

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: P1471824

Luminaire Tested: 24PTR-50S-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-50S-L835-UNV-STD-W  
Description: 5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens White Recessed Frame  
Light Source: -  
Ballast/Driver: -

**Summary**

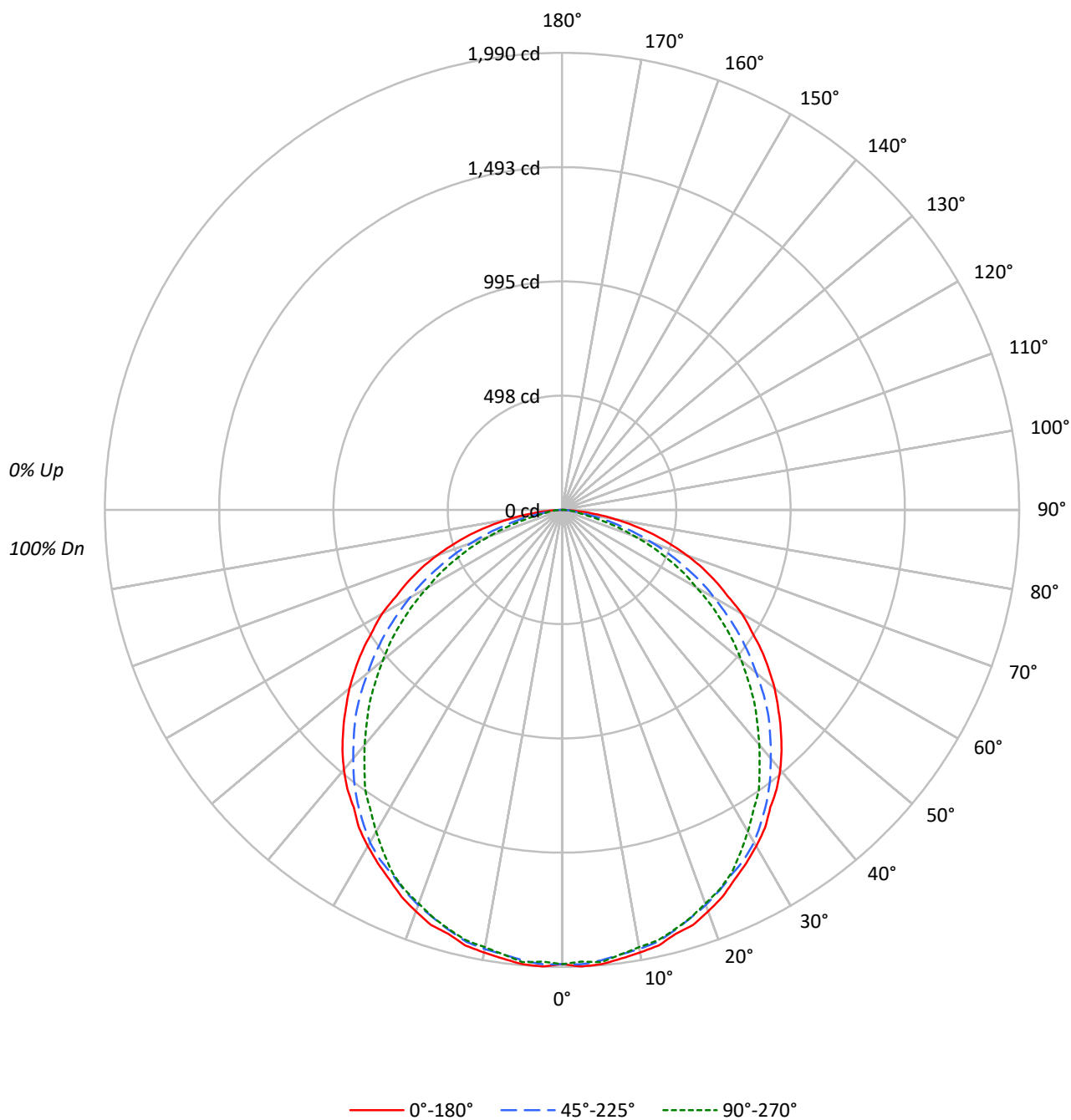
Lumens per Lamp: N/A  
Luminaire Lumens: 5268.7 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.1  
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  | 50  | 30  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 54  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 33  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 30  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 27  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2661 | 2661 | 2661 |
| 5°  | 2681 | 2659 | 2670 |
| 10° | 2673 | 2653 | 2641 |
| 15° | 2662 | 2640 | 2635 |
| 20° | 2664 | 2621 | 2611 |
| 25° | 2637 | 2599 | 2590 |
| 30° | 2626 | 2597 | 2513 |
| 35° | 2597 | 2550 | 2452 |
| 40° | 2595 | 2483 | 2346 |
| 45° | 2562 | 2419 | 2253 |
| 50° | 2528 | 2311 | 2131 |
| 55° | 2479 | 2202 | 2001 |
| 60° | 2435 | 2060 | 1816 |
| 65° | 2352 | 1890 | 1624 |
| 70° | 2275 | 1645 | 1325 |
| 75° | 2137 | 1299 | 912  |
| 80° | 1853 | 785  | 548  |
| 85° | 1237 | 563  | 528  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2562 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.5  | 3.6       |
| 10°-20°   | 536.5  | 10.2      |
| 20°-30°   | 810.4  | 15.4      |
| 30°-40°   | 963.6  | 18.3      |
| 40°-50°   | 977.3  | 18.5      |
| 50°-60°   | 848.6  | 16.1      |
| 60°-70°   | 602.4  | 11.4      |
| 70°-80°   | 287.9  | 5.5       |
| 80°-90°   | 54.6   | 1.0       |
| 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°    | 1534.4 | 29.1      |
| 0°-40°    | 2498.0 | 47.4      |
| 0°-60°    | 4323.9 | 82.1      |
| 0°-90°    | 5268.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5268.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1978 | 1978  | 1978 | 1978  | 1978 |      |
| 5°  | 1985 | 1978  | 1969 | 1973  | 1977 | 188  |
| 15° | 1911 | 1916  | 1896 | 1893  | 1892 | 541  |
| 25° | 1776 | 1774  | 1751 | 1758  | 1745 | 821  |
| 35° | 1581 | 1579  | 1553 | 1500  | 1493 | 993  |
| 45° | 1346 | 1335  | 1271 | 1204  | 1184 | 1039 |
| 55° | 1057 | 1025  | 939  | 884   | 853  | 944  |
| 65° | 739  | 683   | 594  | 530   | 510  | 732  |
| 75° | 411  | 336   | 250  | 198   | 176  | 431  |
| 85° | 80   | 42    | 36   | 35    | 34   | 101  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1978.0 | 1978.0 | 1978.0 | 1978.0 | 1978.0 |
| 2.5°  | 1989.8 | 1982.7 | 1980.3 | 1988.6 | 1968.6 |
| 5°    | 1985.1 | 1978.0 | 1968.6 | 1973.3 | 1976.8 |
| 7.5°  | 1970.9 | 1965.0 | 1952.1 | 1962.7 | 1952.1 |
| 10°   | 1956.8 | 1950.9 | 1941.5 | 1945.0 | 1933.2 |
| 12.5° | 1942.6 | 1928.5 | 1926.2 | 1928.5 | 1920.3 |
| 15°   | 1910.8 | 1915.5 | 1895.5 | 1893.2 | 1892.0 |
| 17.5° | 1895.5 | 1883.7 | 1862.5 | 1863.7 | 1861.4 |
| 20°   | 1860.2 | 1846.0 | 1830.7 | 1828.4 | 1823.7 |
| 22.5° | 1823.7 | 1807.2 | 1793.0 | 1800.1 | 1789.5 |
| 25°   | 1776.5 | 1774.2 | 1750.6 | 1757.7 | 1744.7 |
| 27.5° | 1735.3 | 1727.1 | 1716.5 | 1701.1 | 1682.3 |
| 30°   | 1690.5 | 1682.3 | 1671.7 | 1631.6 | 1617.5 |
| 32.5° | 1643.4 | 1634.0 | 1612.8 | 1565.7 | 1550.3 |
| 35°   | 1581.0 | 1578.6 | 1552.7 | 1499.7 | 1492.6 |
| 37.5° | 1533.9 | 1507.9 | 1486.7 | 1432.5 | 1412.5 |
| 40°   | 1477.3 | 1463.2 | 1413.7 | 1361.9 | 1335.9 |
| 42.5° | 1414.9 | 1398.4 | 1341.8 | 1286.5 | 1258.2 |
| 45°   | 1346.5 | 1334.8 | 1271.1 | 1204.0 | 1184.0 |
| 47.5° | 1275.9 | 1265.3 | 1189.9 | 1125.1 | 1099.1 |
| 50°   | 1207.5 | 1194.6 | 1103.9 | 1041.4 | 1017.9 |
| 52.5° | 1133.3 | 1112.1 | 1022.6 | 961.3  | 938.9  |
| 55°   | 1056.7 | 1024.9 | 938.9  | 883.6  | 852.9  |
| 57.5° | 975.4  | 946.0  | 850.6  | 792.8  | 768.1  |
| 60°   | 904.8  | 863.5  | 765.7  | 706.8  | 675.0  |
| 62.5° | 814.0  | 778.7  | 685.6  | 616.1  | 600.8  |
| 65°   | 738.7  | 683.3  | 593.7  | 530.1  | 510.1  |
| 67.5° | 662.1  | 597.3  | 506.6  | 441.8  | 431.2  |
| 70°   | 578.4  | 511.3  | 418.2  | 354.6  | 336.9  |
| 72.5° | 493.6  | 427.6  | 336.9  | 269.8  | 259.2  |
| 75°   | 411.1  | 335.8  | 249.8  | 197.9  | 175.5  |
| 77.5° | 321.6  | 253.3  | 175.5  | 121.3  | 107.2  |
| 80°   | 239.1  | 170.8  | 101.3  | 71.9   | 70.7   |
| 82.5° | 156.7  | 99.0   | 54.2   | 55.4   | 53.0   |
| 85°   | 80.1   | 42.4   | 36.5   | 35.3   | 34.2   |
| 87.5° | 15.3   | 16.5   | 17.7   | 17.7   | 17.7   |
| 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 | 15.5             | 17.1 | 15.9 | 17.5 | 17.8 | 14.2           | 15.8 | 14.6 | 16.1 | 16.5 |
|                 | 3H   | 17.4             | 18.8 | 17.7 | 19.1 | 19.5 | 15.5           | 16.9 | 15.9 | 17.3 | 17.6 |
|                 | 4H   | 18.1             | 19.4 | 18.5 | 19.8 | 20.1 | 15.8           | 17.1 | 16.2 | 17.5 | 17.9 |
|                 | 6H   | 18.5             | 19.8 | 19.0 | 20.2 | 20.6 | 15.9           | 17.1 | 16.3 | 17.5 | 17.9 |
|                 | 8H   | 18.7             | 19.9 | 19.1 | 20.3 | 20.7 | 15.9           | 17.1 | 16.3 | 17.5 | 17.9 |
|                 | 12H  | 18.7             | 19.9 | 19.2 | 20.3 | 20.7 | 15.9           | 17.0 | 16.3 | 17.4 | 17.8 |
| 4H              | 2H   | 16.0             | 17.3 | 16.4 | 17.7 | 18.0 | 14.9           | 16.2 | 15.3 | 16.6 | 17.0 |
|                 | 3H   | 18.0             | 19.1 | 18.4 | 19.5 | 19.9 | 16.3           | 17.5 | 16.7 | 17.9 | 18.3 |
|                 | 4H   | 18.8             | 19.8 | 19.2 | 20.2 | 20.6 | 16.7           | 17.7 | 17.1 | 18.1 | 18.6 |
|                 | 6H   | 19.4             | 20.2 | 19.8 | 20.7 | 21.1 | 16.8           | 17.7 | 17.3 | 18.1 | 18.6 |
|                 | 8H   | 19.5             | 20.4 | 20.0 | 20.8 | 21.3 | 16.8           | 17.7 | 17.3 | 18.1 | 18.6 |
|                 | 12H  | 19.6             | 20.4 | 20.1 | 20.8 | 21.3 | 16.9           | 17.6 | 17.3 | 18.1 | 18.5 |
| 8H              | 4H   | 18.9             | 19.7 | 19.3 | 20.1 | 20.6 | 17.0           | 17.8 | 17.4 | 18.2 | 18.7 |
|                 | 6H   | 19.5             | 20.2 | 20.0 | 20.7 | 21.2 | 17.1           | 17.8 | 17.6 | 18.3 | 18.8 |
|                 | 8H   | 19.7             | 20.3 | 20.2 | 20.8 | 21.3 | 17.1           | 17.8 | 17.7 | 18.3 | 18.8 |
|                 | 12H  | 19.8             | 20.4 | 20.4 | 20.9 | 21.4 | 17.2           | 17.7 | 17.7 | 18.2 | 18.8 |
| 12H             | 4H   | 18.9             | 19.6 | 19.3 | 20.1 | 20.5 | 17.0           | 17.7 | 17.5 | 18.2 | 18.7 |
|                 | 6H   | 19.5             | 20.1 | 20.0 | 20.6 | 21.1 | 17.1           | 17.8 | 17.7 | 18.2 | 18.8 |
|                 | 8H   | 19.7             | 20.3 | 20.2 | 20.7 | 21.3 | 17.2           | 17.7 | 17.7 | 18.2 | 18.8 |













(END OF REPORT)