

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: P1050542

Luminaire Tested: 24PTR-20-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-20-PB1-L830-UNV-STD-W  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

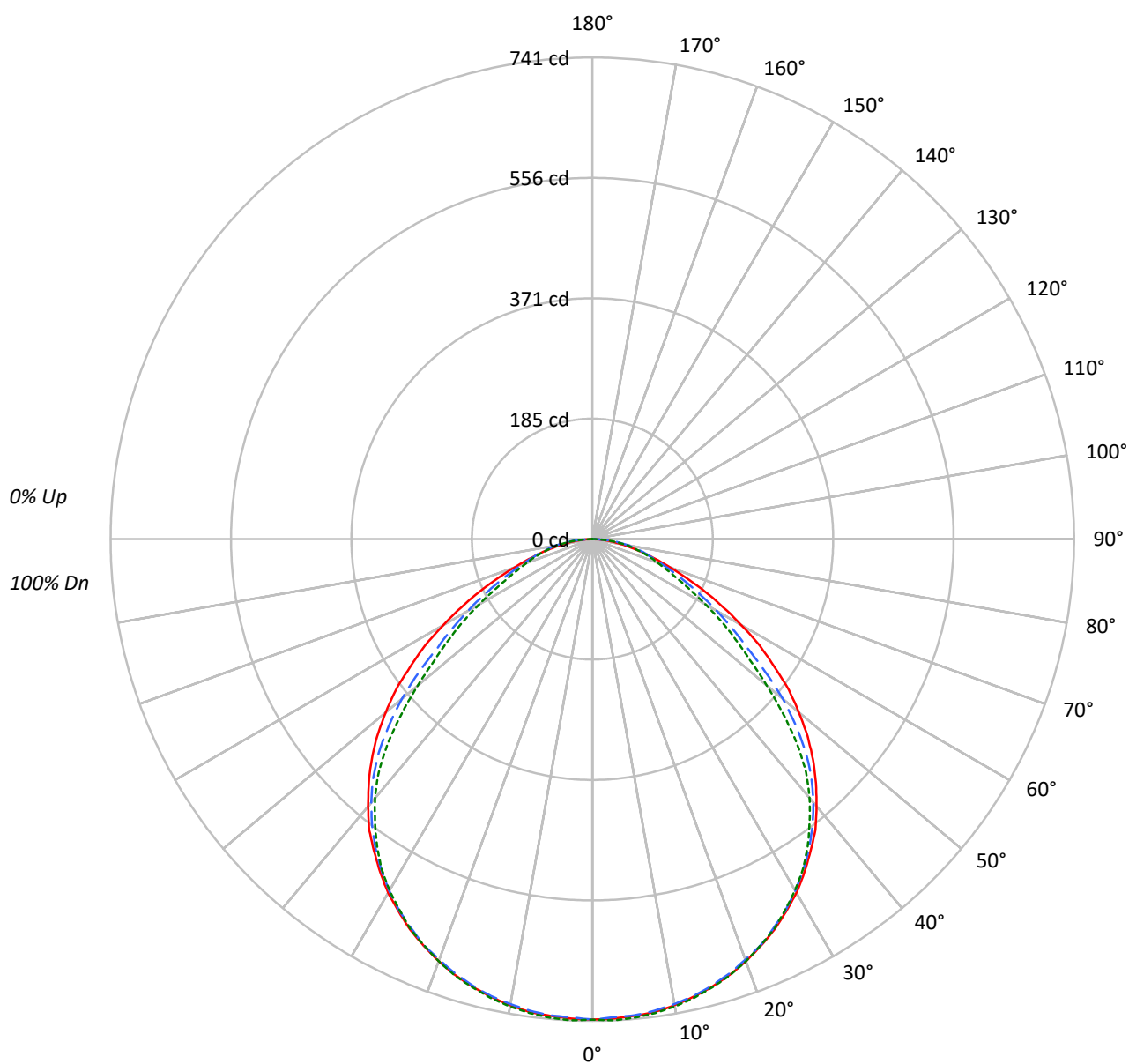
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1843.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
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 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 89  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  | 62  |    |    |
| 4   | 85  | 73  | 65  | 59  | 83  | 72  | 64  | 58  | 70  | 63  | 58  | 67  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |
| 6   | 72  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |
| 7   | 67  | 54  | 46  | 40  | 66  | 53  | 45  | 40  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 8   | 63  | 50  | 41  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 9   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 30  |    |    |
| 10  | 55  | 42  | 34  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°  | 45° | 90° |
|-----|-----|-----|-----|
| 0°  | 994 | 994 | 994 |
| 5°  | 994 | 993 | 998 |
| 10° | 995 | 992 | 997 |
| 15° | 993 | 990 | 994 |
| 20° | 989 | 985 | 989 |
| 25° | 984 | 980 | 982 |
| 30° | 976 | 970 | 969 |
| 35° | 962 | 954 | 948 |
| 40° | 942 | 929 | 913 |
| 45° | 913 | 884 | 848 |
| 50° | 868 | 801 | 733 |
| 55° | 800 | 680 | 631 |
| 60° | 712 | 594 | 541 |
| 65° | 611 | 515 | 460 |
| 70° | 504 | 454 | 422 |
| 75° | 425 | 435 | 411 |
| 80° | 360 | 444 | 423 |
| 85° | 281 | 449 | 394 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 913 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.1   | 3.8       |
| 10°-20°   | 201.1  | 10.9      |
| 20°-30°   | 304.6  | 16.5      |
| 30°-40°   | 363.0  | 19.7      |
| 40°-50°   | 354.9  | 19.3      |
| 50°-60°   | 268.5  | 14.6      |
| 60°-70°   | 164.9  | 8.9       |
| 70°-80°   | 87.9   | 4.8       |
| 80°-90°   | 28.0   | 1.5       |
| 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°    | 575.8  | 31.2      |
| 0°-40°    | 938.7  | 50.9      |
| 0°-60°    | 1562.1 | 84.8      |
| 0°-90°    | 1843.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1843.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 739 | 739   | 739 | 739   | 739 |      |
| 5°  | 736 | 737   | 736 | 738   | 739 | 70   |
| 15° | 713 | 714   | 711 | 714   | 714 | 201  |
| 25° | 663 | 662   | 660 | 661   | 662 | 305  |
| 35° | 585 | 585   | 581 | 578   | 577 | 366  |
| 45° | 480 | 477   | 464 | 449   | 445 | 369  |
| 55° | 341 | 324   | 290 | 274   | 269 | 305  |
| 65° | 192 | 176   | 162 | 149   | 145 | 191  |
| 75° | 82  | 83    | 84  | 81    | 79  | 88   |
| 85° | 18  | 24    | 29  | 27    | 26  | 22   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 739.1 | 739.1 | 739.1 | 739.1 | 739.1 |
| 2.5°  | 738.2 | 739.1 | 736.3 | 740.1 | 740.9 |
| 5°    | 736.3 | 737.3 | 735.5 | 738.2 | 739.1 |
| 7.5°  | 733.7 | 733.7 | 731.9 | 734.5 | 735.5 |
| 10°   | 728.2 | 728.2 | 726.4 | 729.1 | 730.0 |
| 12.5° | 721.0 | 721.0 | 720.0 | 721.8 | 722.8 |
| 15°   | 712.8 | 713.6 | 711.0 | 713.6 | 713.6 |
| 17.5° | 702.7 | 701.9 | 700.9 | 702.7 | 703.7 |
| 20°   | 690.9 | 690.9 | 688.2 | 690.0 | 690.9 |
| 22.5° | 677.3 | 677.3 | 676.4 | 677.3 | 676.4 |
| 25°   | 662.8 | 661.8 | 660.0 | 660.9 | 661.8 |
| 27.5° | 645.5 | 645.5 | 643.7 | 643.7 | 642.7 |
| 30°   | 628.2 | 627.2 | 624.6 | 622.8 | 623.6 |
| 32.5° | 607.3 | 606.3 | 603.7 | 601.9 | 602.7 |
| 35°   | 585.4 | 584.6 | 581.0 | 578.2 | 577.3 |
| 37.5° | 563.7 | 560.9 | 556.3 | 552.7 | 549.1 |
| 40°   | 536.4 | 533.6 | 529.1 | 520.9 | 520.0 |
| 42.5° | 509.1 | 506.4 | 499.1 | 489.1 | 486.4 |
| 45°   | 480.0 | 477.3 | 464.5 | 449.1 | 445.4 |
| 47.5° | 449.1 | 444.6 | 424.5 | 405.4 | 398.2 |
| 50°   | 414.6 | 406.4 | 382.7 | 358.2 | 350.0 |
| 52.5° | 380.9 | 366.4 | 335.5 | 313.6 | 305.5 |
| 55°   | 340.9 | 323.6 | 290.0 | 273.6 | 269.1 |
| 57.5° | 305.5 | 281.8 | 254.5 | 238.2 | 234.6 |
| 60°   | 264.6 | 242.7 | 220.9 | 206.3 | 200.9 |
| 62.5° | 227.2 | 208.2 | 190.0 | 177.2 | 170.9 |
| 65°   | 191.8 | 176.4 | 161.9 | 149.1 | 144.6 |
| 67.5° | 157.3 | 149.1 | 137.2 | 127.3 | 124.6 |
| 70°   | 128.2 | 123.6 | 115.5 | 110.9 | 107.3 |
| 72.5° | 101.8 | 103.7 | 98.2  | 96.4  | 93.6  |
| 75°   | 81.8  | 82.7  | 83.6  | 80.9  | 79.1  |
| 77.5° | 61.8  | 66.3  | 70.0  | 68.1  | 66.3  |
| 80°   | 46.4  | 50.9  | 57.3  | 54.6  | 54.6  |
| 82.5° | 31.8  | 37.3  | 42.8  | 40.9  | 40.0  |
| 85°   | 18.2  | 23.7  | 29.1  | 27.3  | 25.5  |
| 87.5° | 7.3   | 11.8  | 12.7  | 12.7  | 11.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |







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





(END OF REPORT)