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: P1471778

Luminaire Tested: 24PTR-35S-PB1-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1471778 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 6/22/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | CORELITE |
| Catalog Number: | 24PTR-35S-PB1-L835-UNV-STD-W |
| Description: | 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens White Reces Frame |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3370.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 118.7 lumens/watt |
| Spacing Criteria (0/90/45): | 1.26 / 1.25 / 1.34 |
| 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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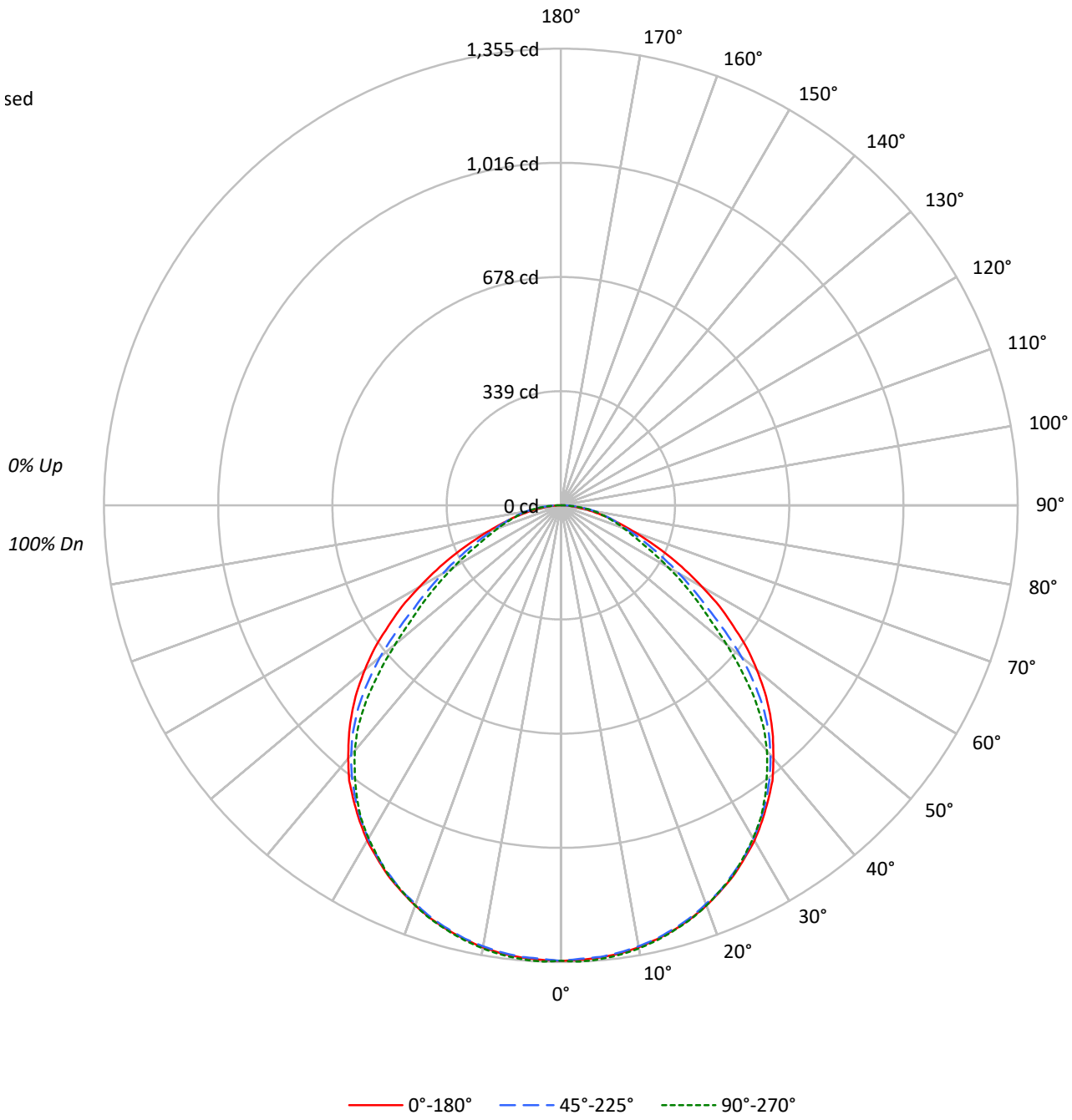
## Luminous Intensity Polar Plot



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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 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 89 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 1818 | 1818 | 1818 |
| 5° | 1818 | 1816 | 1825 |
| 10° | 1819 | 1815 | 1824 |
| 15° | 1815 | 1811 | 1818 |
| 20° | 1809 | 1802 | 1809 |
| 25° | 1799 | 1792 | 1796 |
| 30° | 1785 | 1774 | 1772 |
| 35° | 1758 | 1745 | 1734 |
| 40° | 1723 | 1700 | 1670 |
| 45° | 1670 | 1616 | 1550 |
| 50° | 1587 | 1465 | 1340 |
| 55° | 1462 | 1244 | 1154 |
| 60° | 1302 | 1087 | 989 |
| 65° | 1117 | 942 | 842 |
| 70° | 922 | 831 | 772 |
| 75° | 778 | 795 | 752 |
| 80° | 657 | 811 | 773 |
| 85° | 514 | 821 | 719 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1670 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 128.1 | 3.8 |
| 10°-20° | 367.7 | 10.9 |
| 20°-30° | 557.0 | 16.5 |
| 30°-40° | 663.7 | 19.7 |
| 40°-50° | 649.0 | 19.3 |
| 50°-60° | 490.9 | 14.6 |
| 60°-70° | 301.6 | 8.9 |
| 70°-80° | 160.7 | 4.8 |
| 80°-90° | 51.3 | 1.5 |
| 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° | 1052.8 | 31.2 |
| 0°-40° | 1716.5 | 50.9 |
| 0°-60° | 2856.5 | 84.8 |
| 0°-90° | 3370.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3370.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 1352 | 1352 | 1352 | 1352 | 1352 | |
| 5° | 1346 | 1348 | 1345 | 1350 | 1352 | 128 |
| 15° | 1303 | 1305 | 1300 | 1305 | 1305 | 368 |
| 25° | 1212 | 1210 | 1207 | 1209 | 1210 | 558 |
| 35° | 1070 | 1069 | 1062 | 1057 | 1056 | 670 |
| 45° | 878 | 873 | 849 | 821 | 814 | 675 |
| 55° | 623 | 592 | 530 | 500 | 492 | 558 |
| 65° | 351 | 322 | 296 | 273 | 264 | 349 |
| 75° | 150 | 151 | 153 | 148 | 145 | 160 |
| 85° | 33 | 43 | 53 | 50 | 47 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P1471778
CATALOG NUMBER: 24PTR-35S-PB1-L835-UNV-STD-W

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | 1351.5 | 1351.5 | 1351.5 | 1351.5 | *1351.5* |
| 2.5° | *1349.9* | *1351.5* | *1346.4* | *1353.3* | *1354.8* |
| 5° | 1346.4 | 1348.2 | 1344.9 | 1349.9 | *1351.5* |
| 7.5° | 1341.6 | 1341.6 | 1338.2 | 1343.1 | *1344.9* |
| 10° | 1331.6 | 1331.6 | 1328.3 | 1333.2 | *1334.9* |
| 12.5° | 1318.3 | 1318.3 | 1316.6 | 1319.9 | *1321.7* |
| 15° | 1303.3 | 1304.9 | 1300.0 | 1304.9 | *1304.9* |
| 17.5° | 1285.0 | 1283.4 | 1281.7 | 1285.0 | *1286.8* |
| 20° | 1263.4 | 1263.4 | 1258.5 | 1261.8 | *1263.4* |
| 22.5° | 1238.4 | 1238.4 | 1236.8 | 1238.4 | *1236.8* |
| 25° | 1211.9 | 1210.1 | 1206.8 | 1208.6 | *1210.1* |
| 27.5° | 1180.3 | 1180.3 | 1177.0 | 1177.0 | *1175.2* |
| 30° | 1148.7 | 1147.0 | 1142.1 | 1138.8 | *1140.3* |
| 32.5° | 1110.5 | 1108.7 | 1103.9 | 1100.5 | *1102.1* |
| 35° | 1070.5 | 1069.0 | 1062.3 | 1057.3 | *1055.7* |
| 37.5° | 1030.7 | 1025.7 | 1017.3 | 1010.7 | *1004.0* |
| 40° | 980.8 | 975.8 | 967.6 | 952.5 | *950.8* |
| 42.5° | 930.9 | 926.0 | 912.6 | 894.4 | *889.4* |
| 45° | 877.7 | 872.8 | 849.4 | 821.1 | *814.5* |
| 47.5° | 821.1 | 812.9 | 776.3 | 741.4 | *728.1* |
| 50° | 758.1 | 743.1 | 699.8 | 655.0 | *640.0* |
| 52.5° | 696.5 | 670.0 | 613.4 | 573.5 | *558.6* |
| 55° | 623.4 | 591.8 | 530.4 | 500.4 | *492.0* |
| 57.5° | 558.6 | 515.4 | 465.5 | 435.6 | *429.0* |
| 60° | 483.8 | 443.8 | 404.0 | 377.3 | *367.4* |
| 62.5° | 415.5 | 380.6 | 347.5 | 324.1 | *312.6* |
| 65° | 350.8 | 322.5 | 296.0 | 272.6 | *264.4* |
| 67.5° | 287.6 | 272.6 | 251.0 | 232.8 | *227.8* |
| 70° | 234.4 | 226.0 | 211.2 | 202.8 | *196.2* |
| 72.5° | 186.2 | 189.5 | 179.6 | 176.3 | *171.2* |
| 75° | 149.6 | 151.3 | 152.9 | 148.0 | *144.7* |
| 77.5° | 113.1 | 121.3 | 127.9 | 124.6 | *121.3* |
| 80° | 84.8 | 93.0 | 104.7 | 99.8 | *99.8* |
| 82.5° | 58.1 | 68.2 | 78.2 | 74.9 | *73.1* |
| 85° | 33.3 | 43.3 | 53.2 | 49.9 | *46.6* |
| 87.5° | 13.3 | 21.6 | 23.2 | 23.2 | *21.6* |
| 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 | 13.0 | 14.5 | 13.3 | 14.8 | 15.2 | 11.7 | 13.2 | 12.0 | 13.5 | 13.9 |
| | 3H | 14.2 | 15.6 | 14.6 | 15.9 | 16.3 | 12.9 | 14.3 | 13.3 | 14.7 | 15.0 |
| | 4H | 14.6 | 15.9 | 15.0 | 16.3 | 16.7 | 13.5 | 14.8 | 13.9 | 15.1 | 15.5 |
| | 6H | 14.9 | 16.1 | 15.3 | 16.5 | 16.9 | 14.0 | 15.2 | 14.4 | 15.6 | 16.0 |
| | 8H | 15.0 | 16.1 | 15.4 | 16.5 | 16.9 | 14.2 | 15.3 | 14.6 | 15.7 | 16.1 |
| | 12H | 15.0 | 16.1 | 15.5 | 16.5 | 17.0 | 14.3 | 15.4 | 14.7 | 15.8 | 16.2 |
| 4H | 2H | 13.3 | 14.6 | 13.7 | 14.9 | 15.3 | 12.2 | 13.5 | 12.6 | 13.9 | 14.2 |
| | 3H | 14.7 | 15.8 | 15.2 | 16.2 | 16.6 | 13.7 | 14.8 | 14.1 | 15.2 | 15.6 |
| | 4H | 15.3 | 16.3 | 15.7 | 16.7 | 17.1 | 14.4 | 15.4 | 14.8 | 15.8 | 16.2 |
| | 6H | 15.7 | 16.6 | 16.2 | 17.0 | 17.5 | 15.0 | 15.9 | 15.5 | 16.3 | 16.8 |
| | 8H | 15.8 | 16.6 | 16.3 | 17.1 | 17.6 | 15.3 | 16.1 | 15.8 | 16.5 | 17.0 |
| | 12H | 15.9 | 16.7 | 16.4 | 17.1 | 17.6 | 15.5 | 16.2 | 16.0 | 16.7 | 17.1 |
| 8H | 4H | 15.5 | 16.3 | 16.0 | 16.7 | 17.2 | 14.7 | 15.5 | 15.2 | 15.9 | 16.4 |
| | 6H | 16.0 | 16.7 | 16.5 | 17.2 | 17.7 | 15.5 | 16.2 | 16.0 | 16.6 | 17.1 |
| | 8H | 16.3 | 16.9 | 16.8 | 17.4 | 17.8 | 15.8 | 16.4 | 16.3 | 16.9 | 17.4 |
| | 12H | 16.4 | 16.9 | 16.9 | 17.4 | 18.0 | 16.1 | 16.7 | 16.6 | 17.1 | 17.7 |
| 12H | 4H | 15.5 | 16.2 | 16.0 | 16.7 | 17.2 | 14.7 | 15.4 | 15.2 | 15.9 | 16.4 |
| | 6H | 16.1 | 16.7 | 16.6 | 17.2 | 17.7 | 15.6 | 16.2 | 16.1 | 16.6 | 17.2 |
| | 8H | 16.4 | 16.9 | 16.9 | 17.4 | 18.0 | 16.0 | 16.5 | 16.5 | 17.0 | 17.6 |

(END OF REPORT)