

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: P#

Luminaire Tested: 14D3X-LP-50-L950.ies

Issue Date: 2/27/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P601206)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/27/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 14D3X-LP-50-L950.ies  
Description: 1x4 D3X-LP AT 5000lm 5000K 90CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4381.2 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

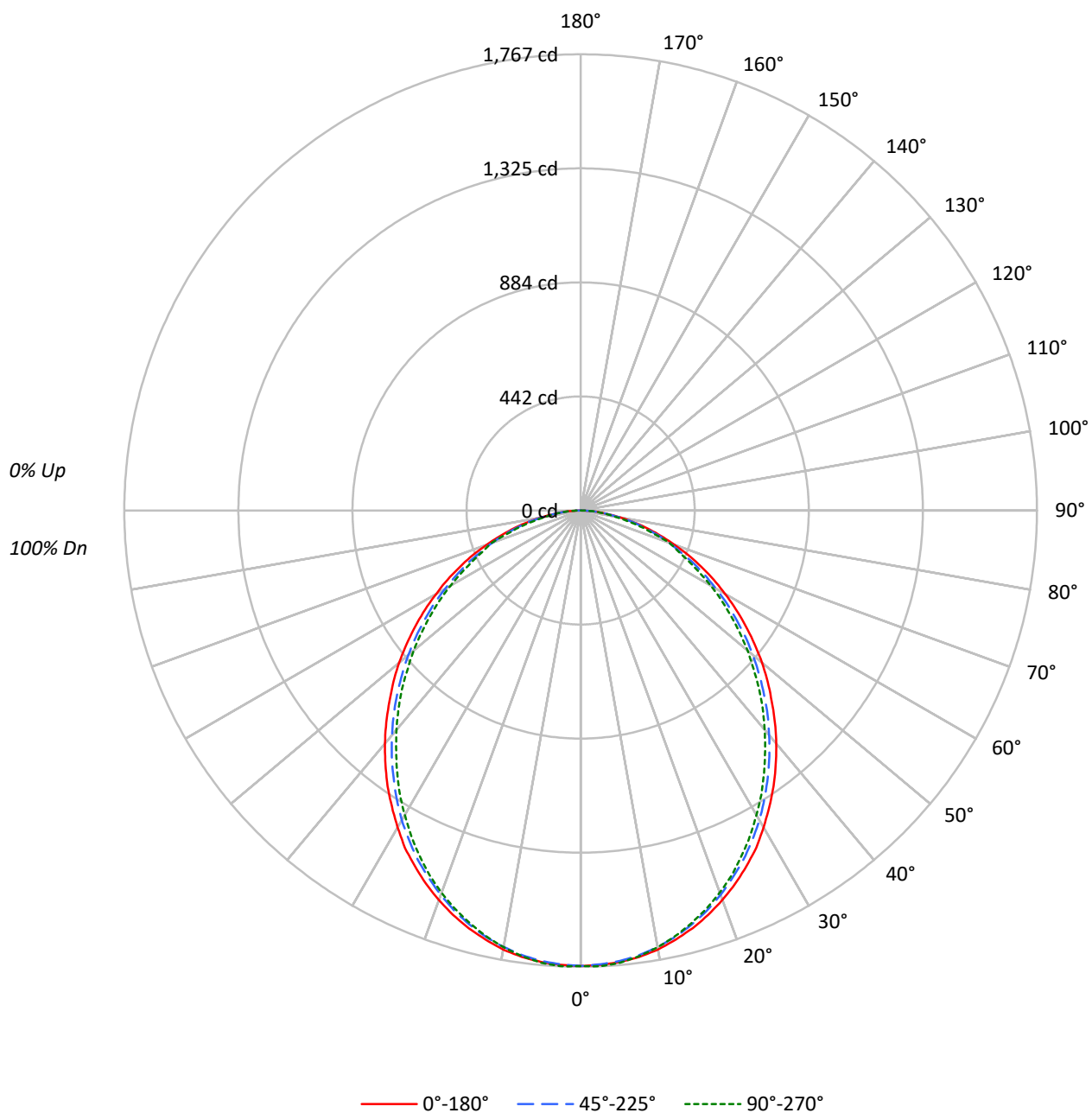
Input Watts (W): 59.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 | 102 | 102 | 100 |
| 1   | 109 | 105 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 73  | 73  | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 63  | 63  | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 54  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 34  | 34  | 32  |
| 9   | 58  | 45  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 30  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 28  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4748 | 4748 | 4748 |
| 5°  | 4741 | 4731 | 4748 |
| 10° | 4718 | 4690 | 4694 |
| 15° | 4666 | 4627 | 4612 |
| 20° | 4596 | 4537 | 4511 |
| 25° | 4512 | 4431 | 4381 |
| 30° | 4403 | 4303 | 4230 |
| 35° | 4281 | 4149 | 4068 |
| 40° | 4141 | 3991 | 3895 |
| 45° | 3983 | 3820 | 3722 |
| 50° | 3839 | 3644 | 3530 |
| 55° | 3665 | 3452 | 3331 |
| 60° | 3472 | 3256 | 3130 |
| 65° | 3275 | 3060 | 2920 |
| 70° | 3027 | 2854 | 2884 |
| 75° | 2787 | 2626 | 2491 |
| 80° | 2428 | 2329 | 2087 |
| 85° | 2041 | 1920 | 1920 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3983 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.4  | 3.8       |
| 10°-20°   | 468.8  | 10.7      |
| 20°-30°   | 687.9  | 15.7      |
| 30°-40°   | 792.3  | 18.1      |
| 40°-50°   | 777.8  | 17.8      |
| 50°-60°   | 663.1  | 15.1      |
| 60°-70°   | 479.7  | 10.9      |
| 70°-80°   | 269.7  | 6.2       |
| 80°-90°   | 75.4   | 1.7       |
| 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°    | 1323.1 | 30.2      |
| 0°-40°    | 2115.5 | 48.3      |
| 0°-60°    | 3556.3 | 81.2      |
| 0°-90°    | 4381.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4381.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1764 | 1764  | 1764 | 1764  | 1764 |      |
| 5°  | 1755 | 1756  | 1751 | 1756  | 1758 | 167  |
| 15° | 1675 | 1672  | 1661 | 1658  | 1656 | 472  |
| 25° | 1520 | 1508  | 1492 | 1481  | 1475 | 700  |
| 35° | 1303 | 1288  | 1263 | 1246  | 1238 | 814  |
| 45° | 1047 | 1034  | 1004 | 984   | 978  | 809  |
| 55° | 781  | 764   | 736  | 718   | 710  | 698  |
| 65° | 514  | 500   | 481  | 462   | 459  | 510  |
| 75° | 268  | 263   | 253  | 242   | 240  | 283  |
| 85° | 66   | 69    | 62   | 62    | 62   | 76   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1764.3 | 1764.3 | 1764.3 | 1764.3 | 1764.3 |
| 2.5°  | 1761.7 | 1763.0 | 1759.1 | 1765.6 | 1766.9 |
| 5°    | 1755.2 | 1756.5 | 1751.4 | 1756.5 | 1757.8 |
| 7.5°  | 1743.6 | 1743.6 | 1737.1 | 1741.0 | 1741.0 |
| 10°   | 1726.7 | 1724.1 | 1716.4 | 1717.7 | 1717.7 |
| 12.5° | 1702.1 | 1702.1 | 1691.8 | 1691.8 | 1689.2 |
| 15°   | 1674.9 | 1672.3 | 1660.7 | 1658.1 | 1655.5 |
| 17.5° | 1642.5 | 1638.7 | 1625.7 | 1620.5 | 1617.9 |
| 20°   | 1605.0 | 1598.5 | 1584.2 | 1577.8 | 1575.2 |
| 22.5° | 1564.8 | 1555.7 | 1538.9 | 1531.1 | 1528.5 |
| 25°   | 1519.5 | 1507.8 | 1492.3 | 1480.6 | 1475.4 |
| 27.5° | 1472.8 | 1461.2 | 1439.2 | 1426.2 | 1421.0 |
| 30°   | 1417.1 | 1405.5 | 1384.8 | 1369.2 | 1361.4 |
| 32.5° | 1360.1 | 1349.8 | 1325.2 | 1308.3 | 1303.2 |
| 35°   | 1303.2 | 1287.6 | 1263.0 | 1246.2 | 1238.4 |
| 37.5° | 1241.0 | 1228.0 | 1200.8 | 1182.7 | 1173.6 |
| 40°   | 1178.8 | 1165.8 | 1136.0 | 1116.6 | 1108.8 |
| 42.5° | 1114.0 | 1097.2 | 1071.3 | 1050.6 | 1044.1 |
| 45°   | 1046.7 | 1033.7 | 1003.9 | 984.5  | 978.0  |
| 47.5° | 983.2  | 963.8  | 936.6  | 917.1  | 908.1  |
| 50°   | 917.1  | 899.0  | 870.5  | 849.8  | 843.3  |
| 52.5° | 848.5  | 832.9  | 804.4  | 783.7  | 775.9  |
| 55°   | 781.1  | 764.3  | 735.8  | 717.6  | 709.9  |
| 57.5° | 713.8  | 698.2  | 672.3  | 651.6  | 646.4  |
| 60°   | 645.1  | 630.8  | 604.9  | 588.1  | 581.6  |
| 62.5° | 581.6  | 564.8  | 541.5  | 524.6  | 518.2  |
| 65°   | 514.3  | 500.0  | 480.6  | 462.5  | 458.6  |
| 67.5° | 452.1  | 441.7  | 417.1  | 404.2  | 405.5  |
| 70°   | 384.7  | 384.7  | 362.7  | 349.8  | 366.6  |
| 72.5° | 325.1  | 326.4  | 307.0  | 299.2  | 292.8  |
| 75°   | 268.1  | 263.0  | 252.6  | 242.2  | 239.6  |
| 77.5° | 211.1  | 213.7  | 204.7  | 185.2  | 182.6  |
| 80°   | 156.7  | 171.0  | 150.3  | 137.3  | 134.7  |
| 82.5° | 107.5  | 121.8  | 103.6  | 97.2   | 95.9   |
| 85°   | 66.1   | 68.7   | 62.2   | 62.2   | 62.2   |
| 87.5° | 28.5   | 32.4   | 31.1   | 31.1   | 32.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)