

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: P1050993

Luminaire Tested: 24PTR-20-PR1-L940-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050993  
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-L940-UNV-STD-W  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPPLE LENS  
  
Light Source:  
Ballast/Driver: -

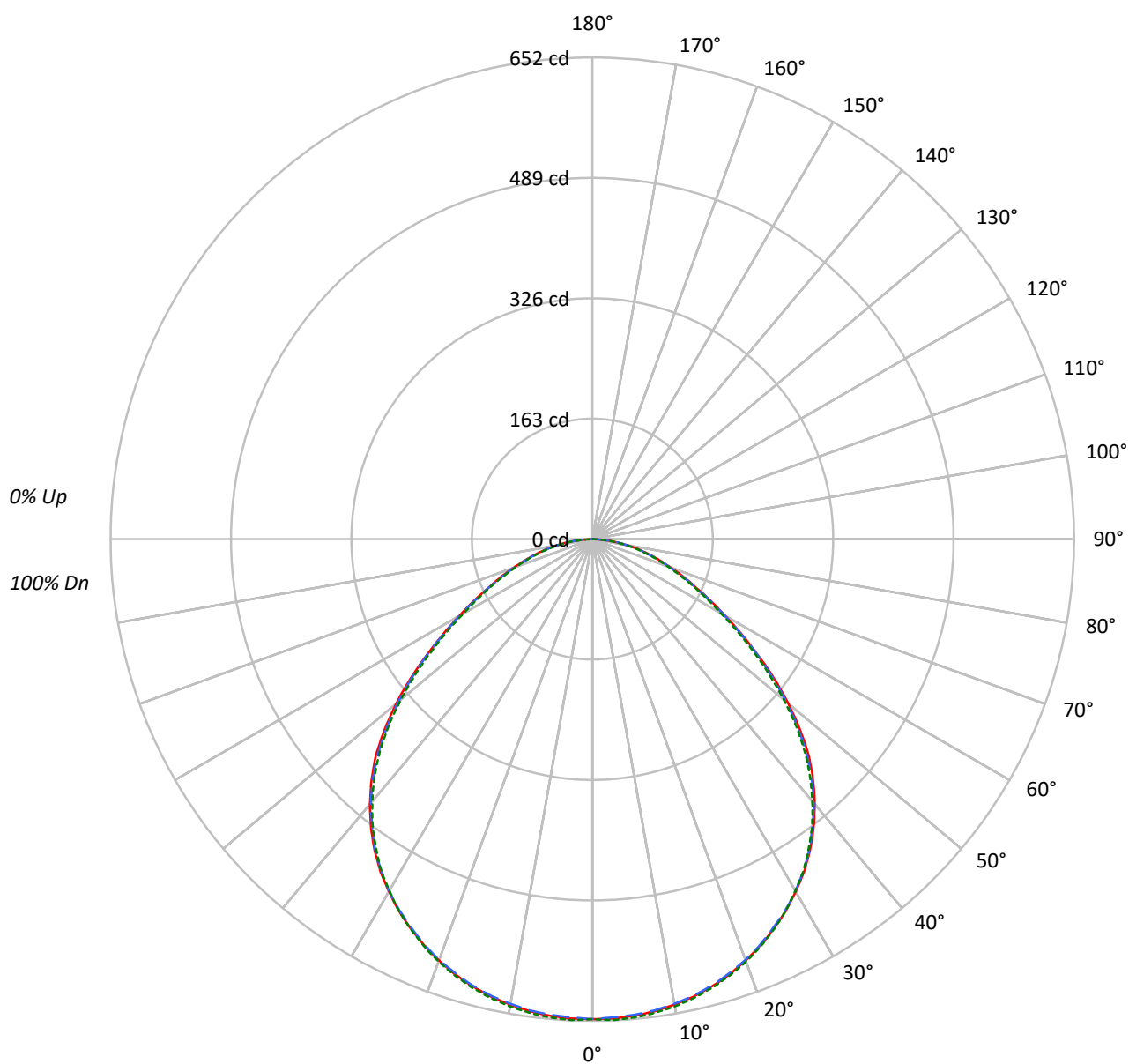
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1643.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 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°  | 874 | 874 | 874 |
| 5°  | 875 | 873 | 878 |
| 10° | 874 | 873 | 878 |
| 15° | 873 | 871 | 875 |
| 20° | 869 | 868 | 871 |
| 25° | 863 | 861 | 864 |
| 30° | 856 | 855 | 854 |
| 35° | 844 | 842 | 839 |
| 40° | 823 | 819 | 814 |
| 45° | 788 | 779 | 774 |
| 50° | 725 | 717 | 708 |
| 55° | 642 | 639 | 627 |
| 60° | 558 | 556 | 541 |
| 65° | 492 | 489 | 479 |
| 70° | 446 | 440 | 431 |
| 75° | 413 | 403 | 396 |
| 80° | 377 | 372 | 360 |
| 85° | 298 | 295 | 284 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 788 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.6   | 3.8       |
| 10°-20°   | 176.9  | 10.8      |
| 20°-30°   | 268.0  | 16.3      |
| 30°-40°   | 319.9  | 19.5      |
| 40°-50°   | 314.6  | 19.1      |
| 50°-60°   | 243.2  | 14.8      |
| 60°-70°   | 153.3  | 9.3       |
| 70°-80°   | 83.0   | 5.0       |
| 80°-90°   | 22.7   | 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°    | 506.5  | 30.8      |
| 0°-40°    | 826.5  | 50.3      |
| 0°-60°    | 1384.3 | 84.2      |
| 0°-90°    | 1643.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1643.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 650 | 650   | 650 | 650   | 650 |      |
| 5°  | 648 | 648   | 646 | 649   | 650 | 62   |
| 15° | 626 | 627   | 626 | 628   | 628 | 177  |
| 25° | 582 | 582   | 580 | 582   | 582 | 268  |
| 35° | 514 | 514   | 513 | 512   | 510 | 321  |
| 45° | 414 | 413   | 410 | 406   | 407 | 317  |
| 55° | 274 | 276   | 272 | 268   | 267 | 246  |
| 65° | 154 | 155   | 154 | 151   | 150 | 155  |
| 75° | 80  | 78    | 78  | 78    | 76  | 84   |
| 85° | 19  | 20    | 19  | 19    | 18  | 23   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 649.7 | 649.7 | 649.7 | 649.7 | 649.7 |
| 2.5°  | 649.5 | 649.7 | 647.9 | 650.9 | 651.6 |
| 5°    | 647.9 | 648.1 | 646.4 | 649.2 | 650.0 |
| 7.5°  | 644.6 | 645.1 | 643.5 | 646.3 | 646.9 |
| 10°   | 639.9 | 640.4 | 638.8 | 641.6 | 642.3 |
| 12.5° | 634.2 | 634.3 | 633.0 | 635.5 | 636.2 |
| 15°   | 626.5 | 626.6 | 625.5 | 627.6 | 628.5 |
| 17.5° | 617.6 | 617.8 | 616.2 | 618.8 | 619.2 |
| 20°   | 606.9 | 607.1 | 606.2 | 608.3 | 608.5 |
| 22.5° | 595.0 | 595.5 | 594.1 | 595.9 | 596.2 |
| 25°   | 581.5 | 582.0 | 580.1 | 582.0 | 582.2 |
| 27.5° | 567.3 | 567.5 | 565.9 | 567.3 | 567.1 |
| 30°   | 550.7 | 552.2 | 550.1 | 549.6 | 549.4 |
| 32.5° | 533.6 | 533.7 | 531.7 | 531.2 | 532.1 |
| 35°   | 513.8 | 513.9 | 512.6 | 511.9 | 510.5 |
| 37.5° | 492.1 | 492.1 | 489.5 | 489.1 | 488.8 |
| 40°   | 468.3 | 468.1 | 466.5 | 464.9 | 463.2 |
| 42.5° | 442.4 | 442.9 | 439.6 | 436.9 | 436.4 |
| 45°   | 414.3 | 412.7 | 409.6 | 406.4 | 406.6 |
| 47.5° | 381.0 | 381.4 | 377.3 | 374.7 | 374.0 |
| 50°   | 346.5 | 346.5 | 342.6 | 339.8 | 338.4 |
| 52.5° | 310.4 | 310.7 | 307.0 | 303.3 | 302.5 |
| 55°   | 273.6 | 275.9 | 272.5 | 268.1 | 267.1 |
| 57.5° | 239.2 | 241.1 | 237.8 | 233.1 | 232.9 |
| 60°   | 207.3 | 207.5 | 206.5 | 202.1 | 201.0 |
| 62.5° | 180.1 | 178.9 | 178.4 | 176.1 | 174.6 |
| 65°   | 154.4 | 154.7 | 153.5 | 150.9 | 150.4 |
| 67.5° | 133.7 | 133.4 | 131.3 | 129.7 | 128.8 |
| 70°   | 113.4 | 112.7 | 111.8 | 110.4 | 109.5 |
| 72.5° | 95.3  | 95.3  | 94.5  | 94.1  | 92.5  |
| 75°   | 79.5  | 78.5  | 77.6  | 78.0  | 76.2  |
| 77.5° | 64.3  | 63.4  | 62.6  | 61.7  | 61.3  |
| 80°   | 48.7  | 47.7  | 48.0  | 46.5  | 46.4  |
| 82.5° | 33.8  | 33.8  | 33.3  | 32.2  | 32.4  |
| 85°   | 19.3  | 19.5  | 19.1  | 19.3  | 18.4  |
| 87.5° | 7.0   | 7.2   | 7.7   | 7.2   | 7.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |









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





(END OF REPORT)