

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: P1050623

Luminaire Tested: 24PTR-45-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-45-PC3-L830-UNV-STD-W  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source:  
Ballast/Driver: -

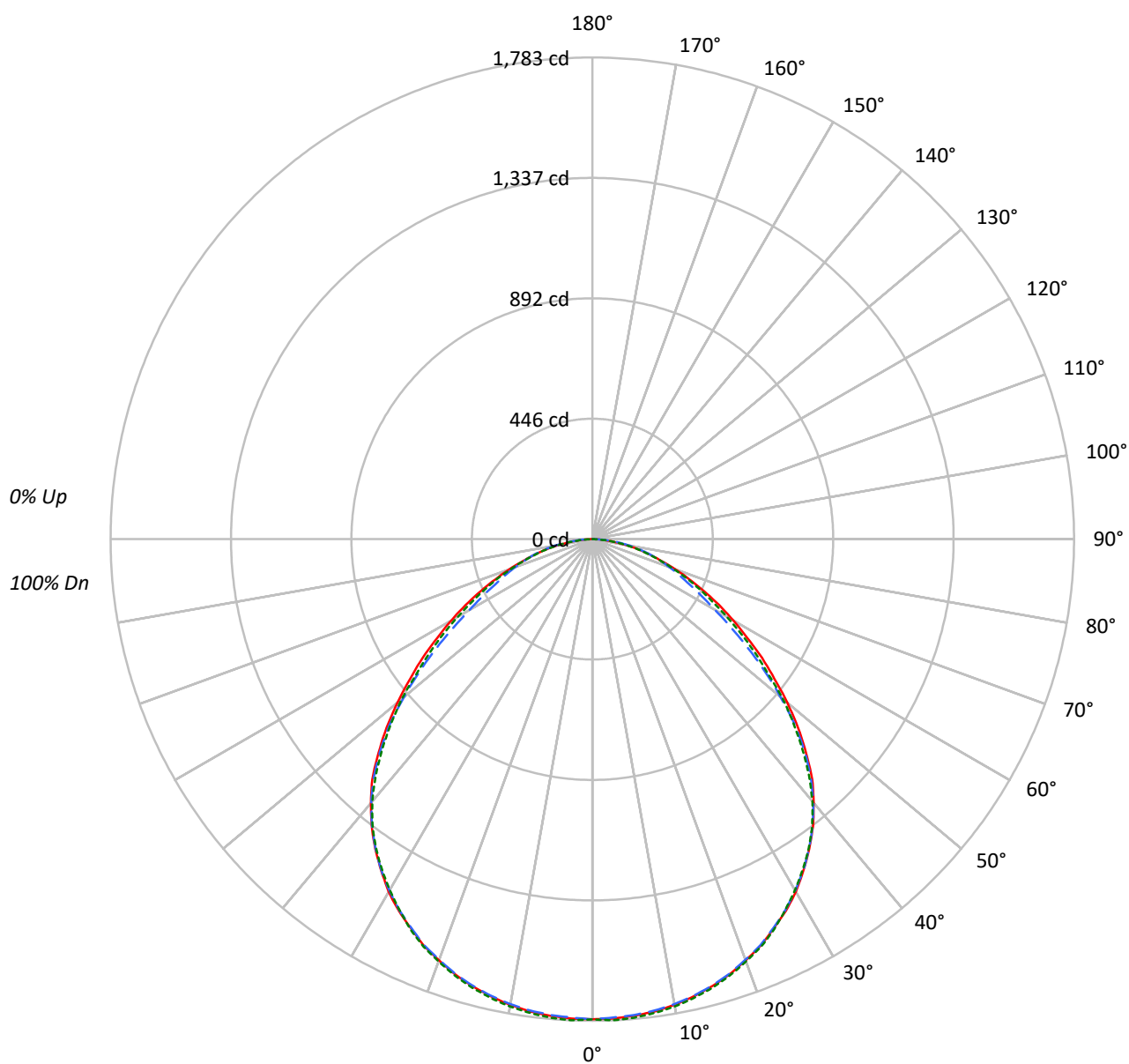
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4481.4 lumens  
Efficiency: N/A  
Efficacy: 121.1 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  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 77  | 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  | 46  | 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  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2392 | 2392 | 2392 |
| 5°  | 2392 | 2388 | 2402 |
| 10° | 2392 | 2388 | 2401 |
| 15° | 2387 | 2384 | 2395 |
| 20° | 2376 | 2372 | 2382 |
| 25° | 2360 | 2356 | 2365 |
| 30° | 2342 | 2334 | 2330 |
| 35° | 2300 | 2297 | 2293 |
| 40° | 2239 | 2236 | 2225 |
| 45° | 2129 | 2113 | 2092 |
| 50° | 1971 | 1905 | 1926 |
| 55° | 1799 | 1653 | 1727 |
| 60° | 1622 | 1410 | 1547 |
| 65° | 1450 | 1261 | 1391 |
| 70° | 1286 | 1193 | 1251 |
| 75° | 1137 | 1157 | 1115 |
| 80° | 981  | 1104 | 976  |
| 85° | 735  | 874  | 735  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2134 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 168.6  | 3.8       |
| 10°-20°   | 483.9  | 10.8      |
| 20°-30°   | 732.7  | 16.3      |
| 30°-40°   | 873.5  | 19.5      |
| 40°-50°   | 853.5  | 19.0      |
| 50°-60°   | 652.6  | 14.6      |
| 60°-70°   | 419.0  | 9.4       |
| 70°-80°   | 233.1  | 5.2       |
| 80°-90°   | 64.4   | 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°    | 1385.2 | 30.9      |
| 0°-40°    | 2258.7 | 50.4      |
| 0°-60°    | 3764.9 | 84.0      |
| 0°-90°    | 4481.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4481.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1778 | 1778  | 1778 | 1778  | 1778 |      |
| 5°  | 1771 | 1772  | 1768 | 1776  | 1778 | 168  |
| 15° | 1713 | 1715  | 1712 | 1717  | 1719 | 484  |
| 25° | 1590 | 1591  | 1587 | 1592  | 1593 | 733  |
| 35° | 1400 | 1401  | 1399 | 1398  | 1396 | 875  |
| 45° | 1119 | 1122  | 1111 | 1108  | 1099 | 861  |
| 55° | 767  | 740   | 704  | 713   | 736  | 685  |
| 65° | 455  | 420   | 396  | 409   | 437  | 454  |
| 75° | 219  | 221   | 222  | 219   | 214  | 234  |
| 85° | 48   | 56    | 57   | 55    | 48   | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1777.5 | 1777.5 | 1777.5 | 1777.5 | 1777.5 |
| 2.5°  | 1776.4 | 1777.1 | 1772.5 | 1780.1 | 1782.6 |
| 5°    | 1771.3 | 1772.5 | 1768.1 | 1776.4 | 1778.2 |
| 7.5°  | 1763.7 | 1764.8 | 1760.4 | 1768.8 | 1769.5 |
| 10°   | 1751.0 | 1751.7 | 1747.7 | 1756.1 | 1757.2 |
| 12.5° | 1733.9 | 1735.7 | 1731.3 | 1739.0 | 1739.4 |
| 15°   | 1713.3 | 1714.7 | 1711.5 | 1717.2 | 1719.1 |
| 17.5° | 1689.3 | 1690.0 | 1686.8 | 1693.0 | 1693.7 |
| 20°   | 1659.3 | 1659.3 | 1656.7 | 1663.9 | 1663.9 |
| 22.5° | 1628.8 | 1626.9 | 1626.2 | 1628.8 | 1632.7 |
| 25°   | 1589.5 | 1591.4 | 1587.0 | 1592.0 | 1593.2 |
| 27.5° | 1551.4 | 1551.4 | 1547.5 | 1550.0 | 1546.8 |
| 30°   | 1507.5 | 1505.0 | 1502.4 | 1502.9 | 1499.9 |
| 32.5° | 1454.6 | 1454.6 | 1453.4 | 1453.4 | 1449.5 |
| 35°   | 1400.1 | 1401.2 | 1398.7 | 1398.0 | 1396.2 |
| 37.5° | 1341.4 | 1343.5 | 1338.9 | 1337.7 | 1336.3 |
| 40°   | 1274.7 | 1274.7 | 1272.8 | 1270.3 | 1267.0 |
| 42.5° | 1205.4 | 1205.4 | 1197.3 | 1190.8 | 1186.4 |
| 45°   | 1119.0 | 1121.5 | 1110.6 | 1108.1 | 1099.3 |
| 47.5° | 1033.0 | 1031.2 | 1016.6 | 1014.8 | 1009.7 |
| 50°   | 941.6  | 930.7  | 909.9  | 915.4  | 920.1  |
| 52.5° | 850.1  | 836.7  | 806.2  | 812.4  | 820.0  |
| 55°   | 766.7  | 740.1  | 704.5  | 713.3  | 736.2  |
| 57.5° | 679.6  | 644.0  | 608.5  | 625.1  | 653.5  |
| 60°   | 602.7  | 562.7  | 523.9  | 541.7  | 574.7  |
| 62.5° | 529.0  | 486.5  | 455.3  | 472.4  | 500.3  |
| 65°   | 455.3  | 420.2  | 396.2  | 409.3  | 436.8  |
| 67.5° | 387.8  | 364.3  | 347.9  | 354.1  | 376.3  |
| 70°   | 326.9  | 312.1  | 303.3  | 305.1  | 317.9  |
| 72.5° | 268.9  | 265.2  | 262.0  | 262.0  | 263.1  |
| 75°   | 218.8  | 220.6  | 222.5  | 219.4  | 214.4  |
| 77.5° | 172.3  | 178.6  | 183.2  | 176.7  | 170.5  |
| 80°   | 126.6  | 136.8  | 142.5  | 135.4  | 125.9  |
| 82.5° | 86.4   | 97.9   | 99.8   | 95.4   | 84.5   |
| 85°   | 47.6   | 55.9   | 56.6   | 54.7   | 47.6   |
| 87.5° | 17.8   | 21.0   | 22.9   | 21.0   | 18.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)