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: P1471784

Luminaire Tested: 24PTR-35S-PLG-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1471784 |
| | 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: | 24PTR-35S-PLG-L835-UNV-STD-W |
| Description: | 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens White Reces Frame |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 2870.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 101.1 lumens/watt |
| Spacing Criteria (0/90/45): | 1.22 / 1.22 / 1.26 |
| Luminous Opening: | Rectangular (W 2' x L: 4' x H: 0') |
| CIE Type: | Direct |
| | |
| Input Watts (W): | 28.4 |
| 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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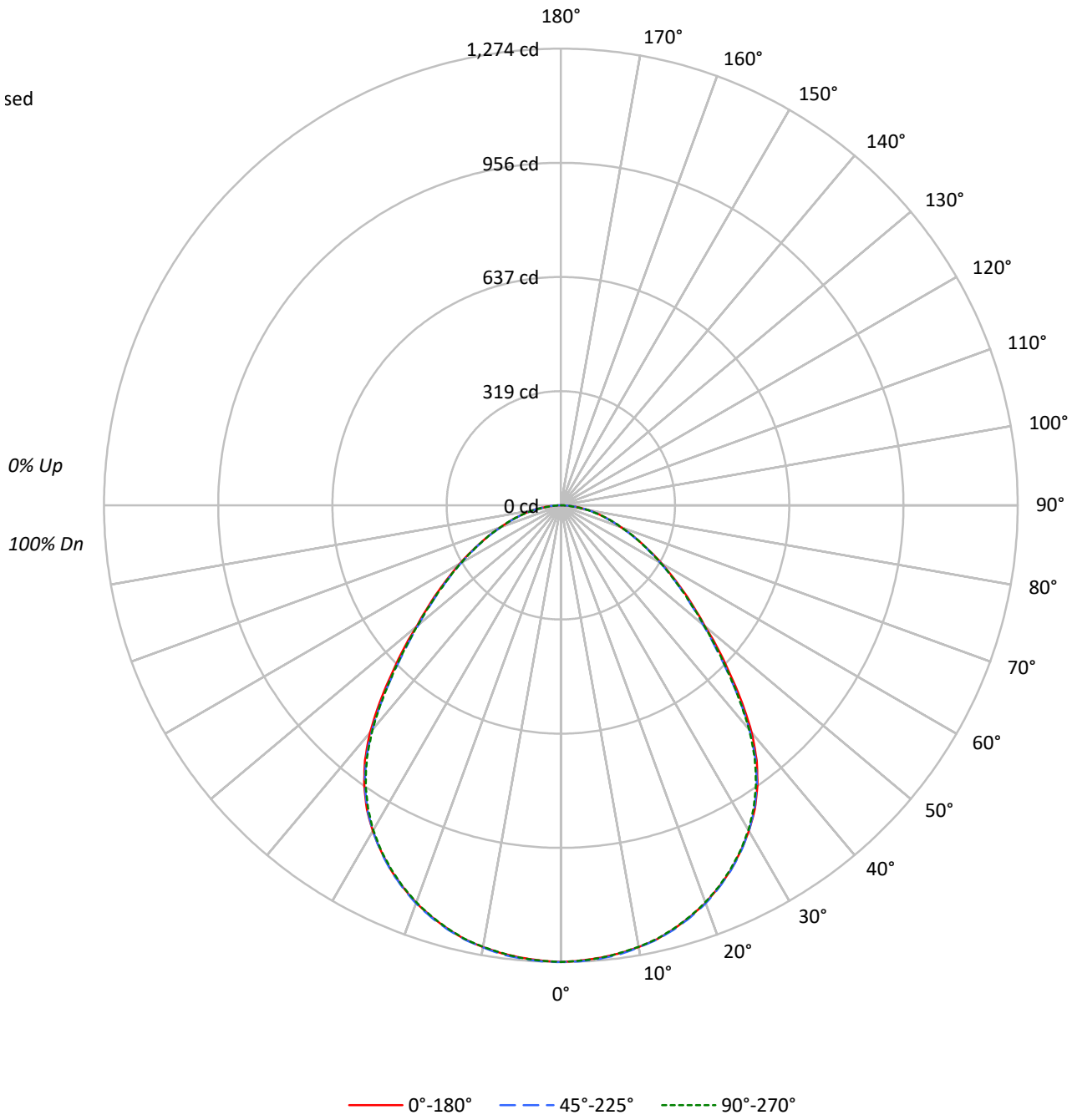
## Luminous Intensity Polar Plot



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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 87 | 82 | 99 | 92 | 86 | 81 | 88 | 84 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 91 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 |
| 4 | 86 | 75 | 67 | 60 | 84 | 73 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 56 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 58 | 51 | 46 | 57 | 51 | 46 | 55 | 50 | 45 | 43 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 38 | 62 | 51 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | 29 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 1714 | 1714 | 1714 |
| 5° | 1711 | 1714 | 1712 |
| 10° | 1710 | 1711 | 1708 |
| 15° | 1703 | 1705 | 1701 |
| 20° | 1689 | 1692 | 1687 |
| 25° | 1666 | 1667 | 1662 |
| 30° | 1629 | 1629 | 1625 |
| 35° | 1570 | 1565 | 1558 |
| 40° | 1455 | 1439 | 1434 |
| 45° | 1271 | 1251 | 1256 |
| 50° | 1098 | 1084 | 1090 |
| 55° | 976 | 961 | 963 |
| 60° | 873 | 861 | 861 |
| 65° | 783 | 777 | 780 |
| 70° | 704 | 697 | 704 |
| 75° | 653 | 644 | 653 |
| 80° | 610 | 603 | 581 |
| 85° | 517 | 517 | 460 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1271 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 120.6 | 4.2 |
| 10°-20° | 345.1 | 12.0 |
| 20°-30° | 516.4 | 18.0 |
| 30°-40° | 591.7 | 20.6 |
| 40°-50° | 511.7 | 17.8 |
| 50°-60° | 370.3 | 12.9 |
| 60°-70° | 243.9 | 8.5 |
| 70°-80° | 132.8 | 4.6 |
| 80°-90° | 38.1 | 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° | 982.1 | 34.2 |
| 0°-40° | 1573.8 | 54.8 |
| 0°-60° | 2455.8 | 85.5 |
| 0°-90° | 2870.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2870.7 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 1274 | 1274 | 1274 | 1274 | 1274 | |
| 5° | 1267 | 1269 | 1269 | 1269 | 1268 | 120 |
| 15° | 1222 | 1223 | 1224 | 1226 | 1222 | 345 |
| 25° | 1122 | 1122 | 1123 | 1124 | 1119 | 516 |
| 35° | 956 | 955 | 953 | 952 | 948 | 594 |
| 45° | 668 | 666 | 657 | 656 | 660 | 517 |
| 55° | 416 | 414 | 410 | 407 | 410 | 374 |
| 65° | 246 | 248 | 244 | 242 | 245 | 246 |
| 75° | 126 | 126 | 124 | 124 | 126 | 134 |
| 85° | 34 | 34 | 34 | 34 | 30 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | *1273.9* | *1273.9* | *1273.9* | *1273.9* | *1273.9* |
| 2.5° | *1271.2* | 1273.9 | 1273.0 | 1273.9 | 1271.2 |
| 5° | *1266.7* | 1269.4 | 1269.4 | 1269.4 | 1267.6 |
| 7.5° | *1260.4* | 1262.2 | 1263.1 | 1264.0 | 1259.5 |
| 10° | *1251.3* | 1253.2 | 1252.2 | 1254.1 | 1250.4 |
| 12.5° | *1239.6* | 1239.6 | 1240.5 | 1242.3 | 1238.7 |
| 15° | *1222.4* | 1223.3 | 1224.2 | 1226.0 | 1221.5 |
| 17.5° | *1202.5* | 1203.4 | 1204.3 | 1205.2 | 1201.6 |
| 20° | *1179.9* | 1179.9 | 1181.7 | 1182.6 | 1178.1 |
| 22.5° | *1151.9* | 1151.9 | 1153.7 | 1156.4 | 1151.0 |
| 25° | *1122.1* | 1122.1 | 1123.0 | 1123.9 | 1119.3 |
| 27.5° | *1086.8* | 1086.8 | 1087.7 | 1090.4 | 1085.0 |
| 30° | *1048.8* | 1047.9 | 1048.8 | 1049.7 | 1046.1 |
| 32.5° | *1006.3* | 1005.4 | 1004.5 | 1005.4 | 1000.9 |
| 35° | *955.7* | 954.8 | 953.0 | 952.1 | 948.5 |
| 37.5° | *896.9* | 895.1 | 891.5 | 891.5 | 887.9 |
| 40° | *828.2* | 823.7 | 819.2 | 817.4 | 816.4 |
| 42.5° | *748.6* | 745.0 | 738.7 | 737.8 | 737.8 |
| 45° | *668.2* | 666.4 | 657.3 | 656.4 | 660.0 |
| 47.5° | *595.8* | 591.3 | 583.2 | 581.4 | 586.8 |
| 50° | *524.4* | 525.3 | 518.1 | 515.4 | 520.8 |
| 52.5° | *468.4* | 466.5 | 460.2 | 458.4 | 462.9 |
| 55° | *415.9* | 414.1 | 409.6 | 406.9 | 410.5 |
| 57.5° | *368.0* | 367.1 | 362.6 | 361.7 | 363.5 |
| 60° | *324.6* | 323.7 | 320.1 | 319.2 | 320.1 |
| 62.5° | *283.9* | 283.9 | 280.3 | 278.5 | 281.2 |
| 65° | *245.9* | 247.7 | 244.1 | 242.3 | 245.0 |
| 67.5° | *211.6* | 213.4 | 209.8 | 208.0 | 211.6 |
| 70° | *179.0* | 180.8 | 177.2 | 175.4 | 179.0 |
| 72.5° | *151.0* | 151.9 | 149.2 | 148.3 | 152.8 |
| 75° | *125.7* | 125.7 | 123.9 | 123.9 | 125.7 |
| 77.5° | *102.2* | 101.3 | 100.4 | 100.4 | 98.6 |
| 80° | *78.7* | 77.8 | 77.8 | 77.8 | 75.0 |
| 82.5° | *56.1* | 54.2 | 55.2 | 56.1 | 51.5 |
| 85° | *33.5* | 33.5 | 33.5 | 34.4 | 29.8 |
| 87.5° | *13.6* | 13.6 | 12.7 | 13.6 | 11.8 |
| 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 | 11.1 | 12.6 | 11.5 | 13.0 | 13.3 | 11.0 | 12.5 | 11.4 | 12.9 | 13.2 |
| | 3H | 12.6 | 13.9 | 13.0 | 14.3 | 14.6 | 12.5 | 13.8 | 12.9 | 14.2 | 14.5 |
| | 4H | 13.1 | 14.4 | 13.5 | 14.7 | 15.1 | 13.0 | 14.3 | 13.4 | 14.7 | 15.0 |
| | 6H | 13.6 | 14.7 | 14.0 | 15.1 | 15.5 | 13.4 | 14.6 | 13.9 | 15.0 | 15.4 |
| | 8H | 13.7 | 14.8 | 14.1 | 15.2 | 15.6 | 13.6 | 14.7 | 14.0 | 15.1 | 15.5 |
| | 12H | 13.8 | 14.9 | 14.2 | 15.2 | 15.7 | 13.7 | 14.7 | 14.1 | 15.1 | 15.5 |
| 4H | 2H | 11.6 | 12.9 | 12.0 | 13.2 | 13.6 | 11.5 | 12.8 | 11.9 | 13.2 | 13.5 |
| | 3H | 13.3 | 14.3 | 13.7 | 14.7 | 15.1 | 13.2 | 14.2 | 13.6 | 14.6 | 15.0 |
| | 4H | 14.0 | 14.9 | 14.4 | 15.3 | 15.8 | 13.9 | 14.8 | 14.3 | 15.2 | 15.7 |
| | 6H | 14.5 | 15.3 | 15.0 | 15.8 | 16.2 | 14.4 | 15.2 | 14.9 | 15.7 | 16.2 |
| | 8H | 14.7 | 15.5 | 15.2 | 15.9 | 16.4 | 14.6 | 15.4 | 15.1 | 15.8 | 16.3 |
| | 12H | 14.8 | 15.5 | 15.3 | 16.0 | 16.5 | 14.7 | 15.4 | 15.2 | 15.9 | 16.4 |
| 8H | 4H | 14.2 | 15.0 | 14.7 | 15.4 | 15.9 | 14.1 | 14.9 | 14.6 | 15.3 | 15.8 |
| | 6H | 14.9 | 15.5 | 15.4 | 16.0 | 16.5 | 14.8 | 15.4 | 15.3 | 15.9 | 16.4 |
| | 8H | 15.2 | 15.7 | 15.7 | 16.2 | 16.7 | 15.1 | 15.6 | 15.6 | 16.1 | 16.6 |
| | 12H | 15.4 | 15.9 | 15.9 | 16.4 | 16.9 | 15.3 | 15.8 | 15.8 | 16.3 | 16.8 |
| 12H | 4H | 14.2 | 14.9 | 14.7 | 15.4 | 15.9 | 14.2 | 14.8 | 14.6 | 15.3 | 15.8 |
| | 6H | 14.9 | 15.5 | 15.5 | 16.0 | 16.5 | 14.9 | 15.4 | 15.4 | 15.9 | 16.4 |
| | 8H | 15.3 | 15.8 | 15.8 | 16.3 | 16.8 | 15.2 | 15.7 | 15.7 | 16.2 | 16.7 |

(END OF REPORT)