

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: P1050207

Luminaire Tested: PTR-14-50-PC3-L835-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050207  
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: PTR-14-50-PC3-L835-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source:  
Ballast/Driver: -

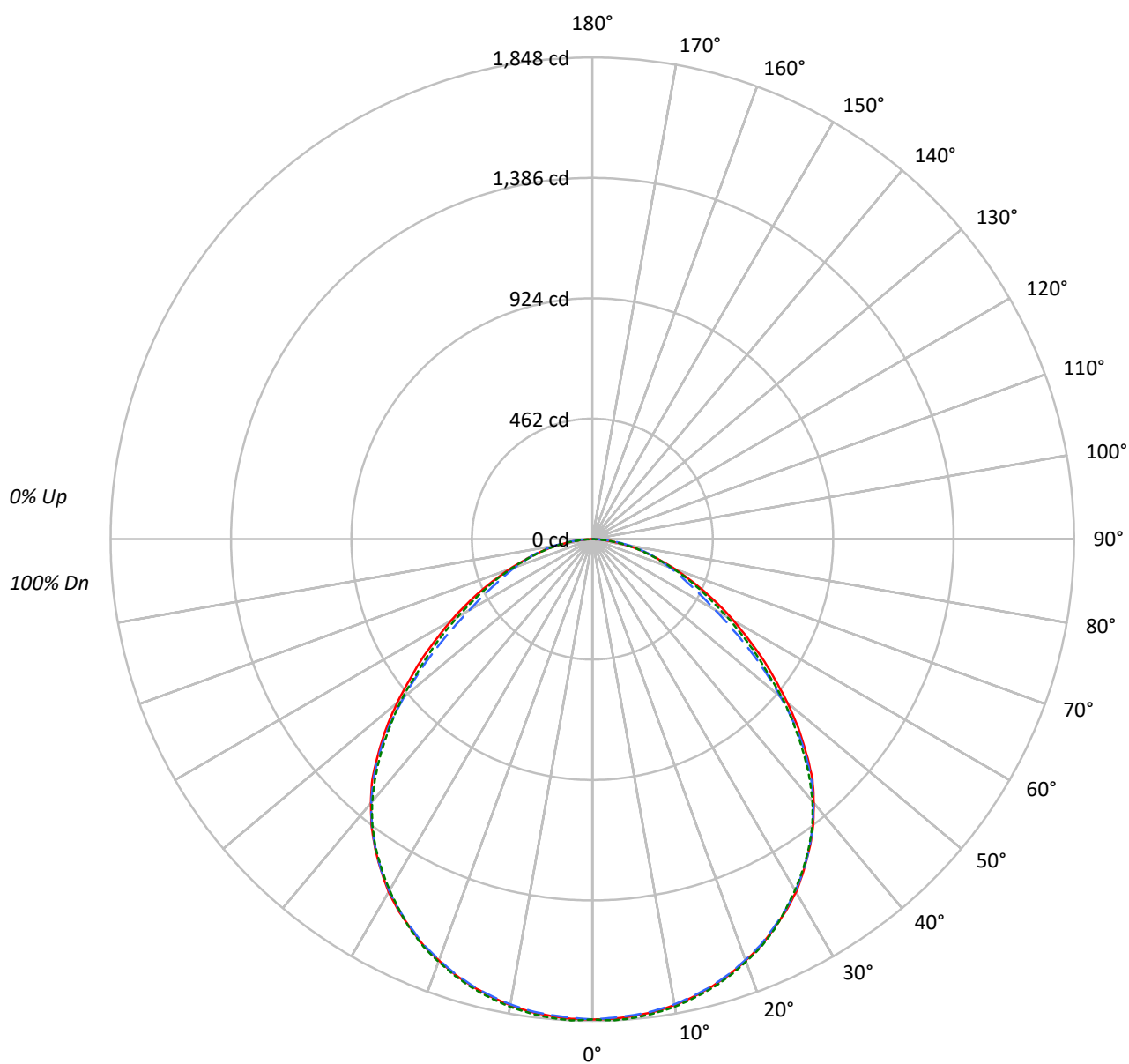
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4646.5 lumens  
Efficiency: N/A  
Efficacy: 113.6 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  | 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°  | 4959 | 4959 | 4959 |
| 5°  | 4961 | 4952 | 4980 |
| 10° | 4961 | 4952 | 4978 |
| 15° | 4949 | 4944 | 4966 |
| 20° | 4927 | 4919 | 4940 |
| 25° | 4893 | 4885 | 4905 |
| 30° | 4857 | 4841 | 4832 |
| 35° | 4769 | 4764 | 4755 |
| 40° | 4643 | 4636 | 4615 |
| 45° | 4415 | 4383 | 4338 |
| 50° | 4087 | 3949 | 3994 |
| 55° | 3729 | 3427 | 3581 |
| 60° | 3363 | 2923 | 3207 |
| 65° | 3006 | 2616 | 2884 |
| 70° | 2666 | 2474 | 2593 |
| 75° | 2358 | 2398 | 2311 |
| 80° | 2035 | 2290 | 2022 |
| 85° | 1522 | 1812 | 1522 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4425 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.8  | 3.8       |
| 10°-20°   | 501.8  | 10.8      |
| 20°-30°   | 759.7  | 16.3      |
| 30°-40°   | 905.7  | 19.5      |
| 40°-50°   | 885.0  | 19.0      |
| 50°-60°   | 676.7  | 14.6      |
| 60°-70°   | 434.5  | 9.4       |
| 70°-80°   | 241.7  | 5.2       |
| 80°-90°   | 66.8   | 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°    | 1436.2 | 30.9      |
| 0°-40°    | 2341.9 | 50.4      |
| 0°-60°    | 3903.6 | 84.0      |
| 0°-90°    | 4646.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4646.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1843 | 1843  | 1843 | 1843  | 1843 |      |
| 5°  | 1837 | 1838  | 1833 | 1842  | 1844 | 175  |
| 15° | 1776 | 1778  | 1774 | 1780  | 1782 | 501  |
| 25° | 1648 | 1650  | 1645 | 1651  | 1652 | 760  |
| 35° | 1452 | 1453  | 1450 | 1450  | 1448 | 907  |
| 45° | 1160 | 1163  | 1152 | 1149  | 1140 | 893  |
| 55° | 795  | 767   | 730  | 740   | 763  | 711  |
| 65° | 472  | 436   | 411  | 424   | 453  | 471  |
| 75° | 227  | 229   | 231  | 228   | 222  | 242  |
| 85° | 49   | 58    | 59   | 57    | 49   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1843.0 | 1843.0 | 1843.0 | 1843.0 | 1843.0 |
| 2.5°  | 1841.8 | 1842.5 | 1837.8 | 1845.7 | 1848.3 |
| 5°    | 1836.6 | 1837.8 | 1833.2 | 1841.8 | 1843.7 |
| 7.5°  | 1828.7 | 1829.9 | 1825.3 | 1833.9 | 1834.6 |
| 10°   | 1815.5 | 1816.2 | 1812.1 | 1820.8 | 1821.9 |
| 12.5° | 1797.8 | 1799.7 | 1795.1 | 1803.0 | 1803.5 |
| 15°   | 1776.4 | 1777.9 | 1774.5 | 1780.5 | 1782.4 |
| 17.5° | 1751.5 | 1752.3 | 1748.9 | 1755.4 | 1756.1 |
| 20°   | 1720.4 | 1720.4 | 1717.8 | 1725.2 | 1725.2 |
| 22.5° | 1688.8 | 1686.9 | 1686.1 | 1688.8 | 1692.9 |
| 25°   | 1648.1 | 1650.0 | 1645.4 | 1650.7 | 1651.9 |
| 27.5° | 1608.5 | 1608.5 | 1604.5 | 1607.1 | 1603.8 |
| 30°   | 1563.0 | 1560.4 | 1557.8 | 1558.2 | 1555.1 |
| 32.5° | 1508.2 | 1508.2 | 1507.0 | 1507.0 | 1502.9 |
| 35°   | 1451.7 | 1452.9 | 1450.2 | 1449.5 | 1447.6 |
| 37.5° | 1390.8 | 1393.0 | 1388.2 | 1387.0 | 1385.6 |
| 40°   | 1321.6 | 1321.6 | 1319.7 | 1317.1 | 1313.7 |
| 42.5° | 1249.8 | 1249.8 | 1241.4 | 1234.7 | 1230.1 |
| 45°   | 1160.2 | 1162.8 | 1151.6 | 1148.9 | 1139.8 |
| 47.5° | 1071.1 | 1069.2 | 1054.1 | 1052.2 | 1046.9 |
| 50°   | 976.2  | 965.0  | 943.4  | 949.2  | 954.0  |
| 52.5° | 881.4  | 867.5  | 835.9  | 842.4  | 850.3  |
| 55°   | 794.9  | 767.4  | 730.5  | 739.6  | 763.3  |
| 57.5° | 704.6  | 667.8  | 630.9  | 648.1  | 677.6  |
| 60°   | 624.9  | 583.4  | 543.2  | 561.7  | 595.9  |
| 62.5° | 548.5  | 504.4  | 472.1  | 489.8  | 518.8  |
| 65°   | 472.1  | 435.7  | 410.8  | 424.4  | 452.9  |
| 67.5° | 402.1  | 377.7  | 360.7  | 367.2  | 390.2  |
| 70°   | 338.9  | 323.6  | 314.5  | 316.4  | 329.6  |
| 72.5° | 278.8  | 275.0  | 271.6  | 271.6  | 272.8  |
| 75°   | 226.8  | 228.7  | 230.6  | 227.5  | 222.3  |
| 77.5° | 178.7  | 185.1  | 189.9  | 183.2  | 176.8  |
| 80°   | 131.3  | 141.8  | 147.8  | 140.4  | 130.5  |
| 82.5° | 89.6   | 101.6  | 103.5  | 98.9   | 87.7   |
| 85°   | 49.3   | 58.0   | 58.7   | 56.8   | 49.3   |
| 87.5° | 18.4   | 21.8   | 23.7   | 21.8   | 19.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)