

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995559

Luminaire Tested: 22D3X-LP-WD-60-L950.ies

Issue Date: 12/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/20/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22D3X-LP-WD-60-L950.ies  
Description: 2x2 D3X-LP AT 6000LM 5000K 90CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

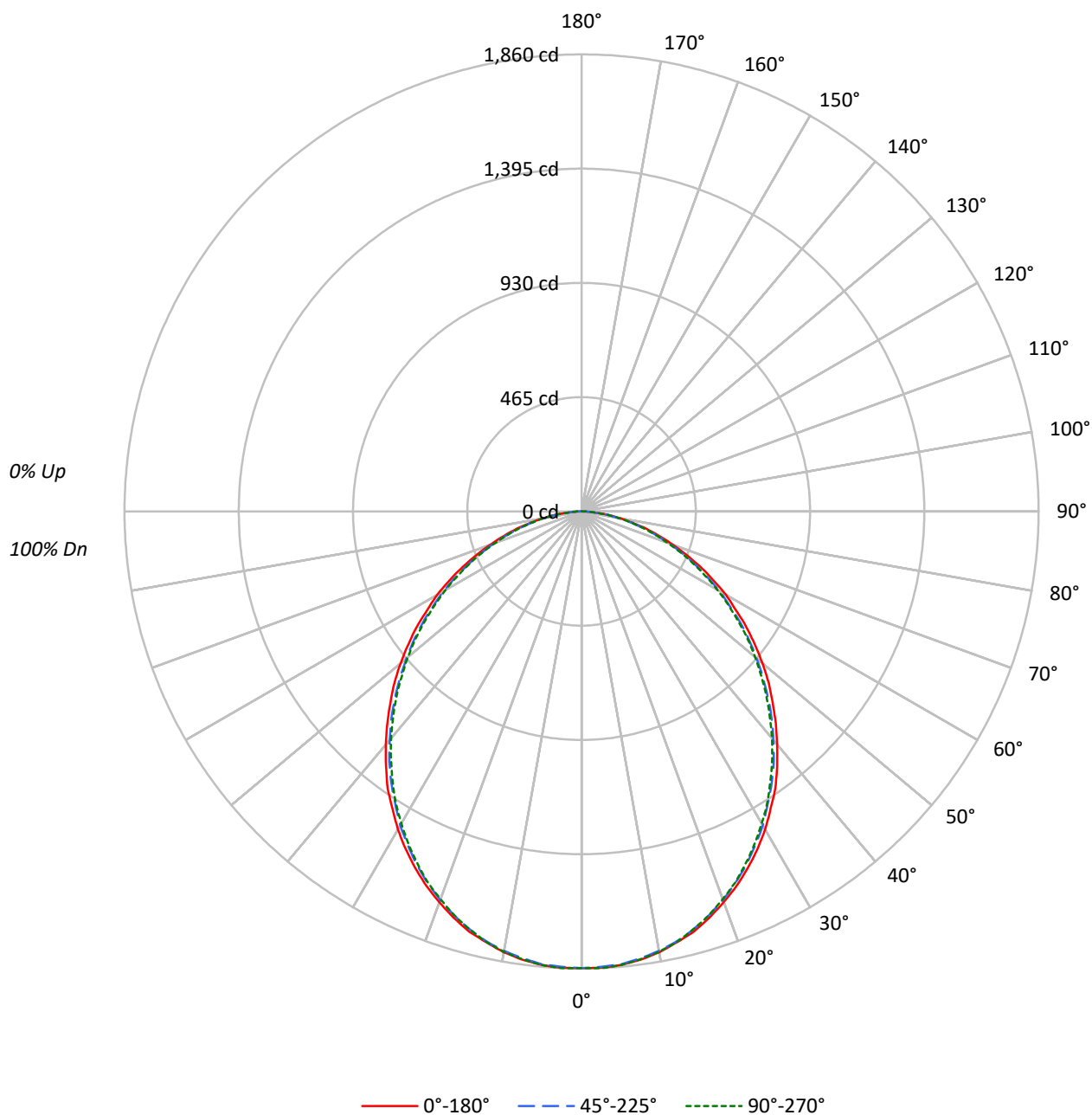
Lumens per Lamp: N/A  
Luminaire Lumens: 4644.6 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 52.5  
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: 24 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  |     |     |     |    | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 89  | 87  | 85  |    | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 73  | 71  |    | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    | 61  |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |    | 45  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |    | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |    | 36  |
| 8   | 62  | 49  | 40  | 34  | 60  | 48  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    | 32  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |    | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5002 | 5002 | 5002 |
| 5°  | 5006 | 4996 | 5006 |
| 10° | 4978 | 4962 | 4973 |
| 15° | 4930 | 4905 | 4905 |
| 20° | 4845 | 4819 | 4808 |
| 25° | 4755 | 4711 | 4694 |
| 30° | 4642 | 4584 | 4556 |
| 35° | 4519 | 4434 | 4403 |
| 40° | 4351 | 4266 | 4234 |
| 45° | 4185 | 4086 | 4051 |
| 50° | 4022 | 3890 | 3859 |
| 55° | 3839 | 3700 | 3648 |
| 60° | 3647 | 3487 | 3437 |
| 65° | 3395 | 3230 | 3195 |
| 70° | 3102 | 2986 | 2913 |
| 75° | 2829 | 2656 | 2675 |
| 80° | 2439 | 2295 | 2325 |
| 85° | 1886 | 1828 | 1714 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4185 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.6  | 3.8       |
| 10°-20°   | 496.4  | 10.7      |
| 20°-30°   | 731.2  | 15.7      |
| 30°-40°   | 845.8  | 18.2      |
| 40°-50°   | 831.5  | 17.9      |
| 50°-60°   | 708.6  | 15.3      |
| 60°-70°   | 507.8  | 10.9      |
| 70°-80°   | 275.8  | 5.9       |
| 80°-90°   | 71.9   | 1.5       |
| 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°    | 1403.2 | 30.2      |
| 0°-40°    | 2249.0 | 48.4      |
| 0°-60°    | 3789.1 | 81.6      |
| 0°-90°    | 4644.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4644.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1859 | 1859  | 1859 | 1859  | 1859 |      |
| 5°  | 1853 | 1849  | 1849 | 1849  | 1853 | 176  |
| 15° | 1770 | 1762  | 1760 | 1759  | 1760 | 498  |
| 25° | 1601 | 1594  | 1586 | 1583  | 1581 | 737  |
| 35° | 1376 | 1364  | 1350 | 1342  | 1340 | 858  |
| 45° | 1100 | 1092  | 1074 | 1064  | 1064 | 849  |
| 55° | 818  | 803   | 789  | 779   | 778  | 731  |
| 65° | 533  | 522   | 507  | 502   | 502  | 528  |
| 75° | 272  | 263   | 256  | 252   | 257  | 287  |
| 85° | 61   | 61    | 59   | 57    | 56   | 74   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1858.7 | 1858.7 | 1858.7 | 1858.7 | 1858.7 |
| 2.5°  | 1858.7 | 1856.8 | 1855.0 | 1856.8 | 1860.5 |
| 5°    | 1853.1 | 1849.4 | 1849.4 | 1849.4 | 1853.1 |
| 7.5°  | 1840.1 | 1836.4 | 1834.6 | 1836.4 | 1838.3 |
| 10°   | 1821.6 | 1817.9 | 1816.1 | 1817.9 | 1819.8 |
| 12.5° | 1795.7 | 1793.9 | 1792.0 | 1792.0 | 1793.9 |
| 15°   | 1769.8 | 1762.4 | 1760.5 | 1758.7 | 1760.5 |
| 17.5° | 1732.8 | 1730.9 | 1723.5 | 1723.5 | 1723.5 |
| 20°   | 1692.0 | 1688.3 | 1682.8 | 1679.1 | 1679.1 |
| 22.5° | 1649.5 | 1645.8 | 1636.5 | 1632.8 | 1634.7 |
| 25°   | 1601.3 | 1593.9 | 1586.5 | 1582.8 | 1581.0 |
| 27.5° | 1549.5 | 1542.1 | 1531.0 | 1525.4 | 1525.4 |
| 30°   | 1494.0 | 1488.4 | 1475.4 | 1468.0 | 1466.2 |
| 32.5° | 1432.9 | 1429.2 | 1410.7 | 1407.0 | 1407.0 |
| 35°   | 1375.5 | 1364.4 | 1349.6 | 1342.2 | 1340.3 |
| 37.5° | 1307.0 | 1299.6 | 1284.8 | 1275.5 | 1273.7 |
| 40°   | 1238.5 | 1229.2 | 1214.4 | 1207.0 | 1205.2 |
| 42.5° | 1170.0 | 1160.7 | 1145.9 | 1136.7 | 1134.8 |
| 45°   | 1099.6 | 1092.2 | 1073.7 | 1064.5 | 1064.5 |
| 47.5° | 1033.0 | 1018.2 | 1001.5 | 994.1  | 992.3  |
| 50°   | 960.8  | 947.8  | 929.3  | 921.9  | 921.9  |
| 52.5° | 888.6  | 879.3  | 859.0  | 855.3  | 851.6  |
| 55°   | 818.3  | 803.4  | 788.6  | 779.4  | 777.5  |
| 57.5° | 742.4  | 729.4  | 714.6  | 707.2  | 707.2  |
| 60°   | 677.6  | 660.9  | 647.9  | 638.7  | 638.7  |
| 62.5° | 603.5  | 588.7  | 575.7  | 570.2  | 568.3  |
| 65°   | 533.2  | 522.1  | 507.2  | 501.7  | 501.7  |
| 67.5° | 462.8  | 453.6  | 440.6  | 435.0  | 436.9  |
| 70°   | 394.3  | 388.8  | 379.5  | 372.1  | 370.3  |
| 72.5° | 331.4  | 324.0  | 314.7  | 312.9  | 312.9  |
| 75°   | 272.1  | 262.9  | 255.5  | 251.8  | 257.3  |
| 77.5° | 211.0  | 205.5  | 201.8  | 199.9  | 201.8  |
| 80°   | 157.4  | 150.0  | 148.1  | 150.0  | 150.0  |
| 82.5° | 109.2  | 105.5  | 103.7  | 103.7  | 103.7  |
| 85°   | 61.1   | 61.1   | 59.2   | 57.4   | 55.5   |
| 87.5° | 24.1   | 24.1   | 25.9   | 25.9   | 27.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)