

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: P1471798

Luminaire Tested: 24PTR-40S-PL1-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-40S-PL1-L835-UNV-STD-W  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens White Recess  
Frame  
Light Source: -  
Ballast/Driver: -

**Summary**

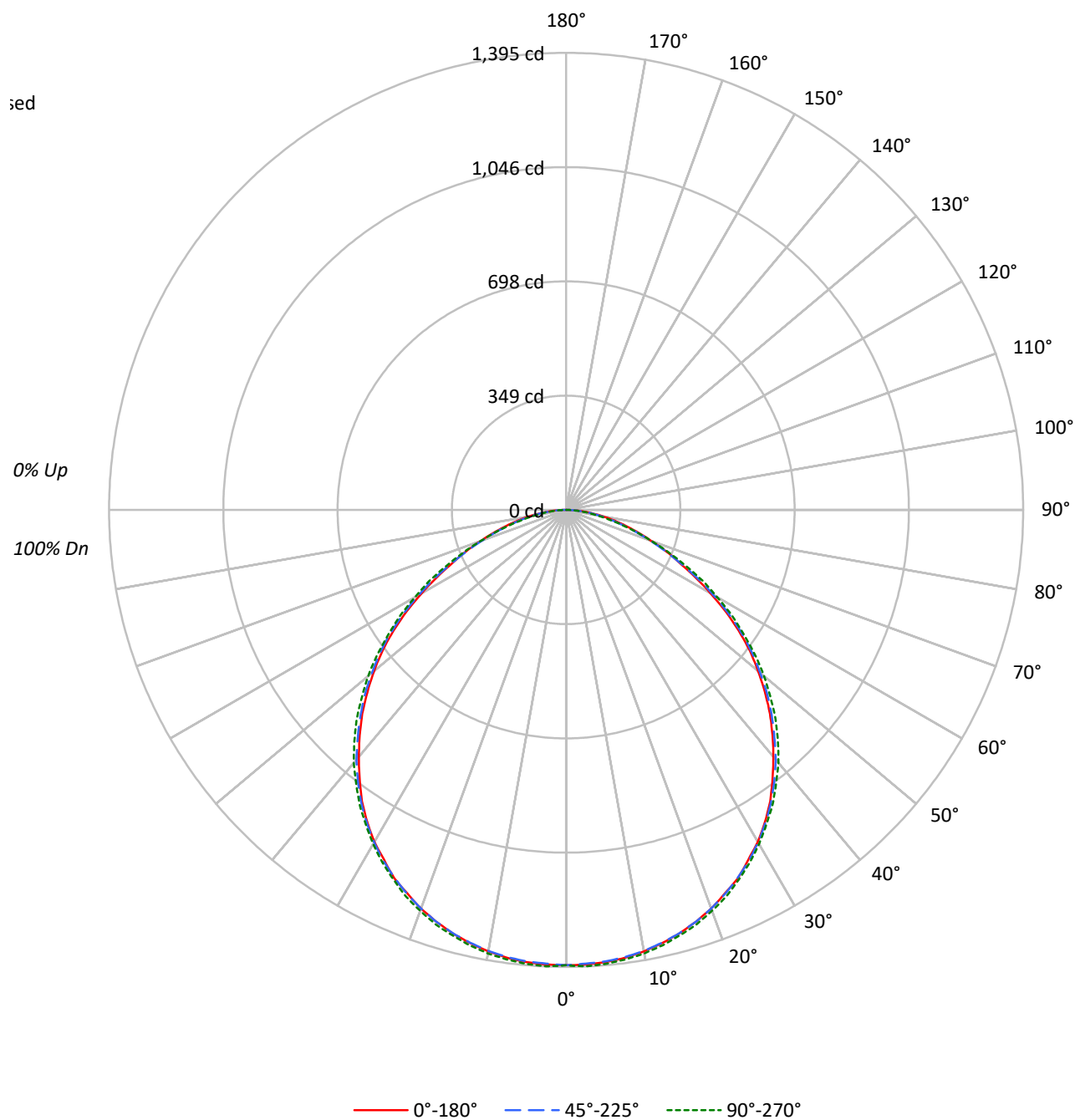
Lumens per Lamp: N/A  
Luminaire Lumens: 3663.7 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.3  
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  |  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  |  | 98  | 95  | 93  |  |  | 94  | 92  | 90  |  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  |  | 87  | 82  | 77  |  |  | 83  | 79  | 75  |  |  | 80  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  |  | 77  | 70  | 65  |  |  | 74  | 69  | 64  |  |  | 71  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  |  | 68  | 61  | 56  |  |  | 66  | 60  | 55  |  |  | 64  |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  |  | 61  | 54  | 49  |  |  | 60  | 53  | 48  |  |  | 58  |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  |  | 56  | 48  | 43  |  |  | 54  | 47  | 42  |  |  | 52  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  |  | 51  | 43  | 38  |  |  | 49  | 43  | 38  |  |  | 48  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  |  | 46  | 39  | 34  |  |  | 45  | 39  | 34  |  |  | 44  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  |  | 43  | 36  | 31  |  |  | 42  | 35  | 30  |  |  | 41  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  |  | 40  | 33  | 28  |  |  | 39  | 32  | 28  |  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1870 | 1870 | 1870 |
| 5°  | 1872 | 1868 | 1878 |
| 10° | 1869 | 1867 | 1878 |
| 15° | 1864 | 1863 | 1872 |
| 20° | 1854 | 1854 | 1865 |
| 25° | 1842 | 1839 | 1849 |
| 30° | 1818 | 1821 | 1830 |
| 35° | 1784 | 1791 | 1805 |
| 40° | 1728 | 1749 | 1771 |
| 45° | 1674 | 1688 | 1721 |
| 50° | 1601 | 1618 | 1650 |
| 55° | 1508 | 1532 | 1550 |
| 60° | 1368 | 1397 | 1432 |
| 65° | 1215 | 1228 | 1277 |
| 70° | 1086 | 1064 | 1090 |
| 75° | 979  | 923  | 905  |
| 80° | 890  | 827  | 734  |
| 85° | 753  | 684  | 590  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1721 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.8  | 3.6       |
| 10°-20°   | 378.1  | 10.3      |
| 20°-30°   | 572.0  | 15.6      |
| 30°-40°   | 681.8  | 18.6      |
| 40°-50°   | 685.6  | 18.7      |
| 50°-60°   | 581.8  | 15.9      |
| 60°-70°   | 387.4  | 10.6      |
| 70°-80°   | 193.4  | 5.3       |
| 80°-90°   | 51.7   | 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°    | 1082.0 | 29.5      |
| 0°-40°    | 1763.7 | 48.1      |
| 0°-60°    | 3031.2 | 82.7      |
| 0°-90°    | 3663.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3663.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1390 | 1390  | 1390 | 1390  | 1390 |      |
| 5°  | 1386 | 1386  | 1383 | 1389  | 1391 | 132  |
| 15° | 1338 | 1339  | 1337 | 1343  | 1344 | 377  |
| 25° | 1241 | 1241  | 1239 | 1245  | 1246 | 570  |
| 35° | 1086 | 1087  | 1090 | 1098  | 1099 | 677  |
| 45° | 880  | 882   | 887  | 899   | 904  | 677  |
| 55° | 643  | 647   | 653  | 659   | 661  | 573  |
| 65° | 382  | 385   | 386  | 392   | 401  | 382  |
| 75° | 188  | 186   | 178  | 174   | 174  | 202  |
| 85° | 49   | 48    | 44   | 42    | 38   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1389.9 | 1389.9 | 1389.9 | 1389.9 | 1389.9 |
| 2.5°  | 1388.8 | 1389.9 | 1386.2 | 1392.9 | 1394.6 |
| 5°    | 1385.8 | 1386.2 | 1383.2 | 1389.4 | 1390.8 |
| 7.5°  | 1379.1 | 1379.6 | 1376.4 | 1383.2 | 1384.1 |
| 10°   | 1368.2 | 1369.3 | 1366.7 | 1372.9 | 1374.4 |
| 12.5° | 1354.4 | 1355.9 | 1353.2 | 1360.0 | 1361.1 |
| 15°   | 1337.9 | 1339.4 | 1337.3 | 1342.9 | 1344.1 |
| 17.5° | 1317.7 | 1318.8 | 1317.7 | 1322.9 | 1325.9 |
| 20°   | 1295.0 | 1295.0 | 1295.0 | 1299.7 | 1302.3 |
| 22.5° | 1266.8 | 1269.4 | 1268.3 | 1274.5 | 1277.1 |
| 25°   | 1240.6 | 1240.6 | 1238.9 | 1244.7 | 1245.6 |
| 27.5° | 1203.9 | 1208.0 | 1207.7 | 1212.7 | 1213.8 |
| 30°   | 1170.4 | 1171.5 | 1172.1 | 1175.7 | 1177.7 |
| 32.5° | 1129.8 | 1130.8 | 1132.4 | 1137.5 | 1138.1 |
| 35°   | 1086.0 | 1087.2 | 1090.2 | 1097.8 | 1098.9 |
| 37.5° | 1035.1 | 1040.8 | 1043.4 | 1051.6 | 1052.5 |
| 40°   | 984.1  | 987.6  | 995.5  | 1004.1 | 1008.2 |
| 42.5° | 932.0  | 936.2  | 940.8  | 952.6  | 956.4  |
| 45°   | 880.0  | 881.5  | 887.3  | 899.1  | 904.3  |
| 47.5° | 822.4  | 827.1  | 832.1  | 842.4  | 845.6  |
| 50°   | 764.8  | 769.8  | 773.0  | 782.2  | 788.3  |
| 52.5° | 706.6  | 711.2  | 714.8  | 720.4  | 726.6  |
| 55°   | 642.8  | 647.2  | 653.0  | 659.2  | 660.7  |
| 57.5° | 577.8  | 582.9  | 586.6  | 593.2  | 599.9  |
| 60°   | 508.2  | 514.0  | 519.1  | 525.2  | 532.0  |
| 62.5° | 443.5  | 445.9  | 451.1  | 461.4  | 471.2  |
| 65°   | 381.5  | 384.7  | 385.7  | 391.5  | 401.2  |
| 67.5° | 330.1  | 330.1  | 325.4  | 327.5  | 338.3  |
| 70°   | 276.0  | 273.9  | 270.4  | 268.3  | 277.1  |
| 72.5° | 232.2  | 229.6  | 221.9  | 218.4  | 223.0  |
| 75°   | 188.4  | 185.8  | 177.6  | 173.5  | 174.0  |
| 77.5° | 151.4  | 147.3  | 140.5  | 133.4  | 131.9  |
| 80°   | 114.9  | 113.2  | 106.7  | 99.9   | 94.7   |
| 82.5° | 81.4   | 77.8   | 74.1   | 70.0   | 65.9   |
| 85°   | 48.8   | 47.9   | 44.3   | 41.7   | 38.2   |
| 87.5° | 20.0   | 20.0   | 19.1   | 18.0   | 17.0   |
| 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 | 13.4             | 15.0 | 13.7 | 15.3 | 15.6 | 13.5           | 15.1 | 13.9 | 15.4 | 15.8 |
|                 | 3H   | 14.8             | 16.2 | 15.1 | 16.5 | 16.9 | 14.9           | 16.3 | 15.2 | 16.6 | 17.0 |
|                 | 4H   | 15.3             | 16.6 | 15.7 | 17.0 | 17.3 | 15.3           | 16.6 | 15.7 | 17.0 | 17.4 |
|                 | 6H   | 15.7             | 16.9 | 16.1 | 17.3 | 17.7 | 15.6           | 16.8 | 16.0 | 17.2 | 17.6 |
|                 | 8H   | 15.8             | 17.0 | 16.2 | 17.4 | 17.8 | 15.6           | 16.8 | 16.1 | 17.2 | 17.6 |
|                 | 12H  | 15.9             | 17.0 | 16.3 | 17.4 | 17.8 | 15.7           | 16.8 | 16.1 | 17.2 | 17.6 |
| 4H              | 2H   | 13.9             | 15.2 | 14.3 | 15.6 | 15.9 | 14.0           | 15.3 | 14.4 | 15.7 | 16.1 |
|                 | 3H   | 15.5             | 16.6 | 15.9 | 17.0 | 17.4 | 15.5           | 16.6 | 15.9 | 17.0 | 17.4 |
|                 | 4H   | 16.1             | 17.1 | 16.5 | 17.5 | 17.9 | 16.1           | 17.1 | 16.5 | 17.5 | 17.9 |
|                 | 6H   | 16.6             | 17.5 | 17.0 | 17.9 | 18.4 | 16.4           | 17.3 | 16.9 | 17.8 | 18.2 |
|                 | 8H   | 16.8             | 17.6 | 17.2 | 18.0 | 18.5 | 16.6           | 17.4 | 17.0 | 17.8 | 18.3 |
|                 | 12H  | 16.9             | 17.6 | 17.4 | 18.1 | 18.6 | 16.6           | 17.4 | 17.1 | 17.9 | 18.3 |
| 8H              | 4H   | 16.3             | 17.1 | 16.8 | 17.6 | 18.0 | 16.3           | 17.1 | 16.7 | 17.5 | 18.0 |
|                 | 6H   | 16.9             | 17.6 | 17.4 | 18.1 | 18.6 | 16.8           | 17.4 | 17.2 | 17.9 | 18.4 |
|                 | 8H   | 17.1             | 17.8 | 17.7 | 18.3 | 18.8 | 16.9           | 17.5 | 17.4 | 18.1 | 18.5 |
|                 | 12H  | 17.3             | 17.9 | 17.8 | 18.4 | 18.9 | 17.1           | 17.6 | 17.6 | 18.1 | 18.7 |
| 12H             | 4H   | 16.3             | 17.0 | 16.8 | 17.5 | 18.0 | 16.3           | 17.0 | 16.8 | 17.5 | 18.0 |
|                 | 6H   | 17.0             | 17.6 | 17.5 | 18.0 | 18.6 | 16.8           | 17.4 | 17.3 | 17.9 | 18.4 |
|                 | 8H   | 17.2             | 17.8 | 17.7 | 18.3 | 18.8 | 17.0           | 17.6 | 17.5 | 18.1 | 18.6 |













(END OF REPORT)