

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: P1471755

Luminaire Tested: 24PTR-20S-PR1-L835-UNV-STD-B

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-20S-PR1-L835-UNV-STD-B  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PR1 Lens Black Recess Frame  
Light Source: -  
Ballast/Driver: -

**Summary**

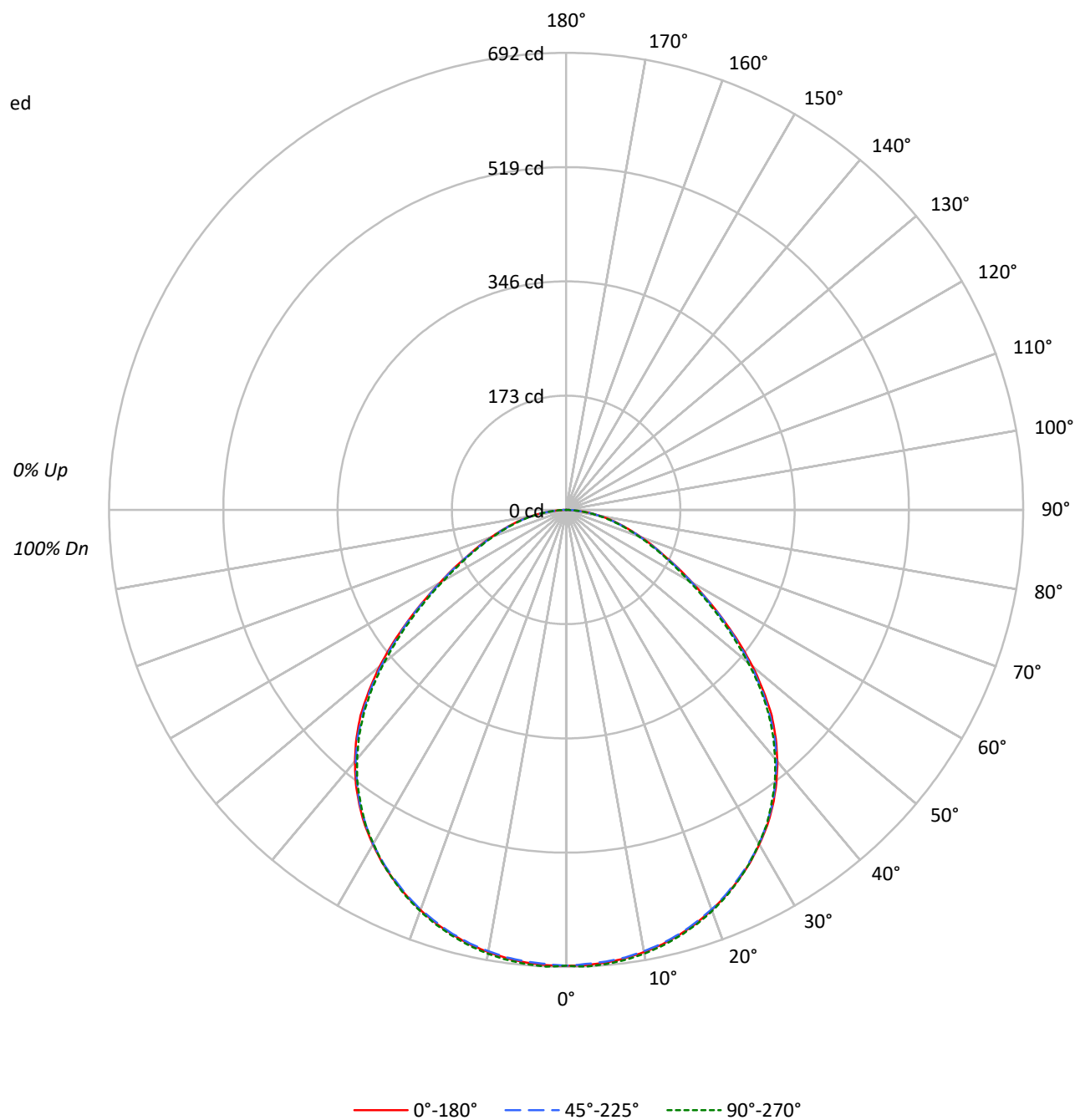
Lumens per Lamp: N/A  
Luminaire Lumens: 1745.5 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.7  
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  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  |  | 75  | 70  | 65  |  | 72  |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  |  | 61  | 54  | 49  |  | 59  |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  |  | 55  | 49  | 44  |  | 53  |
| 7   | 67  | 54  | 45  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  |  | 50  | 44  | 39  |  | 49  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  |  | 46  | 40  | 35  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  |  | 43  | 36  | 32  |  | 42  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 39  |

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

|     | 0°  | 45° | 90° |
|-----|-----|-----|-----|
| 0°  | 929 | 929 | 929 |
| 5°  | 930 | 927 | 933 |
| 10° | 929 | 927 | 932 |
| 15° | 927 | 926 | 930 |
| 20° | 923 | 922 | 926 |
| 25° | 917 | 915 | 918 |
| 30° | 909 | 908 | 907 |
| 35° | 896 | 894 | 891 |
| 40° | 874 | 870 | 864 |
| 45° | 837 | 828 | 822 |
| 50° | 771 | 762 | 752 |
| 55° | 682 | 679 | 666 |
| 60° | 593 | 590 | 575 |
| 65° | 522 | 519 | 509 |
| 70° | 474 | 467 | 458 |
| 75° | 439 | 428 | 421 |
| 80° | 401 | 395 | 382 |
| 85° | 316 | 313 | 301 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 837 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.5   | 3.8       |
| 10°-20°   | 187.9  | 10.8      |
| 20°-30°   | 284.7  | 16.3      |
| 30°-40°   | 339.8  | 19.5      |
| 40°-50°   | 334.2  | 19.1      |
| 50°-60°   | 258.3  | 14.8      |
| 60°-70°   | 162.9  | 9.3       |
| 70°-80°   | 88.1   | 5.0       |
| 80°-90°   | 24.1   | 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°    | 538.1  | 30.8      |
| 0°-40°    | 877.9  | 50.3      |
| 0°-60°    | 1470.4 | 84.2      |
| 0°-90°    | 1745.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1745.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 690 | 690   | 690 | 690   | 690 |      |
| 5°  | 688 | 688   | 687 | 690   | 690 | 65   |
| 15° | 666 | 666   | 664 | 667   | 668 | 188  |
| 25° | 618 | 618   | 616 | 618   | 618 | 285  |
| 35° | 546 | 546   | 544 | 544   | 542 | 341  |
| 45° | 440 | 438   | 435 | 432   | 432 | 337  |
| 55° | 291 | 293   | 289 | 285   | 284 | 261  |
| 65° | 164 | 164   | 163 | 160   | 160 | 165  |
| 75° | 84  | 83    | 82  | 83    | 81  | 90   |
| 85° | 20  | 21    | 20  | 20    | 20  | 24   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

TEST NUMBER: P1471755

CATALOG NUMBER: 24PTR-20S-PR1-L835-UNV-STD-B

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 690.2 | 690.2 | 690.2 | 690.2 | 690.2 |
| 2.5°  | 689.9 | 690.2 | 688.2 | 691.4 | 692.2 |
| 5°    | 688.2 | 688.5 | 686.7 | 689.6 | 690.5 |
| 7.5°  | 684.7 | 685.2 | 683.5 | 686.5 | 687.2 |
| 10°   | 679.8 | 680.3 | 678.6 | 681.6 | 682.3 |
| 12.5° | 673.7 | 673.8 | 672.4 | 675.1 | 675.8 |
| 15°   | 665.5 | 665.7 | 664.5 | 666.6 | 667.6 |
| 17.5° | 656.0 | 656.3 | 654.6 | 657.3 | 657.7 |
| 20°   | 644.7 | 644.9 | 643.9 | 646.1 | 646.4 |
| 22.5° | 632.0 | 632.6 | 631.0 | 633.0 | 633.3 |
| 25°   | 617.7 | 618.2 | 616.2 | 618.2 | 618.5 |
| 27.5° | 602.6 | 602.8 | 601.1 | 602.6 | 602.4 |
| 30°   | 585.0 | 586.6 | 584.3 | 583.8 | 583.6 |
| 32.5° | 566.8 | 567.0 | 564.8 | 564.3 | 565.3 |
| 35°   | 545.8 | 545.9 | 544.5 | 543.8 | 542.2 |
| 37.5° | 522.7 | 522.7 | 520.0 | 519.5 | 519.2 |
| 40°   | 497.5 | 497.2 | 495.5 | 493.8 | 492.0 |
| 42.5° | 470.0 | 470.5 | 467.0 | 464.1 | 463.6 |
| 45°   | 440.1 | 438.3 | 435.1 | 431.7 | 432.0 |
| 47.5° | 404.7 | 405.2 | 400.8 | 398.0 | 397.3 |
| 50°   | 368.1 | 368.1 | 363.9 | 361.0 | 359.4 |
| 52.5° | 329.8 | 330.0 | 326.1 | 322.1 | 321.3 |
| 55°   | 290.7 | 293.1 | 289.4 | 284.7 | 283.8 |
| 57.5° | 254.1 | 256.1 | 252.6 | 247.6 | 247.3 |
| 60°   | 220.2 | 220.4 | 219.4 | 214.7 | 213.5 |
| 62.5° | 191.3 | 190.0 | 189.5 | 187.0 | 185.5 |
| 65°   | 164.0 | 164.3 | 163.0 | 160.3 | 159.8 |
| 67.5° | 142.0 | 141.7 | 139.5 | 137.8 | 136.8 |
| 70°   | 120.4 | 119.7 | 118.7 | 117.3 | 116.3 |
| 72.5° | 101.2 | 101.2 | 100.4 | 99.9  | 98.2  |
| 75°   | 84.4  | 83.4  | 82.4  | 82.9  | 80.9  |
| 77.5° | 68.3  | 67.3  | 66.5  | 65.5  | 65.1  |
| 80°   | 51.7  | 50.7  | 51.0  | 49.4  | 49.3  |
| 82.5° | 35.9  | 35.9  | 35.4  | 34.2  | 34.4  |
| 85°   | 20.5  | 20.8  | 20.3  | 20.5  | 19.5  |
| 87.5° | 7.5   | 7.6   | 8.2   | 7.6   | 7.6   |
| 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 | 10.3             | 11.8 | 10.6 | 12.1 | 12.5 | 10.0           | 11.6 | 10.4 | 11.9 | 12.2 |
|                 | 3H   | 11.6             | 13.0 | 12.0 | 13.3 | 13.7 | 11.4           | 12.8 | 11.8 | 13.1 | 13.5 |
|                 | 4H   | 12.1             | 13.5 | 12.5 | 13.8 | 14.2 | 11.9           | 13.2 | 12.3 | 13.6 | 14.0 |
|                 | 6H   | 12.5             | 13.8 | 13.0 | 14.1 | 14.5 | 12.3           | 13.5 | 12.7 | 13.9 | 14.3 |
|                 | 8H   | 12.7             | 13.8 | 13.1 | 14.2 | 14.6 | 12.4           | 13.6 | 12.9 | 14.0 | 14.4 |
|                 | 12H  | 12.8             | 13.9 | 13.2 | 14.2 | 14.7 | 12.5           | 13.6 | 13.0 | 14.0 | 14.4 |
| 4H              | 2H   | 10.7             | 12.0 | 11.1 | 12.4 | 12.8 | 10.5           | 11.8 | 10.9 | 12.2 | 12.6 |
|                 | 3H   | 12.3             | 13.4 | 12.7 | 13.8 | 14.2 | 12.1           | 13.2 | 12.5 | 13.6 | 14.0 |
|                 | 4H   | 12.9             | 13.9 | 13.4 | 14.3 | 14.8 | 12.8           | 13.8 | 13.2 | 14.2 | 14.6 |
|                 | 6H   | 13.5             | 14.3 | 13.9 | 14.8 | 15.2 | 13.3           | 14.2 | 13.8 | 14.6 | 15.1 |
|                 | 8H   | 13.7             | 14.5 | 14.1 | 14.9 | 15.4 | 13.5           | 14.3 | 13.9 | 14.7 | 15.2 |
|                 | 12H  | 13.8             | 14.5 | 14.3 | 15.0 | 15.4 | 13.6           | 14.3 | 14.1 | 14.8 | 15.3 |
| 8H              | 4H   | 13.2             | 14.0 | 13.6 | 14.4 | 14.9 | 13.0           | 13.8 | 13.5 | 14.3 | 14.7 |
|                 | 6H   | 13.8             | 14.5 | 14.3 | 15.0 | 15.5 | 13.7           | 14.3 | 14.2 | 14.8 | 15.3 |
|                 | 8H   | 14.1             | 14.7 | 14.6 | 15.2 | 15.7 | 13.9           | 14.5 | 14.4 | 15.0 | 15.5 |
|                 | 12H  | 14.3             | 14.8 | 14.8 | 15.3 | 15.9 | 14.1           | 14.6 | 14.6 | 15.1 | 15.7 |
| 12H             | 4H   | 13.2             | 13.9 | 13.7 | 14.4 | 14.9 | 13.1           | 13.8 | 13.5 | 14.2 | 14.7 |
|                 | 6H   | 13.9             | 14.5 | 14.4 | 15.0 | 15.5 | 13.7           | 14.3 | 14.2 | 14.8 | 15.3 |
|                 | 8H   | 14.2             | 14.7 | 14.7 | 15.2 | 15.8 | 14.0           | 14.5 | 14.5 | 15.0 | 15.6 |













(END OF REPORT)