

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: P1050447

Luminaire Tested: PTR-14-40-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: PTR-14-40-PW1-L850-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source:  
Ballast/Driver: -

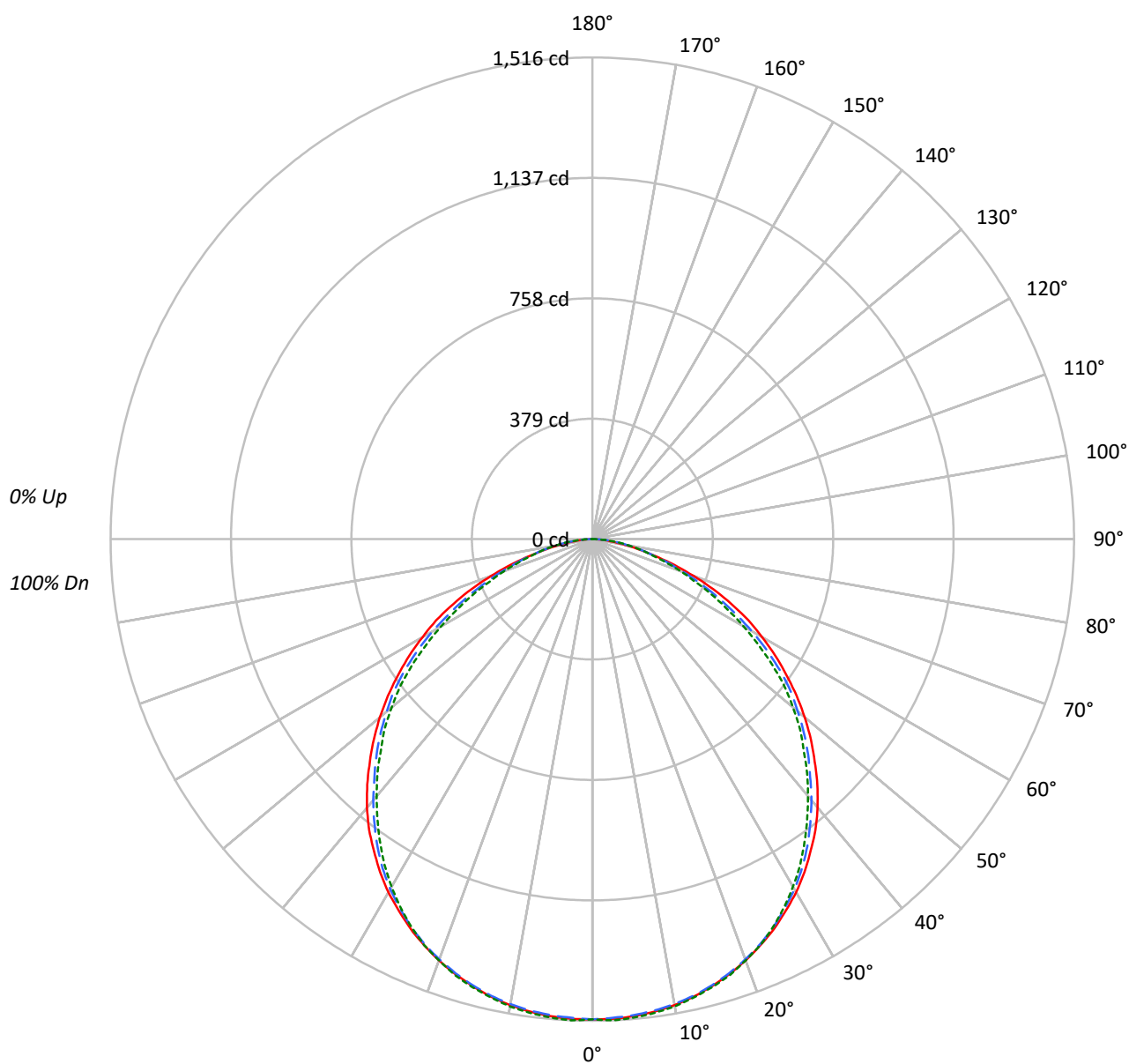
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4011.8 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34  
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  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 71  |
| 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  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 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   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 33  | 33  | 31  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 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  | 28  | 38  | 32  | 27  | 27  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4068 | 4068 | 4068 |
| 5°  | 4072 | 4063 | 4083 |
| 10° | 4069 | 4061 | 4081 |
| 15° | 4057 | 4051 | 4066 |
| 20° | 4041 | 4031 | 4041 |
| 25° | 4018 | 4002 | 3999 |
| 30° | 3988 | 3953 | 3925 |
| 35° | 3935 | 3875 | 3825 |
| 40° | 3874 | 3768 | 3709 |
| 45° | 3767 | 3655 | 3581 |
| 50° | 3653 | 3534 | 3452 |
| 55° | 3501 | 3383 | 3248 |
| 60° | 3319 | 3123 | 2960 |
| 65° | 3070 | 2789 | 2650 |
| 70° | 2662 | 2428 | 2337 |
| 75° | 2125 | 2078 | 2021 |
| 80° | 1615 | 1804 | 1804 |
| 85° | 1195 | 1541 | 1541 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3767 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 143.4  | 3.6       |
| 10°-20°   | 411.2  | 10.2      |
| 20°-30°   | 621.5  | 15.5      |
| 30°-40°   | 737.9  | 18.4      |
| 40°-50°   | 743.4  | 18.5      |
| 50°-60°   | 642.6  | 16.0      |
| 60°-70°   | 439.2  | 10.9      |
| 70°-80°   | 216.6  | 5.4       |
| 80°-90°   | 56.0   | 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°    | 1176.0 | 29.3      |
| 0°-40°    | 1914.0 | 47.7      |
| 0°-60°    | 3300.0 | 82.3      |
| 0°-90°    | 4011.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4011.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1512 | 1512  | 1512 | 1512  | 1512 |      |
| 5°  | 1507 | 1508  | 1504 | 1510  | 1512 | 143  |
| 15° | 1456 | 1458  | 1454 | 1459  | 1460 | 411  |
| 25° | 1353 | 1352  | 1348 | 1349  | 1347 | 623  |
| 35° | 1198 | 1194  | 1180 | 1169  | 1164 | 750  |
| 45° | 990  | 979   | 960  | 949   | 941  | 764  |
| 55° | 746  | 744   | 721  | 700   | 692  | 667  |
| 65° | 482  | 465   | 438  | 419   | 416  | 476  |
| 75° | 204  | 203   | 200  | 200   | 194  | 223  |
| 85° | 39   | 45    | 50   | 51    | 50   | 47   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1511.7 | 1511.7 | 1511.7 | 1511.7 | 1511.7 |
| 2.5°  | 1511.3 | 1511.7 | 1507.9 | 1514.6 | 1516.2 |
| 5°    | 1507.3 | 1507.9 | 1504.0 | 1510.1 | 1511.7 |
| 7.5°  | 1500.1 | 1501.1 | 1496.7 | 1502.8 | 1504.0 |
| 10°   | 1489.3 | 1489.9 | 1486.1 | 1492.2 | 1493.4 |
| 12.5° | 1474.9 | 1475.3 | 1472.0 | 1477.5 | 1477.5 |
| 15°   | 1456.4 | 1458.0 | 1454.1 | 1459.2 | 1459.6 |
| 17.5° | 1435.6 | 1436.2 | 1432.3 | 1437.8 | 1439.1 |
| 20°   | 1411.0 | 1411.0 | 1407.7 | 1412.2 | 1411.0 |
| 22.5° | 1383.5 | 1383.5 | 1379.6 | 1381.9 | 1382.9 |
| 25°   | 1353.4 | 1352.1 | 1347.7 | 1348.9 | 1346.7 |
| 27.5° | 1318.6 | 1318.6 | 1310.6 | 1310.6 | 1306.8 |
| 30°   | 1283.4 | 1280.5 | 1272.2 | 1267.1 | 1263.2 |
| 32.5° | 1242.8 | 1239.0 | 1228.4 | 1219.4 | 1216.6 |
| 35°   | 1197.7 | 1193.6 | 1179.5 | 1169.0 | 1164.5 |
| 37.5° | 1153.9 | 1144.9 | 1126.4 | 1115.8 | 1110.7 |
| 40°   | 1102.8 | 1091.6 | 1072.7 | 1058.0 | 1055.8 |
| 42.5° | 1048.1 | 1039.1 | 1014.5 | 1003.7 | 1001.0 |
| 45°   | 989.8  | 979.1  | 960.5  | 949.3  | 941.0  |
| 47.5° | 932.6  | 924.7  | 903.5  | 890.1  | 887.3  |
| 50°   | 872.6  | 865.9  | 844.1  | 829.6  | 824.6  |
| 52.5° | 810.5  | 806.0  | 787.5  | 769.0  | 762.9  |
| 55°   | 746.2  | 744.0  | 721.0  | 699.6  | 692.3  |
| 57.5° | 682.9  | 680.0  | 651.3  | 626.7  | 620.0  |
| 60°   | 616.7  | 608.4  | 580.3  | 557.3  | 550.0  |
| 62.5° | 554.0  | 536.1  | 505.8  | 487.9  | 479.6  |
| 65°   | 482.2  | 464.9  | 438.0  | 418.9  | 416.2  |
| 67.5° | 411.8  | 391.0  | 370.2  | 358.4  | 349.5  |
| 70°   | 338.3  | 324.2  | 308.6  | 298.6  | 297.0  |
| 72.5° | 269.9  | 259.9  | 252.0  | 245.9  | 240.8  |
| 75°   | 204.4  | 202.7  | 199.9  | 199.9  | 194.4  |
| 77.5° | 150.2  | 154.1  | 156.3  | 155.7  | 156.9  |
| 80°   | 104.2  | 111.9  | 116.4  | 117.0  | 116.4  |
| 82.5° | 66.2   | 75.1   | 82.4   | 83.5   | 84.7   |
| 85°   | 38.7   | 45.4   | 49.9   | 50.9   | 49.9   |
| 87.5° | 17.3   | 21.8   | 23.0   | 24.0   | 23.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)