

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: P1050838

Luminaire Tested: 24PTR-90-PLG-L935-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050838  
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-90-PLG-L935-UNV-STD-W  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LOW GLARE LENS  
  
Light Source:  
Ballast/Driver: -

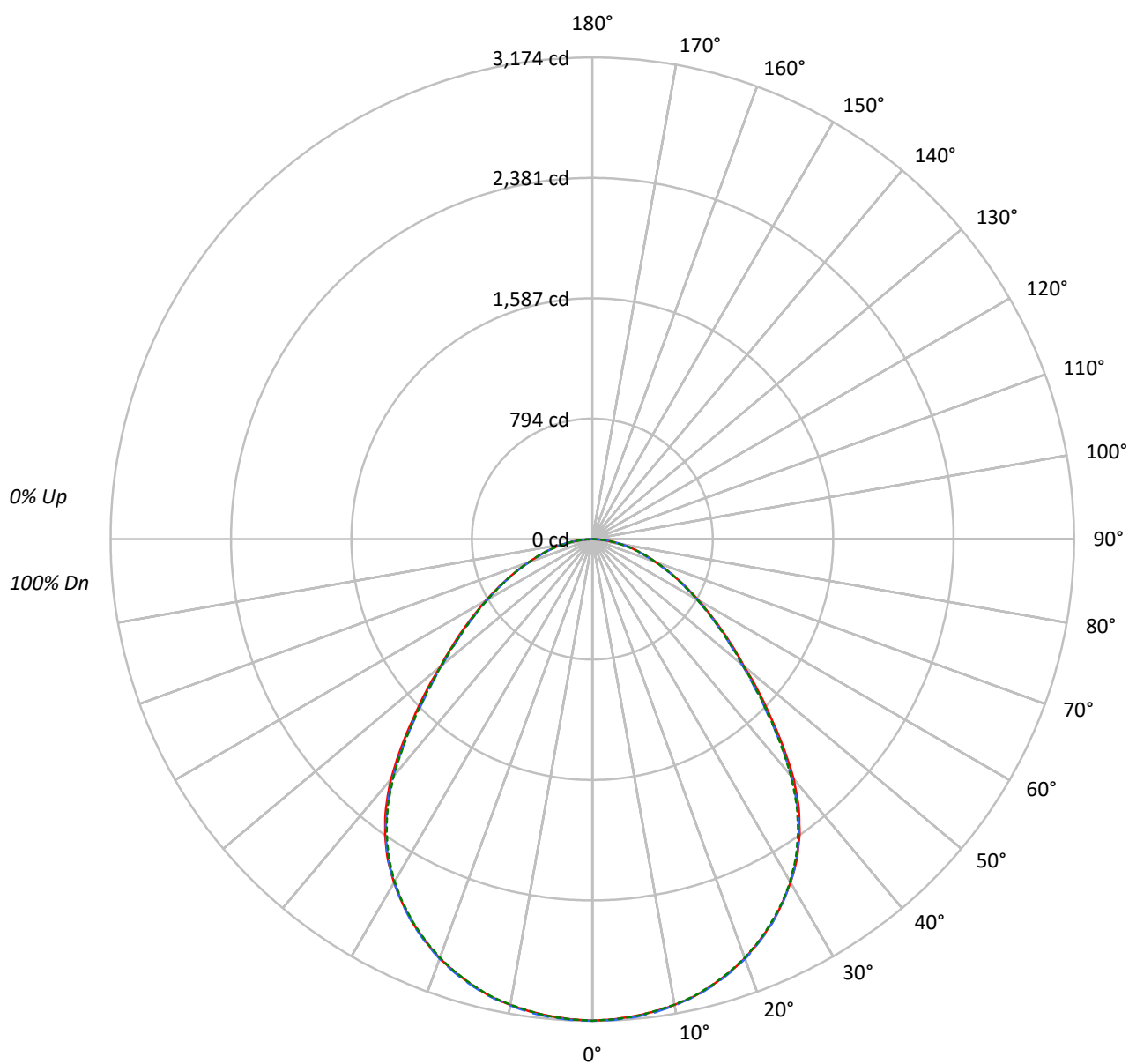
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7151.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 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): 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   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  | 84  | 86  |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  | 72  | 74  |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  | 62  | 64  |
| 4   | 86  | 75  | 67  | 60  | 84  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  | 54  | 56  |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 49  | 47  | 49  |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 58  | 51  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  | 41  | 43  |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 39  | 37  | 39  |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  | 33  | 35  |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  | 30  | 32  |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 40  | 35  | 31  | 29  | 27  | 29  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4270 | 4270 | 4270 |
| 5°  | 4262 | 4271 | 4265 |
| 10° | 4259 | 4262 | 4256 |
| 15° | 4242 | 4248 | 4239 |
| 20° | 4209 | 4215 | 4202 |
| 25° | 4150 | 4153 | 4140 |
| 30° | 4059 | 4059 | 4049 |
| 35° | 3910 | 3899 | 3881 |
| 40° | 3624 | 3584 | 3572 |
| 45° | 3167 | 3116 | 3129 |
| 50° | 2735 | 2701 | 2716 |
| 55° | 2430 | 2393 | 2399 |
| 60° | 2176 | 2146 | 2146 |
| 65° | 1950 | 1936 | 1943 |
| 70° | 1755 | 1737 | 1755 |
| 75° | 1628 | 1604 | 1628 |
| 80° | 1519 | 1501 | 1448 |
| 85° | 1286 | 1286 | 1147 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3167 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 300.5  | 4.2       |
| 10°-20°   | 859.7  | 12.0      |
| 20°-30°   | 1286.4 | 18.0      |
| 30°-40°   | 1473.9 | 20.6      |
| 40°-50°   | 1274.7 | 17.8      |
| 50°-60°   | 922.5  | 12.9      |
| 60°-70°   | 607.6  | 8.5       |
| 70°-80°   | 330.8  | 4.6       |
| 80°-90°   | 94.8   | 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°    | 2446.6 | 34.2      |
| 0°-40°    | 3920.5 | 54.8      |
| 0°-60°    | 6117.7 | 85.6      |
| 0°-90°    | 7151.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7151.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3174 | 3174  | 3174 | 3174  | 3174 |      |
| 5°  | 3156 | 3162  | 3162 | 3162  | 3158 | 300  |
| 15° | 3045 | 3047  | 3050 | 3054  | 3043 | 859  |
| 25° | 2795 | 2795  | 2797 | 2800  | 2788 | 1286 |
| 35° | 2381 | 2378  | 2374 | 2372  | 2363 | 1479 |
| 45° | 1664 | 1660  | 1638 | 1635  | 1644 | 1289 |
| 55° | 1036 | 1032  | 1020 | 1014  | 1023 | 933  |
| 65° | 613  | 617   | 608  | 604   | 610  | 612  |
| 75° | 313  | 313   | 309  | 309   | 313  | 334  |
| 85° | 83   | 83    | 83   | 86    | 74   | 96   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3173.6 | 3173.6 | 3173.6 | 3173.6 | 3173.6 |
| 2.5°  | 3166.8 | 3173.6 | 3171.3 | 3173.6 | 3166.8 |
| 5°    | 3155.6 | 3162.3 | 3162.3 | 3162.3 | 3157.8 |
| 7.5°  | 3139.8 | 3144.3 | 3146.5 | 3148.8 | 3137.5 |
| 10°   | 3117.3 | 3121.8 | 3119.5 | 3124.0 | 3115.0 |
| 12.5° | 3088.0 | 3088.0 | 3090.2 | 3094.7 | 3085.7 |
| 15°   | 3045.2 | 3047.4 | 3049.7 | 3054.2 | 3042.9 |
| 17.5° | 2995.6 | 2997.9 | 3000.1 | 3002.4 | 2993.4 |
| 20°   | 2939.3 | 2939.3 | 2943.8 | 2946.1 | 2934.8 |
| 22.5° | 2869.5 | 2869.5 | 2874.0 | 2880.8 | 2867.3 |
| 25°   | 2795.2 | 2795.2 | 2797.4 | 2799.7 | 2788.4 |
| 27.5° | 2707.3 | 2707.3 | 2709.6 | 2716.3 | 2702.8 |
| 30°   | 2612.7 | 2610.5 | 2612.7 | 2615.0 | 2606.0 |
| 32.5° | 2506.9 | 2504.6 | 2502.4 | 2504.6 | 2493.4 |
| 35°   | 2380.7 | 2378.5 | 2374.0 | 2371.7 | 2362.7 |
| 37.5° | 2234.3 | 2229.8 | 2220.8 | 2220.8 | 2211.8 |
| 40°   | 2063.2 | 2051.9 | 2040.6 | 2036.1 | 2033.9 |
| 42.5° | 1865.0 | 1855.9 | 1840.2 | 1837.9 | 1837.9 |
| 45°   | 1664.5 | 1660.0 | 1637.5 | 1635.2 | 1644.2 |
| 47.5° | 1484.3 | 1473.0 | 1452.8 | 1448.3 | 1461.8 |
| 50°   | 1306.4 | 1308.6 | 1290.6 | 1283.8 | 1297.4 |
| 52.5° | 1166.7 | 1162.2 | 1146.5 | 1141.9 | 1153.2 |
| 55°   | 1036.1 | 1031.6 | 1020.3 | 1013.6 | 1022.6 |
| 57.5° | 916.7  | 914.5  | 903.2  | 900.9  | 905.4  |
| 60°   | 808.6  | 806.3  | 797.3  | 795.1  | 797.3  |
| 62.5° | 707.2  | 707.2  | 698.2  | 693.7  | 700.5  |
| 65°   | 612.6  | 617.1  | 608.1  | 603.6  | 610.4  |
| 67.5° | 527.1  | 531.6  | 522.5  | 518.0  | 527.1  |
| 70°   | 446.0  | 450.5  | 441.5  | 437.0  | 446.0  |
| 72.5° | 376.1  | 378.4  | 371.6  | 369.4  | 380.6  |
| 75°   | 313.1  | 313.1  | 308.6  | 308.6  | 313.1  |
| 77.5° | 254.5  | 252.3  | 250.0  | 250.0  | 245.5  |
| 80°   | 196.0  | 193.7  | 193.7  | 193.7  | 186.9  |
| 82.5° | 139.6  | 135.1  | 137.4  | 139.6  | 128.4  |
| 85°   | 83.3   | 83.3   | 83.3   | 85.6   | 74.3   |
| 87.5° | 33.8   | 33.8   | 31.5   | 33.8   | 29.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)