

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: P1050655

Luminaire Tested: 24PTR-40-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-40-PC3-L850-UNV-STD-W  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source:  
Ballast/Driver: -

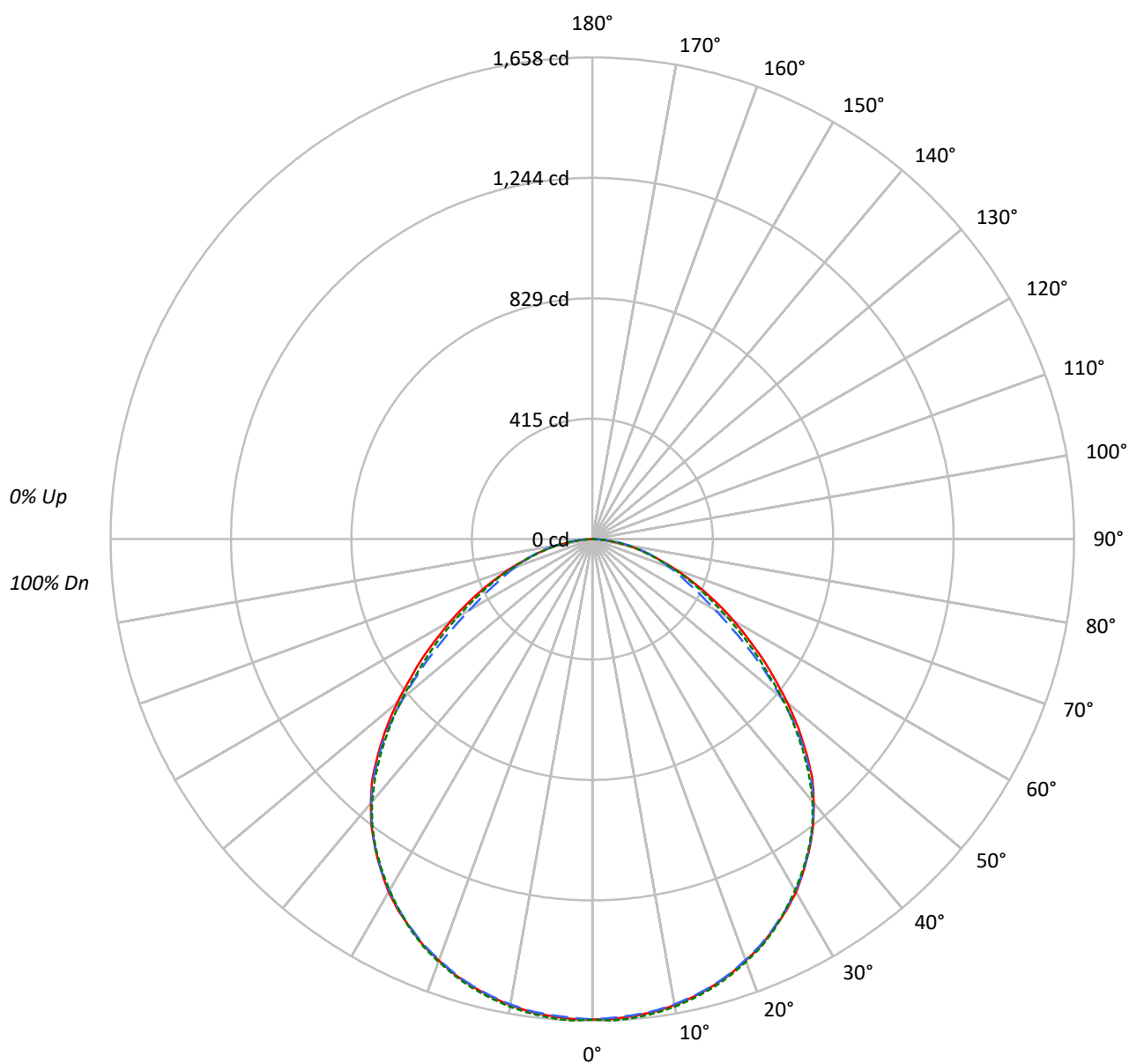
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4169.1 lumens  
Efficiency: N/A  
Efficacy: 126.3 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  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 77  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 41  |    |    |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2225 | 2225 | 2225 |
| 5°  | 2226 | 2222 | 2234 |
| 10° | 2225 | 2221 | 2233 |
| 15° | 2220 | 2218 | 2228 |
| 20° | 2210 | 2207 | 2216 |
| 25° | 2195 | 2192 | 2200 |
| 30° | 2179 | 2172 | 2168 |
| 35° | 2139 | 2137 | 2133 |
| 40° | 2083 | 2080 | 2070 |
| 45° | 1981 | 1966 | 1946 |
| 50° | 1833 | 1772 | 1792 |
| 55° | 1673 | 1537 | 1607 |
| 60° | 1509 | 1312 | 1439 |
| 65° | 1349 | 1174 | 1294 |
| 70° | 1196 | 1110 | 1163 |
| 75° | 1058 | 1076 | 1037 |
| 80° | 913  | 1027 | 907  |
| 85° | 684  | 814  | 684  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1985 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.8  | 3.8       |
| 10°-20°   | 450.2  | 10.8      |
| 20°-30°   | 681.6  | 16.3      |
| 30°-40°   | 812.6  | 19.5      |
| 40°-50°   | 794.0  | 19.0      |
| 50°-60°   | 607.1  | 14.6      |
| 60°-70°   | 389.8  | 9.4       |
| 70°-80°   | 216.9  | 5.2       |
| 80°-90°   | 59.9   | 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°    | 1288.7 | 30.9      |
| 0°-40°    | 2101.3 | 50.4      |
| 0°-60°    | 3502.5 | 84.0      |
| 0°-90°    | 4169.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4169.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1654 | 1654  | 1654 | 1654  | 1654 |      |
| 5°  | 1648 | 1649  | 1645 | 1653  | 1654 | 157  |
| 15° | 1594 | 1595  | 1592 | 1598  | 1599 | 450  |
| 25° | 1479 | 1480  | 1476 | 1481  | 1482 | 682  |
| 35° | 1302 | 1304  | 1301 | 1301  | 1299 | 814  |
| 45° | 1041 | 1043  | 1033 | 1031  | 1023 | 801  |
| 55° | 713  | 688   | 655  | 664   | 685  | 638  |
| 65° | 424  | 391   | 369  | 381   | 406  | 422  |
| 75° | 204  | 205   | 207  | 204   | 199  | 217  |
| 85° | 44   | 52    | 53   | 51    | 44   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1653.6 | 1653.6 | 1653.6 | 1653.6 | 1653.6 |
| 2.5°  | 1652.6 | 1653.2 | 1648.9 | 1656.0 | 1658.4 |
| 5°    | 1647.8 | 1648.9 | 1644.8 | 1652.6 | 1654.3 |
| 7.5°  | 1640.8 | 1641.8 | 1637.7 | 1645.5 | 1646.1 |
| 10°   | 1628.9 | 1629.6 | 1625.9 | 1633.7 | 1634.7 |
| 12.5° | 1613.0 | 1614.8 | 1610.7 | 1617.8 | 1618.2 |
| 15°   | 1593.9 | 1595.2 | 1592.2 | 1597.6 | 1599.3 |
| 17.5° | 1571.6 | 1572.2 | 1569.2 | 1575.0 | 1575.6 |
| 20°   | 1543.6 | 1543.6 | 1541.3 | 1547.9 | 1547.9 |
| 22.5° | 1515.3 | 1513.5 | 1512.9 | 1515.3 | 1518.9 |
| 25°   | 1478.7 | 1480.4 | 1476.4 | 1481.1 | 1482.2 |
| 27.5° | 1443.3 | 1443.3 | 1439.6 | 1442.0 | 1439.0 |
| 30°   | 1402.4 | 1400.1 | 1397.7 | 1398.1 | 1395.3 |
| 32.5° | 1353.2 | 1353.2 | 1352.1 | 1352.1 | 1348.5 |
| 35°   | 1302.5 | 1303.6 | 1301.2 | 1300.6 | 1298.9 |
| 37.5° | 1247.9 | 1249.9 | 1245.6 | 1244.5 | 1243.2 |
| 40°   | 1185.8 | 1185.8 | 1184.1 | 1181.7 | 1178.7 |
| 42.5° | 1121.3 | 1121.3 | 1113.8 | 1107.8 | 1103.7 |
| 45°   | 1041.0 | 1043.3 | 1033.2 | 1030.9 | 1022.7 |
| 47.5° | 961.0  | 959.3  | 945.8  | 944.1  | 939.3  |
| 50°   | 875.9  | 865.8  | 846.5  | 851.6  | 855.9  |
| 52.5° | 790.8  | 778.4  | 750.0  | 755.8  | 762.9  |
| 55°   | 713.3  | 688.5  | 655.4  | 663.6  | 684.9  |
| 57.5° | 632.2  | 599.1  | 566.0  | 581.5  | 607.9  |
| 60°   | 560.7  | 523.5  | 487.4  | 503.9  | 534.7  |
| 62.5° | 492.1  | 452.6  | 423.6  | 439.5  | 465.5  |
| 65°   | 423.6  | 390.9  | 368.6  | 380.8  | 406.4  |
| 67.5° | 360.8  | 338.9  | 323.6  | 329.4  | 350.1  |
| 70°   | 304.1  | 290.3  | 282.2  | 283.9  | 295.7  |
| 72.5° | 250.1  | 246.7  | 243.7  | 243.7  | 244.8  |
| 75°   | 203.5  | 205.2  | 206.9  | 204.2  | 199.4  |
| 77.5° | 160.3  | 166.1  | 170.4  | 164.4  | 158.6  |
| 80°   | 117.8  | 127.2  | 132.6  | 125.9  | 117.1  |
| 82.5° | 80.4   | 91.1   | 92.8   | 88.8   | 78.7   |
| 85°   | 44.3   | 52.0   | 52.7   | 50.9   | 44.3   |
| 87.5° | 16.5   | 19.6   | 21.3   | 19.6   | 17.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)