

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: P1050875

Luminaire Tested: 24PTR-40-PP3-L840-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-40-PP3-L840-UNV-STD-W  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS  
  
Light Source:  
Ballast/Driver: -

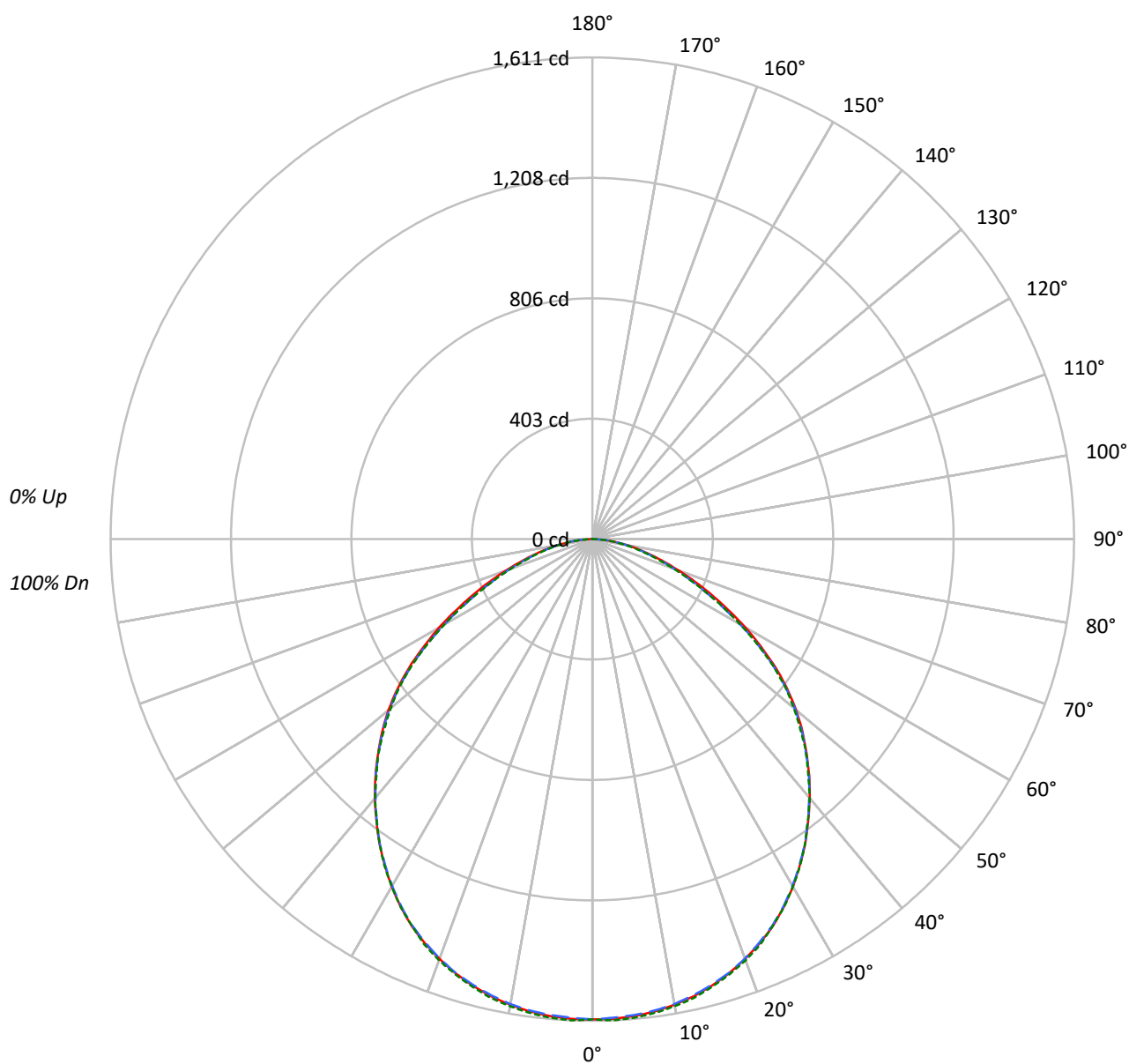
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4150.6 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 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 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 74  | 74  | 72  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 55  | 55  | 53  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 52  | 48  | 48  | 48  | 46  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 38  | 38  | 36  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 34  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 31  | 31  | 31  | 29  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 28  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2161 | 2161 | 2161 |
| 5°  | 2163 | 2159 | 2170 |
| 10° | 2160 | 2157 | 2168 |
| 15° | 2153 | 2149 | 2159 |
| 20° | 2139 | 2137 | 2146 |
| 25° | 2120 | 2117 | 2119 |
| 30° | 2084 | 2080 | 2084 |
| 35° | 2039 | 2036 | 2038 |
| 40° | 1987 | 1981 | 1986 |
| 45° | 1927 | 1921 | 1924 |
| 50° | 1863 | 1854 | 1841 |
| 55° | 1753 | 1733 | 1728 |
| 60° | 1591 | 1538 | 1541 |
| 65° | 1398 | 1328 | 1325 |
| 70° | 1209 | 1153 | 1140 |
| 75° | 1045 | 1007 | 985  |
| 80° | 926  | 913  | 872  |
| 85° | 766  | 792  | 746  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1934 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.3  | 3.7       |
| 10°-20°   | 436.5  | 10.5      |
| 20°-30°   | 657.1  | 15.8      |
| 30°-40°   | 775.5  | 18.7      |
| 40°-50°   | 780.0  | 18.8      |
| 50°-60°   | 658.5  | 15.9      |
| 60°-70°   | 422.9  | 10.2      |
| 70°-80°   | 210.3  | 5.1       |
| 80°-90°   | 57.6   | 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°    | 1245.9 | 30.0      |
| 0°-40°    | 2021.4 | 48.7      |
| 0°-60°    | 3459.8 | 83.4      |
| 0°-90°    | 4150.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4150.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1606 | 1606  | 1606 | 1606  | 1606 |      |
| 5°  | 1602 | 1602  | 1598 | 1606  | 1607 | 152  |
| 15° | 1546 | 1546  | 1543 | 1550  | 1550 | 436  |
| 25° | 1428 | 1428  | 1426 | 1428  | 1427 | 657  |
| 35° | 1241 | 1242  | 1240 | 1241  | 1241 | 776  |
| 45° | 1013 | 1016  | 1010 | 1011  | 1011 | 782  |
| 55° | 748  | 747   | 739  | 736   | 736  | 665  |
| 65° | 439  | 433   | 417  | 413   | 416  | 438  |
| 75° | 201  | 200   | 194  | 192   | 189  | 218  |
| 85° | 50   | 51    | 51   | 48    | 48   | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1606.4 | 1606.4 | 1606.4 | 1606.4 | 1606.4 |
| 2.5°  | 1605.8 | 1606.4 | 1602.2 | 1609.8 | 1611.1 |
| 5°    | 1601.8 | 1602.2 | 1598.2 | 1605.8 | 1606.9 |
| 7.5°  | 1593.5 | 1594.1 | 1590.5 | 1597.5 | 1598.8 |
| 10°   | 1581.2 | 1583.1 | 1578.9 | 1585.5 | 1586.5 |
| 12.5° | 1566.2 | 1566.8 | 1562.6 | 1570.2 | 1571.5 |
| 15°   | 1545.8 | 1546.3 | 1542.9 | 1549.9 | 1549.9 |
| 17.5° | 1522.3 | 1523.0 | 1520.6 | 1526.6 | 1525.9 |
| 20°   | 1493.9 | 1495.6 | 1492.7 | 1496.7 | 1499.0 |
| 22.5° | 1463.0 | 1463.6 | 1460.0 | 1465.3 | 1467.7 |
| 25°   | 1428.0 | 1428.5 | 1425.7 | 1428.5 | 1427.4 |
| 27.5° | 1387.1 | 1388.2 | 1384.2 | 1387.1 | 1387.8 |
| 30°   | 1341.6 | 1344.6 | 1338.8 | 1341.2 | 1341.6 |
| 32.5° | 1292.6 | 1294.3 | 1290.3 | 1291.0 | 1293.9 |
| 35°   | 1241.4 | 1242.0 | 1239.7 | 1240.7 | 1240.7 |
| 37.5° | 1186.1 | 1188.4 | 1184.8 | 1186.5 | 1184.2 |
| 40°   | 1131.2 | 1128.9 | 1127.6 | 1128.9 | 1130.6 |
| 42.5° | 1073.4 | 1074.0 | 1072.3 | 1071.0 | 1068.3 |
| 45°   | 1012.8 | 1016.4 | 1009.8 | 1011.1 | 1011.1 |
| 47.5° | 953.4  | 953.9  | 950.5  | 946.9  | 944.5  |
| 50°   | 889.9  | 889.9  | 885.6  | 882.9  | 879.3  |
| 52.5° | 820.4  | 819.3  | 814.7  | 811.7  | 813.4  |
| 55°   | 747.5  | 746.9  | 738.8  | 735.8  | 736.5  |
| 57.5° | 667.6  | 668.9  | 656.6  | 653.6  | 653.6  |
| 60°   | 591.3  | 585.4  | 571.4  | 567.4  | 572.5  |
| 62.5° | 511.3  | 504.3  | 489.2  | 489.2  | 493.2  |
| 65°   | 439.0  | 432.6  | 417.0  | 412.7  | 416.3  |
| 67.5° | 371.4  | 365.5  | 351.1  | 348.7  | 349.8  |
| 70°   | 307.2  | 302.1  | 293.2  | 287.9  | 289.8  |
| 72.5° | 251.9  | 247.3  | 241.3  | 237.3  | 235.0  |
| 75°   | 201.1  | 200.0  | 193.7  | 191.7  | 189.4  |
| 77.5° | 159.1  | 158.7  | 153.4  | 151.1  | 148.7  |
| 80°   | 119.5  | 118.9  | 117.8  | 114.2  | 112.5  |
| 82.5° | 85.2   | 85.2   | 84.5   | 81.6   | 79.9   |
| 85°   | 49.6   | 51.3   | 51.3   | 48.3   | 48.3   |
| 87.5° | 19.9   | 21.0   | 19.9   | 19.9   | 19.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |









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





(END OF REPORT)