

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: P1050726

Luminaire Tested: 24PTR-80-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050726  
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-80-PL1-L840-UNV-STD-W  
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source:  
Ballast/Driver: -

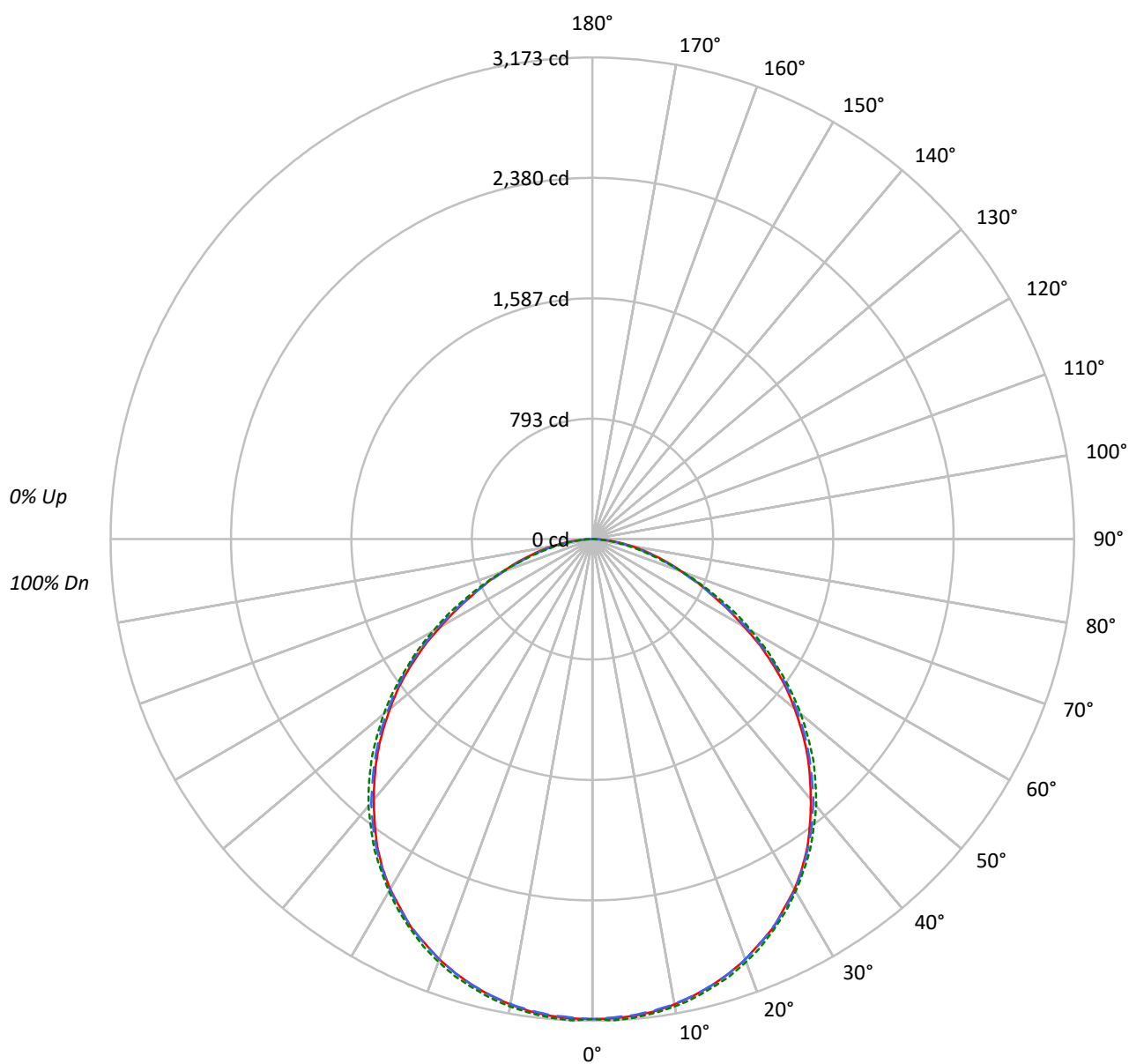
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8335.2 lumens  
Efficiency: N/A  
Efficacy: 122.6 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): 68  
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°  | 4255 | 4255 | 4255 |
| 5°  | 4258 | 4250 | 4274 |
| 10° | 4253 | 4248 | 4272 |
| 15° | 4240 | 4238 | 4259 |
| 20° | 4219 | 4219 | 4242 |
| 25° | 4190 | 4184 | 4207 |
| 30° | 4137 | 4143 | 4163 |
| 35° | 4058 | 4074 | 4107 |
| 40° | 3932 | 3978 | 4029 |
| 45° | 3810 | 3841 | 3915 |
| 50° | 3642 | 3681 | 3754 |
| 55° | 3430 | 3485 | 3526 |
| 60° | 3111 | 3178 | 3257 |
| 65° | 2763 | 2793 | 2906 |
| 70° | 2470 | 2420 | 2480 |
| 75° | 2229 | 2100 | 2058 |
| 80° | 2025 | 1881 | 1669 |
| 85° | 1715 | 1558 | 1340 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3915 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 299.9  | 3.6       |
| 10°-20°   | 860.3  | 10.3      |
| 20°-30°   | 1301.3 | 15.6      |
| 30°-40°   | 1551.1 | 18.6      |
| 40°-50°   | 1559.7 | 18.7      |
| 50°-60°   | 1323.7 | 15.9      |
| 60°-70°   | 881.4  | 10.6      |
| 70°-80°   | 440.1  | 5.3       |
| 80°-90°   | 117.7  | 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°    | 2461.5 | 29.5      |
| 0°-40°    | 4012.6 | 48.1      |
| 0°-60°    | 6896.1 | 82.7      |
| 0°-90°    | 8335.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8335.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3162 | 3162  | 3162 | 3162  | 3162 |      |
| 5°  | 3153 | 3154  | 3147 | 3161  | 3164 | 300  |
| 15° | 3044 | 3047  | 3042 | 3055  | 3058 | 859  |
| 25° | 2822 | 2822  | 2819 | 2832  | 2834 | 1298 |
| 35° | 2471 | 2473  | 2480 | 2498  | 2500 | 1541 |
| 45° | 2002 | 2006  | 2019 | 2046  | 2057 | 1540 |
| 55° | 1462 | 1472  | 1486 | 1500  | 1503 | 1303 |
| 65° | 868  | 875   | 877  | 891   | 913  | 870  |
| 75° | 429  | 423   | 404  | 395   | 396  | 460  |
| 85° | 111  | 109   | 101  | 95    | 87   | 129  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3162.1 | 3162.1 | 3162.1 | 3162.1 | 3162.1 |
| 2.5°  | 3159.6 | 3162.1 | 3153.6 | 3168.9 | 3172.8 |
| 5°    | 3152.8 | 3153.6 | 3146.8 | 3160.8 | 3164.3 |
| 7.5°  | 3137.4 | 3138.7 | 3131.5 | 3146.8 | 3148.9 |
| 10°   | 3112.7 | 3115.3 | 3109.3 | 3123.4 | 3126.8 |
| 12.5° | 3081.2 | 3084.6 | 3078.7 | 3094.0 | 3096.6 |
| 15°   | 3043.8 | 3047.2 | 3042.5 | 3055.3 | 3057.8 |
| 17.5° | 2997.8 | 3000.4 | 2997.8 | 3009.7 | 3016.5 |
| 20°   | 2946.3 | 2946.3 | 2946.3 | 2956.9 | 2962.9 |
| 22.5° | 2882.0 | 2888.0 | 2885.4 | 2899.5 | 2905.4 |
| 25°   | 2822.4 | 2822.4 | 2818.6 | 2831.8 | 2833.9 |
| 27.5° | 2739.0 | 2748.3 | 2747.5 | 2759.0 | 2761.5 |
| 30°   | 2662.8 | 2665.3 | 2666.6 | 2674.7 | 2679.4 |
| 32.5° | 2570.4 | 2572.5 | 2576.4 | 2587.8 | 2589.1 |
| 35°   | 2470.8 | 2473.3 | 2480.1 | 2497.6 | 2500.2 |
| 37.5° | 2355.0 | 2367.8 | 2373.7 | 2392.5 | 2394.6 |
| 40°   | 2238.8 | 2246.9 | 2264.7 | 2284.3 | 2293.7 |
| 42.5° | 2120.4 | 2129.8 | 2140.4 | 2167.3 | 2175.8 |
| 45°   | 2002.1 | 2005.5 | 2018.7 | 2045.5 | 2057.4 |
| 47.5° | 1871.0 | 1881.6 | 1893.1 | 1916.5 | 1923.8 |
| 50°   | 1739.8 | 1751.3 | 1758.6 | 1779.4 | 1793.5 |
| 52.5° | 1607.5 | 1618.1 | 1626.2 | 1639.0 | 1653.0 |
| 55°   | 1462.3 | 1472.5 | 1485.7 | 1499.8 | 1503.2 |
| 57.5° | 1314.6 | 1326.1 | 1334.6 | 1349.5 | 1364.8 |
| 60°   | 1156.2 | 1169.4 | 1180.9 | 1194.9 | 1210.3 |
| 62.5° | 1008.9 | 1014.5 | 1026.4 | 1049.8 | 1071.9 |
| 65°   | 868.0  | 875.2  | 877.4  | 890.6  | 912.7  |
| 67.5° | 750.9  | 750.9  | 740.3  | 745.0  | 769.7  |
| 70°   | 627.9  | 623.2  | 615.1  | 610.5  | 630.5  |
| 72.5° | 528.3  | 522.3  | 504.9  | 496.8  | 507.4  |
| 75°   | 428.7  | 422.7  | 404.0  | 394.6  | 395.9  |
| 77.5° | 344.4  | 335.0  | 319.7  | 303.5  | 300.1  |
| 80°   | 261.4  | 257.6  | 242.7  | 227.3  | 215.4  |
| 82.5° | 185.2  | 177.1  | 168.6  | 159.2  | 149.8  |
| 85°   | 111.1  | 109.0  | 100.9  | 94.9   | 86.8   |
| 87.5° | 45.6   | 45.6   | 43.4   | 40.9   | 38.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)