

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: P1050806

Luminaire Tested: 24PTR-20-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050806  
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-20-PLG-L850-UNV-STD-W  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS  
  
Light Source:  
Ballast/Driver: -

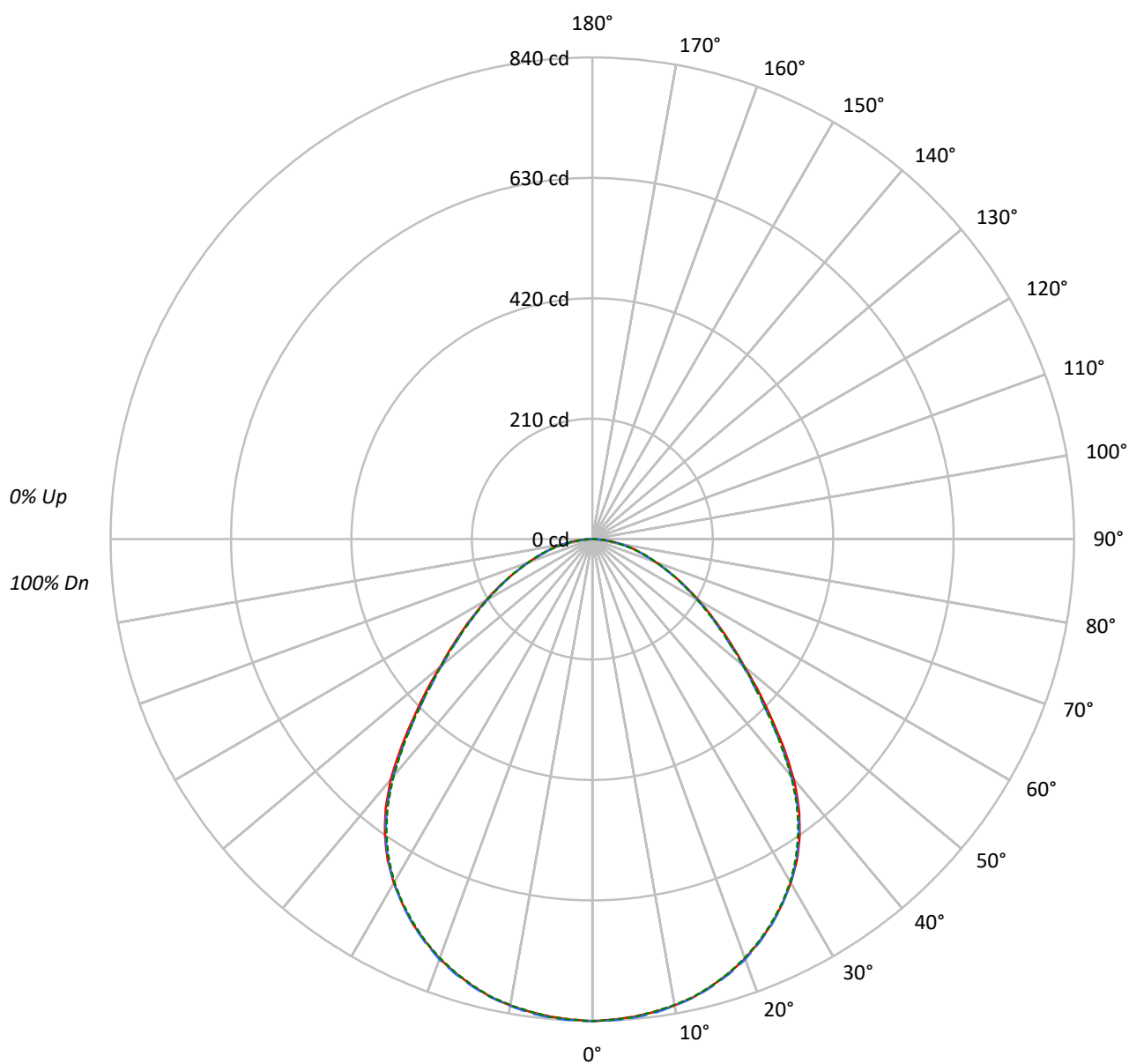
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1894.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 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): 15  
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   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |
| 4   | 86  | 75  | 67  | 60  | 84  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  |    |    |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 49  |    |    |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 58  | 51  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |    |    |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 40  | 35  | 31  | 29  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1131 | 1131 | 1131 |
| 5°  | 1129 | 1131 | 1130 |
| 10° | 1128 | 1129 | 1127 |
| 15° | 1123 | 1125 | 1123 |
| 20° | 1115 | 1116 | 1113 |
| 25° | 1099 | 1100 | 1096 |
| 30° | 1075 | 1075 | 1072 |
| 35° | 1036 | 1033 | 1028 |
| 40° | 960  | 949  | 946  |
| 45° | 839  | 825  | 829  |
| 50° | 724  | 715  | 719  |
| 55° | 644  | 634  | 635  |
| 60° | 576  | 568  | 568  |
| 65° | 517  | 513  | 515  |
| 70° | 465  | 460  | 465  |
| 75° | 431  | 425  | 431  |
| 80° | 402  | 397  | 384  |
| 85° | 341  | 341  | 304  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 839 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.6   | 4.2       |
| 10°-20°   | 227.7  | 12.0      |
| 20°-30°   | 340.7  | 18.0      |
| 30°-40°   | 390.4  | 20.6      |
| 40°-50°   | 337.6  | 17.8      |
| 50°-60°   | 244.3  | 12.9      |
| 60°-70°   | 160.9  | 8.5       |
| 70°-80°   | 87.6   | 4.6       |
| 80°-90°   | 25.1   | 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°    | 648.0  | 34.2      |
| 0°-40°    | 1038.4 | 54.8      |
| 0°-60°    | 1620.3 | 85.6      |
| 0°-90°    | 1894.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1894.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 840 | 840   | 840 | 840   | 840 |      |
| 5°  | 836 | 838   | 838 | 838   | 836 | 79   |
| 15° | 806 | 807   | 808 | 809   | 806 | 227  |
| 25° | 740 | 740   | 741 | 742   | 738 | 340  |
| 35° | 630 | 630   | 629 | 628   | 626 | 392  |
| 45° | 441 | 440   | 434 | 433   | 436 | 341  |
| 55° | 274 | 273   | 270 | 268   | 271 | 247  |
| 65° | 162 | 164   | 161 | 160   | 162 | 162  |
| 75° | 83  | 83    | 82  | 82    | 83  | 88   |
| 85° | 22  | 22    | 22  | 23    | 20  | 26   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 840.5 | 840.5 | 840.5 | 840.5 | 840.5 |
| 2.5°  | 838.7 | 840.5 | 839.9 | 840.5 | 838.7 |
| 5°    | 835.8 | 837.5 | 837.5 | 837.5 | 836.4 |
| 7.5°  | 831.6 | 832.8 | 833.4 | 834.0 | 831.0 |
| 10°   | 825.6 | 826.8 | 826.2 | 827.4 | 825.0 |
| 12.5° | 817.9 | 817.9 | 818.5 | 819.7 | 817.3 |
| 15°   | 806.5 | 807.1 | 807.7 | 808.9 | 805.9 |
| 17.5° | 793.4 | 794.0 | 794.6 | 795.2 | 792.8 |
| 20°   | 778.5 | 778.5 | 779.7 | 780.3 | 777.3 |
| 22.5° | 760.0 | 760.0 | 761.2 | 763.0 | 759.4 |
| 25°   | 740.3 | 740.3 | 740.9 | 741.5 | 738.5 |
| 27.5° | 717.0 | 717.0 | 717.6 | 719.4 | 715.9 |
| 30°   | 692.0 | 691.4 | 692.0 | 692.6 | 690.2 |
| 32.5° | 664.0 | 663.4 | 662.8 | 663.4 | 660.4 |
| 35°   | 630.5 | 629.9 | 628.8 | 628.2 | 625.8 |
| 37.5° | 591.8 | 590.6 | 588.2 | 588.2 | 585.8 |
| 40°   | 546.4 | 543.5 | 540.5 | 539.3 | 538.7 |
| 42.5° | 493.9 | 491.6 | 487.4 | 486.8 | 486.8 |
| 45°   | 440.8 | 439.7 | 433.7 | 433.1 | 435.5 |
| 47.5° | 393.1 | 390.1 | 384.8 | 383.6 | 387.2 |
| 50°   | 346.0 | 346.6 | 341.8 | 340.0 | 343.6 |
| 52.5° | 309.0 | 307.8 | 303.6 | 302.4 | 305.4 |
| 55°   | 274.4 | 273.2 | 270.2 | 268.4 | 270.8 |
| 57.5° | 242.8 | 242.2 | 239.2 | 238.6 | 239.8 |
| 60°   | 214.2 | 213.6 | 211.2 | 210.6 | 211.2 |
| 62.5° | 187.3 | 187.3 | 184.9 | 183.7 | 185.5 |
| 65°   | 162.3 | 163.5 | 161.1 | 159.9 | 161.7 |
| 67.5° | 139.6 | 140.8 | 138.4 | 137.2 | 139.6 |
| 70°   | 118.1 | 119.3 | 116.9 | 115.7 | 118.1 |
| 72.5° | 99.6  | 100.2 | 98.4  | 97.8  | 100.8 |
| 75°   | 82.9  | 82.9  | 81.7  | 81.7  | 82.9  |
| 77.5° | 67.4  | 66.8  | 66.2  | 66.2  | 65.0  |
| 80°   | 51.9  | 51.3  | 51.3  | 51.3  | 49.5  |
| 82.5° | 37.0  | 35.8  | 36.4  | 37.0  | 34.0  |
| 85°   | 22.1  | 22.1  | 22.1  | 22.7  | 19.7  |
| 87.5° | 8.9   | 8.9   | 8.4   | 8.9   | 7.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |









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





(END OF REPORT)