

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: P1047001

Luminaire Tested: 22PTR-20-PW1-L940-UNV-STD-W

Issue Date: 7/10/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1047001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-20-PW1-L940-UNV-STD-W  
Description: 2000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

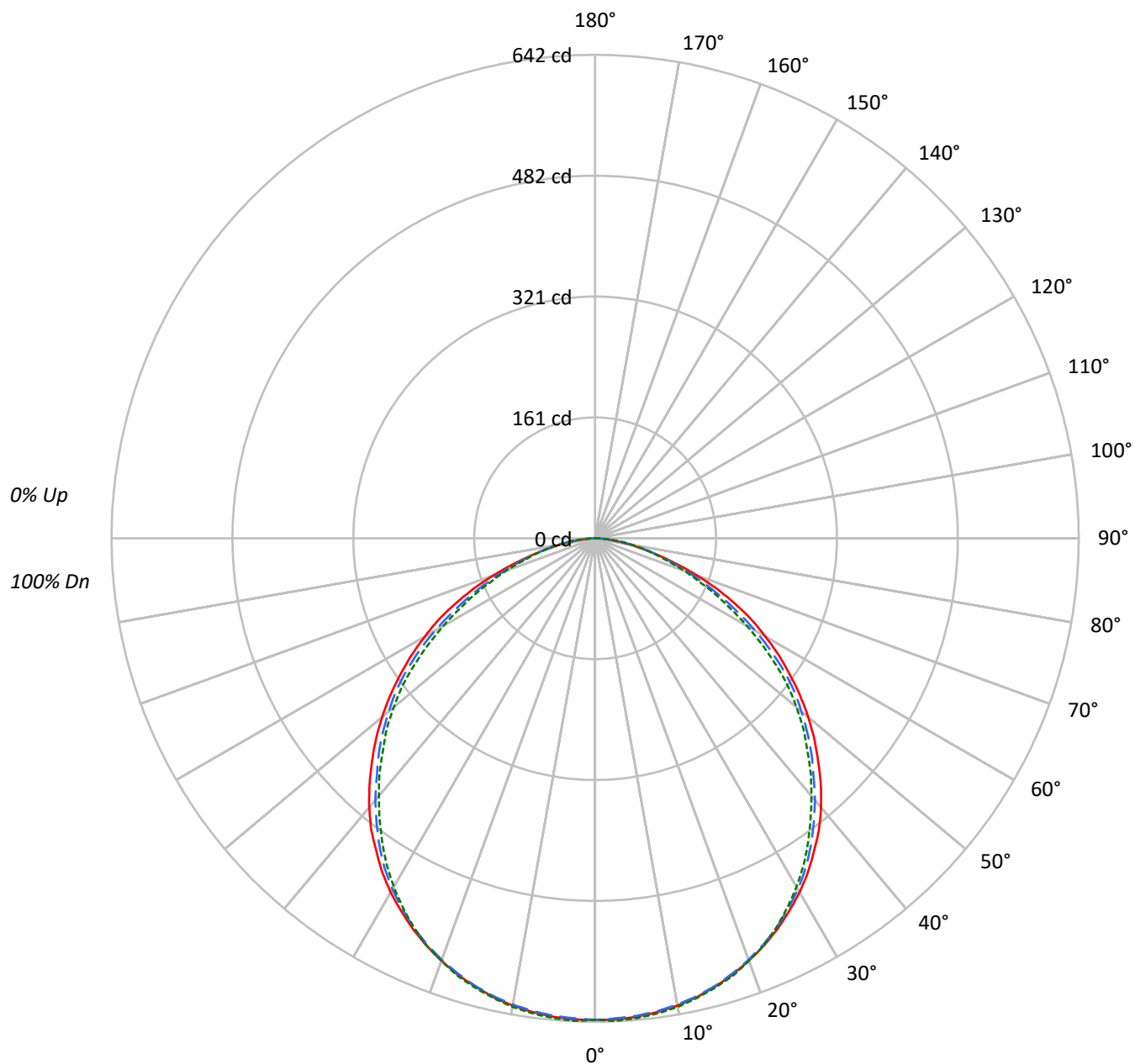
Lumens per Lamp: N/A  
Luminaire Lumens: 1697.5 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34  
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '  
CIE Type: Direct

Input Watts (W): 15  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 31  |    |    |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |    |    |

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

|     | 0°                                                                                                             | 45° | 90° |
|-----|----------------------------------------------------------------------------------------------------------------|-----|-----|
| 0°  | Luminous shape not found,<br>reference photometric report, or contact<br>the photometric lab for calculations. |     |     |
| 5°  |                                                                                                                |     |     |
| 10° |                                                                                                                |     |     |
| 15° |                                                                                                                |     |     |
| 20° |                                                                                                                |     |     |
| 25° |                                                                                                                |     |     |
| 30° |                                                                                                                |     |     |
| 35° |                                                                                                                |     |     |
| 40° |                                                                                                                |     |     |
| 45° |                                                                                                                |     |     |
| 50° |                                                                                                                |     |     |
| 55° |                                                                                                                |     |     |
| 60° |                                                                                                                |     |     |
| 65° |                                                                                                                |     |     |
| 70° |                                                                                                                |     |     |
| 75° |                                                                                                                |     |     |
| 80° |                                                                                                                |     |     |
| 85° |                                                                                                                |     |     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: -  
Vertical Angle: -  
Luminance: -

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.7   | 3.6       |
| 10°-20°   | 174.0  | 10.2      |
| 20°-30°   | 263.0  | 15.5      |
| 30°-40°   | 312.2  | 18.4      |
| 40°-50°   | 314.6  | 18.5      |
| 50°-60°   | 271.9  | 16.0      |
| 60°-70°   | 185.8  | 10.9      |
| 70°-80°   | 91.6   | 5.4       |
| 80°-90°   | 23.7   | 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°    | 497.6  | 29.3      |
| 0°-40°    | 809.8  | 47.7      |
| 0°-60°    | 1396.3 | 82.3      |
| 0°-90°    | 1697.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1697.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 640 | 640   | 640 | 640   | 640 |      |
| 5°  | 638 | 638   | 636 | 639   | 640 | 61   |
| 15° | 616 | 617   | 615 | 617   | 618 | 174  |
| 25° | 573 | 572   | 570 | 571   | 570 | 264  |
| 35° | 507 | 505   | 499 | 495   | 493 | 317  |
| 45° | 419 | 414   | 406 | 402   | 398 | 323  |
| 55° | 316 | 315   | 305 | 296   | 293 | 282  |
| 65° | 204 | 197   | 185 | 177   | 176 | 201  |
| 75° | 86  | 86    | 85  | 85    | 82  | 94   |
| 85° | 16  | 19    | 21  | 22    | 21  | 20   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 639.6 | 639.6 | 639.6 | 639.6 | 639.6 |
| 2.5°  | 639.5 | 639.6 | 638.0 | 640.9 | 641.5 |
| 5°    | 637.8 | 638.0 | 636.4 | 639.0 | 639.6 |
| 7.5°  | 634.7 | 635.2 | 633.3 | 635.9 | 636.4 |
| 10°   | 630.2 | 630.4 | 628.8 | 631.4 | 631.9 |
| 12.5° | 624.1 | 624.2 | 622.9 | 625.2 | 625.2 |
| 15°   | 616.2 | 616.9 | 615.3 | 617.4 | 617.6 |
| 17.5° | 607.4 | 607.7 | 606.1 | 608.4 | 608.9 |
| 20°   | 597.0 | 597.0 | 595.6 | 597.5 | 597.0 |
| 22.5° | 585.4 | 585.4 | 583.8 | 584.7 | 585.1 |
| 25°   | 572.6 | 572.1 | 570.2 | 570.7 | 569.8 |
| 27.5° | 557.9 | 557.9 | 554.6 | 554.6 | 552.9 |
| 30°   | 543.0 | 541.8 | 538.3 | 536.1 | 534.5 |
| 32.5° | 525.9 | 524.2 | 519.8 | 516.0 | 514.8 |
| 35°   | 506.8 | 505.0 | 499.1 | 494.6 | 492.7 |
| 37.5° | 488.2 | 484.5 | 476.6 | 472.1 | 470.0 |
| 40°   | 466.6 | 461.9 | 453.9 | 447.7 | 446.7 |
| 42.5° | 443.5 | 439.7 | 429.2 | 424.7 | 423.6 |
| 45°   | 418.8 | 414.3 | 406.4 | 401.7 | 398.2 |
| 47.5° | 394.6 | 391.3 | 382.3 | 376.6 | 375.4 |
| 50°   | 369.2 | 366.4 | 357.2 | 351.0 | 348.9 |
| 52.5° | 342.9 | 341.1 | 333.2 | 325.4 | 322.8 |
| 55°   | 315.7 | 314.8 | 305.1 | 296.0 | 292.9 |
| 57.5° | 288.9 | 287.7 | 275.6 | 265.2 | 262.3 |
| 60°   | 261.0 | 257.4 | 245.5 | 235.8 | 232.7 |
| 62.5° | 234.4 | 226.9 | 214.0 | 206.4 | 202.9 |
| 65°   | 204.0 | 196.7 | 185.3 | 177.2 | 176.1 |
| 67.5° | 174.2 | 165.4 | 156.7 | 151.7 | 147.9 |
| 70°   | 143.1 | 137.2 | 130.6 | 126.3 | 125.7 |
| 72.5° | 114.2 | 110.0 | 106.6 | 104.0 | 101.9 |
| 75°   | 86.5  | 85.8  | 84.6  | 84.6  | 82.2  |
| 77.5° | 63.6  | 65.2  | 66.1  | 65.9  | 66.4  |
| 80°   | 44.1  | 47.4  | 49.3  | 49.5  | 49.3  |
| 82.5° | 28.0  | 31.8  | 34.9  | 35.3  | 35.8  |
| 85°   | 16.4  | 19.2  | 21.1  | 21.5  | 21.1  |
| 87.5° | 7.3   | 9.2   | 9.7   | 10.2  | 9.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |









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





(END OF REPORT)