

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: P1050698

Luminaire Tested: 24PTR-35-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-35-PL1-L830-UNV-STD-W  
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source:  
Ballast/Driver: -

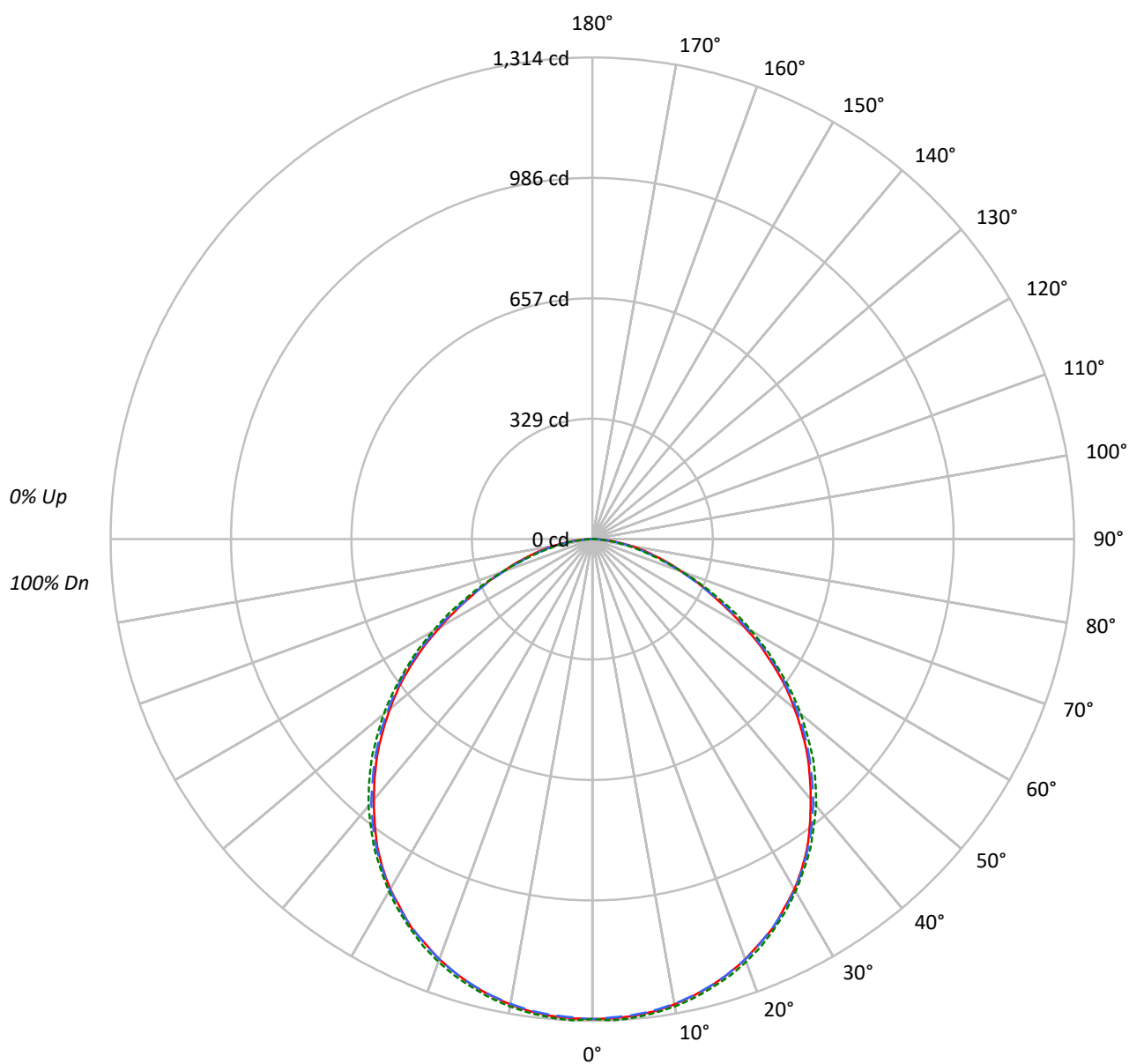
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3451.3 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
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  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| 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 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 55  | 55  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 48  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 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  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 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°  | 1762 | 1762 | 1762 |
| 5°  | 1763 | 1760 | 1770 |
| 10° | 1761 | 1759 | 1769 |
| 15° | 1756 | 1755 | 1764 |
| 20° | 1747 | 1747 | 1757 |
| 25° | 1735 | 1733 | 1742 |
| 30° | 1713 | 1715 | 1724 |
| 35° | 1680 | 1687 | 1700 |
| 40° | 1628 | 1647 | 1668 |
| 45° | 1577 | 1591 | 1621 |
| 50° | 1508 | 1524 | 1554 |
| 55° | 1420 | 1443 | 1460 |
| 60° | 1288 | 1316 | 1348 |
| 65° | 1144 | 1157 | 1203 |
| 70° | 1023 | 1002 | 1027 |
| 75° | 923  | 870  | 852  |
| 80° | 838  | 779  | 691  |
| 85° | 710  | 645  | 556  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1621 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.2  | 3.6       |
| 10°-20°   | 356.2  | 10.3      |
| 20°-30°   | 538.8  | 15.6      |
| 30°-40°   | 642.2  | 18.6      |
| 40°-50°   | 645.8  | 18.7      |
| 50°-60°   | 548.1  | 15.9      |
| 60°-70°   | 364.9  | 10.6      |
| 70°-80°   | 182.2  | 5.3       |
| 80°-90°   | 48.7   | 1.4       |
| 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°    | 1019.2 | 29.5      |
| 0°-40°    | 1661.4 | 48.1      |
| 0°-60°    | 2855.4 | 82.7      |
| 0°-90°    | 3451.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3451.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1309 | 1309  | 1309 | 1309  | 1309 |      |
| 5°  | 1305 | 1306  | 1303 | 1309  | 1310 | 124  |
| 15° | 1260 | 1262  | 1260 | 1265  | 1266 | 356  |
| 25° | 1169 | 1169  | 1167 | 1172  | 1173 | 537  |
| 35° | 1023 | 1024  | 1027 | 1034  | 1035 | 638  |
| 45° | 829  | 830   | 836  | 847   | 852  | 638  |
| 55° | 606  | 610   | 615  | 621   | 622  | 540  |
| 65° | 359  | 362   | 363  | 369   | 378  | 360  |
| 75° | 178  | 175   | 167  | 163   | 164  | 191  |
| 85° | 46   | 45    | 42   | 39    | 36   | 53   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1309.3 | 1309.3 | 1309.3 | 1309.3 | 1309.3 |
| 2.5°  | 1308.2 | 1309.3 | 1305.8 | 1312.1 | 1313.7 |
| 5°    | 1305.4 | 1305.8 | 1303.0 | 1308.8 | 1310.2 |
| 7.5°  | 1299.1 | 1299.6 | 1296.6 | 1303.0 | 1303.8 |
| 10°   | 1288.9 | 1289.9 | 1287.4 | 1293.3 | 1294.7 |
| 12.5° | 1275.8 | 1277.2 | 1274.8 | 1281.1 | 1282.2 |
| 15°   | 1260.3 | 1261.7 | 1259.8 | 1265.1 | 1266.1 |
| 17.5° | 1241.3 | 1242.3 | 1241.3 | 1246.2 | 1249.0 |
| 20°   | 1219.9 | 1219.9 | 1219.9 | 1224.3 | 1226.8 |
| 22.5° | 1193.3 | 1195.8 | 1194.7 | 1200.5 | 1203.0 |
| 25°   | 1168.6 | 1168.6 | 1167.1 | 1172.5 | 1173.4 |
| 27.5° | 1134.1 | 1138.0 | 1137.6 | 1142.4 | 1143.4 |
| 30°   | 1102.5 | 1103.6 | 1104.1 | 1107.5 | 1109.4 |
| 32.5° | 1064.3 | 1065.2 | 1066.8 | 1071.5 | 1072.0 |
| 35°   | 1023.0 | 1024.1 | 1026.9 | 1034.2 | 1035.2 |
| 37.5° | 975.1  | 980.4  | 982.9  | 990.6  | 991.5  |
| 40°   | 927.0  | 930.3  | 937.7  | 945.8  | 949.7  |
| 42.5° | 878.0  | 881.9  | 886.3  | 897.4  | 900.9  |
| 45°   | 829.0  | 830.4  | 835.9  | 847.0  | 851.9  |
| 47.5° | 774.7  | 779.1  | 783.9  | 793.5  | 796.5  |
| 50°   | 720.4  | 725.2  | 728.2  | 736.8  | 742.6  |
| 52.5° | 665.6  | 670.0  | 673.3  | 678.6  | 684.4  |
| 55°   | 605.5  | 609.7  | 615.2  | 621.0  | 622.4  |
| 57.5° | 544.3  | 549.1  | 552.6  | 558.8  | 565.1  |
| 60°   | 478.7  | 484.2  | 489.0  | 494.8  | 501.1  |
| 62.5° | 417.7  | 420.0  | 425.0  | 434.7  | 443.8  |
| 65°   | 359.4  | 362.4  | 363.3  | 368.7  | 377.9  |
| 67.5° | 310.9  | 310.9  | 306.5  | 308.5  | 318.7  |
| 70°   | 260.0  | 258.1  | 254.7  | 252.8  | 261.0  |
| 72.5° | 218.7  | 216.3  | 209.1  | 205.7  | 210.1  |
| 75°   | 177.5  | 175.0  | 167.3  | 163.4  | 163.9  |
| 77.5° | 142.6  | 138.7  | 132.4  | 125.7  | 124.3  |
| 80°   | 108.2  | 106.6  | 100.5  | 94.1   | 89.2   |
| 82.5° | 76.7   | 73.3   | 69.8   | 65.9   | 62.0   |
| 85°   | 46.0   | 45.1   | 41.8   | 39.3   | 36.0   |
| 87.5° | 18.9   | 18.9   | 18.0   | 16.9   | 16.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







— 0°-180°    - - 45°-225°    ..... 90°-270°





(END OF REPORT)