

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: P1050152

Luminaire Tested: PTR-14-40-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: PTR-14-40-PB1-L840-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS  
  
Light Source:  
Ballast/Driver: -

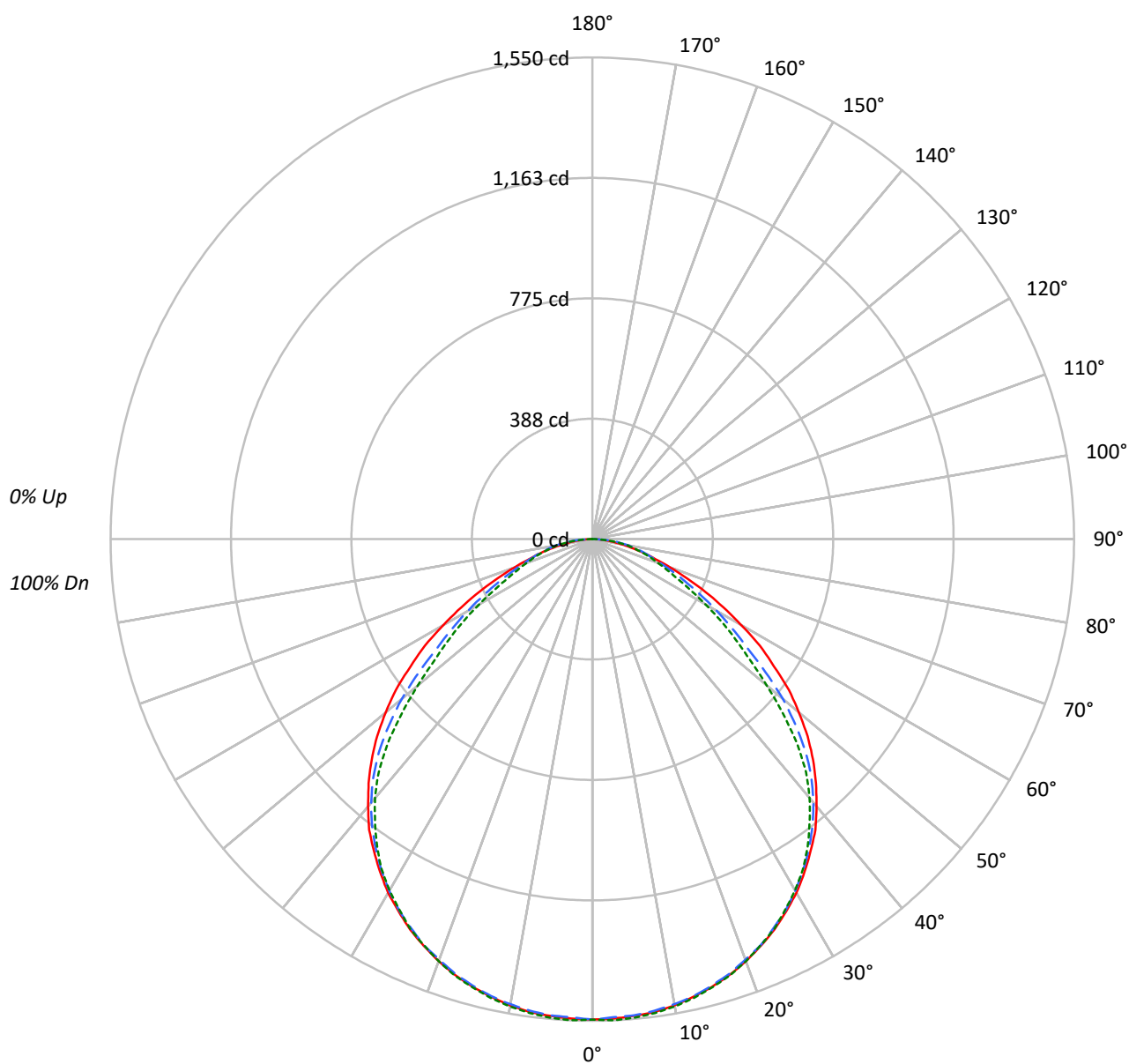
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3855.4 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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 | 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°  | 4161 | 4161 | 4161 |
| 5°  | 4161 | 4156 | 4176 |
| 10° | 4163 | 4152 | 4173 |
| 15° | 4154 | 4143 | 4159 |
| 20° | 4139 | 4123 | 4139 |
| 25° | 4116 | 4099 | 4111 |
| 30° | 4083 | 4060 | 4053 |
| 35° | 4023 | 3992 | 3967 |
| 40° | 3942 | 3888 | 3821 |
| 45° | 3821 | 3698 | 3546 |
| 50° | 3631 | 3352 | 3065 |
| 55° | 3346 | 2846 | 2640 |
| 60° | 2978 | 2488 | 2262 |
| 65° | 2555 | 2156 | 1926 |
| 70° | 2109 | 1901 | 1766 |
| 75° | 1779 | 1818 | 1721 |
| 80° | 1503 | 1857 | 1770 |
| 85° | 1176 | 1880 | 1646 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3821 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.6  | 3.8       |
| 10°-20°   | 420.7  | 10.9      |
| 20°-30°   | 637.2  | 16.5      |
| 30°-40°   | 759.3  | 19.7      |
| 40°-50°   | 742.5  | 19.3      |
| 50°-60°   | 561.6  | 14.6      |
| 60°-70°   | 345.0  | 8.9       |
| 70°-80°   | 183.8  | 4.8       |
| 80°-90°   | 58.7   | 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°    | 1204.5 | 31.2      |
| 0°-40°    | 1963.7 | 50.9      |
| 0°-60°    | 3267.8 | 84.8      |
| 0°-90°    | 3855.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3855.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1546 | 1546  | 1546 | 1546  | 1546 |      |
| 5°  | 1540 | 1542  | 1538 | 1544  | 1546 | 147  |
| 15° | 1491 | 1493  | 1487 | 1493  | 1493 | 421  |
| 25° | 1386 | 1384  | 1381 | 1383  | 1384 | 638  |
| 35° | 1225 | 1223  | 1215 | 1210  | 1208 | 766  |
| 45° | 1004 | 998   | 972  | 939   | 932  | 772  |
| 55° | 713  | 677   | 607  | 572   | 563  | 639  |
| 65° | 401  | 369   | 339  | 312   | 302  | 399  |
| 75° | 171  | 173   | 175  | 169   | 166  | 183  |
| 85° | 38   | 50    | 61   | 57    | 53   | 46   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1546.1 | 1546.1 | 1546.1 | 1546.1 | 1546.1 |
| 2.5°  | 1544.3 | 1546.1 | 1540.3 | 1548.1 | 1549.9 |
| 5°    | 1540.3 | 1542.3 | 1538.5 | 1544.3 | 1546.1 |
| 7.5°  | 1534.7 | 1534.7 | 1530.9 | 1536.5 | 1538.5 |
| 10°   | 1523.4 | 1523.4 | 1519.6 | 1525.2 | 1527.2 |
| 12.5° | 1508.2 | 1508.2 | 1506.2 | 1510.0 | 1512.0 |
| 15°   | 1491.0 | 1492.8 | 1487.2 | 1492.8 | 1492.8 |
| 17.5° | 1470.1 | 1468.3 | 1466.3 | 1470.1 | 1472.1 |
| 20°   | 1445.3 | 1445.3 | 1439.7 | 1443.5 | 1445.3 |
| 22.5° | 1416.7 | 1416.7 | 1414.9 | 1416.7 | 1414.9 |
| 25°   | 1386.4 | 1384.4 | 1380.6 | 1382.6 | 1384.4 |
| 27.5° | 1350.3 | 1350.3 | 1346.5 | 1346.5 | 1344.5 |
| 30°   | 1314.1 | 1312.1 | 1306.5 | 1302.7 | 1304.5 |
| 32.5° | 1270.4 | 1268.4 | 1262.8 | 1259.0 | 1260.8 |
| 35°   | 1224.7 | 1222.9 | 1215.3 | 1209.5 | 1207.7 |
| 37.5° | 1179.2 | 1173.4 | 1163.8 | 1156.2 | 1148.6 |
| 40°   | 1122.1 | 1116.3 | 1106.9 | 1089.7 | 1087.7 |
| 42.5° | 1065.0 | 1059.4 | 1044.0 | 1023.2 | 1017.4 |
| 45°   | 1004.1 | 998.5  | 971.7  | 939.4  | 931.8  |
| 47.5° | 939.4  | 930.0  | 888.1  | 848.1  | 833.0  |
| 50°   | 867.3  | 850.1  | 800.6  | 749.3  | 732.1  |
| 52.5° | 796.8  | 766.5  | 701.8  | 656.1  | 639.1  |
| 55°   | 713.2  | 677.0  | 606.7  | 572.4  | 562.8  |
| 57.5° | 639.1  | 589.6  | 532.5  | 498.3  | 490.7  |
| 60°   | 553.4  | 507.7  | 462.2  | 431.7  | 420.3  |
| 62.5° | 475.4  | 435.4  | 397.5  | 370.8  | 357.6  |
| 65°   | 401.3  | 369.0  | 338.6  | 311.9  | 302.5  |
| 67.5° | 329.0  | 311.9  | 287.1  | 266.3  | 260.5  |
| 70°   | 268.1  | 258.6  | 241.6  | 232.0  | 224.4  |
| 72.5° | 213.0  | 216.8  | 205.4  | 201.7  | 195.9  |
| 75°   | 171.1  | 173.1  | 174.9  | 169.3  | 165.5  |
| 77.5° | 129.4  | 138.8  | 146.3  | 142.6  | 138.8  |
| 80°   | 97.0   | 106.4  | 119.8  | 114.2  | 114.2  |
| 82.5° | 66.5   | 78.1   | 89.4   | 85.7   | 83.7   |
| 85°   | 38.1   | 49.5   | 60.9   | 57.1   | 53.3   |
| 87.5° | 15.2   | 24.8   | 26.6   | 26.6   | 24.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)