

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: P995533

Luminaire Tested: 22D3X-LP-WD-50-L830.ies

Issue Date: 12/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995533  
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-50-L830.ies  
Description: 2x2 D3X-LP AT 5000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

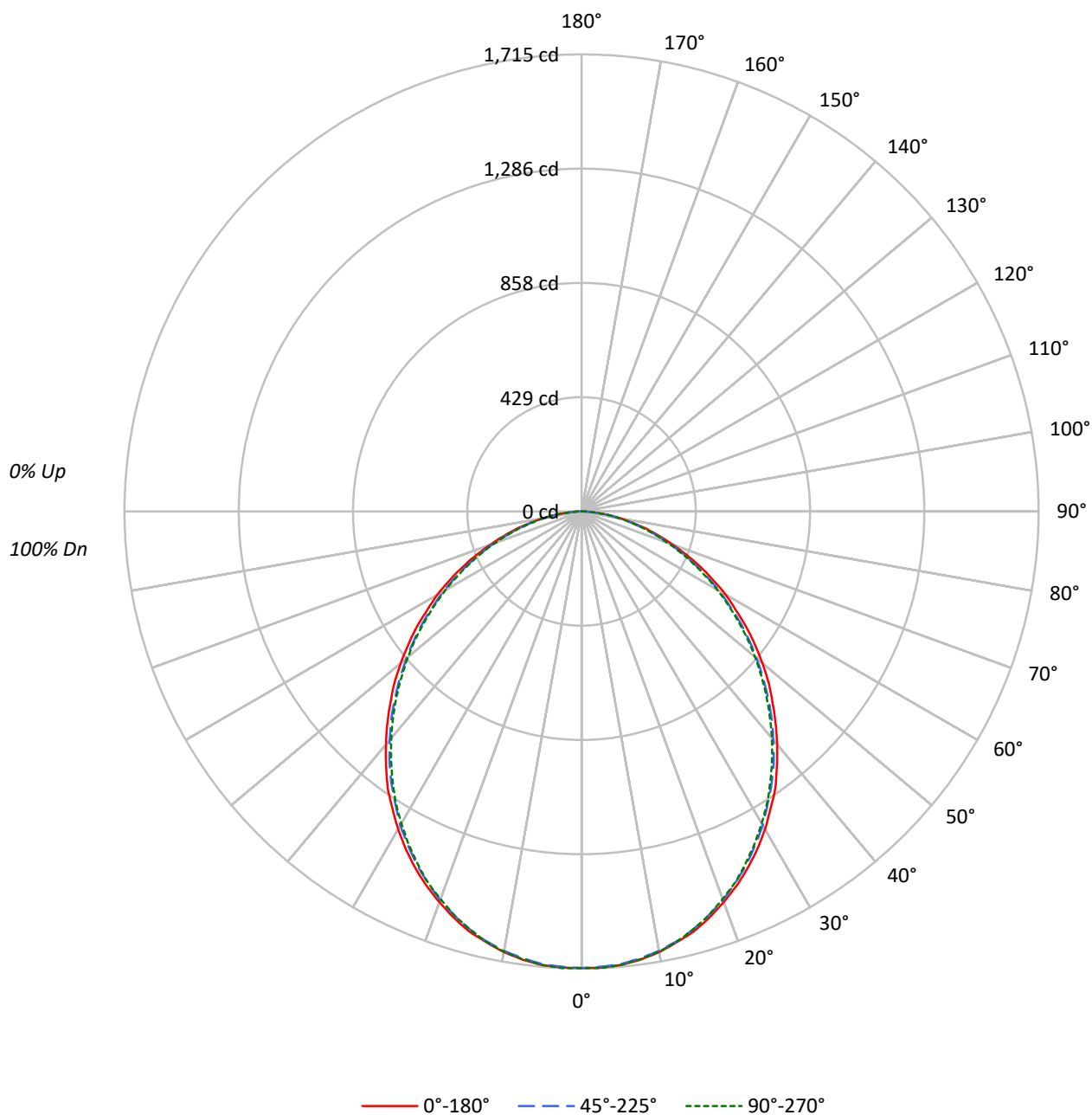
Lumens per Lamp: N/A  
Luminaire Lumens: 4281.3 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.9  
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°  | 4610 | 4610 | 4610 |
| 5°  | 4614 | 4605 | 4614 |
| 10° | 4588 | 4574 | 4583 |
| 15° | 4545 | 4521 | 4521 |
| 20° | 4466 | 4442 | 4432 |
| 25° | 4383 | 4342 | 4327 |
| 30° | 4279 | 4226 | 4199 |
| 35° | 4165 | 4087 | 4059 |
| 40° | 4010 | 3932 | 3902 |
| 45° | 3857 | 3766 | 3734 |
| 50° | 3707 | 3586 | 3558 |
| 55° | 3538 | 3410 | 3362 |
| 60° | 3362 | 3215 | 3168 |
| 65° | 3130 | 2977 | 2944 |
| 70° | 2860 | 2752 | 2685 |
| 75° | 2608 | 2449 | 2466 |
| 80° | 2247 | 2115 | 2142 |
| 85° | 1738 | 1686 | 1581 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3857 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 161.8  | 3.8       |
| 10°-20°   | 457.6  | 10.7      |
| 20°-30°   | 674.0  | 15.7      |
| 30°-40°   | 779.6  | 18.2      |
| 40°-50°   | 766.5  | 17.9      |
| 50°-60°   | 653.2  | 15.3      |
| 60°-70°   | 468.0  | 10.9      |
| 70°-80°   | 254.2  | 5.9       |
| 80°-90°   | 66.3   | 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°    | 1293.4 | 30.2      |
| 0°-40°    | 2073.0 | 48.4      |
| 0°-60°    | 3492.7 | 81.6      |
| 0°-90°    | 4281.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4281.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1713 | 1713  | 1713 | 1713  | 1713 |      |
| 5°  | 1708 | 1705  | 1705 | 1705  | 1708 | 162  |
| 15° | 1631 | 1624  | 1623 | 1621  | 1623 | 459  |
| 25° | 1476 | 1469  | 1462 | 1459  | 1457 | 679  |
| 35° | 1268 | 1258  | 1244 | 1237  | 1236 | 791  |
| 45° | 1014 | 1007  | 990  | 981   | 981  | 783  |
| 55° | 754  | 741   | 727  | 718   | 717  | 673  |
| 65° | 492  | 481   | 468  | 462   | 462  | 487  |
| 75° | 251  | 242   | 236  | 232   | 237  | 265  |
| 85° | 56   | 56    | 55   | 53    | 51   | 68   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1713.3 | 1713.3 | 1713.3 | 1713.3 | 1713.3 |
| 2.5°  | 1713.3 | 1711.6 | 1709.9 | 1711.6 | 1715.0 |
| 5°    | 1708.2 | 1704.7 | 1704.7 | 1704.7 | 1708.2 |
| 7.5°  | 1696.2 | 1692.8 | 1691.1 | 1692.8 | 1694.5 |
| 10°   | 1679.1 | 1675.7 | 1674.0 | 1675.7 | 1677.4 |
| 12.5° | 1655.3 | 1653.5 | 1651.8 | 1651.8 | 1653.5 |
| 15°   | 1631.4 | 1624.5 | 1622.8 | 1621.1 | 1622.8 |
| 17.5° | 1597.2 | 1595.5 | 1588.7 | 1588.7 | 1588.7 |
| 20°   | 1559.7 | 1556.3 | 1551.2 | 1547.7 | 1547.7 |
| 22.5° | 1520.4 | 1517.0 | 1508.5 | 1505.1 | 1506.8 |
| 25°   | 1476.1 | 1469.2 | 1462.4 | 1459.0 | 1457.3 |
| 27.5° | 1428.3 | 1421.5 | 1411.2 | 1406.1 | 1406.1 |
| 30°   | 1377.1 | 1372.0 | 1360.0 | 1353.2 | 1351.5 |
| 32.5° | 1320.8 | 1317.4 | 1300.3 | 1296.9 | 1296.9 |
| 35°   | 1267.9 | 1257.6 | 1244.0 | 1237.2 | 1235.5 |
| 37.5° | 1204.7 | 1197.9 | 1184.3 | 1175.7 | 1174.0 |
| 40°   | 1141.6 | 1133.1 | 1119.4 | 1112.6 | 1110.9 |
| 42.5° | 1078.5 | 1069.9 | 1056.3 | 1047.8 | 1046.1 |
| 45°   | 1013.6 | 1006.8 | 989.7  | 981.2  | 981.2  |
| 47.5° | 952.2  | 938.5  | 923.2  | 916.4  | 914.7  |
| 50°   | 885.6  | 873.7  | 856.6  | 849.8  | 849.8  |
| 52.5° | 819.1  | 810.6  | 791.8  | 788.4  | 785.0  |
| 55°   | 754.2  | 740.6  | 726.9  | 718.4  | 716.7  |
| 57.5° | 684.3  | 672.3  | 658.7  | 651.9  | 651.9  |
| 60°   | 624.6  | 609.2  | 597.3  | 588.7  | 588.7  |
| 62.5° | 556.3  | 542.6  | 530.7  | 525.6  | 523.9  |
| 65°   | 491.5  | 481.2  | 467.6  | 462.4  | 462.4  |
| 67.5° | 426.6  | 418.1  | 406.1  | 401.0  | 402.7  |
| 70°   | 363.5  | 358.4  | 349.8  | 343.0  | 341.3  |
| 72.5° | 305.5  | 298.6  | 290.1  | 288.4  | 288.4  |
| 75°   | 250.8  | 242.3  | 235.5  | 232.1  | 237.2  |
| 77.5° | 194.5  | 189.4  | 186.0  | 184.3  | 186.0  |
| 80°   | 145.0  | 138.2  | 136.5  | 138.2  | 138.2  |
| 82.5° | 100.7  | 97.3   | 95.6   | 95.6   | 95.6   |
| 85°   | 56.3   | 56.3   | 54.6   | 52.9   | 51.2   |
| 87.5° | 22.2   | 22.2   | 23.9   | 23.9   | 25.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)