

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: P1050882

Luminaire Tested: 24PTR-90-PP3-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-90-PP3-L840-UNV-STD-W  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

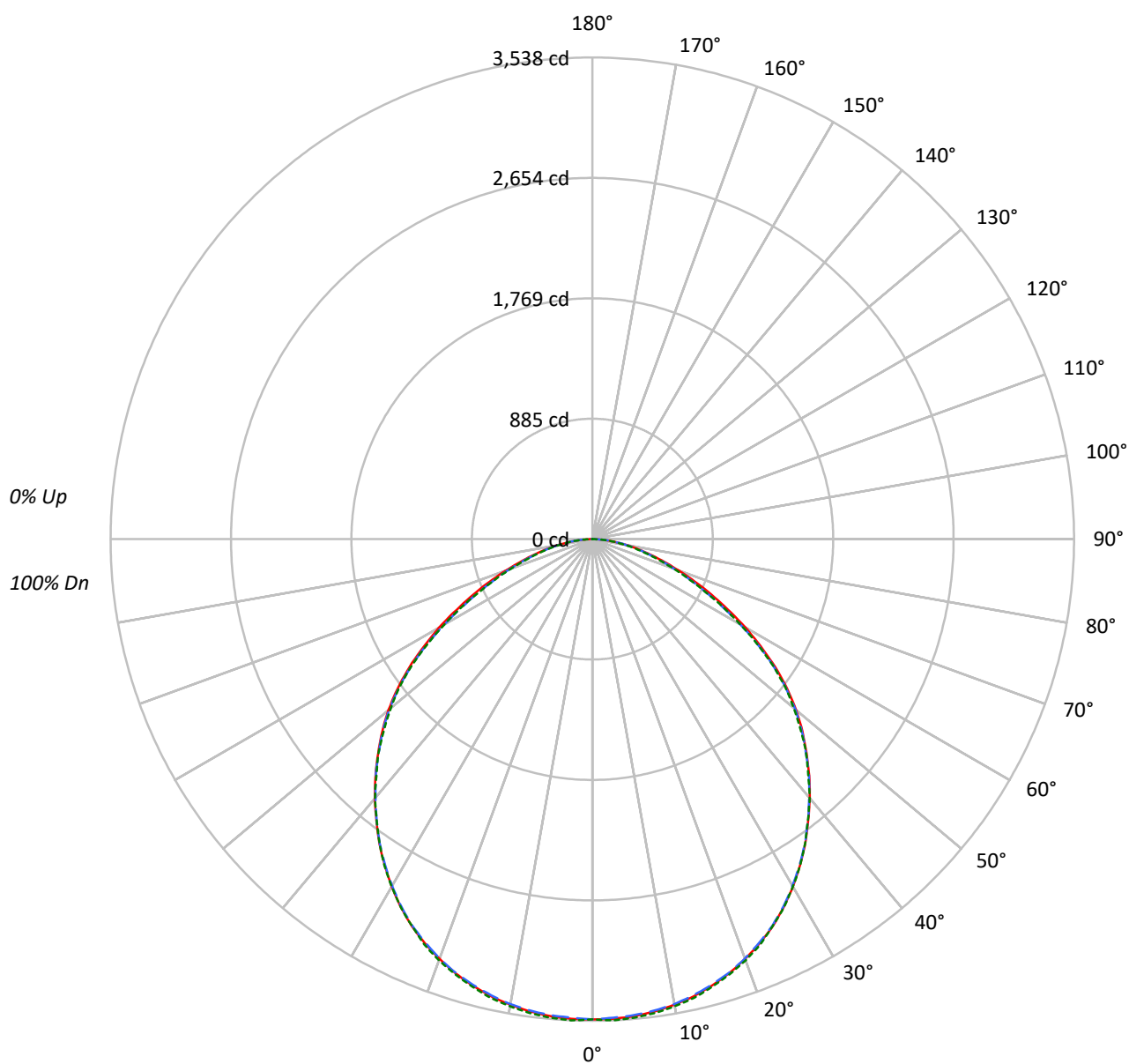
Lumens per Lamp: N/A  
Luminaire Lumens: 9116.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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 | 100 |    |    |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 52  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4747 | 4747 | 4747 |
| 5°  | 4752 | 4741 | 4767 |
| 10° | 4745 | 4738 | 4761 |
| 15° | 4729 | 4720 | 4742 |
| 20° | 4698 | 4694 | 4714 |
| 25° | 4656 | 4649 | 4654 |
| 30° | 4578 | 4568 | 4578 |
| 35° | 4478 | 4472 | 4476 |
| 40° | 4364 | 4350 | 4361 |
| 45° | 4232 | 4220 | 4225 |
| 50° | 4091 | 4072 | 4042 |
| 55° | 3851 | 3806 | 3794 |
| 60° | 3495 | 3377 | 3384 |
| 65° | 3070 | 2916 | 2911 |
| 70° | 2654 | 2533 | 2504 |
| 75° | 2296 | 2211 | 2163 |
| 80° | 2034 | 2005 | 1915 |
| 85° | 1681 | 1738 | 1638 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4247 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 334.6  | 3.7       |
| 10°-20°   | 958.6  | 10.5      |
| 20°-30°   | 1443.1 | 15.8      |
| 30°-40°   | 1703.3 | 18.7      |
| 40°-50°   | 1713.0 | 18.8      |
| 50°-60°   | 1446.2 | 15.9      |
| 60°-70°   | 928.8  | 10.2      |
| 70°-80°   | 461.9  | 5.1       |
| 80°-90°   | 126.6  | 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°    | 2736.3 | 30.0      |
| 0°-40°    | 4439.6 | 48.7      |
| 0°-60°    | 7598.8 | 83.4      |
| 0°-90°    | 9116.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9116.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3528 | 3528  | 3528 | 3528  | 3528 |      |
| 5°  | 3518 | 3519  | 3510 | 3527  | 3529 | 334  |
| 15° | 3395 | 3396  | 3389 | 3404  | 3404 | 958  |
| 25° | 3136 | 3137  | 3131 | 3137  | 3135 | 1443 |
| 35° | 2726 | 2728  | 2723 | 2725  | 2725 | 1704 |
| 45° | 2224 | 2232  | 2218 | 2221  | 2221 | 1717 |
| 55° | 1642 | 1640  | 1623 | 1616  | 1618 | 1460 |
| 65° | 964  | 950   | 916  | 906   | 914  | 961  |
| 75° | 442  | 439   | 425  | 421   | 416  | 478  |
| 85° | 109  | 113   | 113  | 106   | 106  | 128  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3528.2 | 3528.2 | 3528.2 | 3528.2 | 3528.2 |
| 2.5°  | 3526.8 | 3528.2 | 3518.9 | 3535.7 | 3538.5 |
| 5°    | 3518.0 | 3518.9 | 3510.1 | 3526.8 | 3529.2 |
| 7.5°  | 3499.8 | 3501.2 | 3493.3 | 3508.7 | 3511.5 |
| 10°   | 3472.8 | 3477.0 | 3467.7 | 3482.2 | 3484.5 |
| 12.5° | 3439.8 | 3441.2 | 3431.9 | 3448.6 | 3451.4 |
| 15°   | 3395.1 | 3396.1 | 3388.6 | 3404.0 | 3404.0 |
| 17.5° | 3343.5 | 3344.9 | 3339.8 | 3352.8 | 3351.4 |
| 20°   | 3281.1 | 3284.8 | 3278.3 | 3287.2 | 3292.3 |
| 22.5° | 3213.2 | 3214.6 | 3206.7 | 3218.3 | 3223.4 |
| 25°   | 3136.4 | 3137.3 | 3131.3 | 3137.3 | 3135.0 |
| 27.5° | 3046.6 | 3048.9 | 3040.1 | 3046.6 | 3048.0 |
| 30°   | 2946.5 | 2953.1 | 2940.5 | 2945.6 | 2946.5 |
| 32.5° | 2839.1 | 2842.8 | 2833.9 | 2835.3 | 2841.8 |
| 35°   | 2726.4 | 2727.8 | 2722.7 | 2725.0 | 2725.0 |
| 37.5° | 2605.0 | 2610.1 | 2602.2 | 2605.9 | 2600.8 |
| 40°   | 2484.5 | 2479.3 | 2476.5 | 2479.3 | 2483.1 |
| 42.5° | 2357.4 | 2358.8 | 2355.1 | 2352.3 | 2346.3 |
| 45°   | 2224.3 | 2232.2 | 2217.8 | 2220.6 | 2220.6 |
| 47.5° | 2094.0 | 2095.0 | 2087.5 | 2079.6 | 2074.5 |
| 50°   | 1954.4 | 1954.4 | 1945.1 | 1939.1 | 1931.2 |
| 52.5° | 1801.8 | 1799.5 | 1789.2 | 1782.7 | 1786.4 |
| 55°   | 1641.7 | 1640.3 | 1622.6 | 1616.1 | 1617.5 |
| 57.5° | 1466.3 | 1469.1 | 1442.1 | 1435.6 | 1435.6 |
| 60°   | 1298.8 | 1285.7 | 1255.0 | 1246.2 | 1257.4 |
| 62.5° | 1122.9 | 1107.5 | 1074.5 | 1074.5 | 1083.3 |
| 65°   | 964.2  | 950.2  | 915.8  | 906.5  | 914.4  |
| 67.5° | 815.7  | 802.7  | 771.1  | 766.0  | 768.3  |
| 70°   | 674.7  | 663.6  | 644.0  | 632.4  | 636.6  |
| 72.5° | 553.3  | 543.1  | 530.0  | 521.2  | 516.1  |
| 75°   | 441.6  | 439.3  | 425.3  | 421.1  | 416.0  |
| 77.5° | 349.5  | 348.5  | 336.9  | 331.8  | 326.7  |
| 80°   | 262.5  | 261.1  | 258.7  | 250.8  | 247.1  |
| 82.5° | 187.1  | 187.1  | 185.7  | 179.2  | 175.4  |
| 85°   | 108.9  | 112.6  | 112.6  | 106.1  | 106.1  |
| 87.5° | 43.7   | 46.1   | 43.7   | 43.7   | 42.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)