

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: P258451

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258451  
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-55L935-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3500 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4373.9 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

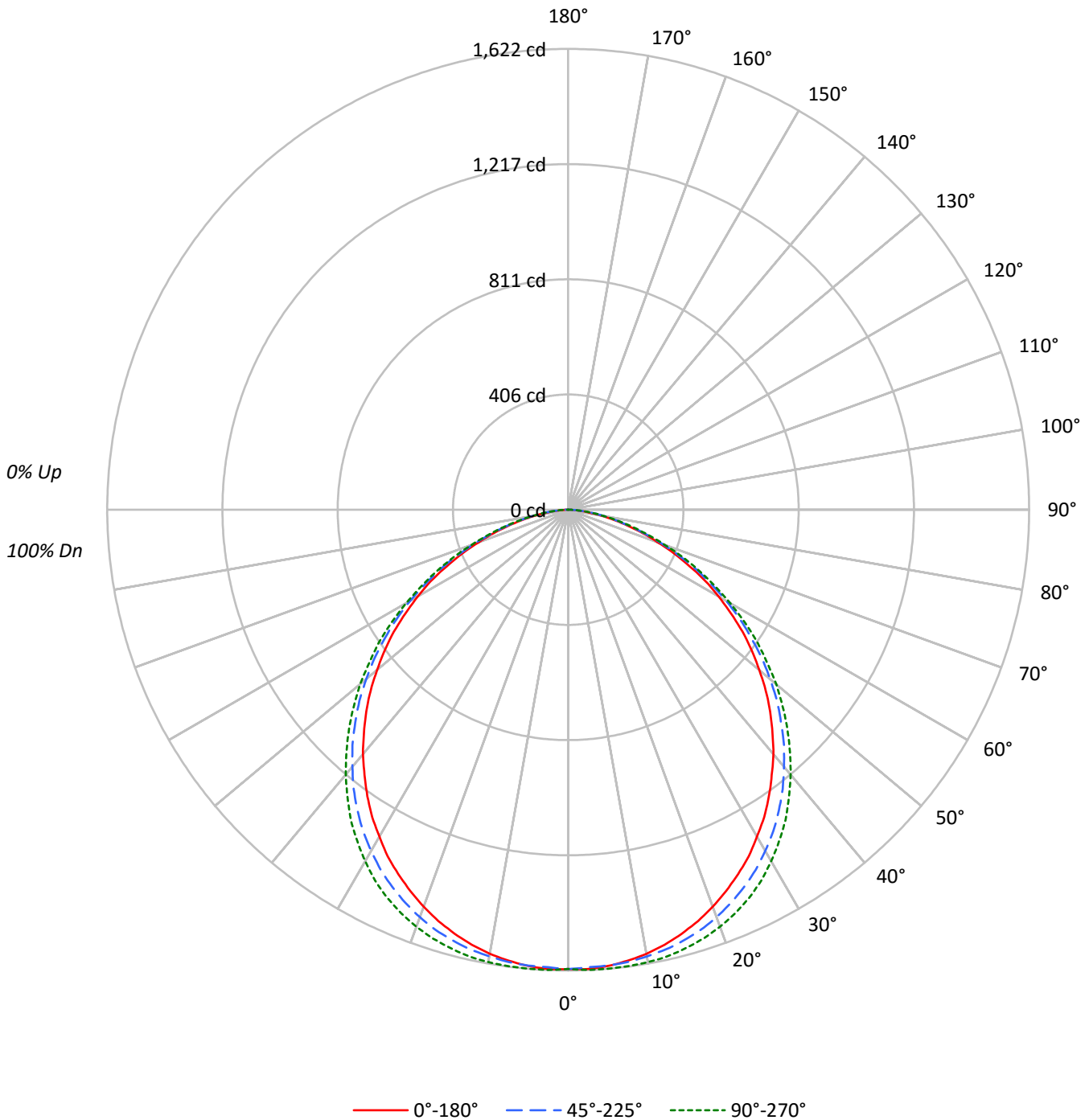
Input Watts (W): 42.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 2176 | 2176 | 2176 |
| 5°  | 2177 | 2175 | 2190 |
| 10° | 2169 | 2181 | 2209 |
| 15° | 2152 | 2187 | 2226 |
| 20° | 2129 | 2185 | 2237 |
| 25° | 2100 | 2175 | 2238 |
| 30° | 2064 | 2154 | 2220 |
| 35° | 2023 | 2123 | 2190 |
| 40° | 1973 | 2075 | 2138 |
| 45° | 1911 | 2015 | 2075 |
| 50° | 1837 | 1941 | 2000 |
| 55° | 1757 | 1845 | 1904 |
| 60° | 1644 | 1729 | 1771 |
| 65° | 1501 | 1581 | 1621 |
| 70° | 1319 | 1387 | 1424 |
| 75° | 1116 | 1173 | 1214 |
| 80° | 886  | 971  | 996  |
| 85° | 605  | 726  | 701  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.6  | 3.5       |
| 10°-20°   | 443.6  | 10.1      |
| 20°-30°   | 674.1  | 15.4      |
| 30°-40°   | 804.3  | 18.4      |
| 40°-50°   | 812.3  | 18.6      |
| 50°-60°   | 699.9  | 16.0      |
| 60°-70°   | 487.9  | 11.2      |
| 70°-80°   | 241.8  | 5.5       |
| 80°-90°   | 56.4   | 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°    | 1271.3 | 29.1      |
| 0°-40°    | 2075.6 | 47.5      |
| 0°-60°    | 3587.8 | 82.0      |
| 0°-90°    | 4373.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4373.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1617 | 1617  | 1617 | 1617  | 1617 |      |
| 5°  | 1612 | 1611  | 1611 | 1618  | 1622 | 153  |
| 15° | 1545 | 1553  | 1570 | 1590  | 1598 | 436  |
| 25° | 1415 | 1434  | 1465 | 1495  | 1507 | 652  |
| 35° | 1232 | 1252  | 1293 | 1322  | 1333 | 770  |
| 45° | 1004 | 1026  | 1059 | 1084  | 1090 | 774  |
| 55° | 749  | 765   | 786  | 805   | 812  | 667  |
| 65° | 472  | 481   | 497  | 501   | 509  | 468  |
| 75° | 215  | 218   | 226  | 230   | 234  | 231  |
| 85° | 39   | 47    | 47   | 44    | 45   | 50   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1616.9 | 1616.9 | 1616.9 | 1616.9 | 1616.9 |
| 2.5°  | 1618.5 | 1615.4 | 1612.2 | 1618.5 | 1621.6 |
| 5°    | 1612.2 | 1610.7 | 1610.7 | 1618.5 | 1621.6 |
| 7.5°  | 1601.3 | 1601.3 | 1606.0 | 1616.9 | 1620.1 |
| 10°   | 1587.2 | 1590.3 | 1596.6 | 1612.2 | 1616.9 |
| 12.5° | 1568.4 | 1574.6 | 1585.6 | 1604.4 | 1610.7 |
| 15°   | 1544.9 | 1552.7 | 1569.9 | 1590.3 | 1598.1 |
| 17.5° | 1518.2 | 1529.2 | 1551.1 | 1574.6 | 1582.5 |
| 20°   | 1486.9 | 1501.0 | 1526.1 | 1552.7 | 1562.1 |
| 22.5° | 1452.4 | 1469.6 | 1497.9 | 1526.1 | 1537.0 |
| 25°   | 1414.8 | 1433.6 | 1464.9 | 1494.7 | 1507.3 |
| 27.5° | 1375.6 | 1394.4 | 1428.9 | 1458.7 | 1471.2 |
| 30°   | 1328.6 | 1350.6 | 1386.6 | 1417.9 | 1428.9 |
| 32.5° | 1283.2 | 1305.1 | 1342.7 | 1370.9 | 1381.9 |
| 35°   | 1231.5 | 1251.9 | 1292.6 | 1322.4 | 1333.3 |
| 37.5° | 1176.7 | 1200.2 | 1239.3 | 1266.0 | 1275.4 |
| 40°   | 1123.4 | 1143.8 | 1181.4 | 1208.0 | 1217.4 |
| 42.5° | 1063.9 | 1085.8 | 1123.4 | 1146.9 | 1154.7 |
| 45°   | 1004.3 | 1026.2 | 1059.2 | 1084.2 | 1090.5 |
| 47.5° | 943.2  | 963.6  | 996.5  | 1016.8 | 1023.1 |
| 50°   | 877.4  | 896.2  | 927.5  | 947.9  | 955.7  |
| 52.5° | 814.7  | 832.0  | 858.6  | 875.8  | 880.5  |
| 55°   | 748.9  | 764.6  | 786.5  | 805.3  | 811.6  |
| 57.5° | 678.4  | 695.7  | 716.0  | 731.7  | 736.4  |
| 60°   | 611.0  | 625.1  | 642.4  | 656.5  | 658.1  |
| 62.5° | 545.2  | 551.5  | 567.2  | 579.7  | 581.3  |
| 65°   | 471.6  | 481.0  | 496.7  | 501.4  | 509.2  |
| 67.5° | 404.2  | 410.5  | 423.0  | 429.3  | 435.6  |
| 70°   | 335.3  | 340.0  | 352.5  | 360.4  | 361.9  |
| 72.5° | 275.8  | 277.3  | 286.7  | 293.0  | 294.6  |
| 75°   | 214.7  | 217.8  | 225.6  | 230.3  | 233.5  |
| 77.5° | 162.9  | 166.1  | 172.3  | 175.5  | 175.5  |
| 80°   | 114.4  | 119.1  | 125.3  | 126.9  | 128.5  |
| 82.5° | 73.6   | 79.9   | 84.6   | 86.2   | 83.0   |
| 85°   | 39.2   | 47.0   | 47.0   | 43.9   | 45.4   |
| 87.5° | 14.1   | 17.2   | 18.8   | 20.4   | 20.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)