

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: P258458

Luminaire Tested: **D3X-WG-60L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258458  
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-60L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4846.6 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

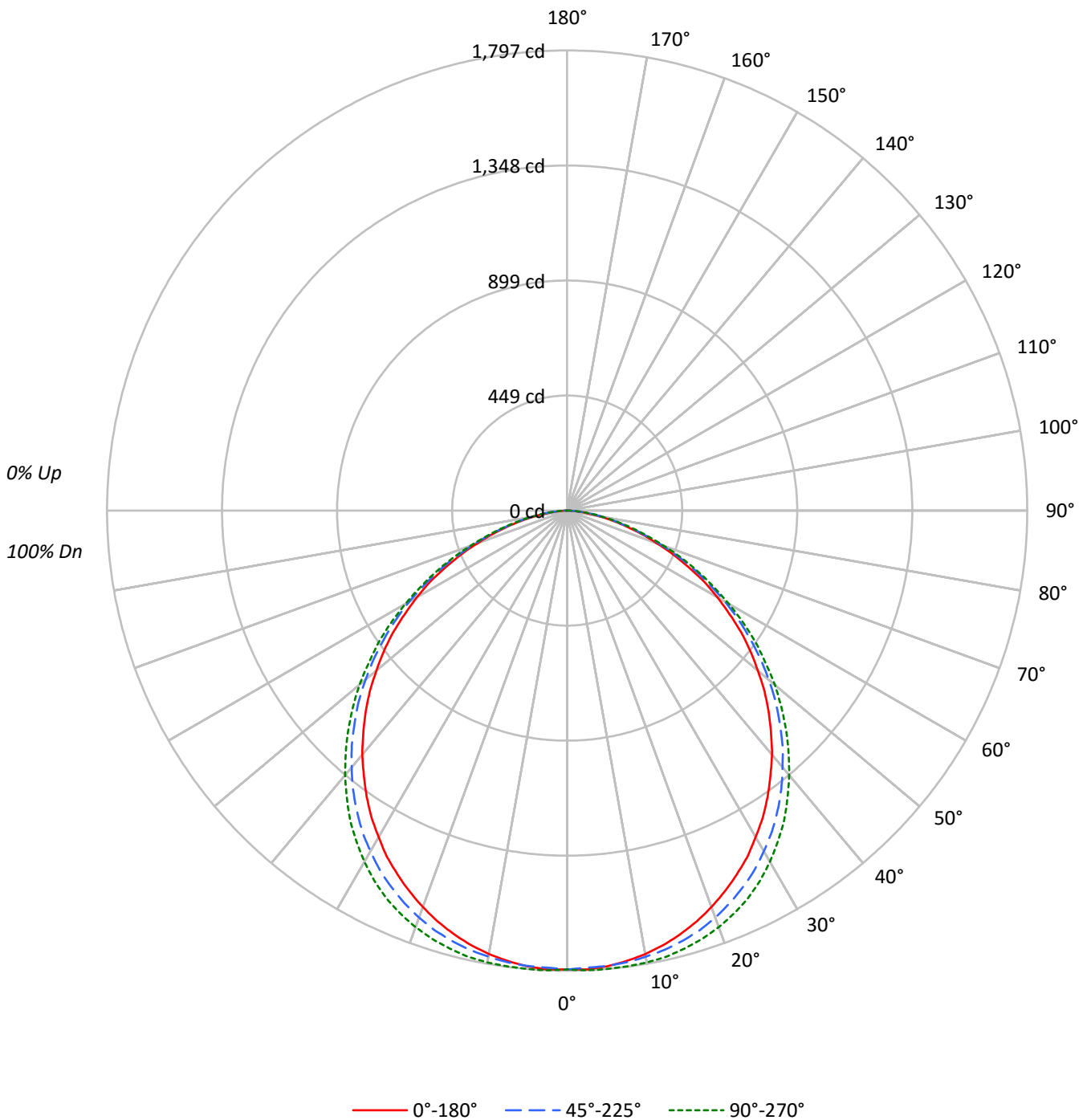
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 2411 | 2411 | 2411 |
| 5°  | 2413 | 2411 | 2427 |
| 10° | 2403 | 2417 | 2448 |
| 15° | 2384 | 2423 | 2467 |
| 20° | 2359 | 2421 | 2478 |
| 25° | 2327 | 2410 | 2480 |
| 30° | 2287 | 2387 | 2460 |
| 35° | 2241 | 2353 | 2427 |
| 40° | 2186 | 2299 | 2369 |
| 45° | 2118 | 2233 | 2299 |
| 50° | 2035 | 2151 | 2217 |
| 55° | 1947 | 2044 | 2110 |
| 60° | 1822 | 1915 | 1962 |
| 65° | 1664 | 1752 | 1796 |
| 70° | 1461 | 1537 | 1578 |
| 75° | 1237 | 1300 | 1345 |
| 80° | 982  | 1076 | 1103 |
| 85° | 670  | 804  | 777  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.2  | 3.5       |
| 10°-20°   | 491.5  | 10.1      |
| 20°-30°   | 746.9  | 15.4      |
| 30°-40°   | 891.3  | 18.4      |
| 40°-50°   | 900.2  | 18.6      |
| 50°-60°   | 775.5  | 16.0      |
| 60°-70°   | 540.6  | 11.2      |
| 70°-80°   | 267.9  | 5.5       |
| 80°-90°   | 62.5   | 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°    | 1408.7 | 29.1      |
| 0°-40°    | 2299.9 | 47.5      |
| 0°-60°    | 3975.6 | 82.0      |
| 0°-90°    | 4846.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4846.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1792 | 1792  | 1792 | 1792  | 1792 |      |
| 5°  | 1786 | 1785  | 1785 | 1793  | 1797 | 170  |
| 15° | 1712 | 1720  | 1740 | 1762  | 1771 | 483  |
| 25° | 1568 | 1589  | 1623 | 1656  | 1670 | 722  |
| 35° | 1365 | 1387  | 1432 | 1465  | 1478 | 853  |
| 45° | 1113 | 1137  | 1174 | 1201  | 1208 | 858  |
| 55° | 830  | 847   | 872  | 892   | 899  | 740  |
| 65° | 523  | 533   | 550  | 556   | 564  | 519  |
| 75° | 238  | 241   | 250  | 255   | 259  | 256  |
| 85° | 43   | 52    | 52   | 49    | 50   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 |
| 2.5°  | 1793.4 | 1790.0 | 1786.5 | 1793.4 | 1796.9 |
| 5°    | 1786.5 | 1784.8 | 1784.8 | 1793.4 | 1796.9 |
| 7.5°  | 1774.3 | 1774.3 | 1779.5 | 1791.7 | 1795.2 |
| 10°   | 1758.7 | 1762.2 | 1769.1 | 1786.5 | 1791.7 |
| 12.5° | 1737.9 | 1744.8 | 1757.0 | 1777.8 | 1784.8 |
| 15°   | 1711.8 | 1720.5 | 1739.6 | 1762.2 | 1770.9 |
| 17.5° | 1682.3 | 1694.5 | 1718.8 | 1744.8 | 1753.5 |
| 20°   | 1647.6 | 1663.2 | 1691.0 | 1720.5 | 1730.9 |
| 22.5° | 1609.4 | 1628.5 | 1659.7 | 1691.0 | 1703.2 |
| 25°   | 1567.7 | 1588.6 | 1623.3 | 1656.3 | 1670.2 |
| 27.5° | 1524.3 | 1545.2 | 1583.4 | 1616.3 | 1630.2 |
| 30°   | 1472.2 | 1496.6 | 1536.5 | 1571.2 | 1583.4 |
| 32.5° | 1421.9 | 1446.2 | 1487.9 | 1519.1 | 1531.3 |
| 35°   | 1364.6 | 1387.2 | 1432.3 | 1465.3 | 1477.5 |
| 37.5° | 1303.8 | 1329.9 | 1373.3 | 1402.8 | 1413.2 |
| 40°   | 1244.8 | 1267.4 | 1309.0 | 1338.6 | 1349.0 |
| 42.5° | 1178.8 | 1203.1 | 1244.8 | 1270.9 | 1279.5 |
| 45°   | 1112.9 | 1137.2 | 1173.6 | 1201.4 | 1208.4 |
| 47.5° | 1045.2 | 1067.7 | 1104.2 | 1126.8 | 1133.7 |
| 50°   | 972.2  | 993.1  | 1027.8 | 1050.4 | 1059.0 |
| 52.5° | 902.8  | 921.9  | 951.4  | 970.5  | 975.7  |
| 55°   | 829.9  | 847.2  | 871.5  | 892.4  | 899.3  |
| 57.5° | 751.7  | 770.8  | 793.4  | 810.8  | 816.0  |
| 60°   | 677.1  | 692.7  | 711.8  | 727.4  | 729.2  |
| 62.5° | 604.2  | 611.1  | 628.5  | 642.4  | 644.1  |
| 65°   | 522.6  | 533.0  | 550.4  | 555.6  | 564.2  |
| 67.5° | 447.9  | 454.9  | 468.8  | 475.7  | 482.6  |
| 70°   | 371.5  | 376.7  | 390.6  | 399.3  | 401.0  |
| 72.5° | 305.6  | 307.3  | 317.7  | 324.7  | 326.4  |
| 75°   | 237.9  | 241.3  | 250.0  | 255.2  | 258.7  |
| 77.5° | 180.6  | 184.0  | 191.0  | 194.4  | 194.4  |
| 80°   | 126.7  | 131.9  | 138.9  | 140.6  | 142.4  |
| 82.5° | 81.6   | 88.5   | 93.8   | 95.5   | 92.0   |
| 85°   | 43.4   | 52.1   | 52.1   | 48.6   | 50.3   |
| 87.5° | 15.6   | 19.1   | 20.8   | 22.6   | 22.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)