

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: P1050734

Luminaire Tested: 24PTR-50-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050734  
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-50-PL1-L850-UNV-STD-W  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source:  
Ballast/Driver: -

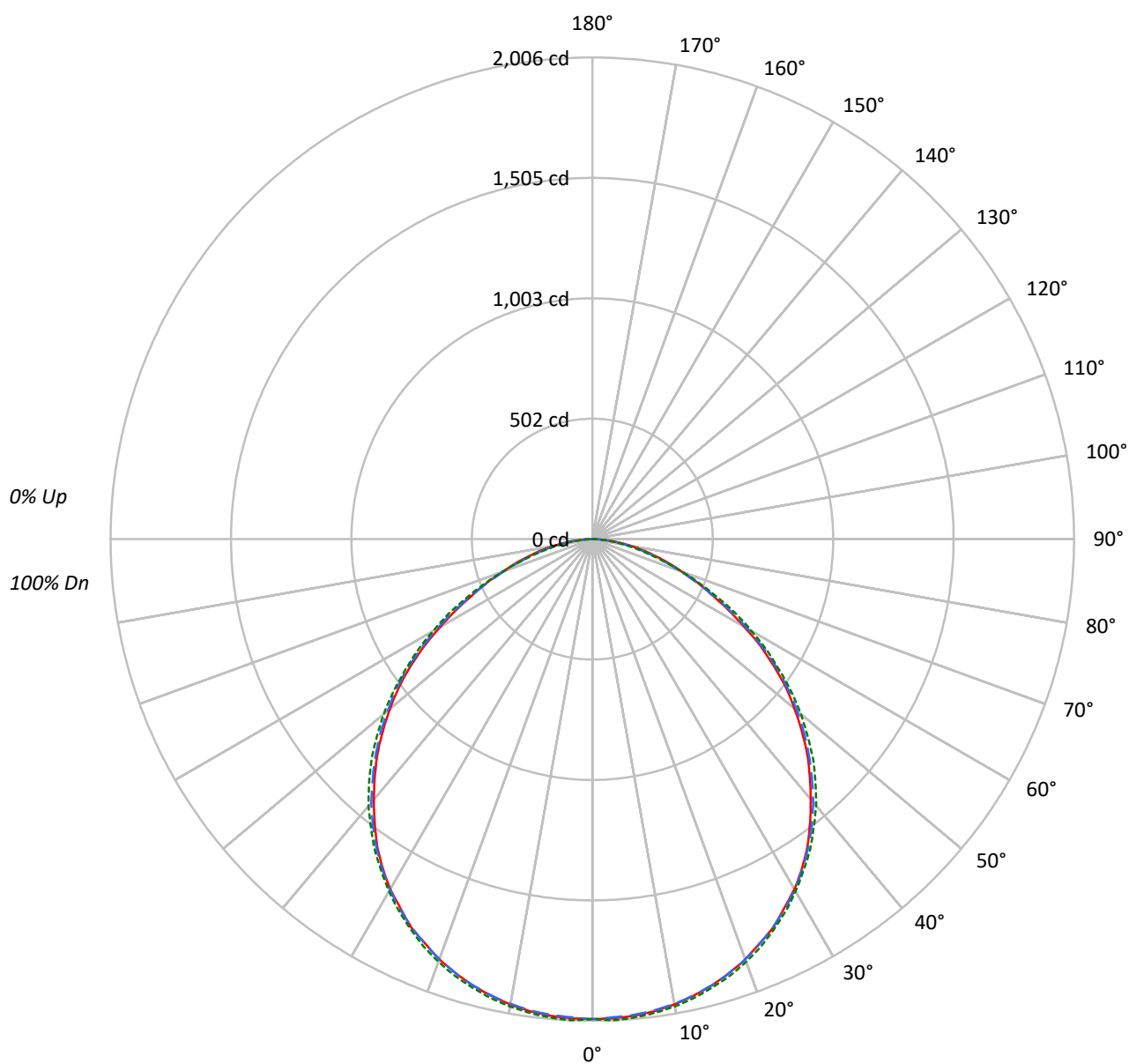
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5269.1 lumens  
Efficiency: N/A  
Efficacy: 128.5 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): 41  
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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 52  |    |    |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |    |    |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 29  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2689 | 2689 | 2689 |
| 5°  | 2692 | 2687 | 2702 |
| 10° | 2688 | 2685 | 2701 |
| 15° | 2680 | 2679 | 2693 |
| 20° | 2667 | 2667 | 2682 |
| 25° | 2649 | 2645 | 2659 |
| 30° | 2615 | 2619 | 2631 |
| 35° | 2565 | 2575 | 2596 |
| 40° | 2486 | 2514 | 2547 |
| 45° | 2408 | 2428 | 2475 |
| 50° | 2302 | 2327 | 2373 |
| 55° | 2168 | 2203 | 2229 |
| 60° | 1967 | 2009 | 2059 |
| 65° | 1747 | 1766 | 1837 |
| 70° | 1561 | 1530 | 1568 |
| 75° | 1409 | 1328 | 1301 |
| 80° | 1280 | 1189 | 1055 |
| 85° | 1084 | 985  | 848  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2475 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.6  | 3.6       |
| 10°-20°   | 543.8  | 10.3      |
| 20°-30°   | 822.6  | 15.6      |
| 30°-40°   | 980.5  | 18.6      |
| 40°-50°   | 986.0  | 18.7      |
| 50°-60°   | 836.8  | 15.9      |
| 60°-70°   | 557.2  | 10.6      |
| 70°-80°   | 278.2  | 5.3       |
| 80°-90°   | 74.4   | 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°    | 1556.0 | 29.5      |
| 0°-40°    | 2536.5 | 48.1      |
| 0°-60°    | 4359.3 | 82.7      |
| 0°-90°    | 5269.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5269.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1999 | 1999  | 1999 | 1999  | 1999 |      |
| 5°  | 1993 | 1994  | 1989 | 1998  | 2000 | 189  |
| 15° | 1924 | 1926  | 1923 | 1931  | 1933 | 543  |
| 25° | 1784 | 1784  | 1782 | 1790  | 1791 | 820  |
| 35° | 1562 | 1564  | 1568 | 1579  | 1580 | 974  |
| 45° | 1266 | 1268  | 1276 | 1293  | 1301 | 974  |
| 55° | 924  | 931   | 939  | 948   | 950  | 824  |
| 65° | 549  | 553   | 555  | 563   | 577  | 550  |
| 75° | 271  | 267   | 255  | 250   | 250  | 291  |
| 85° | 70   | 69    | 64   | 60    | 55   | 81   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1998.9 | 1998.9 | 1998.9 | 1998.9 | 1998.9 |
| 2.5°  | 1997.3 | 1998.9 | 1993.5 | 2003.2 | 2005.6 |
| 5°    | 1993.0 | 1993.5 | 1989.2 | 1998.1 | 2000.3 |
| 7.5°  | 1983.3 | 1984.1 | 1979.5 | 1989.2 | 1990.6 |
| 10°   | 1967.7 | 1969.3 | 1965.5 | 1974.4 | 1976.6 |
| 12.5° | 1947.8 | 1949.9 | 1946.2 | 1955.9 | 1957.5 |
| 15°   | 1924.1 | 1926.3 | 1923.3 | 1931.4 | 1933.0 |
| 17.5° | 1895.0 | 1896.7 | 1895.0 | 1902.6 | 1906.9 |
| 20°   | 1862.5 | 1862.5 | 1862.5 | 1869.2 | 1873.0 |
| 22.5° | 1821.8 | 1825.6 | 1824.0 | 1832.9 | 1836.6 |
| 25°   | 1784.2 | 1784.2 | 1781.7 | 1790.1 | 1791.4 |
| 27.5° | 1731.4 | 1737.3 | 1736.8 | 1744.1 | 1745.7 |
| 30°   | 1683.3 | 1684.9 | 1685.7 | 1690.8 | 1693.7 |
| 32.5° | 1624.9 | 1626.2 | 1628.6 | 1635.9 | 1636.7 |
| 35°   | 1561.9 | 1563.5 | 1567.8 | 1578.8 | 1580.5 |
| 37.5° | 1488.7 | 1496.8 | 1500.5 | 1512.4 | 1513.7 |
| 40°   | 1415.2 | 1420.3 | 1431.6 | 1444.0 | 1449.9 |
| 42.5° | 1340.4 | 1346.3 | 1353.1 | 1370.0 | 1375.4 |
| 45°   | 1265.6 | 1267.8 | 1276.1 | 1293.0 | 1300.6 |
| 47.5° | 1182.7 | 1189.4 | 1196.7 | 1211.5 | 1216.1 |
| 50°   | 1099.8 | 1107.1 | 1111.7 | 1124.9 | 1133.7 |
| 52.5° | 1016.1 | 1022.9 | 1028.0 | 1036.1 | 1044.9 |
| 55°   | 924.4  | 930.8  | 939.2  | 948.1  | 950.2  |
| 57.5° | 831.0  | 838.3  | 843.6  | 853.1  | 862.8  |
| 60°   | 730.9  | 739.2  | 746.5  | 755.4  | 765.1  |
| 62.5° | 637.8  | 641.3  | 648.8  | 663.6  | 677.6  |
| 65°   | 548.7  | 553.3  | 554.6  | 563.0  | 577.0  |
| 67.5° | 474.7  | 474.7  | 468.0  | 470.9  | 486.5  |
| 70°   | 396.9  | 394.0  | 388.9  | 385.9  | 398.5  |
| 72.5° | 334.0  | 330.2  | 319.2  | 314.0  | 320.8  |
| 75°   | 271.0  | 267.2  | 255.4  | 249.5  | 250.3  |
| 77.5° | 217.7  | 211.8  | 202.1  | 191.9  | 189.7  |
| 80°   | 165.2  | 162.8  | 153.4  | 143.7  | 136.2  |
| 82.5° | 117.1  | 111.9  | 106.6  | 100.6  | 94.7   |
| 85°   | 70.2   | 68.9   | 63.8   | 60.0   | 54.9   |
| 87.5° | 28.8   | 28.8   | 27.4   | 25.8   | 24.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)