8  | 1002.5 | 1240.8 | 1376.4 | 1401.1 |
| 157.5° | 953.2  | 1002.5 | 1212.1 | 1339.4 | 1364.1 |
| 160°   | 969.6  | 1002.5 | 1179.2 | 1302.4 | 1323.0 |
| 162.5° | 990.2  | 1002.5 | 1134.0 | 1249.0 | 1269.6 |
| 165°   | 1010.7 | 1006.6 | 1101.1 | 1195.6 | 1212.1 |
| 167.5° | 1023.1 | 1006.6 | 1068.3 | 1129.9 | 1146.3 |
| 170°   | 1031.3 | 1014.8 | 1039.5 | 1084.7 | 1088.8 |
| 172.5° | 1035.4 | 1023.1 | 1018.9 | 1039.5 | 1039.5 |
| 175°   | 1035.4 | 1023.1 | 1018.9 | 1018.9 | 1010.7 |
| 177.5° | 1035.4 | 1027.2 | 1027.2 | 1023.1 | 1010.7 |
| 180°   | 1027.2 | 1027.2 | 1027.2 | 1027.2 | 1027.2 |

(END OF REPORT)