

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: P1050798

Luminaire Tested: 24PTR-40-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-40-PLG-L840-UNV-STD-W  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS  
  
Light Source:  
Ballast/Driver: -

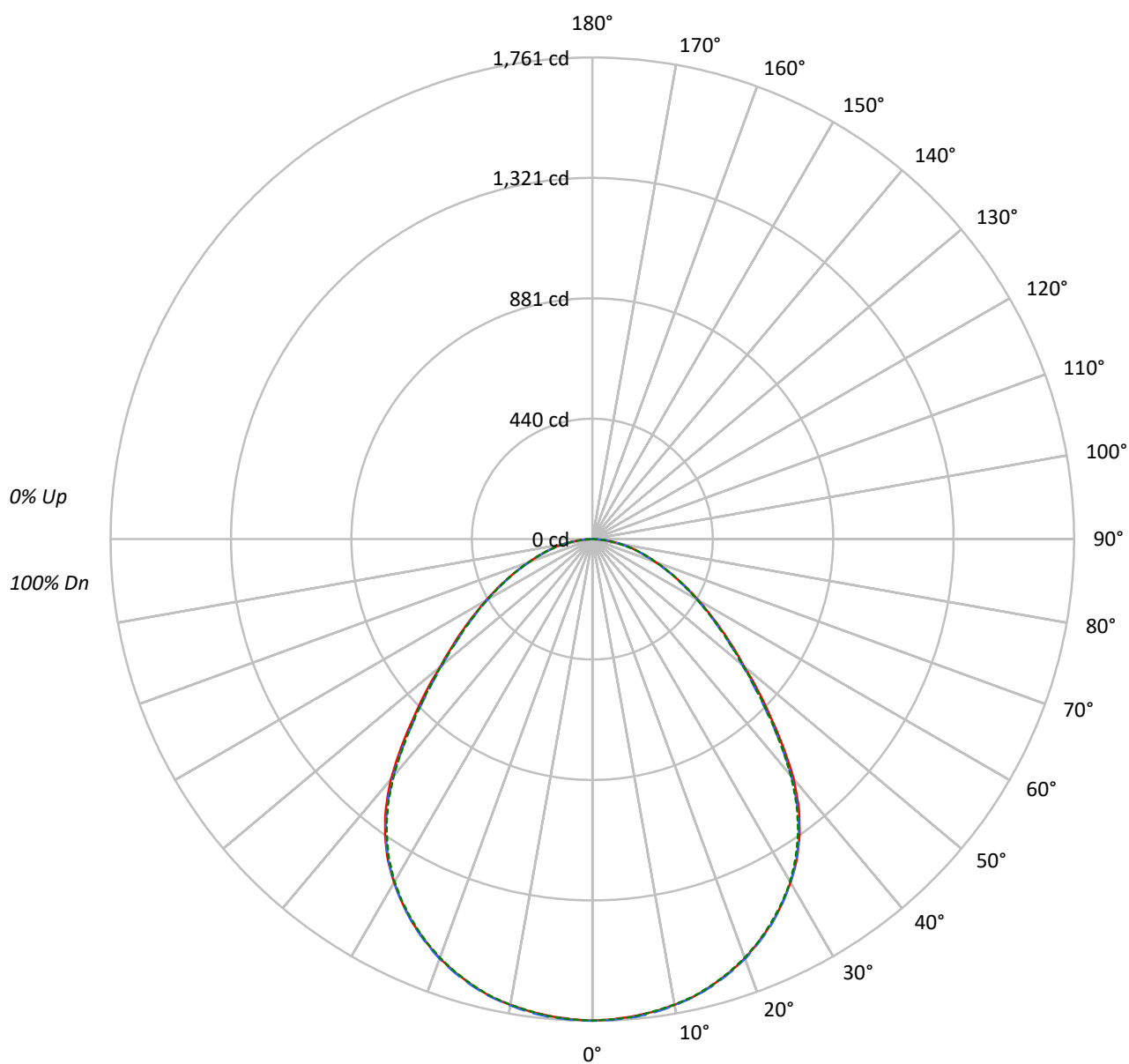
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3967.4 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |
| 4   | 86  | 75  | 67  | 60  | 84  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  |    |    |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 49  |    |    |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 58  | 51  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |    |    |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 40  | 35  | 31  | 29  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2369 | 2369 | 2369 |
| 5°  | 2365 | 2370 | 2366 |
| 10° | 2363 | 2365 | 2361 |
| 15° | 2353 | 2357 | 2352 |
| 20° | 2335 | 2339 | 2331 |
| 25° | 2302 | 2304 | 2297 |
| 30° | 2252 | 2252 | 2246 |
| 35° | 2170 | 2163 | 2153 |
| 40° | 2011 | 1989 | 1982 |
| 45° | 1757 | 1729 | 1736 |
| 50° | 1517 | 1499 | 1507 |
| 55° | 1348 | 1328 | 1331 |
| 60° | 1207 | 1190 | 1190 |
| 65° | 1082 | 1074 | 1078 |
| 70° | 973  | 963  | 973  |
| 75° | 903  | 890  | 903  |
| 80° | 842  | 833  | 804  |
| 85° | 713  | 713  | 636  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1757 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.7  | 4.2       |
| 10°-20°   | 477.0  | 12.0      |
| 20°-30°   | 713.7  | 18.0      |
| 30°-40°   | 817.7  | 20.6      |
| 40°-50°   | 707.2  | 17.8      |
| 50°-60°   | 511.8  | 12.9      |
| 60°-70°   | 337.1  | 8.5       |
| 70°-80°   | 183.5  | 4.6       |
| 80°-90°   | 52.6   | 1.3       |
| 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°    | 1357.4 | 34.2      |
| 0°-40°    | 2175.1 | 54.8      |
| 0°-60°    | 3394.2 | 85.6      |
| 0°-90°    | 3967.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3967.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1761 | 1761  | 1761 | 1761  | 1761 |      |
| 5°  | 1751 | 1754  | 1754 | 1754  | 1752 | 166  |
| 15° | 1690 | 1691  | 1692 | 1694  | 1688 | 477  |
| 25° | 1551 | 1551  | 1552 | 1553  | 1547 | 713  |
| 35° | 1321 | 1320  | 1317 | 1316  | 1311 | 821  |
| 45° | 924  | 921   | 908  | 907   | 912  | 715  |
| 55° | 575  | 572   | 566  | 562   | 567  | 517  |
| 65° | 340  | 342   | 337  | 335   | 339  | 339  |
| 75° | 174  | 174   | 171  | 171   | 174  | 185  |
| 85° | 46   | 46    | 46   | 48    | 41   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1760.7 | 1760.7 | 1760.7 | 1760.7 | 1760.7 |
| 2.5°  | 1757.0 | 1760.7 | 1759.5 | 1760.7 | 1757.0 |
| 5°    | 1750.7 | 1754.5 | 1754.5 | 1754.5 | 1752.0 |
| 7.5°  | 1742.0 | 1744.5 | 1745.7 | 1747.0 | 1740.7 |
| 10°   | 1729.5 | 1732.0 | 1730.7 | 1733.2 | 1728.2 |
| 12.5° | 1713.2 | 1713.2 | 1714.5 | 1717.0 | 1712.0 |
| 15°   | 1689.5 | 1690.8 | 1692.0 | 1694.5 | 1688.3 |
| 17.5° | 1662.0 | 1663.3 | 1664.5 | 1665.8 | 1660.8 |
| 20°   | 1630.8 | 1630.8 | 1633.3 | 1634.5 | 1628.3 |
| 22.5° | 1592.0 | 1592.0 | 1594.5 | 1598.3 | 1590.8 |
| 25°   | 1550.8 | 1550.8 | 1552.0 | 1553.3 | 1547.0 |
| 27.5° | 1502.1 | 1502.1 | 1503.3 | 1507.1 | 1499.6 |
| 30°   | 1449.6 | 1448.3 | 1449.6 | 1450.8 | 1445.8 |
| 32.5° | 1390.8 | 1389.6 | 1388.3 | 1389.6 | 1383.3 |
| 35°   | 1320.9 | 1319.6 | 1317.1 | 1315.9 | 1310.9 |
| 37.5° | 1239.6 | 1237.1 | 1232.1 | 1232.1 | 1227.1 |
| 40°   | 1144.7 | 1138.4 | 1132.2 | 1129.7 | 1128.4 |
| 42.5° | 1034.7 | 1029.7 | 1020.9 | 1019.7 | 1019.7 |
| 45°   | 923.5  | 921.0  | 908.5  | 907.2  | 912.2  |
| 47.5° | 823.5  | 817.3  | 806.0  | 803.5  | 811.0  |
| 50°   | 724.8  | 726.0  | 716.0  | 712.3  | 719.8  |
| 52.5° | 647.3  | 644.8  | 636.1  | 633.6  | 639.8  |
| 55°   | 574.8  | 572.3  | 566.1  | 562.3  | 567.3  |
| 57.5° | 508.6  | 507.4  | 501.1  | 499.9  | 502.4  |
| 60°   | 448.6  | 447.4  | 442.4  | 441.1  | 442.4  |
| 62.5° | 392.4  | 392.4  | 387.4  | 384.9  | 388.6  |
| 65°   | 339.9  | 342.4  | 337.4  | 334.9  | 338.7  |
| 67.5° | 292.4  | 294.9  | 289.9  | 287.4  | 292.4  |
| 70°   | 247.4  | 249.9  | 244.9  | 242.4  | 247.4  |
| 72.5° | 208.7  | 209.9  | 206.2  | 204.9  | 211.2  |
| 75°   | 173.7  | 173.7  | 171.2  | 171.2  | 173.7  |
| 77.5° | 141.2  | 140.0  | 138.7  | 138.7  | 136.2  |
| 80°   | 108.7  | 107.5  | 107.5  | 107.5  | 103.7  |
| 82.5° | 77.5   | 75.0   | 76.2   | 77.5   | 71.2   |
| 85°   | 46.2   | 46.2   | 46.2   | 47.5   | 41.2   |
| 87.5° | 18.7   | 18.7   | 17.5   | 18.7   | 16.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)