

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: P1050601

Luminaire Tested: 24PTR-45-PB1-L935-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-45-PB1-L935-UNV-STD-W  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

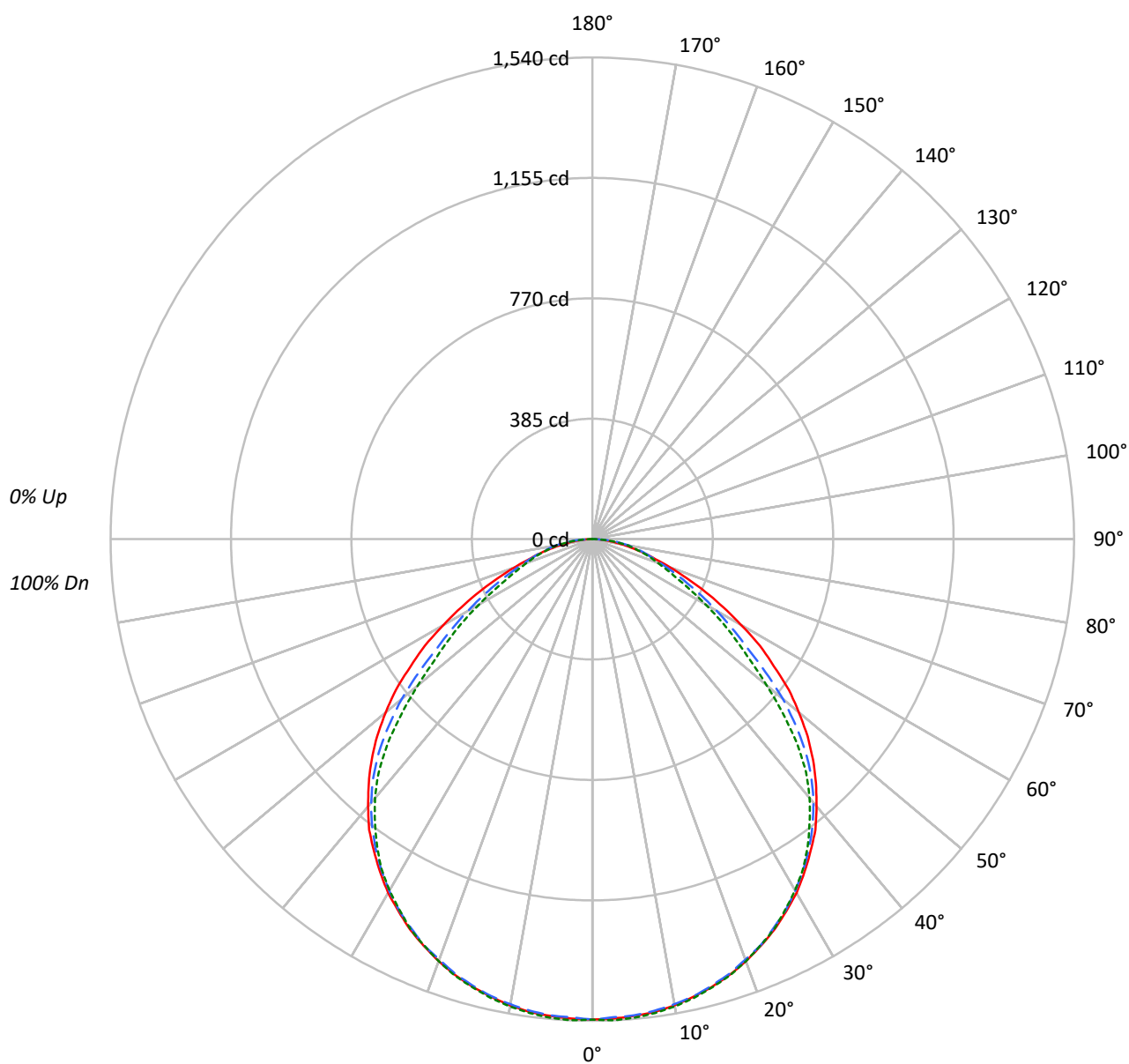
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3830.5 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37  
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 | 100 |    |    |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 89  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  | 62  |    |    |
| 4   | 85  | 73  | 65  | 59  | 83  | 72  | 64  | 58  | 70  | 63  | 58  | 67  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |
| 6   | 72  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |
| 7   | 67  | 54  | 46  | 40  | 66  | 53  | 45  | 40  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 8   | 63  | 50  | 41  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 9   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 30  |    |    |
| 10  | 55  | 42  | 34  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2067 | 2067 | 2067 |
| 5°  | 2067 | 2065 | 2075 |
| 10° | 2068 | 2063 | 2073 |
| 15° | 2064 | 2058 | 2066 |
| 20° | 2056 | 2048 | 2056 |
| 25° | 2045 | 2036 | 2042 |
| 30° | 2029 | 2017 | 2014 |
| 35° | 1999 | 1983 | 1971 |
| 40° | 1958 | 1932 | 1898 |
| 45° | 1898 | 1837 | 1762 |
| 50° | 1804 | 1665 | 1523 |
| 55° | 1662 | 1414 | 1312 |
| 60° | 1480 | 1236 | 1124 |
| 65° | 1269 | 1071 | 957  |
| 70° | 1048 | 944  | 877  |
| 75° | 884  | 904  | 855  |
| 80° | 747  | 922  | 879  |
| 85° | 585  | 934  | 818  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1898 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.7  | 3.8       |
| 10°-20°   | 417.9  | 10.9      |
| 20°-30°   | 633.1  | 16.5      |
| 30°-40°   | 754.4  | 19.7      |
| 40°-50°   | 737.7  | 19.3      |
| 50°-60°   | 558.0  | 14.6      |
| 60°-70°   | 342.8  | 8.9       |
| 70°-80°   | 182.6  | 4.8       |
| 80°-90°   | 58.3   | 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°    | 1196.7 | 31.2      |
| 0°-40°    | 1951.1 | 50.9      |
| 0°-60°    | 3246.8 | 84.8      |
| 0°-90°    | 3830.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3830.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1536 | 1536  | 1536 | 1536  | 1536 |      |
| 5°  | 1530 | 1532  | 1529 | 1534  | 1536 | 146  |
| 15° | 1481 | 1483  | 1478 | 1483  | 1483 | 418  |
| 25° | 1378 | 1376  | 1372 | 1374  | 1376 | 634  |
| 35° | 1217 | 1215  | 1208 | 1202  | 1200 | 761  |
| 45° | 998  | 992   | 966  | 933   | 926  | 767  |
| 55° | 709  | 673   | 603  | 569   | 559  | 635  |
| 65° | 399  | 367   | 336  | 310   | 300  | 397  |
| 75° | 170  | 172   | 174  | 168   | 164  | 182  |
| 85° | 38   | 49    | 60   | 57    | 53   | 46   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1536.2 | 1536.2 | 1536.2 | 1536.2 | 1536.2 |
| 2.5°  | 1534.4 | 1536.2 | 1530.4 | 1538.2 | 1539.9 |
| 5°    | 1530.4 | 1532.4 | 1528.6 | 1534.4 | 1536.2 |
| 7.5°  | 1524.9 | 1524.9 | 1521.1 | 1526.7 | 1528.6 |
| 10°   | 1513.6 | 1513.6 | 1509.8 | 1515.3 | 1517.3 |
| 12.5° | 1498.5 | 1498.5 | 1496.5 | 1500.3 | 1502.3 |
| 15°   | 1481.4 | 1483.2 | 1477.7 | 1483.2 | 1483.2 |
| 17.5° | 1460.6 | 1458.8 | 1456.8 | 1460.6 | 1462.6 |
| 20°   | 1436.0 | 1436.0 | 1430.4 | 1434.2 | 1436.0 |
| 22.5° | 1407.6 | 1407.6 | 1405.8 | 1407.6 | 1405.8 |
| 25°   | 1377.5 | 1375.5 | 1371.7 | 1373.7 | 1375.5 |
| 27.5° | 1341.6 | 1341.6 | 1337.8 | 1337.8 | 1335.8 |
| 30°   | 1305.7 | 1303.7 | 1298.1 | 1294.4 | 1296.1 |
| 32.5° | 1262.2 | 1260.2 | 1254.7 | 1250.9 | 1252.7 |
| 35°   | 1216.8 | 1215.0 | 1207.5 | 1201.7 | 1199.9 |
| 37.5° | 1171.6 | 1165.8 | 1156.3 | 1148.8 | 1141.2 |
| 40°   | 1114.8 | 1109.1 | 1099.8 | 1082.7 | 1080.7 |
| 42.5° | 1058.1 | 1052.6 | 1037.3 | 1016.6 | 1010.9 |
| 45°   | 997.6  | 992.0  | 965.5  | 933.3  | 925.8  |
| 47.5° | 933.3  | 924.0  | 882.3  | 842.7  | 827.6  |
| 50°   | 861.7  | 844.7  | 795.5  | 744.5  | 727.4  |
| 52.5° | 791.7  | 761.5  | 697.3  | 651.8  | 635.0  |
| 55°   | 708.6  | 672.7  | 602.8  | 568.7  | 559.2  |
| 57.5° | 635.0  | 585.8  | 529.1  | 495.1  | 487.6  |
| 60°   | 549.9  | 504.5  | 459.2  | 428.9  | 417.6  |
| 62.5° | 472.3  | 432.6  | 395.0  | 368.4  | 355.3  |
| 65°   | 398.7  | 366.6  | 336.4  | 309.9  | 300.5  |
| 67.5° | 326.9  | 309.9  | 285.3  | 264.6  | 258.9  |
| 70°   | 266.4  | 256.9  | 240.0  | 230.5  | 223.0  |
| 72.5° | 211.7  | 215.4  | 204.1  | 200.4  | 194.6  |
| 75°   | 170.0  | 172.0  | 173.8  | 168.2  | 164.4  |
| 77.5° | 128.5  | 137.9  | 145.4  | 141.6  | 137.9  |
| 80°   | 96.4   | 105.7  | 119.0  | 113.5  | 113.5  |
| 82.5° | 66.1   | 77.6   | 88.9   | 85.1   | 83.1   |
| 85°   | 37.9   | 49.2   | 60.5   | 56.7   | 53.0   |
| 87.5° | 15.1   | 24.6   | 26.4   | 26.4   | 24.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)