

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-WD-45-L840.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-WD-45-L840.ies  
Description: 1x4 D3X-LP ROUND PERF AT 4500lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4202.1 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

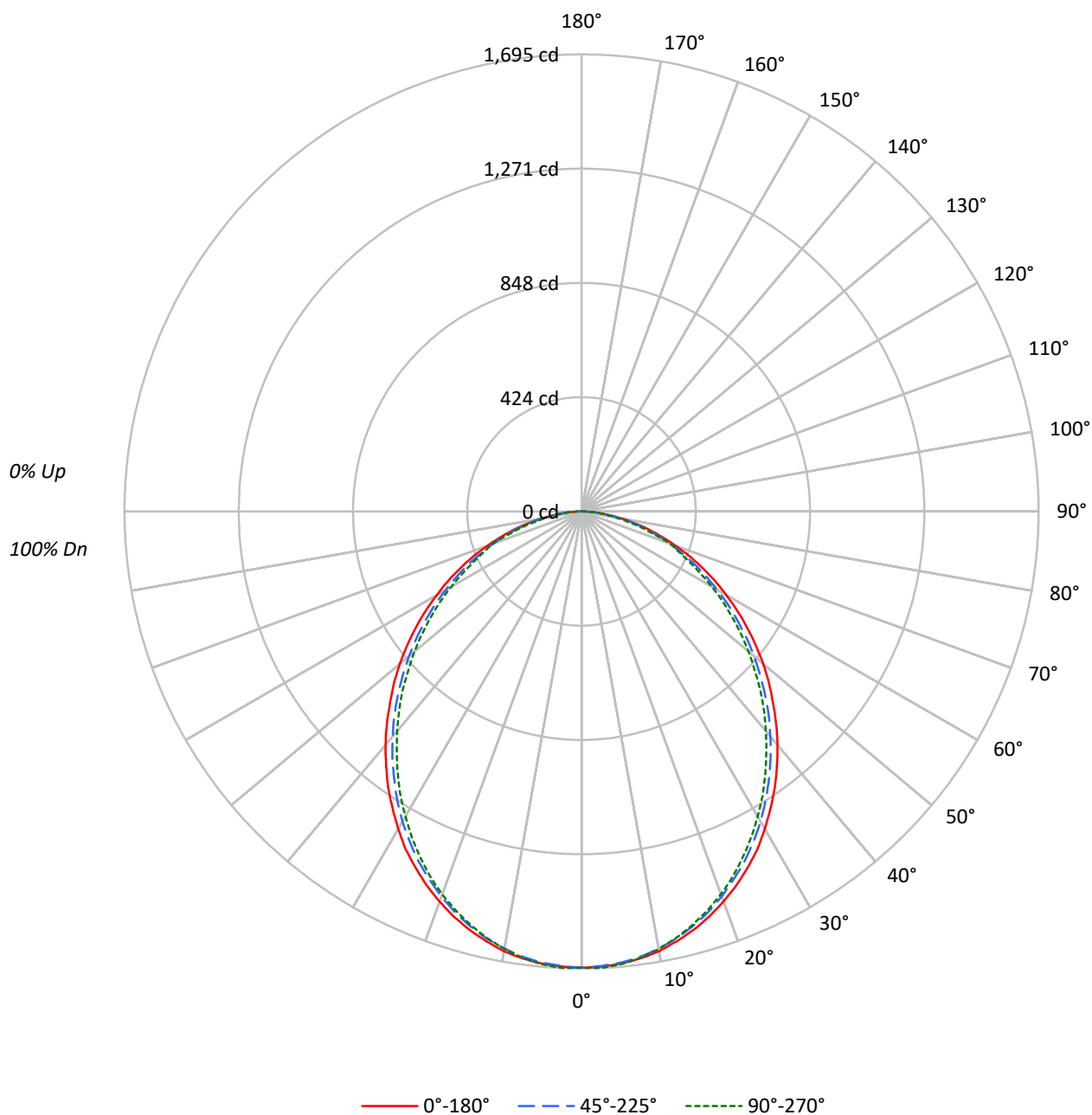
Input Watts (W): 54.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 85  |    | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |    | 71  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 66  | 63  | 60  |    | 60  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |    | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    | 32  |
| 9   | 58  | 45  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 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°  | 4554 | 4554 | 4554 |
| 5°  | 4548 | 4538 | 4554 |
| 10° | 4526 | 4498 | 4502 |
| 15° | 4476 | 4437 | 4423 |
| 20° | 4408 | 4351 | 4326 |
| 25° | 4327 | 4250 | 4202 |
| 30° | 4223 | 4127 | 4057 |
| 35° | 4106 | 3980 | 3902 |
| 40° | 3972 | 3828 | 3736 |
| 45° | 3820 | 3664 | 3570 |
| 50° | 3682 | 3495 | 3386 |
| 55° | 3515 | 3311 | 3194 |
| 60° | 3330 | 3123 | 3003 |
| 65° | 3140 | 2935 | 2800 |
| 70° | 2903 | 2737 | 2766 |
| 75° | 2674 | 2519 | 2389 |
| 80° | 2329 | 2233 | 2002 |
| 85° | 1958 | 1840 | 1840 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3820 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 159.6  | 3.8       |
| 10°-20°   | 449.6  | 10.7      |
| 20°-30°   | 659.8  | 15.7      |
| 30°-40°   | 759.9  | 18.1      |
| 40°-50°   | 746.0  | 17.8      |
| 50°-60°   | 636.0  | 15.1      |
| 60°-70°   | 460.1  | 10.9      |
| 70°-80°   | 258.7  | 6.2       |
| 80°-90°   | 72.3   | 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°    | 1269.1 | 30.2      |
| 0°-40°    | 2029.0 | 48.3      |
| 0°-60°    | 3411.0 | 81.2      |
| 0°-90°    | 4202.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4202.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1692 | 1692  | 1692 | 1692  | 1692 |      |
| 5°  | 1684 | 1685  | 1680 | 1685  | 1686 | 160  |
| 15° | 1606 | 1604  | 1593 | 1590  | 1588 | 453  |
| 25° | 1457 | 1446  | 1431 | 1420  | 1415 | 671  |
| 35° | 1250 | 1235  | 1211 | 1195  | 1188 | 781  |
| 45° | 1004 | 992   | 963  | 944   | 938  | 776  |
| 55° | 749  | 733   | 706  | 688   | 681  | 670  |
| 65° | 493  | 480   | 461  | 444   | 440  | 489  |
| 75° | 257  | 252   | 242  | 232   | 230  | 272  |
| 85° | 63   | 66    | 60   | 60    | 60   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 |
| 2.5°  | 1689.7 | 1690.9 | 1687.2 | 1693.4 | 1694.7 |
| 5°    | 1683.5 | 1684.7 | 1679.8 | 1684.7 | 1686.0 |
| 7.5°  | 1672.3 | 1672.3 | 1666.1 | 1669.8 | 1669.8 |
| 10°   | 1656.2 | 1653.7 | 1646.2 | 1647.5 | 1647.5 |
| 12.5° | 1632.6 | 1632.6 | 1622.6 | 1622.6 | 1620.1 |
| 15°   | 1606.5 | 1604.0 | 1592.8 | 1590.3 | 1587.8 |
| 17.5° | 1575.4 | 1571.7 | 1559.2 | 1554.3 | 1551.8 |
| 20°   | 1539.4 | 1533.2 | 1519.5 | 1513.3 | 1510.8 |
| 22.5° | 1500.9 | 1492.2 | 1476.0 | 1468.6 | 1466.1 |
| 25°   | 1457.4 | 1446.2 | 1431.3 | 1420.1 | 1415.1 |
| 27.5° | 1412.6 | 1401.5 | 1380.3 | 1367.9 | 1362.9 |
| 30°   | 1359.2 | 1348.0 | 1328.2 | 1313.2 | 1305.8 |
| 32.5° | 1304.6 | 1294.6 | 1271.0 | 1254.9 | 1249.9 |
| 35°   | 1249.9 | 1235.0 | 1211.4 | 1195.2 | 1187.8 |
| 37.5° | 1190.2 | 1177.8 | 1151.7 | 1134.3 | 1125.6 |
| 40°   | 1130.6 | 1118.2 | 1089.6 | 1071.0 | 1063.5 |
| 42.5° | 1068.5 | 1052.3 | 1027.5 | 1007.6 | 1001.4 |
| 45°   | 1003.9 | 991.5  | 962.9  | 944.2  | 938.0  |
| 47.5° | 943.0  | 924.4  | 898.3  | 879.6  | 870.9  |
| 50°   | 879.6  | 862.2  | 834.9  | 815.0  | 808.8  |
| 52.5° | 813.8  | 798.9  | 771.5  | 751.7  | 744.2  |
| 55°   | 749.2  | 733.0  | 705.7  | 688.3  | 680.9  |
| 57.5° | 684.6  | 669.7  | 644.8  | 624.9  | 620.0  |
| 60°   | 618.7  | 605.1  | 580.2  | 564.1  | 557.9  |
| 62.5° | 557.9  | 541.7  | 519.3  | 503.2  | 497.0  |
| 65°   | 493.2  | 479.6  | 460.9  | 443.5  | 439.8  |
| 67.5° | 433.6  | 423.7  | 400.1  | 387.6  | 388.9  |
| 70°   | 369.0  | 369.0  | 347.9  | 335.5  | 351.6  |
| 72.5° | 311.8  | 313.1  | 294.5  | 287.0  | 280.8  |
| 75°   | 257.2  | 252.2  | 242.3  | 232.3  | 229.8  |
| 77.5° | 202.5  | 205.0  | 196.3  | 177.7  | 175.2  |
| 80°   | 150.3  | 164.0  | 144.1  | 131.7  | 129.2  |
| 82.5° | 103.1  | 116.8  | 99.4   | 93.2   | 91.9   |
| 85°   | 63.4   | 65.8   | 59.6   | 59.6   | 59.6   |
| 87.5° | 27.3   | 31.1   | 29.8   | 29.8   | 31.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)