

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: P995544

Luminaire Tested: 22D3X-LP-WD-55-L840.ies

Issue Date: 12/20/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P995544  
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-55-L840.ies  
Description: 2x2 D3X-LP AT 5500LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

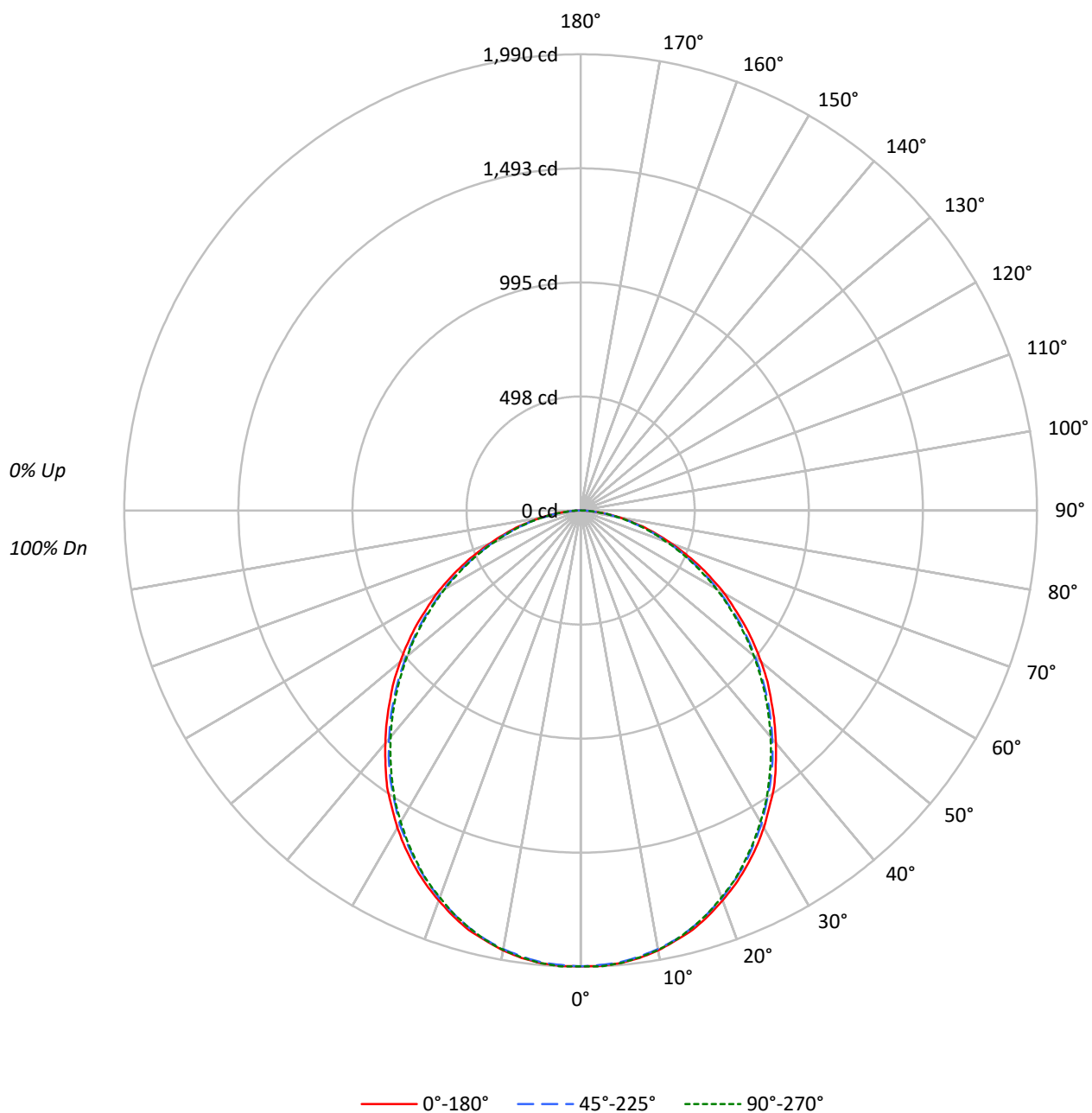
Lumens per Lamp: N/A  
Luminaire Lumens: 4968.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.4  
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°  | 5350 | 5350 | 5350 |
| 5°  | 5354 | 5344 | 5354 |
| 10° | 5324 | 5308 | 5319 |
| 15° | 5274 | 5246 | 5246 |
| 20° | 5183 | 5155 | 5143 |
| 25° | 5086 | 5039 | 5021 |
| 30° | 4965 | 4904 | 4873 |
| 35° | 4833 | 4742 | 4709 |
| 40° | 4653 | 4563 | 4528 |
| 45° | 4476 | 4371 | 4333 |
| 50° | 4302 | 4161 | 4128 |
| 55° | 4106 | 3957 | 3902 |
| 60° | 3900 | 3730 | 3677 |
| 65° | 3631 | 3455 | 3417 |
| 70° | 3319 | 3194 | 3116 |
| 75° | 3027 | 2842 | 2861 |
| 80° | 2608 | 2455 | 2486 |
| 85° | 2016 | 1958 | 1834 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4476 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.8  | 3.8       |
| 10°-20°   | 531.0  | 10.7      |
| 20°-30°   | 782.1  | 15.7      |
| 30°-40°   | 904.7  | 18.2      |
| 40°-50°   | 889.4  | 17.9      |
| 50°-60°   | 758.0  | 15.3      |
| 60°-70°   | 543.1  | 10.9      |
| 70°-80°   | 295.0  | 5.9       |
| 80°-90°   | 76.9   | 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°    | 1500.9 | 30.2      |
| 0°-40°    | 2405.6 | 48.4      |
| 0°-60°    | 4053.0 | 81.6      |
| 0°-90°    | 4968.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4968.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1988 | 1988  | 1988 | 1988  | 1988 |      |
| 5°  | 1982 | 1978  | 1978 | 1978  | 1982 | 188  |
| 15° | 1893 | 1885  | 1883 | 1881  | 1883 | 533  |
| 25° | 1713 | 1705  | 1697 | 1693  | 1691 | 788  |
| 35° | 1471 | 1459  | 1444 | 1436  | 1434 | 917  |
| 45° | 1176 | 1168  | 1148 | 1139  | 1139 | 909  |
| 55° | 875  | 859   | 844  | 834   | 832  | 781  |
| 65° | 570  | 558   | 543  | 537   | 537  | 565  |
| 75° | 291  | 281   | 273  | 269   | 275  | 307  |
| 85° | 65   | 65    | 63   | 61    | 59   | 79   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1988.1 | 1988.1 | 1988.1 | 1988.1 | 1988.1 |
| 2.5°  | 1988.1 | 1986.1 | 1984.1 | 1986.1 | 1990.1 |
| 5°    | 1982.1 | 1978.2 | 1978.2 | 1978.2 | 1982.1 |
| 7.5°  | 1968.3 | 1964.3 | 1962.3 | 1964.3 | 1966.3 |
| 10°   | 1948.5 | 1944.5 | 1942.5 | 1944.5 | 1946.5 |
| 12.5° | 1920.7 | 1918.8 | 1916.8 | 1916.8 | 1918.8 |
| 15°   | 1893.0 | 1885.1 | 1883.1 | 1881.1 | 1883.1 |
| 17.5° | 1853.4 | 1851.4 | 1843.5 | 1843.5 | 1843.5 |
| 20°   | 1809.9 | 1805.9 | 1800.0 | 1796.0 | 1796.0 |
| 22.5° | 1764.3 | 1760.4 | 1750.5 | 1746.5 | 1748.5 |
| 25°   | 1712.8 | 1704.9 | 1697.0 | 1693.0 | 1691.0 |
| 27.5° | 1657.4 | 1649.5 | 1637.6 | 1631.6 | 1631.6 |
| 30°   | 1598.0 | 1592.0 | 1578.2 | 1570.3 | 1568.3 |
| 32.5° | 1532.6 | 1528.7 | 1508.9 | 1504.9 | 1504.9 |
| 35°   | 1471.3 | 1459.4 | 1443.5 | 1435.6 | 1433.6 |
| 37.5° | 1398.0 | 1390.1 | 1374.2 | 1364.3 | 1362.3 |
| 40°   | 1324.7 | 1314.8 | 1299.0 | 1291.1 | 1289.1 |
| 42.5° | 1251.5 | 1241.6 | 1225.7 | 1215.8 | 1213.8 |
| 45°   | 1176.2 | 1168.3 | 1148.5 | 1138.6 | 1138.6 |
| 47.5° | 1104.9 | 1089.1 | 1071.3 | 1063.3 | 1061.4 |
| 50°   | 1027.7 | 1013.8 | 994.0  | 986.1  | 986.1  |
| 52.5° | 950.5  | 940.6  | 918.8  | 914.8  | 910.9  |
| 55°   | 875.2  | 859.4  | 843.5  | 833.6  | 831.7  |
| 57.5° | 794.0  | 780.2  | 764.3  | 756.4  | 756.4  |
| 60°   | 724.7  | 706.9  | 693.1  | 683.2  | 683.2  |
| 62.5° | 645.5  | 629.7  | 615.8  | 609.9  | 607.9  |
| 65°   | 570.3  | 558.4  | 542.6  | 536.6  | 536.6  |
| 67.5° | 495.0  | 485.1  | 471.3  | 465.3  | 467.3  |
| 70°   | 421.8  | 415.8  | 405.9  | 398.0  | 396.0  |
| 72.5° | 354.4  | 346.5  | 336.6  | 334.6  | 334.6  |
| 75°   | 291.1  | 281.2  | 273.3  | 269.3  | 275.2  |
| 77.5° | 225.7  | 219.8  | 215.8  | 213.9  | 215.8  |
| 80°   | 168.3  | 160.4  | 158.4  | 160.4  | 160.4  |
| 82.5° | 116.8  | 112.9  | 110.9  | 110.9  | 110.9  |
| 85°   | 65.3   | 65.3   | 63.4   | 61.4   | 59.4   |
| 87.5° | 25.7   | 25.7   | 27.7   | 27.7   | 29.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)