

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: P1050964

Luminaire Tested: 24PTR-45-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-45-PR1-L850-UNV-STD-W  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source:  
Ballast/Driver: -

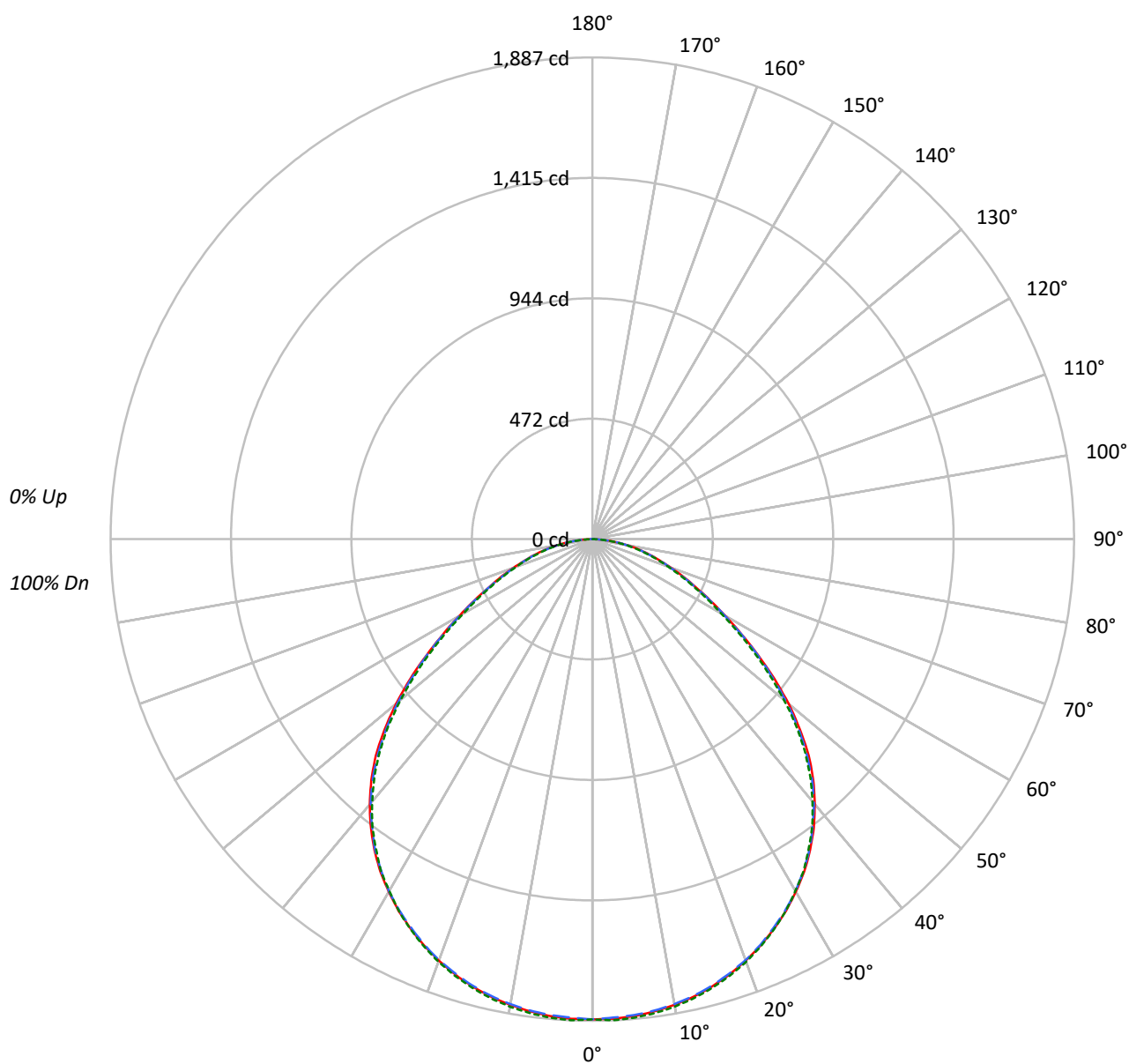
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4757.9 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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  | 92  | 90  | 91  | 89  | 88  | 85  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 41  |    |    |
| 7   | 67  | 54  | 45  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2531 | 2531 | 2531 |
| 5°  | 2534 | 2528 | 2542 |
| 10° | 2532 | 2527 | 2541 |
| 15° | 2527 | 2523 | 2535 |
| 20° | 2516 | 2513 | 2523 |
| 25° | 2500 | 2494 | 2503 |
| 30° | 2478 | 2474 | 2472 |
| 35° | 2443 | 2438 | 2428 |
| 40° | 2382 | 2372 | 2356 |
| 45° | 2282 | 2257 | 2241 |
| 50° | 2100 | 2076 | 2051 |
| 55° | 1859 | 1851 | 1814 |
| 60° | 1615 | 1609 | 1566 |
| 65° | 1423 | 1415 | 1387 |
| 70° | 1292 | 1273 | 1247 |
| 75° | 1196 | 1168 | 1146 |
| 80° | 1092 | 1076 | 1041 |
| 85° | 863  | 855  | 821  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2282 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 178.4  | 3.8       |
| 10°-20°   | 512.2  | 10.8      |
| 20°-30°   | 776.0  | 16.3      |
| 30°-40°   | 926.3  | 19.5      |
| 40°-50°   | 911.0  | 19.1      |
| 50°-60°   | 704.1  | 14.8      |
| 60°-70°   | 444.0  | 9.3       |
| 70°-80°   | 240.2  | 5.0       |
| 80°-90°   | 65.6   | 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°    | 1466.7 | 30.8      |
| 0°-40°    | 2393.0 | 50.3      |
| 0°-60°    | 4008.1 | 84.2      |
| 0°-90°    | 4757.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4757.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1881 | 1881  | 1881 | 1881  | 1881 |      |
| 5°  | 1876 | 1877  | 1872 | 1880  | 1882 | 178  |
| 15° | 1814 | 1814  | 1811 | 1817  | 1820 | 512  |
| 25° | 1684 | 1685  | 1680 | 1685  | 1686 | 776  |
| 35° | 1488 | 1488  | 1484 | 1482  | 1478 | 929  |
| 45° | 1200 | 1195  | 1186 | 1177  | 1178 | 919  |
| 55° | 792  | 799   | 789  | 776   | 774  | 711  |
| 65° | 447  | 448   | 444  | 437   | 436  | 450  |
| 75° | 230  | 227   | 225  | 226   | 220  | 244  |
| 85° | 56   | 57    | 55   | 56    | 53   | 66   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1881.3 | 1881.3 | 1881.3 | 1881.3 | 1881.3 |
| 2.5°  | 1880.6 | 1881.3 | 1875.9 | 1884.8 | 1886.7 |
| 5°    | 1875.9 | 1876.7 | 1871.8 | 1879.9 | 1882.1 |
| 7.5°  | 1866.4 | 1867.9 | 1863.2 | 1871.3 | 1873.2 |
| 10°   | 1852.9 | 1854.4 | 1849.7 | 1857.8 | 1859.8 |
| 12.5° | 1836.2 | 1836.7 | 1832.8 | 1840.2 | 1842.1 |
| 15°   | 1814.0 | 1814.4 | 1811.3 | 1817.1 | 1819.8 |
| 17.5° | 1788.2 | 1789.0 | 1784.3 | 1791.7 | 1792.9 |
| 20°   | 1757.4 | 1757.8 | 1755.2 | 1761.3 | 1762.0 |
| 22.5° | 1722.8 | 1724.3 | 1720.1 | 1725.5 | 1726.2 |
| 25°   | 1683.9 | 1685.1 | 1679.7 | 1685.1 | 1685.8 |
| 27.5° | 1642.7 | 1643.2 | 1638.5 | 1642.7 | 1642.0 |
| 30°   | 1594.7 | 1598.8 | 1592.7 | 1591.2 | 1590.8 |
| 32.5° | 1544.9 | 1545.4 | 1539.6 | 1538.1 | 1540.8 |
| 35°   | 1487.6 | 1488.1 | 1484.2 | 1482.2 | 1478.1 |
| 37.5° | 1424.9 | 1424.9 | 1417.3 | 1416.1 | 1415.3 |
| 40°   | 1356.1 | 1355.3 | 1350.7 | 1346.0 | 1341.1 |
| 42.5° | 1281.1 | 1282.6 | 1273.0 | 1264.9 | 1263.7 |
| 45°   | 1199.5 | 1194.8 | 1186.0 | 1176.7 | 1177.5 |
| 47.5° | 1103.2 | 1104.4 | 1092.4 | 1084.8 | 1082.9 |
| 50°   | 1003.3 | 1003.3 | 992.0  | 983.9  | 979.7  |
| 52.5° | 898.9  | 899.6  | 888.8  | 878.1  | 875.9  |
| 55°   | 792.3  | 798.9  | 788.9  | 776.1  | 773.5  |
| 57.5° | 692.6  | 698.0  | 688.4  | 675.0  | 674.2  |
| 60°   | 600.2  | 600.7  | 598.0  | 585.3  | 581.9  |
| 62.5° | 521.4  | 517.9  | 516.5  | 509.8  | 505.7  |
| 65°   | 447.1  | 447.9  | 444.4  | 436.8  | 435.6  |
| 67.5° | 387.1  | 386.4  | 380.2  | 375.6  | 372.9  |
| 70°   | 328.3  | 326.3  | 323.6  | 319.7  | 317.0  |
| 72.5° | 275.9  | 275.9  | 273.7  | 272.4  | 267.8  |
| 75°   | 230.1  | 227.4  | 224.7  | 225.9  | 220.5  |
| 77.5° | 186.2  | 183.5  | 181.3  | 178.6  | 177.4  |
| 80°   | 140.9  | 138.2  | 138.9  | 134.7  | 134.3  |
| 82.5° | 97.8   | 97.8   | 96.5   | 93.1   | 93.8   |
| 85°   | 55.9   | 56.6   | 55.4   | 55.9   | 53.2   |
| 87.5° | 20.3   | 20.8   | 22.3   | 20.8   | 20.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)