

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: P1050536

Luminaire Tested: 24PTR-50-L940-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-50-L940-UNV-STD-W  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

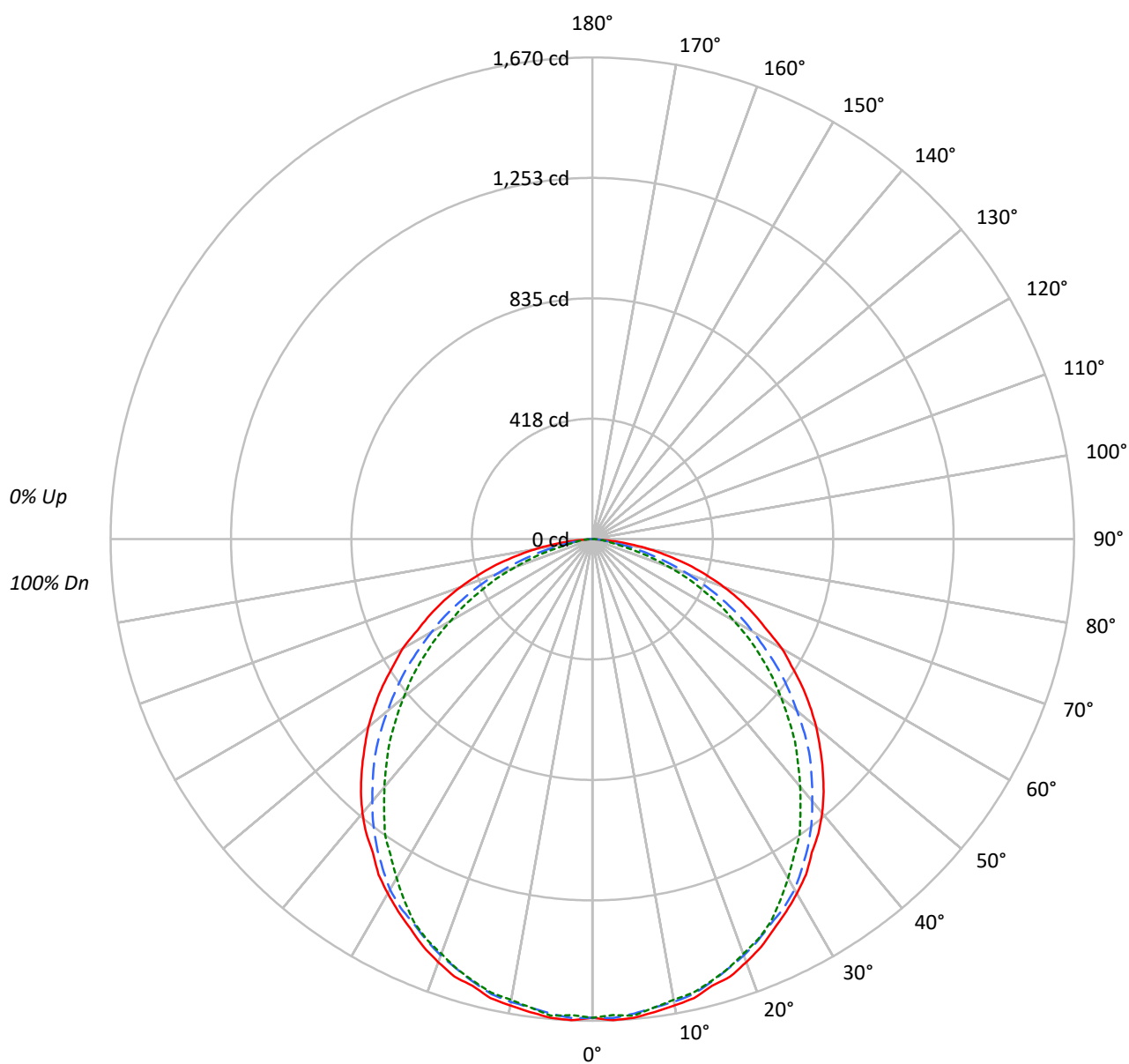
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4420.6 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.21 / 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  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2233 | 2233 | 2233 |
| 5°  | 2249 | 2231 | 2240 |
| 10° | 2243 | 2226 | 2216 |
| 15° | 2233 | 2215 | 2211 |
| 20° | 2235 | 2199 | 2191 |
| 25° | 2213 | 2181 | 2173 |
| 30° | 2204 | 2179 | 2108 |
| 35° | 2179 | 2140 | 2057 |
| 40° | 2177 | 2083 | 1969 |
| 45° | 2150 | 2029 | 1890 |
| 50° | 2121 | 1939 | 1788 |
| 55° | 2080 | 1848 | 1679 |
| 60° | 2043 | 1729 | 1524 |
| 65° | 1973 | 1586 | 1363 |
| 70° | 1909 | 1380 | 1112 |
| 75° | 1794 | 1090 | 766  |
| 80° | 1555 | 659  | 459  |
| 85° | 1037 | 472  | 443  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2150 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.3  | 3.6       |
| 10°-20°   | 450.2  | 10.2      |
| 20°-30°   | 680.0  | 15.4      |
| 30°-40°   | 808.5  | 18.3      |
| 40°-50°   | 819.9  | 18.5      |
| 50°-60°   | 712.0  | 16.1      |
| 60°-70°   | 505.5  | 11.4      |
| 70°-80°   | 241.5  | 5.5       |
| 80°-90°   | 45.8   | 1.0       |
| 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°    | 1287.4 | 29.1      |
| 0°-40°    | 2095.9 | 47.4      |
| 0°-60°    | 3627.9 | 82.1      |
| 0°-90°    | 4420.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4420.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1660 | 1660  | 1660 | 1660  | 1660 |      |
| 5°  | 1666 | 1660  | 1652 | 1656  | 1659 | 158  |
| 15° | 1603 | 1607  | 1590 | 1588  | 1587 | 454  |
| 25° | 1491 | 1489  | 1469 | 1475  | 1464 | 688  |
| 35° | 1326 | 1324  | 1303 | 1258  | 1252 | 834  |
| 45° | 1130 | 1120  | 1066 | 1010  | 993  | 871  |
| 55° | 887  | 860   | 788  | 741   | 716  | 792  |
| 65° | 620  | 573   | 498  | 445   | 428  | 614  |
| 75° | 345  | 282   | 210  | 166   | 147  | 362  |
| 85° | 67   | 36    | 31   | 30    | 29   | 85   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1659.6 | 1659.6 | 1659.6 | 1659.6 | 1659.6 |
| 2.5°  | 1669.5 | 1663.6 | 1661.6 | 1668.5 | 1651.7 |
| 5°    | 1665.5 | 1659.6 | 1651.7 | 1655.7 | 1658.6 |
| 7.5°  | 1653.7 | 1648.7 | 1637.9 | 1646.8 | 1637.9 |
| 10°   | 1641.8 | 1636.9 | 1629.0 | 1631.9 | 1622.0 |
| 12.5° | 1630.0 | 1618.1 | 1616.1 | 1618.1 | 1611.2 |
| 15°   | 1603.3 | 1607.2 | 1590.4 | 1588.4 | 1587.4 |
| 17.5° | 1590.4 | 1580.5 | 1562.7 | 1563.7 | 1561.7 |
| 20°   | 1560.8 | 1548.9 | 1536.0 | 1534.1 | 1530.1 |
| 22.5° | 1530.1 | 1516.3 | 1504.4 | 1510.3 | 1501.5 |
| 25°   | 1490.6 | 1488.6 | 1468.8 | 1474.8 | 1463.9 |
| 27.5° | 1456.0 | 1449.1 | 1440.2 | 1427.3 | 1411.5 |
| 30°   | 1418.4 | 1411.5 | 1402.6 | 1369.0 | 1357.1 |
| 32.5° | 1378.9 | 1371.0 | 1353.2 | 1313.6 | 1300.8 |
| 35°   | 1326.5 | 1324.5 | 1302.8 | 1258.3 | 1252.4 |
| 37.5° | 1287.0 | 1265.2 | 1247.4 | 1202.0 | 1185.1 |
| 40°   | 1239.5 | 1227.7 | 1186.1 | 1142.6 | 1120.9 |
| 42.5° | 1187.1 | 1173.3 | 1125.8 | 1079.4 | 1055.7 |
| 45°   | 1129.8 | 1119.9 | 1066.5 | 1010.2 | 993.4  |
| 47.5° | 1070.5 | 1061.6 | 998.3  | 944.0  | 922.2  |
| 50°   | 1013.2 | 1002.3 | 926.2  | 873.8  | 854.0  |
| 52.5° | 950.9  | 933.1  | 858.0  | 806.6  | 787.8  |
| 55°   | 886.6  | 860.0  | 787.8  | 741.3  | 715.6  |
| 57.5° | 818.4  | 793.7  | 713.7  | 665.2  | 644.5  |
| 60°   | 759.1  | 724.5  | 642.5  | 593.1  | 566.4  |
| 62.5° | 683.0  | 653.4  | 575.3  | 517.0  | 504.1  |
| 65°   | 619.8  | 573.3  | 498.2  | 444.8  | 428.0  |
| 67.5° | 555.5  | 501.1  | 425.0  | 370.7  | 361.8  |
| 70°   | 485.3  | 429.0  | 350.9  | 297.5  | 282.7  |
| 72.5° | 414.2  | 358.8  | 282.7  | 226.4  | 217.5  |
| 75°   | 345.0  | 281.7  | 209.6  | 166.1  | 147.3  |
| 77.5° | 269.8  | 212.5  | 147.3  | 101.8  | 89.9   |
| 80°   | 200.7  | 143.3  | 85.0   | 60.3   | 59.3   |
| 82.5° | 131.5  | 83.0   | 45.5   | 46.5   | 44.5   |
| 85°   | 67.2   | 35.6   | 30.6   | 29.7   | 28.7   |
| 87.5° | 12.8   | 13.8   | 14.8   | 14.8   | 14.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)