

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: P995495

Luminaire Tested: 22D3X-LP-WD-25-L940.ies

Issue Date: 12/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995495  
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-25-L940.ies  
Description: 2x2 D3X-LP AT 2500LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

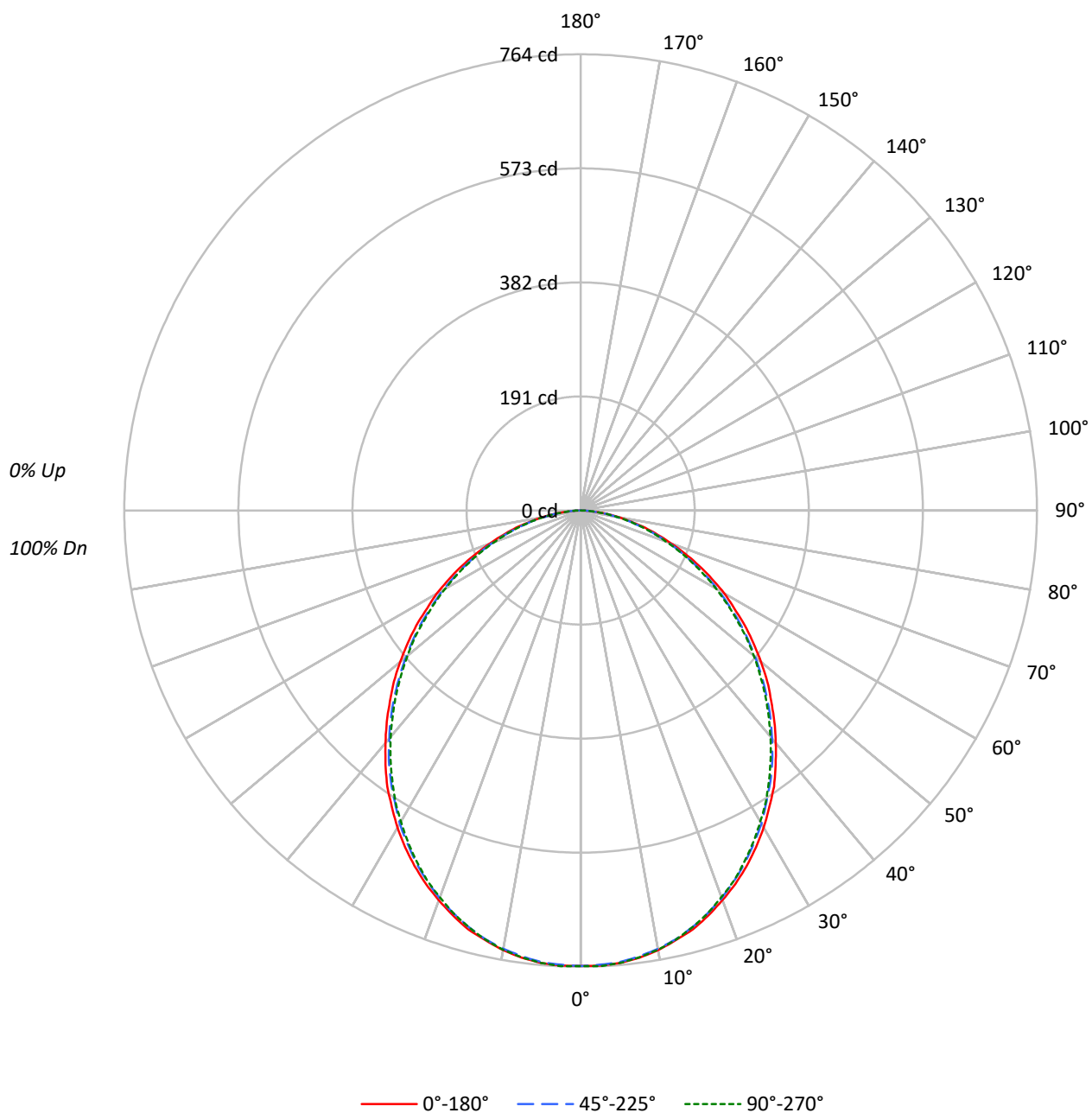
Lumens per Lamp: N/A  
Luminaire Lumens: 1906.2 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.9  
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°  | 2053 | 2053 | 2053 |
| 5°  | 2054 | 2050 | 2054 |
| 10° | 2043 | 2037 | 2041 |
| 15° | 2023 | 2013 | 2013 |
| 20° | 1989 | 1978 | 1973 |
| 25° | 1951 | 1933 | 1926 |
| 30° | 1905 | 1881 | 1870 |
| 35° | 1854 | 1820 | 1807 |
| 40° | 1786 | 1751 | 1737 |
| 45° | 1717 | 1677 | 1663 |
| 50° | 1651 | 1597 | 1584 |
| 55° | 1575 | 1519 | 1497 |
| 60° | 1497 | 1431 | 1411 |
| 65° | 1393 | 1326 | 1311 |
| 70° | 1273 | 1226 | 1196 |
| 75° | 1161 | 1090 | 1098 |
| 80° | 1001 | 942  | 953  |
| 85° | 775  | 750  | 704  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1717 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.1   | 3.8       |
| 10°-20°   | 203.7  | 10.7      |
| 20°-30°   | 300.1  | 15.7      |
| 30°-40°   | 347.1  | 18.2      |
| 40°-50°   | 341.3  | 17.9      |
| 50°-60°   | 290.8  | 15.3      |
| 60°-70°   | 208.4  | 10.9      |
| 70°-80°   | 113.2  | 5.9       |
| 80°-90°   | 29.5   | 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°    | 575.9  | 30.2      |
| 0°-40°    | 923.0  | 48.4      |
| 0°-60°    | 1555.1 | 81.6      |
| 0°-90°    | 1906.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1906.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 763 | 763   | 763 | 763   | 763 |      |
| 5°  | 760 | 759   | 759 | 759   | 760 | 72   |
| 15° | 726 | 723   | 722 | 722   | 722 | 204  |
| 25° | 657 | 654   | 651 | 650   | 649 | 303  |
| 35° | 564 | 560   | 554 | 551   | 550 | 352  |
| 45° | 451 | 448   | 441 | 437   | 437 | 349  |
| 55° | 336 | 330   | 324 | 320   | 319 | 300  |
| 65° | 219 | 214   | 208 | 206   | 206 | 217  |
| 75° | 112 | 108   | 105 | 103   | 106 | 118  |
| 85° | 25  | 25    | 24  | 24    | 23  | 30   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 |
| 2.5°  | 762.8 | 762.1 | 761.3 | 762.1 | 763.6 |
| 5°    | 760.5 | 759.0 | 759.0 | 759.0 | 760.5 |
| 7.5°  | 755.2 | 753.7 | 752.9 | 753.7 | 754.5 |
| 10°   | 747.6 | 746.1 | 745.3 | 746.1 | 746.9 |
| 12.5° | 737.0 | 736.2 | 735.5 | 735.5 | 736.2 |
| 15°   | 726.3 | 723.3 | 722.5 | 721.8 | 722.5 |
| 17.5° | 711.1 | 710.4 | 707.4 | 707.4 | 707.4 |
| 20°   | 694.4 | 692.9 | 690.6 | 689.1 | 689.1 |
| 22.5° | 677.0 | 675.4 | 671.6 | 670.1 | 670.9 |
| 25°   | 657.2 | 654.2 | 651.1 | 649.6 | 648.8 |
| 27.5° | 635.9 | 632.9 | 628.3 | 626.1 | 626.1 |
| 30°   | 613.1 | 610.9 | 605.5 | 602.5 | 601.7 |
| 32.5° | 588.1 | 586.5 | 578.9 | 577.4 | 577.4 |
| 35°   | 564.5 | 560.0 | 553.9 | 550.8 | 550.1 |
| 37.5° | 536.4 | 533.4 | 527.3 | 523.5 | 522.7 |
| 40°   | 508.3 | 504.5 | 498.4 | 495.4 | 494.6 |
| 42.5° | 480.2 | 476.4 | 470.3 | 466.5 | 465.7 |
| 45°   | 451.3 | 448.3 | 440.7 | 436.9 | 436.9 |
| 47.5° | 424.0 | 417.9 | 411.0 | 408.0 | 407.2 |
| 50°   | 394.3 | 389.0 | 381.4 | 378.4 | 378.4 |
| 52.5° | 364.7 | 360.9 | 352.5 | 351.0 | 349.5 |
| 55°   | 335.8 | 329.7 | 323.7 | 319.9 | 319.1 |
| 57.5° | 304.7 | 299.4 | 293.3 | 290.2 | 290.2 |
| 60°   | 278.1 | 271.2 | 265.9 | 262.1 | 262.1 |
| 62.5° | 247.7 | 241.6 | 236.3 | 234.0 | 233.3 |
| 65°   | 218.8 | 214.3 | 208.2 | 205.9 | 205.9 |
| 67.5° | 189.9 | 186.1 | 180.8 | 178.5 | 179.3 |
| 70°   | 161.8 | 159.6 | 155.8 | 152.7 | 152.0 |
| 72.5° | 136.0 | 133.0 | 129.2 | 128.4 | 128.4 |
| 75°   | 111.7 | 107.9 | 104.8 | 103.3 | 105.6 |
| 77.5° | 86.6  | 84.3  | 82.8  | 82.1  | 82.8  |
| 80°   | 64.6  | 61.5  | 60.8  | 61.5  | 61.5  |
| 82.5° | 44.8  | 43.3  | 42.5  | 42.5  | 42.5  |
| 85°   | 25.1  | 25.1  | 24.3  | 23.6  | 22.8  |
| 87.5° | 9.9   | 9.9   | 10.6  | 10.6  | 11.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)