

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: P1050927

Luminaire Tested: 24PTR-20-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-20-PR1-L830-UNV-STD-W  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source:  
Ballast/Driver: -

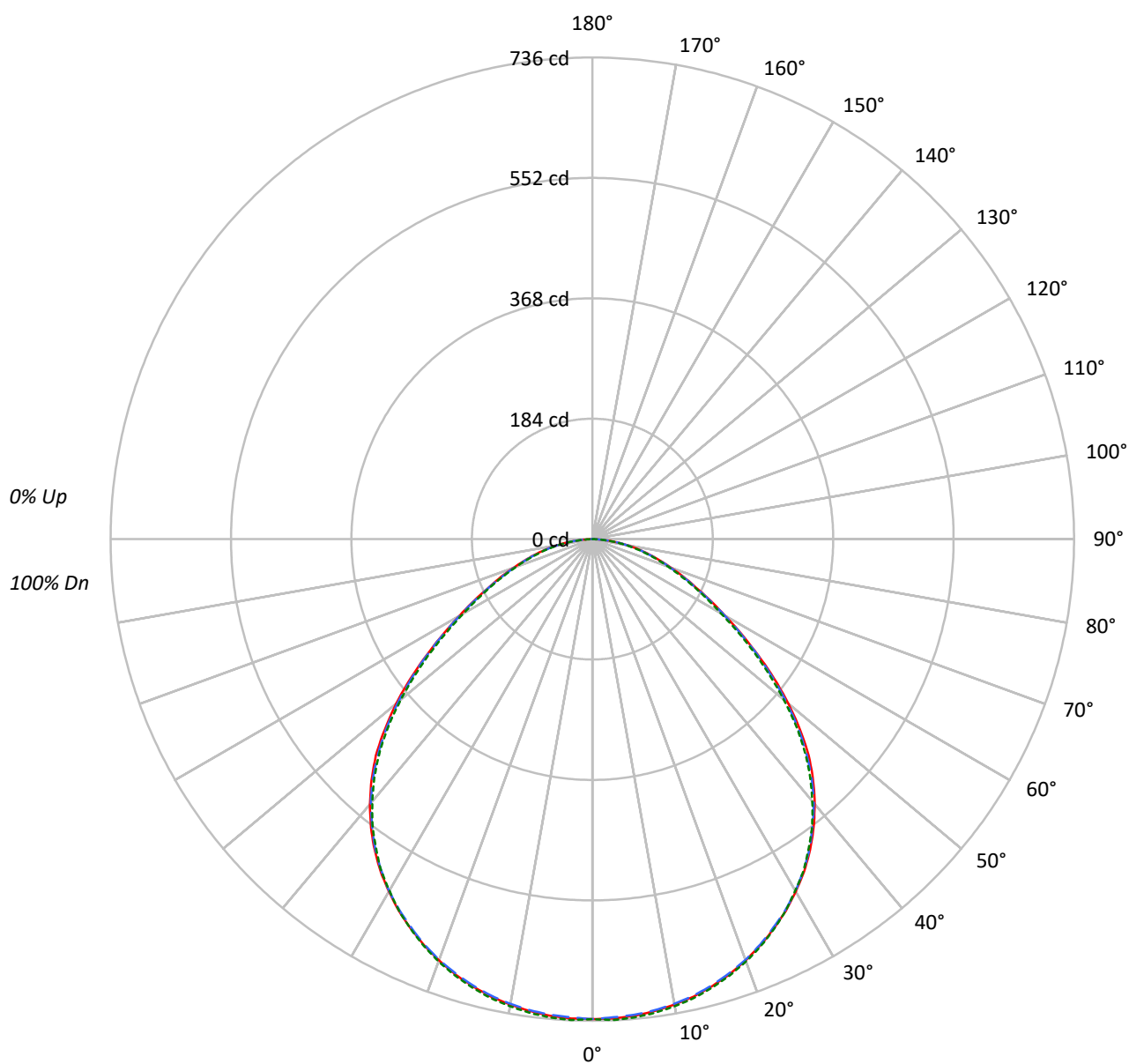
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1854.6 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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  | 92  | 90  | 91  | 89  | 88  | 85  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 41  |    |    |
| 7   | 67  | 54  | 45  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°  | 45° | 90° |
|-----|-----|-----|-----|
| 0°  | 987 | 987 | 987 |
| 5°  | 988 | 985 | 991 |
| 10° | 987 | 985 | 990 |
| 15° | 985 | 983 | 988 |
| 20° | 981 | 980 | 983 |
| 25° | 974 | 972 | 976 |
| 30° | 966 | 965 | 963 |
| 35° | 953 | 950 | 946 |
| 40° | 928 | 925 | 918 |
| 45° | 890 | 880 | 873 |
| 50° | 819 | 809 | 799 |
| 55° | 725 | 721 | 707 |
| 60° | 630 | 627 | 610 |
| 65° | 555 | 551 | 541 |
| 70° | 504 | 496 | 486 |
| 75° | 466 | 455 | 447 |
| 80° | 425 | 419 | 405 |
| 85° | 337 | 333 | 320 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 890 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.6   | 3.8       |
| 10°-20°   | 199.7  | 10.8      |
| 20°-30°   | 302.5  | 16.3      |
| 30°-40°   | 361.1  | 19.5      |
| 40°-50°   | 355.1  | 19.1      |
| 50°-60°   | 274.5  | 14.8      |
| 60°-70°   | 173.1  | 9.3       |
| 70°-80°   | 93.6   | 5.0       |
| 80°-90°   | 25.6   | 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°    | 571.7  | 30.8      |
| 0°-40°    | 932.8  | 50.3      |
| 0°-60°    | 1562.4 | 84.2      |
| 0°-90°    | 1854.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1854.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 733 | 733   | 733 | 733   | 733 |      |
| 5°  | 731 | 732   | 730 | 733   | 734 | 70   |
| 15° | 707 | 707   | 706 | 708   | 709 | 200  |
| 25° | 656 | 657   | 655 | 657   | 657 | 303  |
| 35° | 580 | 580   | 578 | 578   | 576 | 362  |
| 45° | 468 | 466   | 462 | 459   | 459 | 358  |
| 55° | 309 | 311   | 308 | 302   | 302 | 277  |
| 65° | 174 | 175   | 173 | 170   | 170 | 175  |
| 75° | 90  | 89    | 88  | 88    | 86  | 95   |
| 85° | 22  | 22    | 22  | 22    | 21  | 26   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 733.4 | 733.4 | 733.4 | 733.4 | 733.4 |
| 2.5°  | 733.1 | 733.4 | 731.3 | 734.7 | 735.5 |
| 5°    | 731.3 | 731.5 | 729.6 | 732.8 | 733.6 |
| 7.5°  | 727.5 | 728.1 | 726.3 | 729.4 | 730.2 |
| 10°   | 722.3 | 722.8 | 721.0 | 724.2 | 724.9 |
| 12.5° | 715.8 | 716.0 | 714.4 | 717.3 | 718.1 |
| 15°   | 707.1 | 707.3 | 706.0 | 708.3 | 709.4 |
| 17.5° | 697.1 | 697.3 | 695.5 | 698.4 | 698.9 |
| 20°   | 685.0 | 685.2 | 684.2 | 686.6 | 686.8 |
| 22.5° | 671.6 | 672.1 | 670.5 | 672.6 | 672.9 |
| 25°   | 656.4 | 656.9 | 654.8 | 656.9 | 657.1 |
| 27.5° | 640.3 | 640.5 | 638.7 | 640.3 | 640.0 |
| 30°   | 621.6 | 623.2 | 620.9 | 620.3 | 620.1 |
| 32.5° | 602.2 | 602.4 | 600.1 | 599.6 | 600.6 |
| 35°   | 579.9 | 580.1 | 578.5 | 577.8 | 576.2 |
| 37.5° | 555.4 | 555.4 | 552.5 | 552.0 | 551.7 |
| 40°   | 528.6 | 528.3 | 526.5 | 524.7 | 522.8 |
| 42.5° | 499.4 | 499.9 | 496.2 | 493.1 | 492.6 |
| 45°   | 467.6 | 465.8 | 462.3 | 458.7 | 459.0 |
| 47.5° | 430.0 | 430.5 | 425.8 | 422.9 | 422.1 |
| 50°   | 391.1 | 391.1 | 386.7 | 383.5 | 381.9 |
| 52.5° | 350.4 | 350.7 | 346.5 | 342.3 | 341.4 |
| 55°   | 308.9 | 311.4 | 307.5 | 302.5 | 301.5 |
| 57.5° | 270.0 | 272.1 | 268.4 | 263.1 | 262.8 |
| 60°   | 234.0 | 234.2 | 233.1 | 228.2 | 226.8 |
| 62.5° | 203.2 | 201.9 | 201.3 | 198.7 | 197.1 |
| 65°   | 174.3 | 174.6 | 173.2 | 170.3 | 169.8 |
| 67.5° | 150.9 | 150.6 | 148.2 | 146.4 | 145.4 |
| 70°   | 128.0 | 127.2 | 126.2 | 124.6 | 123.6 |
| 72.5° | 107.5 | 107.5 | 106.7 | 106.2 | 104.4 |
| 75°   | 89.7  | 88.6  | 87.6  | 88.1  | 86.0  |
| 77.5° | 72.6  | 71.5  | 70.7  | 69.6  | 69.1  |
| 80°   | 54.9  | 53.9  | 54.1  | 52.5  | 52.3  |
| 82.5° | 38.1  | 38.1  | 37.6  | 36.3  | 36.6  |
| 85°   | 21.8  | 22.1  | 21.6  | 21.8  | 20.7  |
| 87.5° | 7.9   | 8.1   | 8.7   | 8.1   | 8.1   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |







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





(END OF REPORT)