

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: P1050717

Luminaire Tested: 24PTR-90-PL1-L835-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-90-PL1-L835-UNV-STD-W  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source:  
Ballast/Driver: -

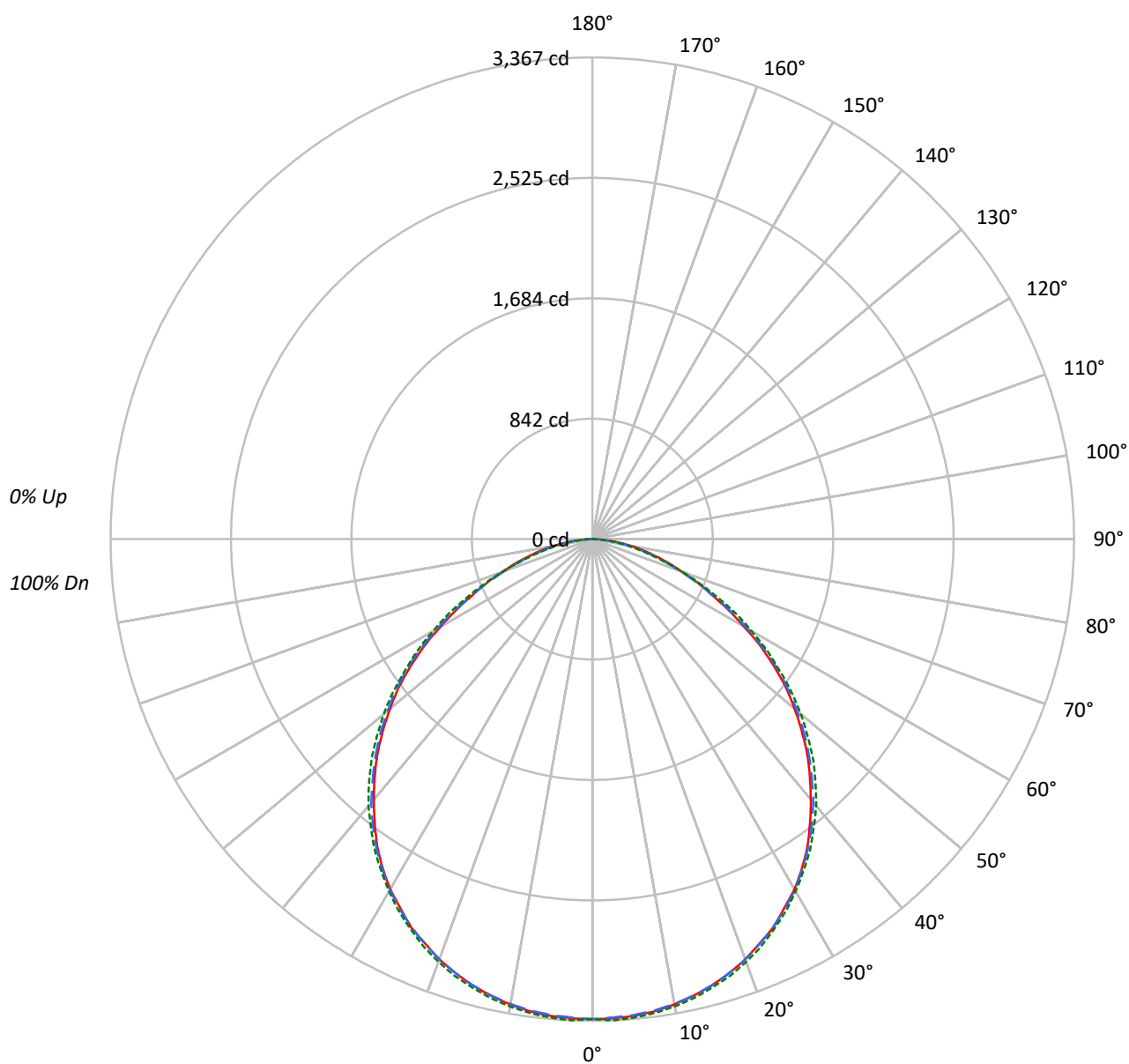
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8844.5 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 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  | 94  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 55  | 55  | 52  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 48  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 34  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 30  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 28  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4515 | 4515 | 4515 |
| 5°  | 4518 | 4510 | 4535 |
| 10° | 4513 | 4508 | 4533 |
| 15° | 4499 | 4497 | 4520 |
| 20° | 4476 | 4476 | 4502 |
| 25° | 4446 | 4440 | 4464 |
| 30° | 4390 | 4396 | 4417 |
| 35° | 4306 | 4323 | 4357 |
| 40° | 4173 | 4221 | 4275 |
| 45° | 4042 | 4076 | 4154 |
| 50° | 3864 | 3906 | 3984 |
| 55° | 3640 | 3698 | 3742 |
| 60° | 3301 | 3372 | 3456 |
| 65° | 2932 | 2964 | 3083 |
| 70° | 2621 | 2568 | 2632 |
| 75° | 2365 | 2229 | 2184 |
| 80° | 2149 | 1995 | 1771 |
| 85° | 1820 | 1653 | 1422 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4154 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 318.3  | 3.6       |
| 10°-20°   | 912.8  | 10.3      |
| 20°-30°   | 1380.8 | 15.6      |
| 30°-40°   | 1645.9 | 18.6      |
| 40°-50°   | 1655.0 | 18.7      |
| 50°-60°   | 1404.6 | 15.9      |
| 60°-70°   | 935.2  | 10.6      |
| 70°-80°   | 467.0  | 5.3       |
| 80°-90°   | 124.9  | 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°    | 2611.9 | 29.5      |
| 0°-40°    | 4257.8 | 48.1      |
| 0°-60°    | 7317.4 | 82.7      |
| 0°-90°    | 8844.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8844.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3355 | 3355  | 3355 | 3355  | 3355 |      |
| 5°  | 3345 | 3346  | 3339 | 3354  | 3358 | 318  |
| 15° | 3230 | 3233  | 3228 | 3242  | 3245 | 911  |
| 25° | 2995 | 2995  | 2991 | 3005  | 3007 | 1377 |
| 35° | 2622 | 2624  | 2632 | 2650  | 2653 | 1635 |
| 45° | 2124 | 2128  | 2142 | 2170  | 2183 | 1634 |
| 55° | 1552 | 1562  | 1576 | 1591  | 1595 | 1383 |
| 65° | 921  | 929   | 931  | 945   | 968  | 923  |
| 75° | 455  | 448   | 429  | 419   | 420  | 489  |
| 85° | 118  | 116   | 107  | 101   | 92   | 136  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3355.3 | 3355.3 | 3355.3 | 3355.3 | 3355.3 |
| 2.5°  | 3352.6 | 3355.3 | 3346.3 | 3362.5 | 3366.6 |
| 5°    | 3345.4 | 3346.3 | 3339.1 | 3354.0 | 3357.6 |
| 7.5°  | 3329.1 | 3330.5 | 3322.8 | 3339.1 | 3341.3 |
| 10°   | 3302.9 | 3305.6 | 3299.3 | 3314.2 | 3317.8 |
| 12.5° | 3269.5 | 3273.1 | 3266.8 | 3283.0 | 3285.8 |
| 15°   | 3229.7 | 3233.4 | 3228.4 | 3241.9 | 3244.6 |
| 17.5° | 3181.0 | 3183.7 | 3181.0 | 3193.6 | 3200.8 |
| 20°   | 3126.3 | 3126.3 | 3126.3 | 3137.6 | 3143.9 |
| 22.5° | 3058.1 | 3064.4 | 3061.7 | 3076.6 | 3082.9 |
| 25°   | 2994.8 | 2994.8 | 2990.8 | 3004.8 | 3007.0 |
| 27.5° | 2906.3 | 2916.3 | 2915.3 | 2927.5 | 2930.3 |
| 30°   | 2825.5 | 2828.2 | 2829.5 | 2838.1 | 2843.1 |
| 32.5° | 2727.4 | 2729.7 | 2733.8 | 2746.0 | 2747.3 |
| 35°   | 2621.7 | 2624.4 | 2631.7 | 2650.2 | 2652.9 |
| 37.5° | 2498.9 | 2512.4 | 2518.7 | 2538.6 | 2540.9 |
| 40°   | 2375.6 | 2384.1 | 2403.1 | 2423.9 | 2433.8 |
| 42.5° | 2250.0 | 2259.9 | 2271.2 | 2299.7 | 2308.7 |
| 45°   | 2124.4 | 2128.0 | 2142.0 | 2170.5 | 2183.1 |
| 47.5° | 1985.3 | 1996.6 | 2008.8 | 2033.6 | 2041.3 |
| 50°   | 1846.1 | 1858.3 | 1866.0 | 1888.2 | 1903.1 |
| 52.5° | 1705.7 | 1717.0 | 1725.5 | 1739.1 | 1754.0 |
| 55°   | 1551.6 | 1562.5 | 1576.5 | 1591.4 | 1595.0 |
| 57.5° | 1394.9 | 1407.1 | 1416.1 | 1431.9 | 1448.2 |
| 60°   | 1226.8 | 1240.9 | 1253.0 | 1268.0 | 1284.2 |
| 62.5° | 1070.6 | 1076.4 | 1089.1 | 1113.9 | 1137.4 |
| 65°   | 921.0  | 928.7  | 931.0  | 945.0  | 968.5  |
| 67.5° | 796.8  | 796.8  | 785.5  | 790.5  | 816.7  |
| 70°   | 666.3  | 661.3  | 652.7  | 647.8  | 669.0  |
| 72.5° | 560.6  | 554.3  | 535.7  | 527.1  | 538.4  |
| 75°   | 454.9  | 448.5  | 428.7  | 418.7  | 420.1  |
| 77.5° | 365.4  | 355.5  | 339.2  | 322.1  | 318.5  |
| 80°   | 277.4  | 273.3  | 257.5  | 241.2  | 228.6  |
| 82.5° | 196.5  | 187.9  | 178.9  | 168.9  | 159.0  |
| 85°   | 117.9  | 115.6  | 107.1  | 100.7  | 92.1   |
| 87.5° | 48.3   | 48.3   | 46.1   | 43.4   | 41.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)