

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: P1050876

Luminaire Tested: 24PTR-45-PP3-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-45-PP3-L840-UNV-STD-W  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS  
  
Light Source:  
Ballast/Driver: -

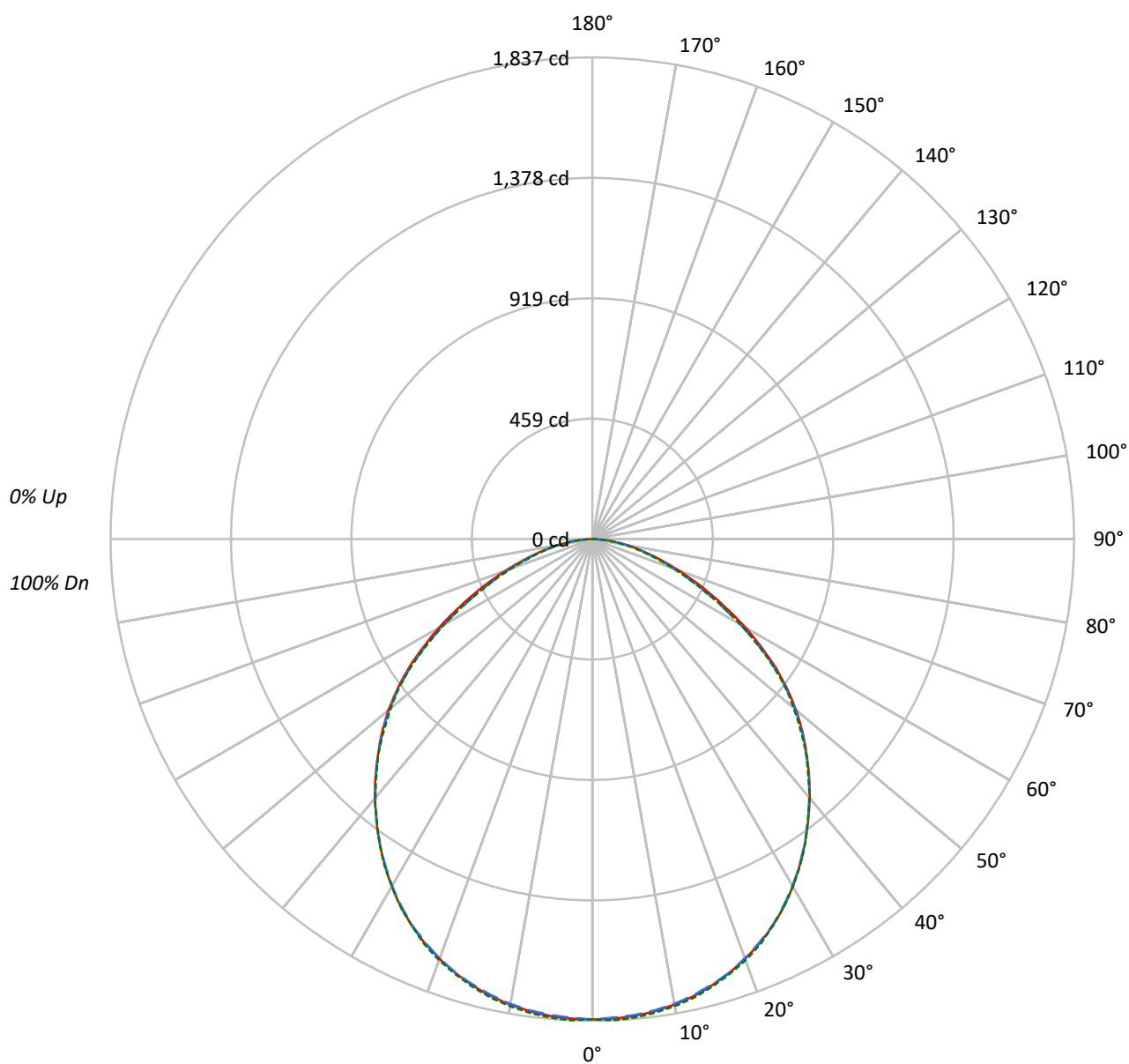
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4731.6 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 52  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2464 | 2464 | 2464 |
| 5°  | 2466 | 2461 | 2474 |
| 10° | 2463 | 2459 | 2471 |
| 15° | 2455 | 2450 | 2461 |
| 20° | 2439 | 2436 | 2447 |
| 25° | 2417 | 2413 | 2416 |
| 30° | 2376 | 2371 | 2376 |
| 35° | 2324 | 2321 | 2323 |
| 40° | 2265 | 2258 | 2264 |
| 45° | 2197 | 2191 | 2193 |
| 50° | 2123 | 2113 | 2098 |
| 55° | 1999 | 1976 | 1970 |
| 60° | 1814 | 1753 | 1756 |
| 65° | 1593 | 1513 | 1511 |
| 70° | 1378 | 1315 | 1300 |
| 75° | 1192 | 1148 | 1122 |
| 80° | 1055 | 1041 | 994  |
| 85° | 872  | 903  | 851  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2205 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.7  | 3.7       |
| 10°-20°   | 497.5  | 10.5      |
| 20°-30°   | 749.1  | 15.8      |
| 30°-40°   | 884.1  | 18.7      |
| 40°-50°   | 889.1  | 18.8      |
| 50°-60°   | 750.6  | 15.9      |
| 60°-70°   | 482.1  | 10.2      |
| 70°-80°   | 239.8  | 5.1       |
| 80°-90°   | 65.7   | 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°    | 1420.3 | 30.0      |
| 0°-40°    | 2304.3 | 48.7      |
| 0°-60°    | 3944.1 | 83.4      |
| 0°-90°    | 4731.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4731.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1831 | 1831  | 1831 | 1831  | 1831 |      |
| 5°  | 1826 | 1826  | 1822 | 1831  | 1832 | 174  |
| 15° | 1762 | 1763  | 1759 | 1767  | 1767 | 497  |
| 25° | 1628 | 1628  | 1625 | 1628  | 1627 | 749  |
| 35° | 1415 | 1416  | 1413 | 1414  | 1414 | 884  |
| 45° | 1154 | 1159  | 1151 | 1153  | 1153 | 891  |
| 55° | 852  | 851   | 842  | 839   | 840  | 758  |
| 65° | 500  | 493   | 475  | 470   | 475  | 499  |
| 75° | 229  | 228   | 221  | 219   | 216  | 248  |
| 85° | 56   | 58    | 58   | 55    | 55   | 66   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1831.3 | 1831.3 | 1831.3 | 1831.3 | 1831.3 |
| 2.5°  | 1830.6 | 1831.3 | 1826.5 | 1835.2 | 1836.6 |
| 5°    | 1826.0 | 1826.5 | 1821.9 | 1830.6 | 1831.8 |
| 7.5°  | 1816.6 | 1817.3 | 1813.2 | 1821.2 | 1822.6 |
| 10°   | 1802.6 | 1804.7 | 1799.9 | 1807.4 | 1808.6 |
| 12.5° | 1785.4 | 1786.1 | 1781.3 | 1790.0 | 1791.5 |
| 15°   | 1762.2 | 1762.7 | 1758.9 | 1766.8 | 1766.8 |
| 17.5° | 1735.4 | 1736.1 | 1733.5 | 1740.3 | 1739.5 |
| 20°   | 1703.1 | 1705.0 | 1701.6 | 1706.2 | 1708.9 |
| 22.5° | 1667.8 | 1668.5 | 1664.4 | 1670.4 | 1673.1 |
| 25°   | 1627.9 | 1628.4 | 1625.3 | 1628.4 | 1627.2 |
| 27.5° | 1581.3 | 1582.5 | 1577.9 | 1581.3 | 1582.0 |
| 30°   | 1529.4 | 1532.8 | 1526.3 | 1528.9 | 1529.4 |
| 32.5° | 1473.6 | 1475.5 | 1470.9 | 1471.7 | 1475.0 |
| 35°   | 1415.1 | 1415.9 | 1413.2 | 1414.4 | 1414.4 |
| 37.5° | 1352.1 | 1354.8 | 1350.7 | 1352.6 | 1349.9 |
| 40°   | 1289.6 | 1286.9 | 1285.4 | 1286.9 | 1288.8 |
| 42.5° | 1223.6 | 1224.3 | 1222.4 | 1221.0 | 1217.8 |
| 45°   | 1154.5 | 1158.6 | 1151.2 | 1152.6 | 1152.6 |
| 47.5° | 1086.9 | 1087.4 | 1083.5 | 1079.4 | 1076.8 |
| 50°   | 1014.4 | 1014.4 | 1009.6 | 1006.5 | 1002.4 |
| 52.5° | 935.2  | 934.0  | 928.7  | 925.3  | 927.2  |
| 55°   | 852.1  | 851.4  | 842.2  | 838.8  | 839.6  |
| 57.5° | 761.1  | 762.5  | 748.5  | 745.1  | 745.1  |
| 60°   | 674.1  | 667.4  | 651.4  | 646.8  | 652.6  |
| 62.5° | 582.8  | 574.9  | 557.7  | 557.7  | 562.3  |
| 65°   | 500.5  | 493.2  | 475.3  | 470.5  | 474.6  |
| 67.5° | 423.4  | 416.6  | 400.2  | 397.6  | 398.8  |
| 70°   | 350.2  | 344.4  | 334.3  | 328.2  | 330.4  |
| 72.5° | 287.2  | 281.9  | 275.1  | 270.5  | 267.9  |
| 75°   | 229.2  | 228.0  | 220.8  | 218.6  | 215.9  |
| 77.5° | 181.4  | 180.9  | 174.9  | 172.2  | 169.6  |
| 80°   | 136.2  | 135.5  | 134.3  | 130.2  | 128.3  |
| 82.5° | 97.1   | 97.1   | 96.4   | 93.0   | 91.1   |
| 85°   | 56.5   | 58.5   | 58.5   | 55.1   | 55.1   |
| 87.5° | 22.7   | 23.9   | 22.7   | 22.7   | 22.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)