

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: P1050157

Luminaire Tested: PTR-14-50-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050157  
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-14-50-PB1-L830-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS  
  
Light Source:  
Ballast/Driver: -

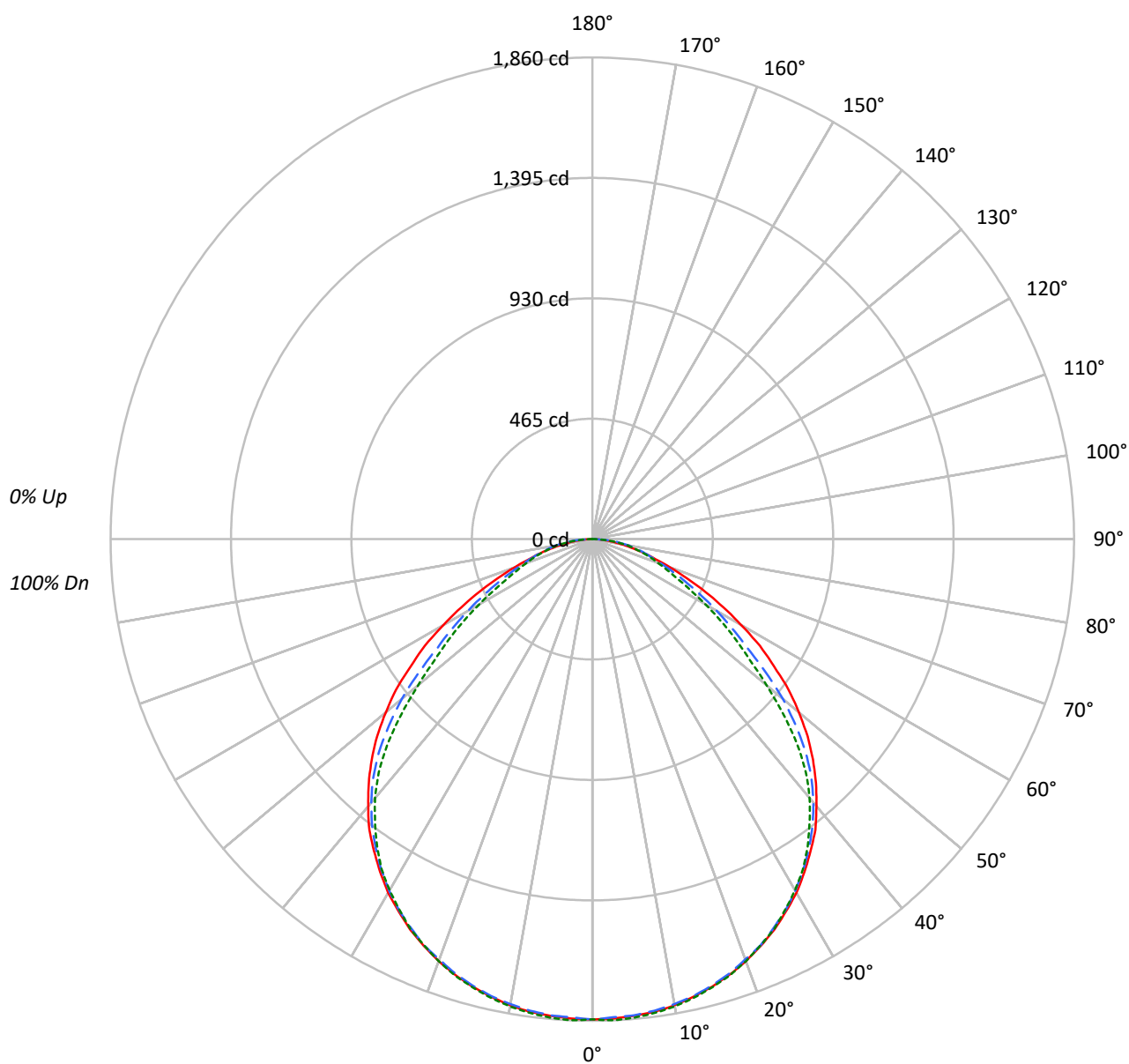
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4625.6 lumens  
Efficiency: N/A  
Efficacy: 113.1 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): 40.9  
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°  | 4992 | 4992 | 4992 |
| 5°  | 4992 | 4986 | 5011 |
| 10° | 4994 | 4982 | 5007 |
| 15° | 4984 | 4971 | 4990 |
| 20° | 4966 | 4946 | 4966 |
| 25° | 4939 | 4918 | 4932 |
| 30° | 4899 | 4871 | 4864 |
| 35° | 4827 | 4790 | 4760 |
| 40° | 4729 | 4665 | 4584 |
| 45° | 4585 | 4437 | 4254 |
| 50° | 4356 | 4021 | 3677 |
| 55° | 4014 | 3415 | 3168 |
| 60° | 3574 | 2984 | 2714 |
| 65° | 3066 | 2587 | 2311 |
| 70° | 2531 | 2280 | 2118 |
| 75° | 2135 | 2181 | 2065 |
| 80° | 1804 | 2227 | 2123 |
| 85° | 1414 | 2257 | 1976 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4585 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.9  | 3.8       |
| 10°-20°   | 504.7  | 10.9      |
| 20°-30°   | 764.5  | 16.5      |
| 30°-40°   | 911.0  | 19.7      |
| 40°-50°   | 890.8  | 19.3      |
| 50°-60°   | 673.8  | 14.6      |
| 60°-70°   | 414.0  | 8.9       |
| 70°-80°   | 220.5  | 4.8       |
| 80°-90°   | 70.4   | 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°    | 1445.1 | 31.2      |
| 0°-40°    | 2356.1 | 50.9      |
| 0°-60°    | 3920.7 | 84.8      |
| 0°-90°    | 4625.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4625.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1855 | 1855  | 1855 | 1855  | 1855 |      |
| 5°  | 1848 | 1850  | 1846 | 1853  | 1855 | 176  |
| 15° | 1789 | 1791  | 1784 | 1791  | 1791 | 505  |
| 25° | 1663 | 1661  | 1656 | 1659  | 1661 | 766  |
| 35° | 1469 | 1467  | 1458 | 1451  | 1449 | 919  |
| 45° | 1205 | 1198  | 1166 | 1127  | 1118 | 927  |
| 55° | 856  | 812   | 728  | 687   | 675  | 766  |
| 65° | 482  | 443   | 406  | 374   | 363  | 479  |
| 75° | 205  | 208   | 210  | 203   | 199  | 220  |
| 85° | 46   | 59    | 73   | 68    | 64   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1855.0 | 1855.0 | 1855.0 | 1855.0 | 1855.0 |
| 2.5°  | 1852.9 | 1855.0 | 1848.1 | 1857.4 | 1859.6 |
| 5°    | 1848.1 | 1850.5 | 1845.9 | 1852.9 | 1855.0 |
| 7.5°  | 1841.4 | 1841.4 | 1836.8 | 1843.5 | 1845.9 |
| 10°   | 1827.7 | 1827.7 | 1823.2 | 1829.9 | 1832.3 |
| 12.5° | 1809.5 | 1809.5 | 1807.1 | 1811.7 | 1814.1 |
| 15°   | 1788.9 | 1791.1 | 1784.4 | 1791.1 | 1791.1 |
| 17.5° | 1763.8 | 1761.6 | 1759.2 | 1763.8 | 1766.2 |
| 20°   | 1734.1 | 1734.1 | 1727.3 | 1731.9 | 1734.1 |
| 22.5° | 1699.8 | 1699.8 | 1697.6 | 1699.8 | 1697.6 |
| 25°   | 1663.4 | 1661.0 | 1656.4 | 1658.8 | 1661.0 |
| 27.5° | 1620.0 | 1620.0 | 1615.5 | 1615.5 | 1613.1 |
| 30°   | 1576.7 | 1574.3 | 1567.6 | 1563.0 | 1565.2 |
| 32.5° | 1524.2 | 1521.8 | 1515.1 | 1510.6 | 1512.7 |
| 35°   | 1469.4 | 1467.2 | 1458.1 | 1451.2 | 1449.0 |
| 37.5° | 1414.7 | 1407.8 | 1396.3 | 1387.2 | 1378.1 |
| 40°   | 1346.2 | 1339.3 | 1328.0 | 1307.4 | 1305.0 |
| 42.5° | 1277.7 | 1271.0 | 1252.6 | 1227.7 | 1220.7 |
| 45°   | 1204.7 | 1198.0 | 1165.9 | 1127.1 | 1117.9 |
| 47.5° | 1127.1 | 1115.8 | 1065.5 | 1017.6 | 999.4  |
| 50°   | 1040.6 | 1020.0 | 960.6  | 899.0  | 878.4  |
| 52.5° | 956.0  | 919.6  | 842.0  | 787.1  | 766.8  |
| 55°   | 855.6  | 812.3  | 728.0  | 686.8  | 675.3  |
| 57.5° | 766.8  | 707.4  | 638.9  | 597.9  | 588.8  |
| 60°   | 664.0  | 609.2  | 554.5  | 517.9  | 504.2  |
| 62.5° | 570.4  | 522.4  | 476.9  | 444.8  | 429.0  |
| 65°   | 481.5  | 442.7  | 406.3  | 374.2  | 362.9  |
| 67.5° | 394.8  | 374.2  | 344.5  | 319.6  | 312.6  |
| 70°   | 321.7  | 310.2  | 289.8  | 278.3  | 269.2  |
| 72.5° | 255.6  | 260.1  | 246.5  | 241.9  | 235.0  |
| 75°   | 205.3  | 207.7  | 209.8  | 203.1  | 198.6  |
| 77.5° | 155.2  | 166.5  | 175.6  | 171.0  | 166.5  |
| 80°   | 116.4  | 127.7  | 143.7  | 137.0  | 137.0  |
| 82.5° | 79.8   | 93.7   | 107.3  | 102.8  | 100.4  |
| 85°   | 45.8   | 59.4   | 73.1   | 68.5   | 64.0   |
| 87.5° | 18.2   | 29.7   | 31.9   | 31.9   | 29.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)