

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: P1050101

Luminaire Tested: PTR-14-40-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: PTR-14-40-L830-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

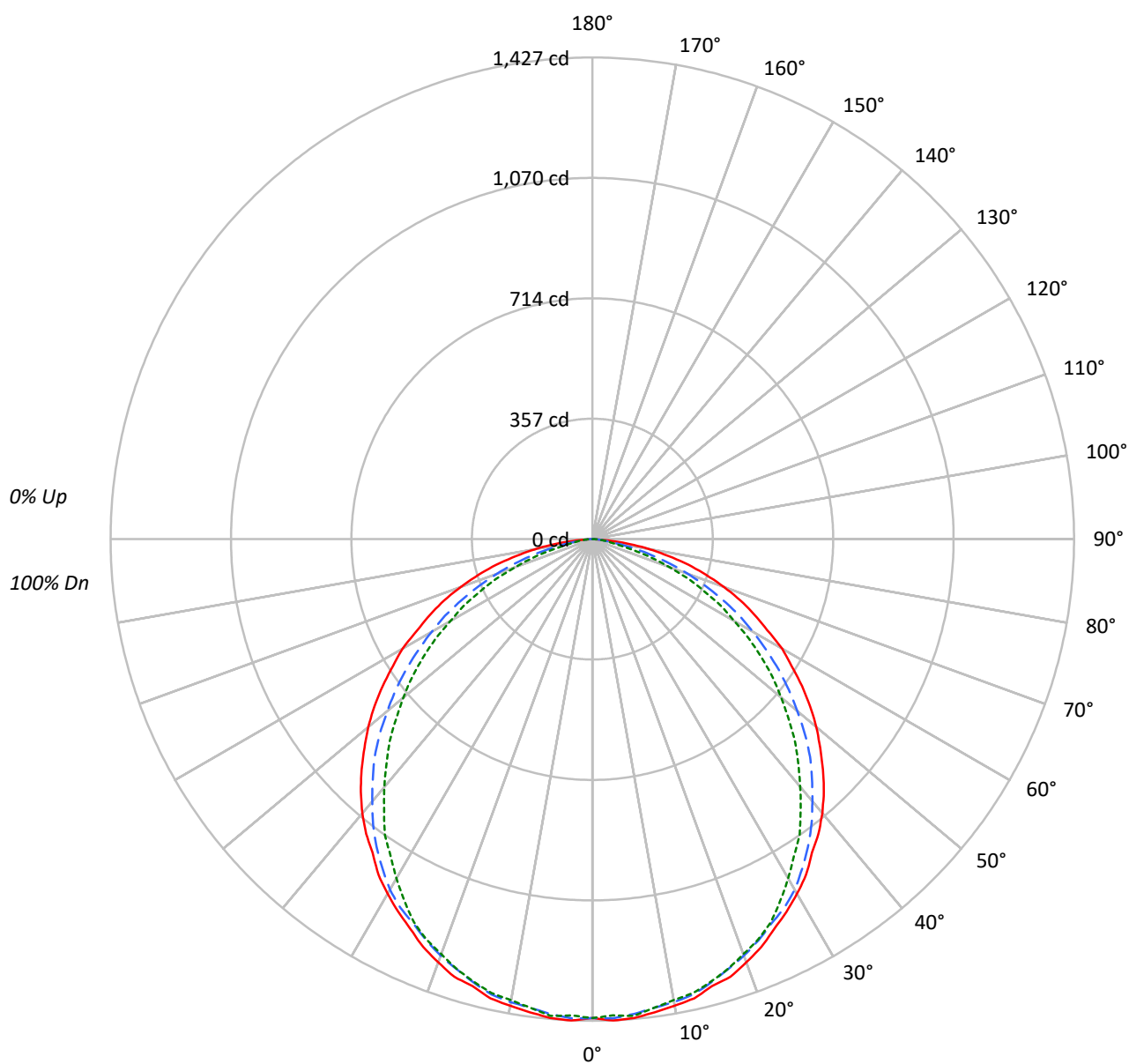
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3779.7 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
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  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| 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°  | 3818 | 3818 | 3818 |
| 5°  | 3847 | 3815 | 3831 |
| 10° | 3836 | 3806 | 3790 |
| 15° | 3819 | 3788 | 3781 |
| 20° | 3822 | 3761 | 3747 |
| 25° | 3784 | 3729 | 3717 |
| 30° | 3769 | 3727 | 3606 |
| 35° | 3726 | 3659 | 3518 |
| 40° | 3723 | 3563 | 3367 |
| 45° | 3676 | 3470 | 3232 |
| 50° | 3627 | 3315 | 3057 |
| 55° | 3557 | 3160 | 2871 |
| 60° | 3493 | 2956 | 2606 |
| 65° | 3374 | 2713 | 2330 |
| 70° | 3265 | 2360 | 1902 |
| 75° | 3067 | 1863 | 1309 |
| 80° | 2659 | 1127 | 786  |
| 85° | 1775 | 809  | 756  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3676 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.5  | 3.6       |
| 10°-20°   | 384.9  | 10.2      |
| 20°-30°   | 581.4  | 15.4      |
| 30°-40°   | 691.3  | 18.3      |
| 40°-50°   | 701.1  | 18.5      |
| 50°-60°   | 608.8  | 16.1      |
| 60°-70°   | 432.2  | 11.4      |
| 70°-80°   | 206.5  | 5.5       |
| 80°-90°   | 39.1   | 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°    | 1100.8 | 29.1      |
| 0°-40°    | 1792.1 | 47.4      |
| 0°-60°    | 3101.9 | 82.1      |
| 0°-90°    | 3779.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3779.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1419 | 1419  | 1419 | 1419  | 1419 |      |
| 5°  | 1424 | 1419  | 1412 | 1416  | 1418 | 135  |
| 15° | 1371 | 1374  | 1360 | 1358  | 1357 | 388  |
| 25° | 1274 | 1273  | 1256 | 1261  | 1252 | 589  |
| 35° | 1134 | 1132  | 1114 | 1076  | 1071 | 713  |
| 45° | 966  | 958   | 912  | 864   | 849  | 745  |
| 55° | 758  | 735   | 674  | 634   | 612  | 677  |
| 65° | 530  | 490   | 426  | 380   | 366  | 525  |
| 75° | 295  | 241   | 179  | 142   | 126  | 309  |
| 85° | 58   | 30    | 26   | 25    | 24   | 72   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1419.0 | 1419.0 | 1419.0 | 1419.0 | 1419.0 |
| 2.5°  | 1427.4 | 1422.4 | 1420.7 | 1426.6 | 1412.2 |
| 5°    | 1424.1 | 1419.0 | 1412.2 | 1415.6 | 1418.1 |
| 7.5°  | 1413.9 | 1409.7 | 1400.4 | 1408.0 | 1400.4 |
| 10°   | 1403.8 | 1399.6 | 1392.8 | 1395.3 | 1386.9 |
| 12.5° | 1393.6 | 1383.5 | 1381.8 | 1383.5 | 1377.6 |
| 15°   | 1370.8 | 1374.2 | 1359.8 | 1358.1 | 1357.3 |
| 17.5° | 1359.8 | 1351.4 | 1336.2 | 1337.0 | 1335.3 |
| 20°   | 1334.5 | 1324.3 | 1313.3 | 1311.7 | 1308.3 |
| 22.5° | 1308.3 | 1296.4 | 1286.3 | 1291.4 | 1283.8 |
| 25°   | 1274.5 | 1272.8 | 1255.9 | 1260.9 | 1251.7 |
| 27.5° | 1244.9 | 1239.0 | 1231.4 | 1220.4 | 1206.9 |
| 30°   | 1212.8 | 1206.9 | 1199.3 | 1170.5 | 1160.4 |
| 32.5° | 1179.0 | 1172.2 | 1157.0 | 1123.2 | 1112.2 |
| 35°   | 1134.2 | 1132.5 | 1113.9 | 1075.9 | 1070.8 |
| 37.5° | 1100.4 | 1081.8 | 1066.6 | 1027.7 | 1013.3 |
| 40°   | 1059.8 | 1049.7 | 1014.2 | 977.0  | 958.4  |
| 42.5° | 1015.0 | 1003.2 | 962.6  | 922.9  | 902.6  |
| 45°   | 966.0  | 957.5  | 911.9  | 863.7  | 849.4  |
| 47.5° | 915.3  | 907.7  | 853.6  | 807.1  | 788.5  |
| 50°   | 866.3  | 857.0  | 791.9  | 747.1  | 730.2  |
| 52.5° | 813.0  | 797.8  | 733.6  | 689.6  | 673.6  |
| 55°   | 758.1  | 735.3  | 673.6  | 633.9  | 611.9  |
| 57.5° | 699.8  | 678.6  | 610.2  | 568.8  | 551.0  |
| 60°   | 649.1  | 619.5  | 549.3  | 507.1  | 484.3  |
| 62.5° | 584.0  | 558.6  | 491.9  | 442.0  | 431.0  |
| 65°   | 529.9  | 490.2  | 426.0  | 380.3  | 365.9  |
| 67.5° | 475.0  | 428.5  | 363.4  | 316.9  | 309.3  |
| 70°   | 415.0  | 366.8  | 300.0  | 254.4  | 241.7  |
| 72.5° | 354.1  | 306.8  | 241.7  | 193.5  | 185.9  |
| 75°   | 295.0  | 240.9  | 179.2  | 142.0  | 125.9  |
| 77.5° | 230.7  | 181.7  | 125.9  | 87.0   | 76.9   |
| 80°   | 171.6  | 122.5  | 72.7   | 51.6   | 50.7   |
| 82.5° | 112.4  | 71.0   | 38.9   | 39.7   | 38.0   |
| 85°   | 57.5   | 30.4   | 26.2   | 25.4   | 24.5   |
| 87.5° | 11.0   | 11.8   | 12.7   | 12.7   | 12.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







— 0°-180°    - - 45°-225°    ..... 90°-270°





(END OF REPORT)