

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: P1050541

Luminaire Tested: 24PTR-90-L940-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050541  
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-90-L940-UNV-STD-W  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

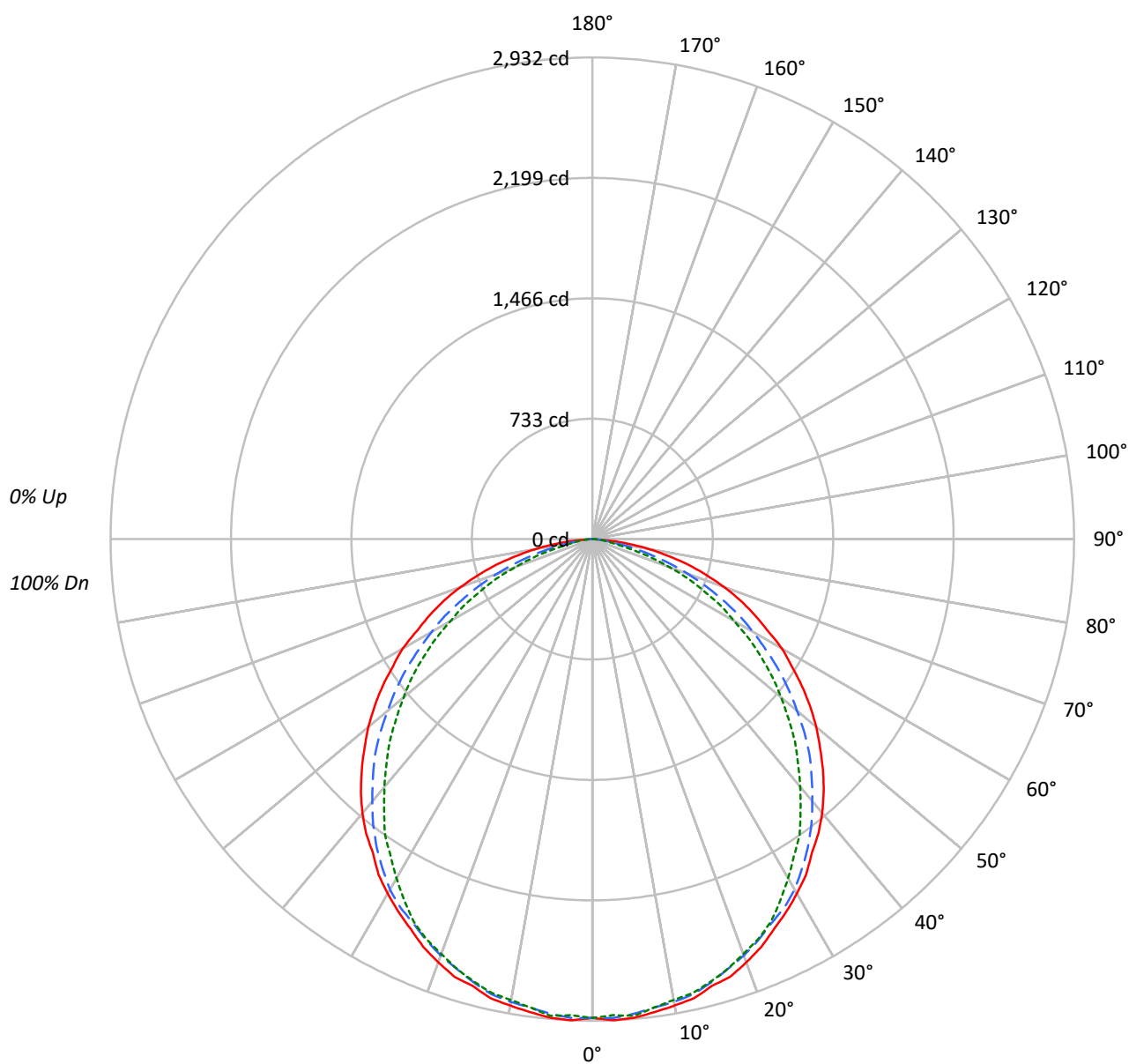
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7762.8 lumens  
Efficiency: N/A  
Efficacy: 102.1 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): 76  
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 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 54  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 33  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 30  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 27  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3921 | 3921 | 3921 |
| 5°  | 3950 | 3917 | 3934 |
| 10° | 3939 | 3908 | 3892 |
| 15° | 3922 | 3890 | 3883 |
| 20° | 3924 | 3862 | 3847 |
| 25° | 3886 | 3829 | 3816 |
| 30° | 3870 | 3827 | 3703 |
| 35° | 3826 | 3758 | 3612 |
| 40° | 3823 | 3658 | 3457 |
| 45° | 3775 | 3564 | 3319 |
| 50° | 3724 | 3404 | 3139 |
| 55° | 3652 | 3245 | 2948 |
| 60° | 3587 | 3036 | 2676 |
| 65° | 3465 | 2785 | 2393 |
| 70° | 3353 | 2424 | 1953 |
| 75° | 3149 | 1913 | 1344 |
| 80° | 2731 | 1157 | 807  |
| 85° | 1822 | 831  | 777  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3775 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 276.2  | 3.6       |
| 10°-20°   | 790.5  | 10.2      |
| 20°-30°   | 1194.1 | 15.4      |
| 30°-40°   | 1419.7 | 18.3      |
| 40°-50°   | 1439.9 | 18.5      |
| 50°-60°   | 1250.3 | 16.1      |
| 60°-70°   | 887.6  | 11.4      |
| 70°-80°   | 424.2  | 5.5       |
| 80°-90°   | 80.4   | 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°    | 2260.8 | 29.1      |
| 0°-40°    | 3680.5 | 47.4      |
| 0°-60°    | 6370.7 | 82.1      |
| 0°-90°    | 7762.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7762.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2914 | 2914  | 2914 | 2914  | 2914 |      |
| 5°  | 2925 | 2914  | 2900 | 2907  | 2913 | 278  |
| 15° | 2815 | 2822  | 2793 | 2789  | 2788 | 798  |
| 25° | 2618 | 2614  | 2579 | 2590  | 2571 | 1209 |
| 35° | 2329 | 2326  | 2288 | 2210  | 2199 | 1464 |
| 45° | 1984 | 1967  | 1873 | 1774  | 1744 | 1530 |
| 55° | 1557 | 1510  | 1383 | 1302  | 1257 | 1391 |
| 65° | 1088 | 1007  | 875  | 781   | 752  | 1078 |
| 75° | 606  | 495   | 368  | 292   | 259  | 635  |
| 85° | 118  | 62    | 54   | 52    | 50   | 149  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2914.3 | 2914.3 | 2914.3 | 2914.3 | 2914.3 |
| 2.5°  | 2931.7 | 2921.3 | 2917.8 | 2930.0 | 2900.5 |
| 5°    | 2924.8 | 2914.3 | 2900.5 | 2907.4 | 2912.6 |
| 7.5°  | 2903.9 | 2895.2 | 2876.2 | 2891.8 | 2876.2 |
| 10°   | 2883.1 | 2874.4 | 2860.5 | 2865.7 | 2848.4 |
| 12.5° | 2862.3 | 2841.4 | 2838.0 | 2841.4 | 2829.3 |
| 15°   | 2815.4 | 2822.3 | 2792.8 | 2789.4 | 2787.6 |
| 17.5° | 2792.8 | 2775.5 | 2744.2 | 2746.0 | 2742.5 |
| 20°   | 2740.8 | 2719.9 | 2697.4 | 2693.9 | 2687.0 |
| 22.5° | 2687.0 | 2662.7 | 2641.8 | 2652.2 | 2636.6 |
| 25°   | 2617.5 | 2614.1 | 2579.3 | 2589.8 | 2570.7 |
| 27.5° | 2556.8 | 2544.6 | 2529.0 | 2506.4 | 2478.7 |
| 30°   | 2490.8 | 2478.7 | 2463.0 | 2404.0 | 2383.2 |
| 32.5° | 2421.4 | 2407.5 | 2376.3 | 2306.8 | 2284.3 |
| 35°   | 2329.4 | 2325.9 | 2287.7 | 2209.6 | 2199.2 |
| 37.5° | 2260.0 | 2221.8 | 2190.5 | 2110.7 | 2081.2 |
| 40°   | 2176.6 | 2155.8 | 2082.9 | 2006.5 | 1968.3 |
| 42.5° | 2084.6 | 2060.3 | 1977.0 | 1895.4 | 1853.8 |
| 45°   | 1984.0 | 1966.6 | 1872.9 | 1773.9 | 1744.4 |
| 47.5° | 1879.8 | 1864.2 | 1753.1 | 1657.6 | 1619.5 |
| 50°   | 1779.2 | 1760.1 | 1626.4 | 1534.4 | 1499.7 |
| 52.5° | 1669.8 | 1638.6 | 1506.6 | 1416.4 | 1383.4 |
| 55°   | 1557.0 | 1510.1 | 1383.4 | 1301.8 | 1256.7 |
| 57.5° | 1437.2 | 1393.8 | 1253.2 | 1168.2 | 1131.7 |
| 60°   | 1333.1 | 1272.3 | 1128.2 | 1041.5 | 994.6  |
| 62.5° | 1199.4 | 1147.3 | 1010.2 | 907.8  | 885.2  |
| 65°   | 1088.3 | 1006.7 | 874.8  | 781.1  | 751.6  |
| 67.5° | 975.5  | 880.0  | 746.4  | 650.9  | 635.3  |
| 70°   | 852.3  | 753.3  | 616.2  | 522.5  | 496.4  |
| 72.5° | 727.3  | 630.1  | 496.4  | 397.5  | 381.9  |
| 75°   | 605.8  | 494.7  | 368.0  | 291.6  | 258.6  |
| 77.5° | 473.9  | 373.2  | 258.6  | 178.8  | 158.0  |
| 80°   | 352.4  | 251.7  | 149.3  | 105.9  | 104.1  |
| 82.5° | 230.9  | 145.8  | 79.8   | 81.6   | 78.1   |
| 85°   | 118.0  | 62.5   | 53.8   | 52.1   | 50.3   |
| 87.5° | 22.6   | 24.3   | 26.0   | 26.0   | 26.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)