

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: P258399

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-60L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4838.7 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

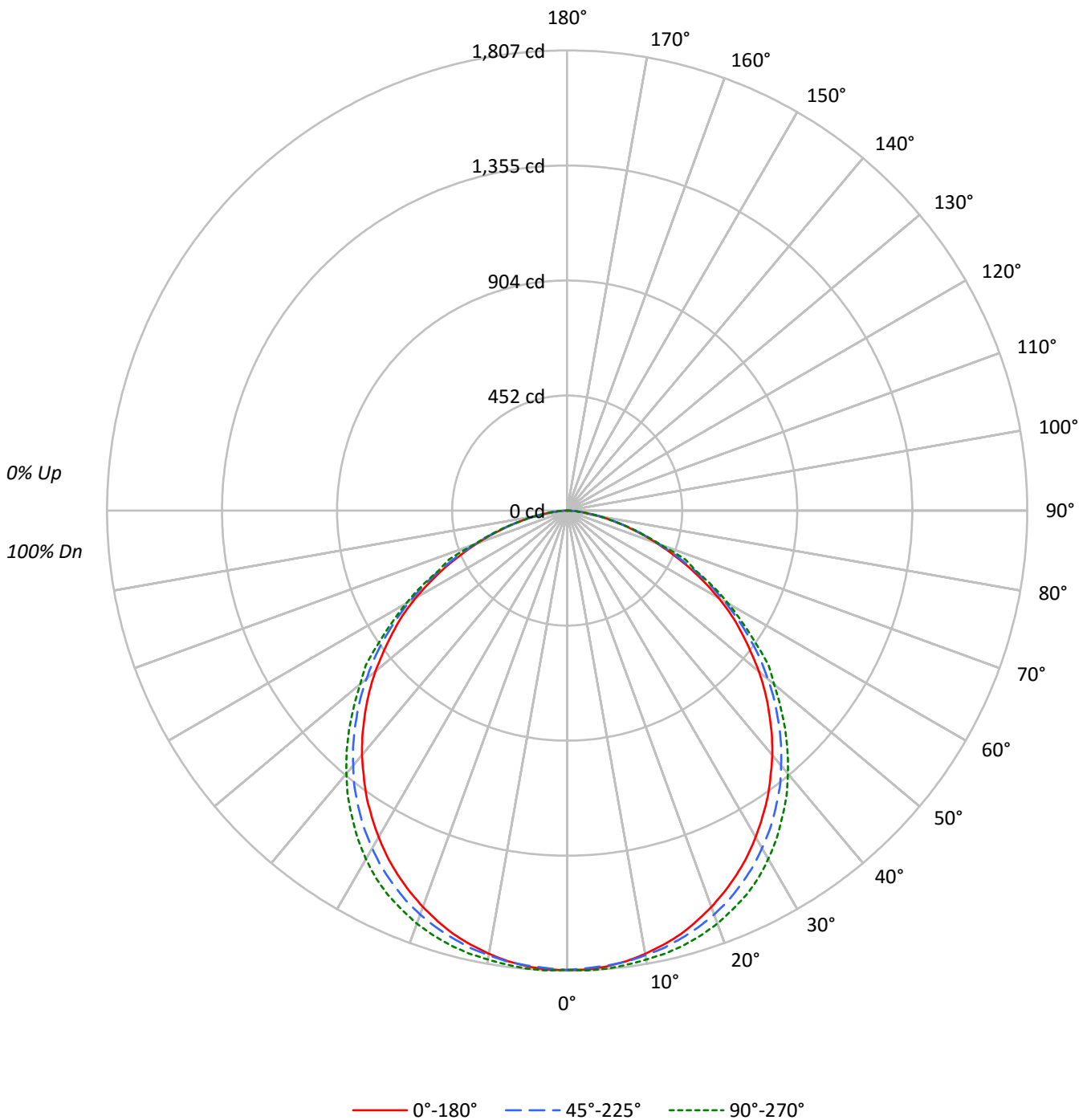
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258399

CATALOG NUMBER: D3X-WD-60L940-LD5-UNV-24-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P258399

CATALOG NUMBER: D3X-WD-60L940-LD5-UNV-24-T1-STD

**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  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 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  | 48  | 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  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2427 | 2427 | 2427 |
| 5°  | 2427 | 2422 | 2439 |
| 10° | 2415 | 2422 | 2446 |
| 15° | 2399 | 2421 | 2462 |
| 20° | 2372 | 2416 | 2471 |
| 25° | 2340 | 2402 | 2472 |
| 30° | 2301 | 2379 | 2455 |
| 35° | 2256 | 2344 | 2418 |
| 40° | 2202 | 2296 | 2369 |
| 45° | 2134 | 2233 | 2303 |
| 50° | 2057 | 2155 | 2220 |
| 55° | 1963 | 2053 | 2114 |
| 60° | 1850 | 1920 | 1967 |
| 65° | 1680 | 1735 | 1769 |
| 70° | 1475 | 1509 | 1530 |
| 75° | 1246 | 1264 | 1273 |
| 80° | 996  | 1009 | 982  |
| 85° | 670  | 696  | 670  |



TEST NUMBER: P258399

CATALOG NUMBER: D3X-WD-60L940-LD5-UNV-24-T1-STD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.0  | 3.5       |
| 10°-20°   | 491.6  | 10.2      |
| 20°-30°   | 745.9  | 15.4      |
| 30°-40°   | 890.5  | 18.4      |
| 40°-50°   | 901.6  | 18.6      |
| 50°-60°   | 779.3  | 16.1      |
| 60°-70°   | 540.1  | 11.2      |
| 70°-80°   | 261.3  | 5.4       |
| 80°-90°   | 57.4   | 1.2       |
| 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°    | 1408.5 | 29.1      |
| 0°-40°    | 2299.0 | 47.5      |
| 0°-60°    | 3979.8 | 82.2      |
| 0°-90°    | 4838.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4838.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1804 | 1804  | 1804 | 1804  | 1804 |      |
| 5°  | 1797 | 1795  | 1793 | 1802  | 1806 | 171  |
| 15° | 1722 | 1726  | 1738 | 1759  | 1767 | 485  |
| 25° | 1576 | 1587  | 1618 | 1651  | 1665 | 726  |
| 35° | 1373 | 1385  | 1427 | 1464  | 1472 | 858  |
| 45° | 1122 | 1137  | 1174 | 1203  | 1210 | 865  |
| 55° | 837  | 846   | 875  | 912   | 901  | 748  |
| 65° | 528  | 533   | 545  | 554   | 556  | 522  |
| 75° | 240  | 241   | 243  | 241   | 245  | 257  |
| 85° | 43   | 47    | 45   | 43    | 43   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P258399

CATALOG NUMBER: D3X-WD-60L940-LD5-UNV-24-T1-STD

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1803.8 | 1803.8 | 1803.8 | 1803.8 | 1803.8 |
| 2.5°  | 1803.8 | 1802.1 | 1798.6 | 1803.8 | 1807.3 |
| 5°    | 1796.9 | 1795.2 | 1793.4 | 1802.1 | 1805.6 |
| 7.5°  | 1784.8 | 1784.8 | 1786.5 | 1795.2 | 1798.6 |
| 10°   | 1767.4 | 1769.1 | 1772.6 | 1786.5 | 1790.0 |
| 12.5° | 1746.6 | 1750.0 | 1758.7 | 1774.3 | 1781.3 |
| 15°   | 1722.3 | 1725.7 | 1737.9 | 1758.7 | 1767.4 |
| 17.5° | 1691.0 | 1697.9 | 1715.3 | 1739.6 | 1748.3 |
| 20°   | 1656.3 | 1665.0 | 1687.5 | 1715.3 | 1725.7 |
| 22.5° | 1618.1 | 1626.8 | 1656.3 | 1685.8 | 1696.2 |
| 25°   | 1576.4 | 1586.8 | 1618.1 | 1651.1 | 1665.0 |
| 27.5° | 1531.3 | 1543.4 | 1578.2 | 1612.9 | 1626.8 |
| 30°   | 1480.9 | 1494.8 | 1531.3 | 1567.7 | 1579.9 |
| 32.5° | 1427.1 | 1441.0 | 1482.7 | 1517.4 | 1529.5 |
| 35°   | 1373.3 | 1385.4 | 1427.1 | 1463.6 | 1472.2 |
| 37.5° | 1312.5 | 1326.4 | 1371.6 | 1402.8 | 1415.0 |
| 40°   | 1253.5 | 1267.4 | 1307.3 | 1338.6 | 1349.0 |
| 42.5° | 1189.3 | 1203.1 | 1243.1 | 1272.6 | 1281.3 |
| 45°   | 1121.5 | 1137.2 | 1173.6 | 1203.1 | 1210.1 |
| 47.5° | 1053.8 | 1066.0 | 1104.2 | 1130.2 | 1135.4 |
| 50°   | 982.7  | 994.8  | 1029.5 | 1055.6 | 1060.8 |
| 52.5° | 908.0  | 927.1  | 954.9  | 974.0  | 996.5  |
| 55°   | 836.8  | 845.5  | 875.0  | 911.5  | 901.1  |
| 57.5° | 765.6  | 770.8  | 795.2  | 810.8  | 814.2  |
| 60°   | 687.5  | 694.5  | 713.6  | 722.2  | 730.9  |
| 62.5° | 605.9  | 611.1  | 633.7  | 642.4  | 645.8  |
| 65°   | 527.8  | 533.0  | 545.1  | 553.8  | 555.6  |
| 67.5° | 447.9  | 453.1  | 463.5  | 470.5  | 501.7  |
| 70°   | 375.0  | 378.5  | 383.7  | 397.6  | 388.9  |
| 72.5° | 305.6  | 307.3  | 312.5  | 312.5  | 314.2  |
| 75°   | 239.6  | 241.3  | 243.1  | 241.3  | 244.8  |
| 77.5° | 178.8  | 182.3  | 184.0  | 182.3  | 180.6  |
| 80°   | 128.5  | 131.9  | 130.2  | 126.7  | 126.7  |
| 82.5° | 83.3   | 85.1   | 83.3   | 81.6   | 81.6   |
| 85°   | 43.4   | 46.9   | 45.1   | 43.4   | 43.4   |
| 87.5° | 15.6   | 17.4   | 19.1   | 20.8   | 20.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)