

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: P1050578

Luminaire Tested: 24PTR-40-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050578  
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: 24PTR-40-PB1-L850-UNV-STD-W  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

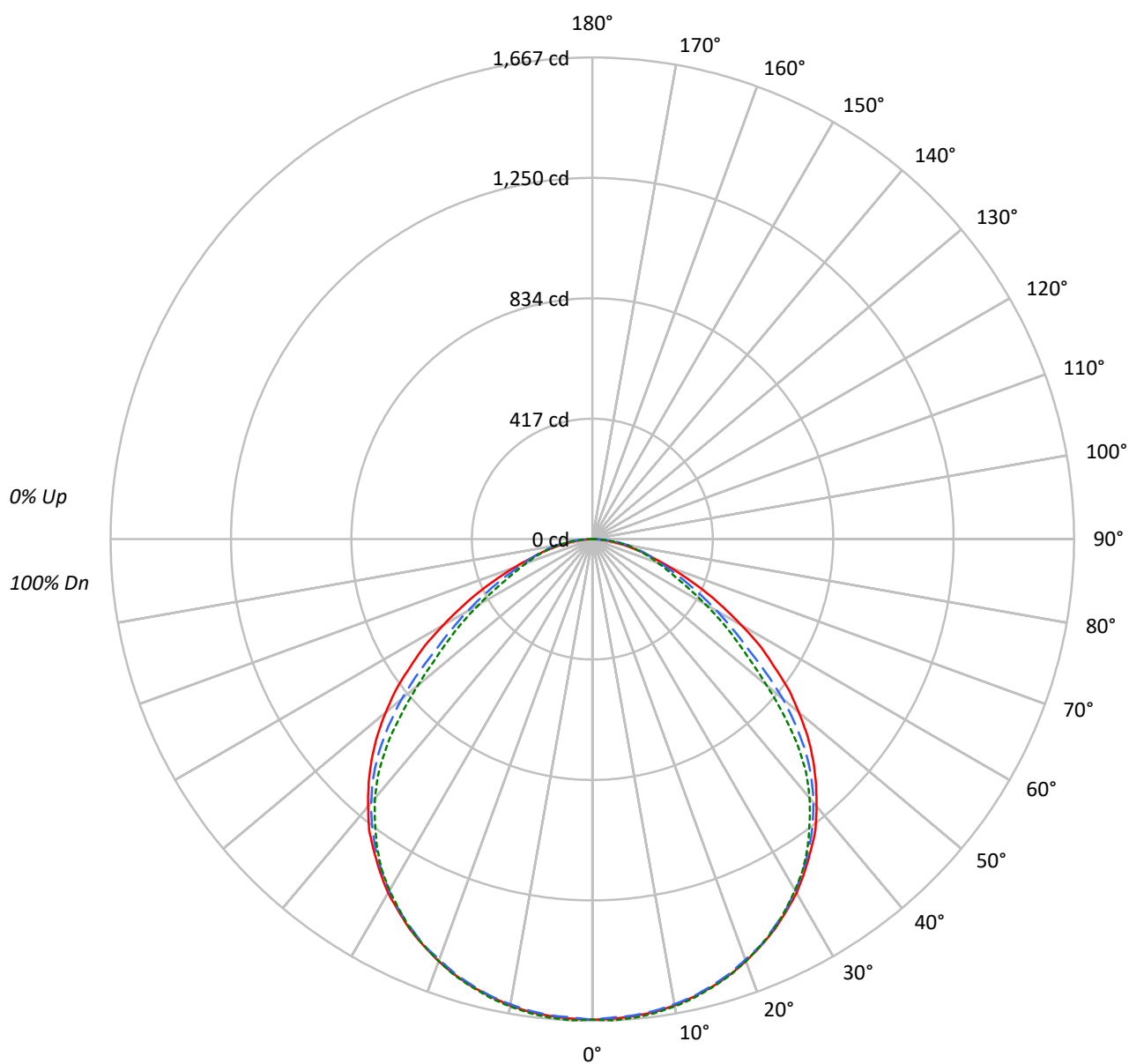
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4146.7 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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°  | 2238 | 2238 | 2238 |
| 5°  | 2238 | 2235 | 2246 |
| 10° | 2239 | 2233 | 2244 |
| 15° | 2234 | 2228 | 2237 |
| 20° | 2226 | 2217 | 2226 |
| 25° | 2214 | 2205 | 2211 |
| 30° | 2196 | 2183 | 2180 |
| 35° | 2164 | 2147 | 2134 |
| 40° | 2120 | 2091 | 2055 |
| 45° | 2055 | 1989 | 1907 |
| 50° | 1953 | 1802 | 1648 |
| 55° | 1799 | 1531 | 1420 |
| 60° | 1602 | 1338 | 1216 |
| 65° | 1374 | 1160 | 1036 |
| 70° | 1135 | 1022 | 950  |
| 75° | 957  | 978  | 925  |
| 80° | 809  | 998  | 951  |
| 85° | 633  | 1011 | 885  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2055 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.7  | 3.8       |
| 10°-20°   | 452.5  | 10.9      |
| 20°-30°   | 685.4  | 16.5      |
| 30°-40°   | 816.7  | 19.7      |
| 40°-50°   | 798.6  | 19.3      |
| 50°-60°   | 604.1  | 14.6      |
| 60°-70°   | 371.1  | 8.9       |
| 70°-80°   | 197.7  | 4.8       |
| 80°-90°   | 63.1   | 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°    | 1295.5 | 31.2      |
| 0°-40°    | 2112.2 | 50.9      |
| 0°-60°    | 3514.8 | 84.8      |
| 0°-90°    | 4146.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4146.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1663 | 1663  | 1663 | 1663  | 1663 |      |
| 5°  | 1657 | 1659  | 1655 | 1661  | 1663 | 158  |
| 15° | 1604 | 1606  | 1600 | 1606  | 1606 | 453  |
| 25° | 1491 | 1489  | 1485 | 1487  | 1489 | 687  |
| 35° | 1317 | 1315  | 1307 | 1301  | 1299 | 824  |
| 45° | 1080 | 1074  | 1045 | 1010  | 1002 | 831  |
| 55° | 767  | 728   | 653  | 616   | 605  | 687  |
| 65° | 432  | 397   | 364  | 335   | 325  | 429  |
| 75° | 184  | 186   | 188  | 182   | 178  | 197  |
| 85° | 41   | 53    | 66   | 61    | 57   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1663.0 | 1663.0 | 1663.0 | 1663.0 | 1663.0 |
| 2.5°  | 1661.1 | 1663.0 | 1656.8 | 1665.1 | 1667.1 |
| 5°    | 1656.8 | 1658.9 | 1654.8 | 1661.1 | 1663.0 |
| 7.5°  | 1650.8 | 1650.8 | 1646.7 | 1652.7 | 1654.8 |
| 10°   | 1638.5 | 1638.5 | 1634.4 | 1640.4 | 1642.6 |
| 12.5° | 1622.2 | 1622.2 | 1620.0 | 1624.1 | 1626.3 |
| 15°   | 1603.7 | 1605.7 | 1599.6 | 1605.7 | 1605.7 |
| 17.5° | 1581.2 | 1579.2 | 1577.1 | 1581.2 | 1583.3 |
| 20°   | 1554.5 | 1554.5 | 1548.5 | 1552.6 | 1554.5 |
| 22.5° | 1523.8 | 1523.8 | 1521.9 | 1523.8 | 1521.9 |
| 25°   | 1491.2 | 1489.0 | 1485.0 | 1487.1 | 1489.0 |
| 27.5° | 1452.3 | 1452.3 | 1448.2 | 1448.2 | 1446.1 |
| 30°   | 1413.5 | 1411.3 | 1405.3 | 1401.2 | 1403.1 |
| 32.5° | 1366.4 | 1364.3 | 1358.3 | 1354.2 | 1356.1 |
| 35°   | 1317.3 | 1315.3 | 1307.2 | 1300.9 | 1299.0 |
| 37.5° | 1268.3 | 1262.1 | 1251.8 | 1243.6 | 1235.4 |
| 40°   | 1206.9 | 1200.6 | 1190.6 | 1172.1 | 1169.9 |
| 42.5° | 1145.5 | 1139.4 | 1122.9 | 1100.6 | 1094.3 |
| 45°   | 1080.0 | 1073.9 | 1045.2 | 1010.4 | 1002.2 |
| 47.5° | 1010.4 | 1000.3 | 955.2  | 912.2  | 895.9  |
| 50°   | 932.9  | 914.4  | 861.1  | 805.9  | 787.5  |
| 52.5° | 857.1  | 824.4  | 754.8  | 705.7  | 687.4  |
| 55°   | 767.1  | 728.2  | 652.6  | 615.7  | 605.4  |
| 57.5° | 687.4  | 634.1  | 572.7  | 536.0  | 527.8  |
| 60°   | 595.3  | 546.1  | 497.1  | 464.3  | 452.0  |
| 62.5° | 511.3  | 468.4  | 427.6  | 398.8  | 384.6  |
| 65°   | 431.6  | 396.9  | 364.2  | 335.4  | 325.3  |
| 67.5° | 353.9  | 335.4  | 308.8  | 286.5  | 280.2  |
| 70°   | 288.4  | 278.1  | 259.8  | 249.5  | 241.4  |
| 72.5° | 229.1  | 233.2  | 221.0  | 216.9  | 210.7  |
| 75°   | 184.0  | 186.2  | 188.1  | 182.1  | 178.0  |
| 77.5° | 139.2  | 149.2  | 157.4  | 153.3  | 149.2  |
| 80°   | 104.4  | 114.5  | 128.8  | 122.8  | 122.8  |
| 82.5° | 71.5   | 84.0   | 96.2   | 92.1   | 90.0   |
| 85°   | 41.0   | 53.3   | 65.5   | 61.4   | 57.3   |
| 87.5° | 16.3   | 26.6   | 28.6   | 28.6   | 26.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)