

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: P1050597

Luminaire Tested: 24PTR-20-PB1-L935-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050597  
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-L935-UNV-STD-W  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

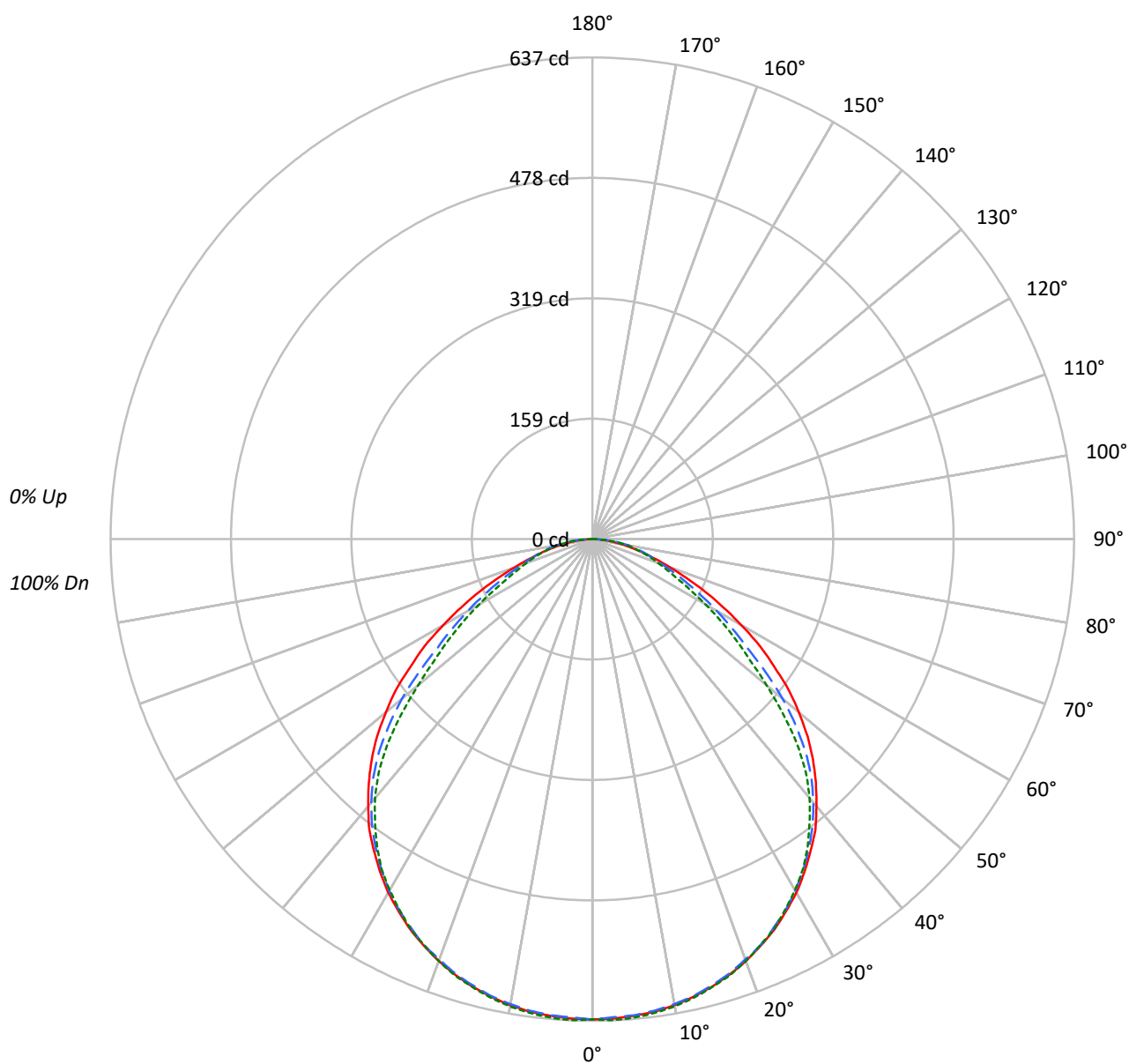
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1584.0 lumens  
Efficiency: N/A  
Efficacy: 105.6 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°  | 855 | 855 | 855 |
| 5°  | 855 | 854 | 858 |
| 10° | 855 | 853 | 857 |
| 15° | 853 | 851 | 854 |
| 20° | 850 | 847 | 850 |
| 25° | 846 | 842 | 844 |
| 30° | 839 | 834 | 833 |
| 35° | 827 | 820 | 815 |
| 40° | 810 | 799 | 785 |
| 45° | 785 | 760 | 728 |
| 50° | 746 | 688 | 630 |
| 55° | 687 | 585 | 542 |
| 60° | 612 | 511 | 465 |
| 65° | 525 | 443 | 396 |
| 70° | 434 | 391 | 363 |
| 75° | 365 | 374 | 354 |
| 80° | 309 | 381 | 363 |
| 85° | 242 | 386 | 338 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 785 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 3.8       |
| 10°-20°   | 172.8  | 10.9      |
| 20°-30°   | 261.8  | 16.5      |
| 30°-40°   | 311.9  | 19.7      |
| 40°-50°   | 305.1  | 19.3      |
| 50°-60°   | 230.7  | 14.6      |
| 60°-70°   | 141.8  | 8.9       |
| 70°-80°   | 75.5   | 4.8       |
| 80°-90°   | 24.1   | 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°    | 494.9  | 31.2      |
| 0°-40°    | 806.8  | 50.9      |
| 0°-60°    | 1342.6 | 84.8      |
| 0°-90°    | 1584.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1584.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 635 | 635   | 635 | 635   | 635 |      |
| 5°  | 633 | 634   | 632 | 634   | 635 | 60   |
| 15° | 613 | 613   | 611 | 613   | 613 | 173  |
| 25° | 570 | 569   | 567 | 568   | 569 | 262  |
| 35° | 503 | 502   | 499 | 497   | 496 | 315  |
| 45° | 412 | 410   | 399 | 386   | 383 | 317  |
| 55° | 293 | 278   | 249 | 235   | 231 | 262  |
| 65° | 165 | 152   | 139 | 128   | 124 | 164  |
| 75° | 70  | 71    | 72  | 70    | 68  | 75   |
| 85° | 16  | 20    | 25  | 24    | 22  | 19   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 635.2 | 635.2 | 635.2 | 635.2 | 635.2 |
| 2.5°  | 634.5 | 635.2 | 632.9 | 636.1 | 636.8 |
| 5°    | 632.9 | 633.7 | 632.1 | 634.5 | 635.2 |
| 7.5°  | 630.6 | 630.6 | 629.0 | 631.3 | 632.1 |
| 10°   | 625.9 | 625.9 | 624.3 | 626.6 | 627.5 |
| 12.5° | 619.7 | 619.7 | 618.8 | 620.4 | 621.2 |
| 15°   | 612.6 | 613.3 | 611.0 | 613.3 | 613.3 |
| 17.5° | 604.0 | 603.3 | 602.4 | 604.0 | 604.8 |
| 20°   | 593.8 | 593.8 | 591.5 | 593.1 | 593.8 |
| 22.5° | 582.1 | 582.1 | 581.3 | 582.1 | 581.3 |
| 25°   | 569.6 | 568.8 | 567.2 | 568.1 | 568.8 |
| 27.5° | 554.8 | 554.8 | 553.2 | 553.2 | 552.4 |
| 30°   | 539.9 | 539.1 | 536.8 | 535.2 | 536.0 |
| 32.5° | 522.0 | 521.1 | 518.8 | 517.3 | 518.0 |
| 35°   | 503.2 | 502.4 | 499.3 | 496.9 | 496.2 |
| 37.5° | 484.5 | 482.1 | 478.2 | 475.0 | 471.9 |
| 40°   | 461.0 | 458.6 | 454.8 | 447.7 | 446.9 |
| 42.5° | 437.5 | 435.3 | 428.9 | 420.4 | 418.0 |
| 45°   | 412.5 | 410.2 | 399.2 | 386.0 | 382.8 |
| 47.5° | 386.0 | 382.1 | 364.9 | 348.5 | 342.2 |
| 50°   | 356.3 | 349.3 | 328.9 | 307.9 | 300.8 |
| 52.5° | 327.4 | 314.9 | 288.3 | 269.6 | 262.6 |
| 55°   | 293.0 | 278.2 | 249.3 | 235.2 | 231.2 |
| 57.5° | 262.6 | 242.2 | 218.8 | 204.7 | 201.6 |
| 60°   | 227.4 | 208.6 | 189.9 | 177.3 | 172.7 |
| 62.5° | 195.3 | 178.9 | 163.3 | 152.3 | 146.9 |
| 65°   | 164.9 | 151.6 | 139.1 | 128.1 | 124.3 |
| 67.5° | 135.2 | 128.1 | 118.0 | 109.4 | 107.0 |
| 70°   | 110.2 | 106.2 | 99.3  | 95.3  | 92.2  |
| 72.5° | 87.5  | 89.1  | 84.4  | 82.9  | 80.5  |
| 75°   | 70.3  | 71.1  | 71.9  | 69.6  | 68.0  |
| 77.5° | 53.2  | 57.0  | 60.1  | 58.6  | 57.0  |
| 80°   | 39.9  | 43.7  | 49.2  | 46.9  | 46.9  |
| 82.5° | 27.3  | 32.1  | 36.7  | 35.2  | 34.4  |
| 85°   | 15.7  | 20.3  | 25.0  | 23.5  | 21.9  |
| 87.5° | 6.2   | 10.2  | 10.9  | 10.9  | 10.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |









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





(END OF REPORT)