

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: P258438

Luminaire Tested: **D3X-WG-45L930-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-45L930-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3452.4 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

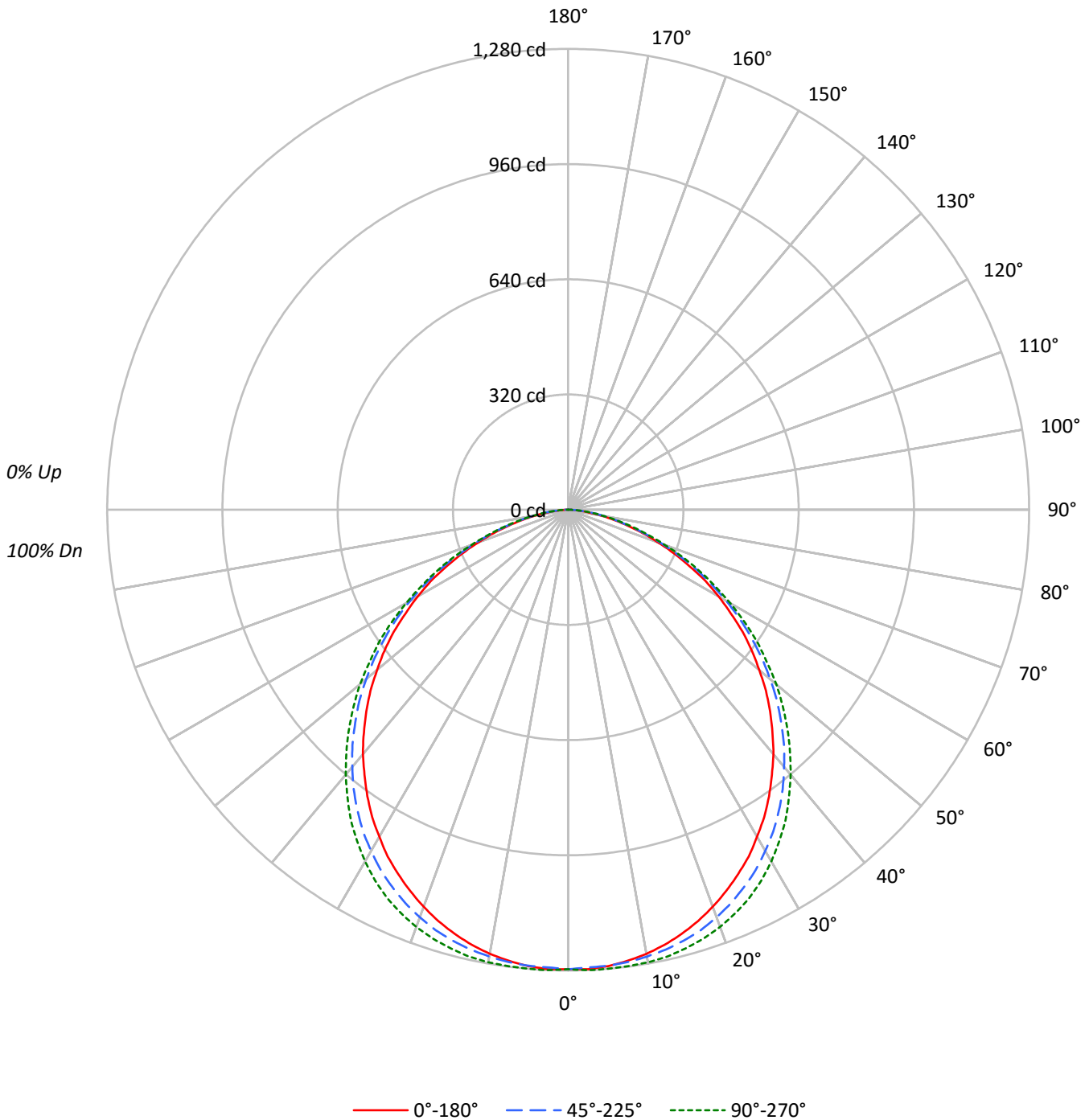
Input Watts (W): 34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  |  | 94  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  |  | 83  | 79  | 75  |  | 80  | 77  | 74  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  |  | 66  | 60  | 55  |  | 64  | 58  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  |  | 59  | 53  | 48  |  | 57  | 52  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  |  | 54  | 47  | 42  |  | 52  | 46  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  |  | 49  | 42  | 37  |  | 47  | 42  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  |  | 45  | 38  | 33  |  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  |  | 41  | 35  | 30  |  | 40  | 34  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  |  | 38  | 32  | 27  |  | 37  | 31  | 27  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1717 | 1717 | 1717 |
| 5°  | 1719 | 1717 | 1729 |
| 10° | 1712 | 1722 | 1744 |
| 15° | 1699 | 1726 | 1757 |
| 20° | 1680 | 1725 | 1765 |
| 25° | 1658 | 1717 | 1766 |
| 30° | 1629 | 1700 | 1752 |
| 35° | 1597 | 1676 | 1729 |
| 40° | 1557 | 1638 | 1688 |
| 45° | 1508 | 1591 | 1638 |
| 50° | 1450 | 1532 | 1579 |
| 55° | 1387 | 1456 | 1503 |
| 60° | 1298 | 1364 | 1398 |
| 65° | 1185 | 1248 | 1280 |
| 70° | 1041 | 1095 | 1124 |
| 75° | 881  | 926  | 958  |
| 80° | 700  | 766  | 786  |
| 85° | 477  | 573  | 554  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.3  | 3.5       |
| 10°-20°   | 350.1  | 10.1      |
| 20°-30°   | 532.0  | 15.4      |
| 30°-40°   | 634.9  | 18.4      |
| 40°-50°   | 641.2  | 18.6      |
| 50°-60°   | 552.4  | 16.0      |
| 60°-70°   | 385.1  | 11.2      |
| 70°-80°   | 190.9  | 5.5       |
| 80°-90°   | 44.5   | 1.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1003.4 | 29.1      |
| 0°-40°    | 1638.3 | 47.5      |
| 0°-60°    | 2831.9 | 82.0      |
| 0°-90°    | 3452.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3452.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1276 | 1276  | 1276 | 1276  | 1276 |      |
| 5°  | 1272 | 1271  | 1271 | 1278  | 1280 | 121  |
| 15° | 1219 | 1226  | 1239 | 1255  | 1261 | 344  |
| 25° | 1117 | 1132  | 1156 | 1180  | 1190 | 514  |
| 35° | 972  | 988   | 1020 | 1044  | 1052 | 608  |
| 45° | 793  | 810   | 836  | 856   | 861  | 611  |
| 55° | 591  | 604   | 621  | 636   | 641  | 527  |
| 65° | 372  | 380   | 392  | 396   | 402  | 370  |
| 75° | 169  | 172   | 178  | 182   | 184  | 183  |
| 85° | 31   | 37    | 37   | 35    | 36   | 39   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1276.3 | 1276.3 | 1276.3 | 1276.3 | 1276.3 |
| 2.5°  | 1277.5 | 1275.0 | 1272.5 | 1277.5 | 1280.0 |
| 5°    | 1272.5 | 1271.3 | 1271.3 | 1277.5 | 1280.0 |
| 7.5°  | 1263.9 | 1263.9 | 1267.6 | 1276.3 | 1278.7 |
| 10°   | 1252.8 | 1255.2 | 1260.2 | 1272.5 | 1276.3 |
| 12.5° | 1237.9 | 1242.9 | 1251.5 | 1266.4 | 1271.3 |
| 15°   | 1219.4 | 1225.6 | 1239.2 | 1255.2 | 1261.4 |
| 17.5° | 1198.3 | 1207.0 | 1224.3 | 1242.9 | 1249.1 |
| 20°   | 1173.6 | 1184.7 | 1204.5 | 1225.6 | 1233.0 |
| 22.5° | 1146.4 | 1160.0 | 1182.3 | 1204.5 | 1213.2 |
| 25°   | 1116.7 | 1131.6 | 1156.3 | 1179.8 | 1189.7 |
| 27.5° | 1085.8 | 1100.6 | 1127.9 | 1151.4 | 1161.2 |
| 30°   | 1048.7 | 1066.0 | 1094.5 | 1119.2 | 1127.9 |
| 32.5° | 1012.8 | 1030.2 | 1059.8 | 1082.1 | 1090.8 |
| 35°   | 972.0  | 988.1  | 1020.3 | 1043.8 | 1052.4 |
| 37.5° | 928.7  | 947.3  | 978.2  | 999.2  | 1006.7 |
| 40°   | 886.7  | 902.8  | 932.5  | 953.5  | 960.9  |
| 42.5° | 839.7  | 857.0  | 886.7  | 905.3  | 911.4  |
| 45°   | 792.7  | 810.0  | 836.0  | 855.8  | 860.7  |
| 47.5° | 744.5  | 760.6  | 786.5  | 802.6  | 807.6  |
| 50°   | 692.5  | 707.4  | 732.1  | 748.2  | 754.4  |
| 52.5° | 643.1  | 656.7  | 677.7  | 691.3  | 695.0  |
| 55°   | 591.1  | 603.5  | 620.8  | 635.7  | 640.6  |
| 57.5° | 535.5  | 549.1  | 565.2  | 577.5  | 581.2  |
| 60°   | 482.3  | 493.4  | 507.0  | 518.2  | 519.4  |
| 62.5° | 430.4  | 435.3  | 447.7  | 457.6  | 458.8  |
| 65°   | 372.2  | 379.7  | 392.0  | 395.7  | 401.9  |
| 67.5° | 319.1  | 324.0  | 333.9  | 338.9  | 343.8  |
| 70°   | 264.7  | 268.4  | 278.3  | 284.4  | 285.7  |
| 72.5° | 217.7  | 218.9  | 226.3  | 231.3  | 232.5  |
| 75°   | 169.4  | 171.9  | 178.1  | 181.8  | 184.3  |
| 77.5° | 128.6  | 131.1  | 136.0  | 138.5  | 138.5  |
| 80°   | 90.3   | 94.0   | 98.9   | 100.2  | 101.4  |
| 82.5° | 58.1   | 63.1   | 66.8   | 68.0   | 65.5   |
| 85°   | 30.9   | 37.1   | 37.1   | 34.6   | 35.9   |
| 87.5° | 11.1   | 13.6   | 14.8   | 16.1   | 16.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)