

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: P1471687

Luminaire Tested: 22PTR-20S-PLG-L835-UNV-STD-B

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-20S-PLG-L835-UNV-STD-B  
Description: 2000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens Black Recess Frame  
Light Source: -  
Ballast/Driver: -

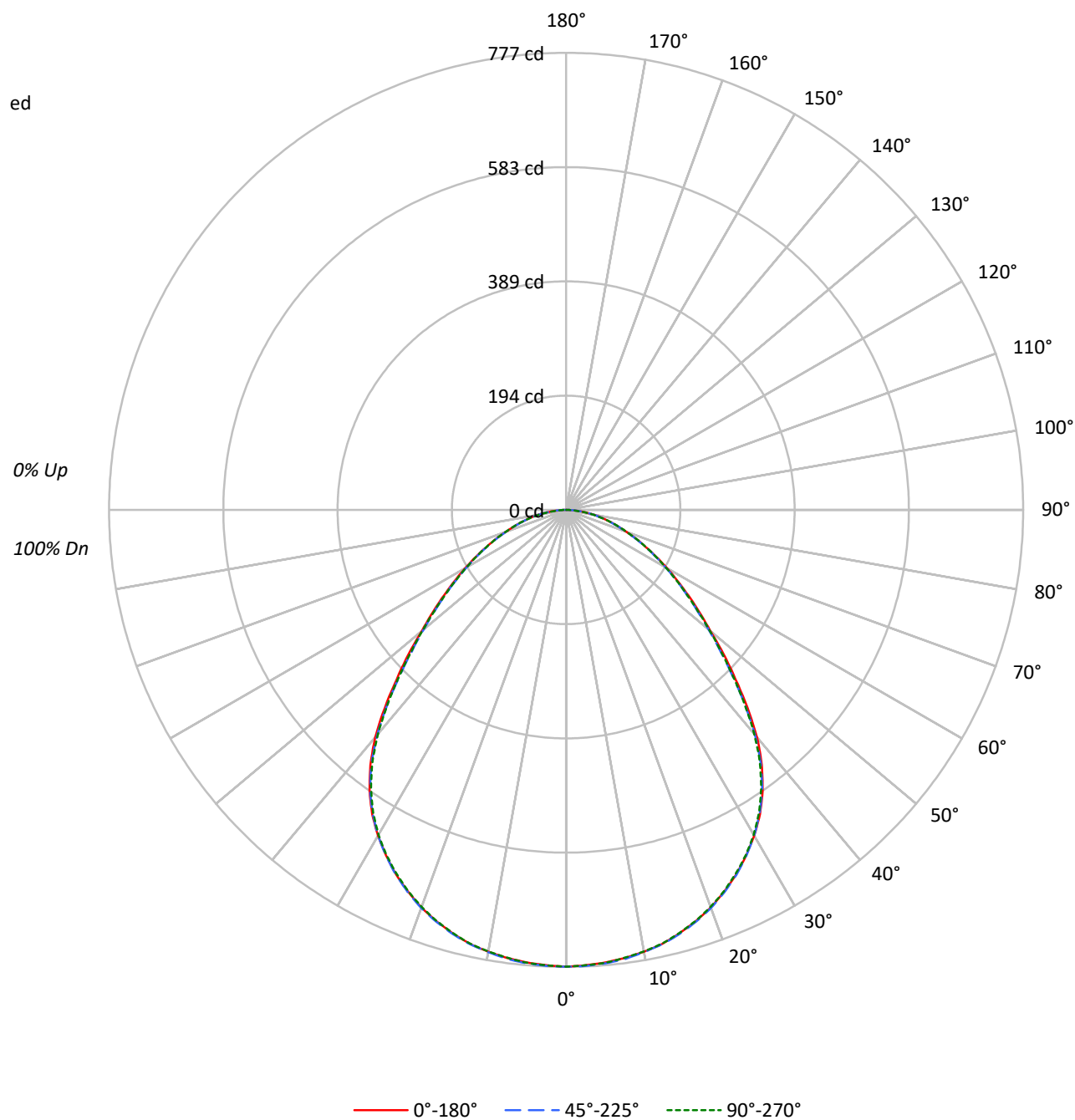
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1749.9 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
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  |     |  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  |  | 99  | 96  | 94  |  | 95  | 93  | 91  |  | 92  | 90  | 88  |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  |  | 88  | 84  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 76  |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  |  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 69  | 66  |
| 4   | 86  | 75  | 67  | 60  | 84  | 73  | 66  | 60  |  | 71  | 64  | 59  |  | 69  | 63  | 58  |  | 67  | 62  | 58  |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  |  | 64  | 57  | 52  |  | 62  | 56  | 51  |  | 61  | 55  | 51  |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  |  | 58  | 51  | 46  |  | 57  | 51  | 46  |  | 55  | 50  | 45  |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  |  | 54  | 46  | 41  |  | 52  | 46  | 41  |  | 51  | 45  | 41  |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  |  | 49  | 42  | 37  |  | 48  | 42  | 37  |  | 47  | 41  | 37  |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  |  | 46  | 39  | 34  |  | 44  | 38  | 34  |  | 43  | 38  | 34  |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  | 35  | 31  |  | 40  | 35  | 31  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2090 | 2090 | 2090 |
| 5°  | 2086 | 2090 | 2087 |
| 10° | 2084 | 2086 | 2083 |
| 15° | 2076 | 2079 | 2074 |
| 20° | 2060 | 2063 | 2057 |
| 25° | 2031 | 2033 | 2026 |
| 30° | 1987 | 1987 | 1982 |
| 35° | 1914 | 1908 | 1899 |
| 40° | 1774 | 1754 | 1748 |
| 45° | 1550 | 1525 | 1531 |
| 50° | 1338 | 1322 | 1329 |
| 55° | 1189 | 1171 | 1174 |
| 60° | 1065 | 1050 | 1050 |
| 65° | 954  | 947  | 951  |
| 70° | 858  | 850  | 858  |
| 75° | 796  | 785  | 796  |
| 80° | 744  | 735  | 708  |
| 85° | 630  | 630  | 562  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1550 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.5   | 4.2       |
| 10°-20°   | 210.4  | 12.0      |
| 20°-30°   | 314.8  | 18.0      |
| 30°-40°   | 360.7  | 20.6      |
| 40°-50°   | 311.9  | 17.8      |
| 50°-60°   | 225.7  | 12.9      |
| 60°-70°   | 148.7  | 8.5       |
| 70°-80°   | 80.9   | 4.6       |
| 80°-90°   | 23.2   | 1.3       |
| 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°    | 598.7  | 34.2      |
| 0°-40°    | 959.4  | 54.8      |
| 0°-60°    | 1497.1 | 85.6      |
| 0°-90°    | 1749.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1749.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 777 | 777   | 777 | 777   | 777 |      |
| 5°  | 772 | 774   | 774 | 774   | 773 | 73   |
| 15° | 745 | 746   | 746 | 747   | 745 | 210  |
| 25° | 684 | 684   | 685 | 685   | 682 | 315  |
| 35° | 583 | 582   | 581 | 580   | 578 | 362  |
| 45° | 407 | 406   | 401 | 400   | 402 | 315  |
| 55° | 254 | 252   | 250 | 248   | 250 | 228  |
| 65° | 150 | 151   | 149 | 148   | 149 | 150  |
| 75° | 77  | 77    | 76  | 76    | 77  | 82   |
| 85° | 20  | 20    | 20  | 21    | 18  | 24   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 776.6 | 776.6 | 776.6 | 776.6 | 776.6 |
| 2.5°  | 774.9 | 776.6 | 776.0 | 776.6 | 774.9 |
| 5°    | 772.2 | 773.8 | 773.8 | 773.8 | 772.7 |
| 7.5°  | 768.3 | 769.4 | 770.0 | 770.5 | 767.8 |
| 10°   | 762.8 | 763.9 | 763.4 | 764.5 | 762.3 |
| 12.5° | 755.7 | 755.7 | 756.2 | 757.3 | 755.1 |
| 15°   | 745.2 | 745.7 | 746.3 | 747.4 | 744.6 |
| 17.5° | 733.1 | 733.6 | 734.2 | 734.7 | 732.5 |
| 20°   | 719.3 | 719.3 | 720.4 | 720.9 | 718.2 |
| 22.5° | 702.2 | 702.2 | 703.3 | 704.9 | 701.6 |
| 25°   | 684.0 | 684.0 | 684.6 | 685.1 | 682.3 |
| 27.5° | 662.5 | 662.5 | 663.1 | 664.7 | 661.4 |
| 30°   | 639.4 | 638.8 | 639.4 | 639.9 | 637.7 |
| 32.5° | 613.5 | 612.9 | 612.3 | 612.9 | 610.1 |
| 35°   | 582.6 | 582.0 | 580.9 | 580.4 | 578.2 |
| 37.5° | 546.8 | 545.7 | 543.5 | 543.5 | 541.2 |
| 40°   | 504.9 | 502.1 | 499.4 | 498.3 | 497.7 |
| 42.5° | 456.4 | 454.2 | 450.3 | 449.8 | 449.8 |
| 45°   | 407.3 | 406.2 | 400.7 | 400.1 | 402.4 |
| 47.5° | 363.2 | 360.5 | 355.5 | 354.4 | 357.7 |
| 50°   | 319.7 | 320.2 | 315.8 | 314.2 | 317.5 |
| 52.5° | 285.5 | 284.4 | 280.5 | 279.4 | 282.2 |
| 55°   | 253.5 | 252.4 | 249.7 | 248.0 | 250.2 |
| 57.5° | 224.3 | 223.8 | 221.0 | 220.5 | 221.6 |
| 60°   | 197.9 | 197.3 | 195.1 | 194.6 | 195.1 |
| 62.5° | 173.1 | 173.1 | 170.9 | 169.8 | 171.4 |
| 65°   | 149.9 | 151.0 | 148.8 | 147.7 | 149.4 |
| 67.5° | 129.0 | 130.1 | 127.9 | 126.8 | 129.0 |
| 70°   | 109.1 | 110.2 | 108.0 | 106.9 | 109.1 |
| 72.5° | 92.0  | 92.6  | 90.9  | 90.4  | 93.1  |
| 75°   | 76.6  | 76.6  | 75.5  | 75.5  | 76.6  |
| 77.5° | 62.3  | 61.7  | 61.2  | 61.2  | 60.1  |
| 80°   | 48.0  | 47.4  | 47.4  | 47.4  | 45.7  |
| 82.5° | 34.2  | 33.1  | 33.6  | 34.2  | 31.4  |
| 85°   | 20.4  | 20.4  | 20.4  | 20.9  | 18.2  |
| 87.5° | 8.3   | 8.3   | 7.7   | 8.3   | 7.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 11.8             | 13.3 | 12.2 | 13.7 | 14.0 | 11.7           | 13.2 | 12.1 | 13.6 | 13.9 |
|                 | 3H   | 13.3             | 14.6 | 13.6 | 14.9 | 15.3 | 13.2           | 14.5 | 13.5 | 14.8 | 15.2 |
|                 | 4H   | 13.8             | 15.1 | 14.2 | 15.4 | 15.8 | 13.7           | 15.0 | 14.1 | 15.3 | 15.7 |
|                 | 6H   | 14.2             | 15.4 | 14.7 | 15.8 | 16.2 | 14.1           | 15.3 | 14.5 | 15.7 | 16.1 |
|                 | 8H   | 14.4             | 15.5 | 14.8 | 15.9 | 16.3 | 14.3           | 15.4 | 14.7 | 15.8 | 16.2 |
|                 | 12H  | 14.5             | 15.5 | 14.9 | 15.9 | 16.4 | 14.3           | 15.4 | 14.8 | 15.8 | 16.2 |
| 4H              | 2H   | 12.3             | 13.6 | 12.7 | 13.9 | 14.3 | 12.2           | 13.5 | 12.6 | 13.8 | 14.2 |
|                 | 3H   | 14.0             | 15.0 | 14.4 | 15.4 | 15.8 | 13.9           | 14.9 | 14.3 | 15.3 | 15.7 |
|                 | 4H   | 14.6             | 15.6 | 15.1 | 16.0 | 16.4 | 14.6           | 15.5 | 15.0 | 15.9 | 16.4 |
|                 | 6H   | 15.2             | 16.0 | 15.7 | 16.5 | 16.9 | 15.1           | 15.9 | 15.6 | 16.4 | 16.8 |
|                 | 8H   | 15.4             | 16.2 | 15.9 | 16.6 | 17.1 | 15.3           | 16.1 | 15.8 | 16.5 | 17.0 |
|                 | 12H  | 15.5             | 16.2 | 16.0 | 16.7 | 17.2 | 15.4           | 16.1 | 15.9 | 16.6 | 17.1 |
| 8H              | 4H   | 14.9             | 15.7 | 15.4 | 16.1 | 16.6 | 14.8           | 15.6 | 15.3 | 16.0 | 16.5 |
|                 | 6H   | 15.6             | 16.2 | 16.1 | 16.7 | 17.2 | 15.5           | 16.1 | 16.0 | 16.6 | 17.1 |
|                 | 8H   | 15.8             | 16.4 | 16.4 | 16.9 | 17.4 | 15.8           | 16.3 | 16.3 | 16.8 | 17.3 |
|                 | 12H  | 16.0             | 16.6 | 16.6 | 17.0 | 17.6 | 16.0           | 16.5 | 16.5 | 16.9 | 17.5 |
| 12H             | 4H   | 14.9             | 15.6 | 15.4 | 16.1 | 16.5 | 14.8           | 15.5 | 15.3 | 16.0 | 16.5 |
|                 | 6H   | 15.6             | 16.2 | 16.2 | 16.7 | 17.2 | 15.6           | 16.1 | 16.1 | 16.6 | 17.1 |
|                 | 8H   | 15.9             | 16.4 | 16.4 | 16.9 | 17.5 | 15.9           | 16.4 | 16.4 | 16.9 | 17.4 |













(END OF REPORT)