Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1471838

Luminaire Tested: 24PTR-50S-PW1-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

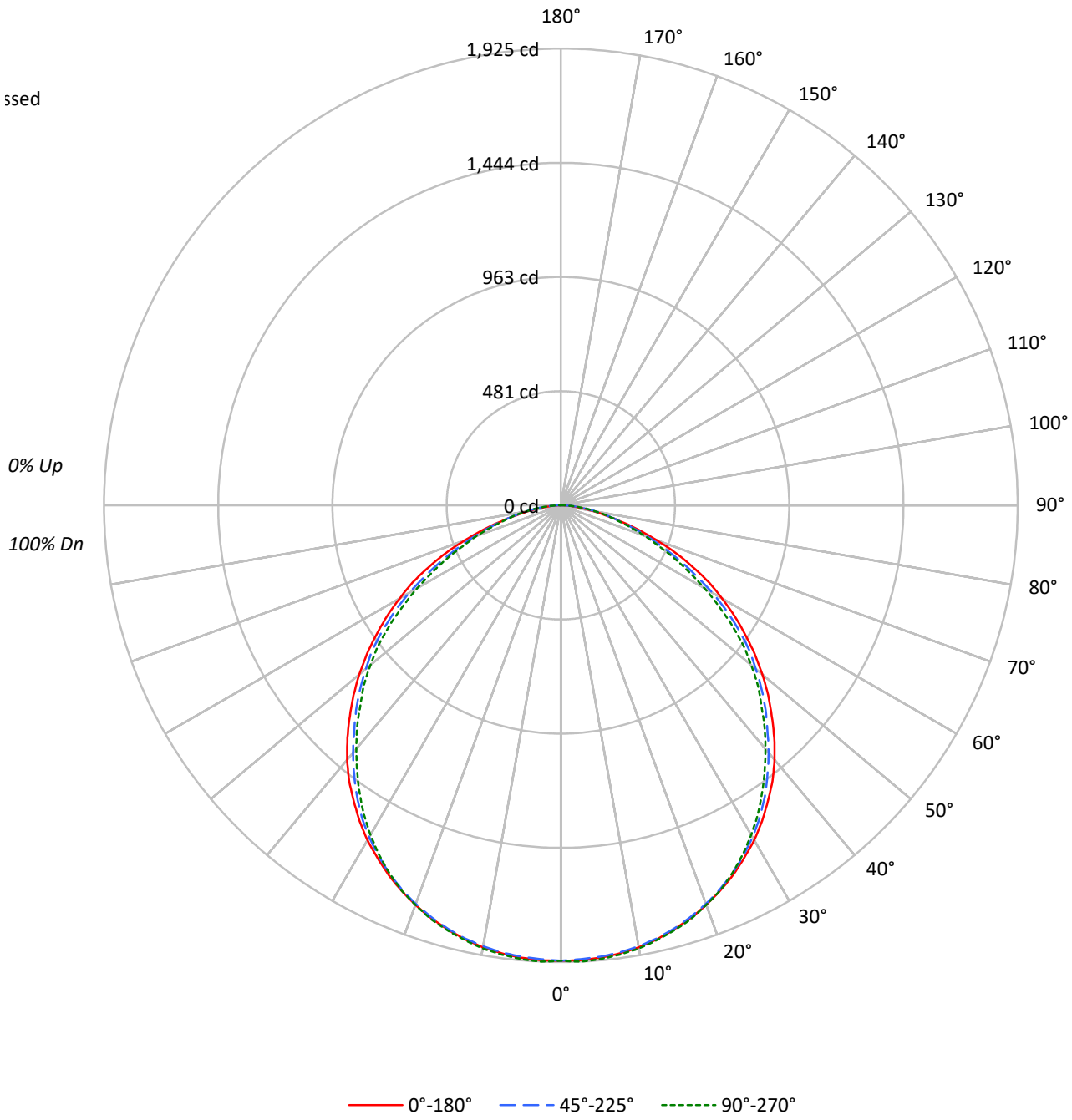
| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1471838 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 6/22/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | CORELITE |
| Catalog Number: | 24PTR-50S-PW1-L835-UNV-STD-W |
| Description: | 5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens White Rece Frame |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5094.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 115.5 lumens/watt |
| Spacing Criteria (0/90/45): | 1.26 / 1.24 / 1.34 |
| 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 |

TEST NUMBER: P1471838
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-W

## Luminous Intensity Polar Plot



TEST NUMBER: P1471838
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-W

## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 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° | 2583 | 2583 | 2583 |
| 5° | 2585 | 2580 | 2593 |
| 10° | 2584 | 2578 | 2591 |
| 15° | 2576 | 2572 | 2582 |
| 20° | 2566 | 2560 | 2566 |
| 25° | 2551 | 2541 | 2539 |
| 30° | 2532 | 2510 | 2492 |
| 35° | 2498 | 2460 | 2429 |
| 40° | 2460 | 2393 | 2355 |
| 45° | 2392 | 2321 | 2274 |
| 50° | 2319 | 2244 | 2192 |
| 55° | 2223 | 2148 | 2062 |
| 60° | 2108 | 1983 | 1879 |
| 65° | 1949 | 1771 | 1683 |
| 70° | 1690 | 1542 | 1483 |
| 75° | 1349 | 1319 | 1283 |
| 80° | 1025 | 1146 | 1146 |
| 85° | 758 | 977 | 977 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2392 cd/sqm

TEST NUMBER: P1471838
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-W

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 182.1 | 3.6 |
| 10°-20° | 522.2 | 10.2 |
| 20°-30° | 789.2 | 15.5 |
| 30°-40° | 937.1 | 18.4 |
| 40°-50° | 944.1 | 18.5 |
| 50°-60° | 816.1 | 16.0 |
| 60°-70° | 557.8 | 10.9 |
| 70°-80° | 275.0 | 5.4 |
| 80°-90° | 71.1 | 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° | 1493.5 | 29.3 |
| 0°-40° | 2430.5 | 47.7 |
| 0°-60° | 4190.7 | 82.3 |
| 0°-90° | 5094.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5094.6 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 1920 | 1920 | 1920 | 1920 | 1920 | |
| 5° | 1914 | 1915 | 1910 | 1918 | 1920 | 182 |
| 15° | 1849 | 1852 | 1847 | 1853 | 1854 | 522 |
| 25° | 1719 | 1717 | 1711 | 1713 | 1710 | 792 |
| 35° | 1521 | 1516 | 1498 | 1484 | 1479 | 952 |
| 45° | 1257 | 1243 | 1220 | 1206 | 1195 | 970 |
| 55° | 948 | 945 | 916 | 888 | 879 | 847 |
| 65° | 612 | 590 | 556 | 532 | 529 | 605 |
| 75° | 260 | 257 | 254 | 254 | 247 | 283 |
| 85° | 49 | 58 | 63 | 65 | 63 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P1471838
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-W

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | 1919.7 | 1919.7 | 1919.7 | 1919.7 | *1919.7* |
| 2.5° | *1919.2* | *1919.7* | *1914.8* | *1923.4* | *1925.4* |
| 5° | 1914.1 | 1914.8 | 1909.9 | 1917.7 | *1919.7* |
| 7.5° | 1905.0 | 1906.3 | 1900.6 | 1908.4 | *1909.9* |
| 10° | 1891.3 | 1892.1 | 1887.2 | 1894.9 | *1896.5* |
| 12.5° | 1873.0 | 1873.5 | 1869.3 | 1876.3 | *1876.3* |
| 15° | 1849.4 | 1851.5 | 1846.6 | 1853.1 | *1853.6* |
| 17.5° | 1823.1 | 1823.8 | 1818.9 | 1825.9 | *1827.5* |
| 20° | 1791.8 | 1791.8 | 1787.7 | 1793.3 | *1791.8* |
| 22.5° | 1756.9 | 1756.9 | 1752.0 | 1754.8 | *1756.1* |
| 25° | 1718.6 | 1717.1 | 1711.4 | 1713.0 | *1710.1* |
| 27.5° | 1674.4 | 1674.4 | 1664.4 | 1664.4 | *1659.4* |
| 30° | 1629.7 | 1626.1 | 1615.5 | 1609.0 | *1604.1* |
| 32.5° | 1578.3 | 1573.4 | 1559.9 | 1548.6 | *1544.9* |
| 35° | 1520.9 | 1515.7 | 1497.9 | 1484.5 | *1478.8* |
| 37.5° | 1465.3 | 1454.0 | 1430.4 | 1417.0 | *1410.5* |
| 40° | 1400.5 | 1386.2 | 1362.2 | 1343.6 | *1340.7* |
| 42.5° | 1330.9 | 1319.5 | 1288.3 | 1274.6 | *1271.2* |
| 45° | 1257.0 | 1243.3 | 1219.8 | 1205.6 | *1195.0* |
| 47.5° | 1184.4 | 1174.3 | 1147.4 | 1130.3 | *1126.7* |
| 50° | 1108.1 | 1099.6 | 1071.9 | 1053.6 | *1047.1* |
| 52.5° | 1029.3 | 1023.6 | 1000.1 | 976.5 | *968.8* |
| 55° | 947.6 | 944.7 | 915.5 | 888.4 | *879.1* |
| 57.5° | 867.2 | 863.6 | 827.1 | 795.9 | *787.3* |
| 60° | 783.2 | 772.6 | 736.9 | 707.7 | *698.4* |
| 62.5° | 703.6 | 680.8 | 642.3 | 619.6 | *609.0* |
| 65° | 612.3 | 590.4 | 556.3 | 532.0 | *528.6* |
| 67.5° | 522.9 | 496.5 | 470.2 | 455.2 | *443.8* |
| 70° | 429.6 | 411.8 | 391.9 | 379.2 | *377.1* |
| 72.5° | 342.7 | 330.1 | 320.0 | 312.2 | *305.8* |
| 75° | 259.5 | 257.4 | 253.8 | 253.8 | *246.8* |
| 77.5° | 190.8 | 195.7 | 198.5 | 197.7 | *199.3* |
| 80° | 132.3 | 142.2 | 147.9 | 148.6 | *147.9* |
| 82.5° | 84.0 | 95.4 | 104.7 | 106.0 | *107.5* |
| 85° | 49.1 | 57.6 | 63.3 | 64.6 | *63.3* |
| 87.5° | 22.0 | 27.7 | 29.2 | 30.5 | *29.2* |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* |

TEST NUMBER: P1471838
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-W

**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 | 15.0 | 16.6 | 15.3 | 16.9 | 17.2 | 14.4 | 16.0 | 14.8 | 16.3 | 16.6 |
| | 3H | 16.4 | 17.9 | 16.8 | 18.2 | 18.6 | 15.8 | 17.2 | 16.2 | 17.5 | 17.9 |
| | 4H | 16.9 | 18.2 | 17.3 | 18.6 | 19.0 | 16.3 | 17.6 | 16.7 | 18.0 | 18.3 |
| | 6H | 17.1 | 18.4 | 17.6 | 18.8 | 19.2 | 16.6 | 17.9 | 17.0 | 18.2 | 18.6 |
| | 8H | 17.2 | 18.4 | 17.6 | 18.8 | 19.2 | 16.7 | 17.9 | 17.2 | 18.3 | 18.7 |
| | 12H | 17.2 | 18.4 | 17.7 | 18.8 | 19.2 | 16.8 | 17.9 | 17.2 | 18.3 | 18.8 |
| 4H | 2H | 15.4 | 16.8 | 15.8 | 17.1 | 17.5 | 15.0 | 16.3 | 15.4 | 16.7 | 17.0 |
| | 3H | 17.1 | 18.2 | 17.5 | 18.6 | 19.0 | 16.5 | 17.7 | 16.9 | 18.1 | 18.5 |
| | 4H | 17.6 | 18.7 | 18.1 | 19.1 | 19.5 | 17.1 | 18.1 | 17.6 | 18.6 | 19.0 |
| | 6H | 18.0 | 18.9 | 18.5 | 19.3 | 19.8 | 17.6 | 18.5 | 18.1 | 18.9 | 19.4 |
| | 8H | 18.1 | 18.9 | 18.6 | 19.4 | 19.8 | 17.8 | 18.6 | 18.2 | 19.0 | 19.5 |
| | 12H | 18.2 | 18.9 | 18.6 | 19.4 | 19.8 | 17.9 | 18.6 | 18.4 | 19.1 | 19.6 |
| 8H | 4H | 17.8 | 18.7 | 18.3 | 19.1 | 19.6 | 17.4 | 18.2 | 17.8 | 18.6 | 19.1 |
| | 6H | 18.3 | 19.0 | 18.8 | 19.5 | 19.9 | 17.9 | 18.6 | 18.4 | 19.1 | 19.6 |
| | 8H | 18.4 | 19.0 | 18.9 | 19.6 | 20.0 | 18.2 | 18.8 | 18.7 | 19.3 | 19.8 |
| | 12H | 18.5 | 19.1 | 19.0 | 19.6 | 20.1 | 18.3 | 18.9 | 18.9 | 19.4 | 19.9 |
| 12H | 4H | 17.8 | 18.6 | 18.3 | 19.1 | 19.5 | 17.4 | 18.1 | 17.9 | 18.6 | 19.1 |
| | 6H | 18.3 | 18.9 | 18.8 | 19.4 | 19.9 | 18.0 | 18.6 | 18.5 | 19.1 | 19.6 |
| | 8H | 18.5 | 19.0 | 19.0 | 19.5 | 20.1 | 18.2 | 18.8 | 18.8 | 19.3 | 19.8 |

(END OF REPORT)