

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: P258510

Luminaire Tested: **D3X-WO-55L935-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-55L935-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE  
Light Source: (252) 3500 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4651.1 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

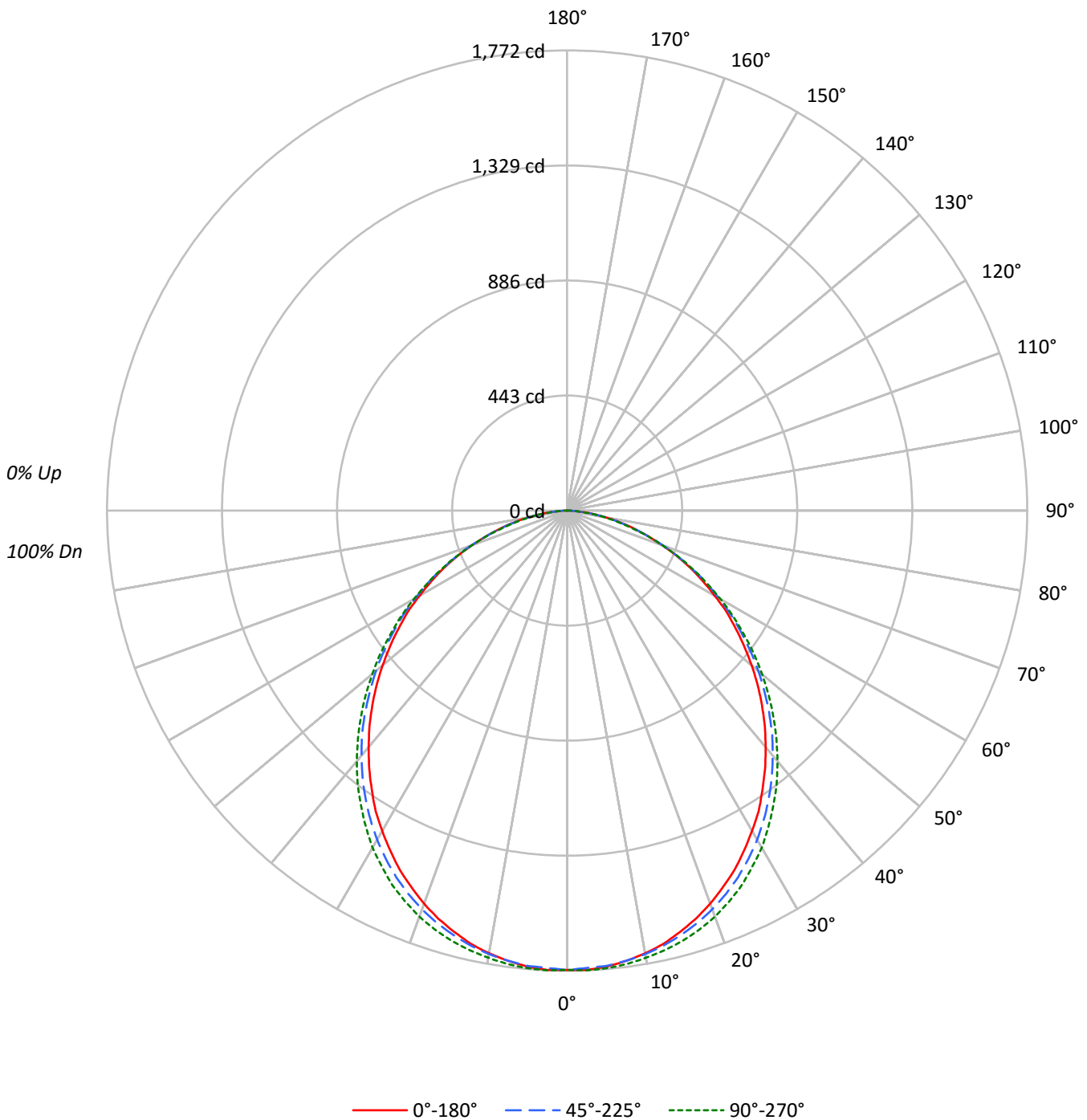
Input Watts (W): 42.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |
| 4   | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |
| 5   | 77  | 64  | 55  | 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  | 41  | 39  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 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°  | 2380 | 2380 | 2380 |
| 5°  | 2381 | 2376 | 2389 |
| 10° | 2365 | 2370 | 2389 |
| 15° | 2340 | 2357 | 2390 |
| 20° | 2306 | 2340 | 2382 |
| 25° | 2266 | 2312 | 2363 |
| 30° | 2213 | 2274 | 2330 |
| 35° | 2154 | 2224 | 2275 |
| 40° | 2089 | 2163 | 2213 |
| 45° | 2018 | 2093 | 2138 |
| 50° | 1941 | 2014 | 2050 |
| 55° | 1860 | 1919 | 1948 |
| 60° | 1767 | 1813 | 1834 |
| 65° | 1666 | 1691 | 1701 |
| 70° | 1529 | 1547 | 1529 |
| 75° | 1377 | 1368 | 1328 |
| 80° | 1165 | 1153 | 1117 |
| 85° | 871  | 846  | 750  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 167.5  | 3.6       |
| 10°-20°   | 478.4  | 10.3      |
| 20°-30°   | 717.3  | 15.4      |
| 30°-40°   | 844.8  | 18.2      |
| 40°-50°   | 844.9  | 18.2      |
| 50°-60°   | 729.0  | 15.7      |
| 60°-70°   | 524.6  | 11.3      |
| 70°-80°   | 278.3  | 6.0       |
| 80°-90°   | 66.4   | 1.4       |
| 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°    | 1363.2 | 29.3      |
| 0°-40°    | 2208.0 | 47.5      |
| 0°-60°    | 3781.9 | 81.3      |
| 0°-90°    | 4651.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4651.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1769 | 1769  | 1769 | 1769  | 1769 |      |
| 5°  | 1763 | 1761  | 1760 | 1766  | 1769 | 167  |
| 15° | 1680 | 1684  | 1692 | 1709  | 1716 | 474  |
| 25° | 1526 | 1536  | 1557 | 1584  | 1592 | 702  |
| 35° | 1311 | 1327  | 1354 | 1377  | 1385 | 820  |
| 45° | 1061 | 1075  | 1100 | 1119  | 1123 | 818  |
| 55° | 793  | 801   | 818  | 832   | 830  | 710  |
| 65° | 523  | 525   | 531  | 534   | 534  | 518  |
| 75° | 265  | 262   | 263  | 257   | 255  | 282  |
| 85° | 56   | 56    | 55   | 50    | 49   | 68   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1768.9 | 1768.9 | 1768.9 | 1768.9 | 1768.9 |
| 2.5°  | 1770.5 | 1767.3 | 1762.6 | 1768.9 | 1772.0 |
| 5°    | 1762.6 | 1761.1 | 1759.5 | 1765.8 | 1768.9 |
| 7.5°  | 1748.5 | 1750.1 | 1748.5 | 1757.9 | 1761.1 |
| 10°   | 1731.3 | 1732.9 | 1734.4 | 1745.4 | 1748.5 |
| 12.5° | 1709.4 | 1710.9 | 1715.6 | 1729.7 | 1734.4 |
| 15°   | 1679.6 | 1684.3 | 1692.1 | 1709.4 | 1715.6 |
| 17.5° | 1648.3 | 1654.5 | 1665.5 | 1685.9 | 1692.1 |
| 20°   | 1610.7 | 1618.5 | 1634.2 | 1656.1 | 1663.9 |
| 22.5° | 1568.4 | 1576.2 | 1598.1 | 1621.6 | 1629.5 |
| 25°   | 1526.1 | 1535.5 | 1557.4 | 1584.0 | 1591.9 |
| 27.5° | 1475.9 | 1488.4 | 1512.0 | 1538.6 | 1544.9 |
| 30°   | 1424.2 | 1435.2 | 1463.4 | 1488.4 | 1499.4 |
| 32.5° | 1372.5 | 1383.5 | 1410.1 | 1435.2 | 1443.0 |
| 35°   | 1311.4 | 1327.1 | 1353.7 | 1377.2 | 1385.0 |
| 37.5° | 1251.9 | 1266.0 | 1294.2 | 1317.7 | 1325.5 |
| 40°   | 1189.2 | 1201.7 | 1231.5 | 1253.4 | 1259.7 |
| 42.5° | 1126.5 | 1139.1 | 1168.8 | 1186.1 | 1192.3 |
| 45°   | 1060.7 | 1074.8 | 1099.9 | 1118.7 | 1123.4 |
| 47.5° | 994.9  | 1005.9 | 1029.4 | 1046.6 | 1052.9 |
| 50°   | 927.5  | 938.5  | 962.0  | 976.1  | 979.2  |
| 52.5° | 860.2  | 868.0  | 889.9  | 902.5  | 907.2  |
| 55°   | 792.8  | 800.6  | 817.9  | 832.0  | 830.4  |
| 57.5° | 728.6  | 731.7  | 748.9  | 758.3  | 758.3  |
| 60°   | 656.5  | 659.6  | 673.7  | 680.0  | 681.6  |
| 62.5° | 589.1  | 593.8  | 604.8  | 606.3  | 606.3  |
| 65°   | 523.3  | 524.9  | 531.1  | 534.3  | 534.3  |
| 67.5° | 457.5  | 455.9  | 462.2  | 462.2  | 460.6  |
| 70°   | 388.6  | 391.7  | 393.3  | 390.1  | 388.6  |
| 72.5° | 325.9  | 324.3  | 324.3  | 322.8  | 322.8  |
| 75°   | 264.8  | 261.7  | 263.2  | 257.0  | 255.4  |
| 77.5° | 208.4  | 203.7  | 202.1  | 199.0  | 195.8  |
| 80°   | 150.4  | 150.4  | 148.8  | 145.7  | 144.1  |
| 82.5° | 100.3  | 100.3  | 98.7   | 95.6   | 92.4   |
| 85°   | 56.4   | 56.4   | 54.8   | 50.1   | 48.6   |
| 87.5° | 18.8   | 18.8   | 18.8   | 18.8   | 18.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)