

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: P1050198

Luminaire Tested: PTR-14-80-PC3-L940-UNV-STD-W

Issue Date: 7/11/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1050198  
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-14-80-PC3-L940-UNV-STD-W  
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

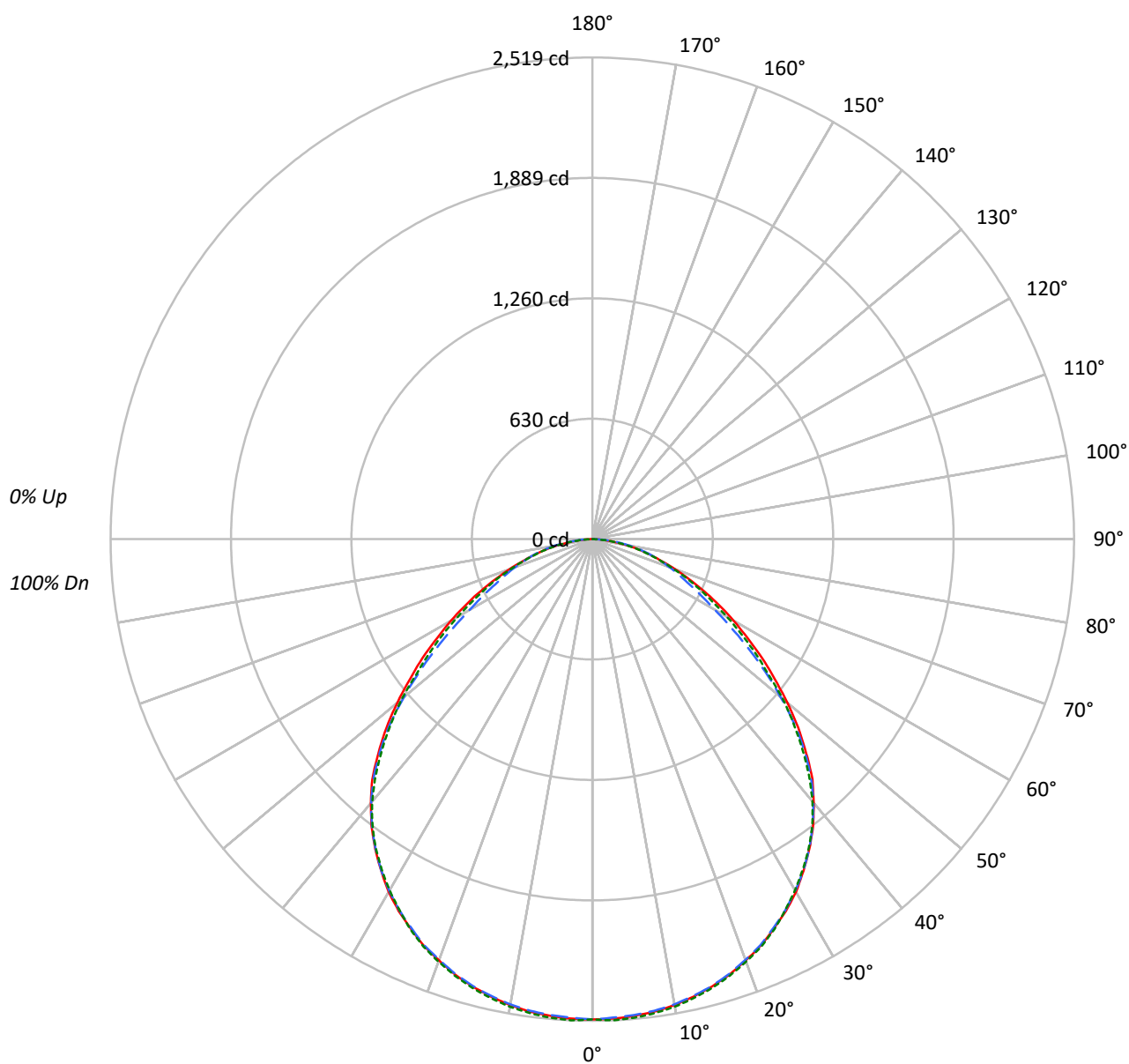
Lumens per Lamp: N/A  
Luminaire Lumens: 6333.1 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 71  
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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 75  | 75  | 72  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 77  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 64  | 64  | 62  |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 56  | 56  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 56  | 50  | 62  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 49  | 49  | 47  |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 43  | 43  | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 39  | 39  | 37  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 35  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 31  | 31  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 29  | 29  | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6760 | 6760 | 6760 |
| 5°  | 6762 | 6749 | 6788 |
| 10° | 6762 | 6749 | 6786 |
| 15° | 6746 | 6738 | 6768 |
| 20° | 6715 | 6705 | 6734 |
| 25° | 6670 | 6659 | 6685 |
| 30° | 6620 | 6597 | 6586 |
| 35° | 6500 | 6493 | 6482 |
| 40° | 6328 | 6319 | 6290 |
| 45° | 6018 | 5973 | 5912 |
| 50° | 5570 | 5383 | 5443 |
| 55° | 5083 | 4671 | 4881 |
| 60° | 4584 | 3985 | 4371 |
| 65° | 4097 | 3565 | 3931 |
| 70° | 3634 | 3372 | 3534 |
| 75° | 3214 | 3269 | 3149 |
| 80° | 2772 | 3121 | 2757 |
| 85° | 2075 | 2470 | 2075 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6032 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.3  | 3.8       |
| 10°-20°   | 683.9  | 10.8      |
| 20°-30°   | 1035.4 | 16.3      |
| 30°-40°   | 1234.5 | 19.5      |
| 40°-50°   | 1206.2 | 19.0      |
| 50°-60°   | 922.3  | 14.6      |
| 60°-70°   | 592.2  | 9.4       |
| 70°-80°   | 329.4  | 5.2       |
| 80°-90°   | 91.0   | 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°    | 1957.6 | 30.9      |
| 0°-40°    | 3192.0 | 50.4      |
| 0°-60°    | 5320.5 | 84.0      |
| 0°-90°    | 6333.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6333.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2512 | 2512  | 2512 | 2512  | 2512 |      |
| 5°  | 2503 | 2505  | 2499 | 2510  | 2513 | 238  |
| 15° | 2421 | 2423  | 2419 | 2427  | 2429 | 683  |
| 25° | 2246 | 2249  | 2243 | 2250  | 2252 | 1036 |
| 35° | 1979 | 1980  | 1977 | 1976  | 1973 | 1236 |
| 45° | 1581 | 1585  | 1570 | 1566  | 1554 | 1217 |
| 55° | 1084 | 1046  | 996  | 1008  | 1040 | 968  |
| 65° | 643  | 594   | 560  | 578   | 617  | 642  |
| 75° | 309  | 312   | 314  | 310   | 303  | 330  |
| 85° | 67   | 79    | 80   | 77    | 67   | 83   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2512.0 | 2512.0 | 2512.0 | 2512.0 | 2512.0 |
| 2.5°  | 2510.4 | 2511.4 | 2504.8 | 2515.6 | 2519.2 |
| 5°    | 2503.2 | 2504.8 | 2498.6 | 2510.4 | 2513.0 |
| 7.5°  | 2492.4 | 2494.1 | 2487.9 | 2499.6 | 2500.6 |
| 10°   | 2474.5 | 2475.5 | 2469.9 | 2481.7 | 2483.3 |
| 12.5° | 2450.3 | 2452.9 | 2446.7 | 2457.5 | 2458.2 |
| 15°   | 2421.3 | 2423.2 | 2418.7 | 2426.8 | 2429.4 |
| 17.5° | 2387.3 | 2388.3 | 2383.7 | 2392.5 | 2393.5 |
| 20°   | 2344.9 | 2344.9 | 2341.3 | 2351.4 | 2351.4 |
| 22.5° | 2301.8 | 2299.2 | 2298.2 | 2301.8 | 2307.3 |
| 25°   | 2246.3 | 2248.9 | 2242.7 | 2249.9 | 2251.5 |
| 27.5° | 2192.4 | 2192.4 | 2186.9 | 2190.5 | 2185.9 |
| 30°   | 2130.4 | 2126.8 | 2123.2 | 2123.9 | 2119.6 |
| 32.5° | 2055.6 | 2055.6 | 2054.0 | 2054.0 | 2048.5 |
| 35°   | 1978.6 | 1980.2 | 1976.6 | 1975.7 | 1973.1 |
| 37.5° | 1895.7 | 1898.6 | 1892.1 | 1890.5 | 1888.5 |
| 40°   | 1801.3 | 1801.3 | 1798.7 | 1795.1 | 1790.6 |
| 42.5° | 1703.4 | 1703.4 | 1692.0 | 1682.8 | 1676.6 |
| 45°   | 1581.3 | 1584.9 | 1569.6 | 1566.0 | 1553.6 |
| 47.5° | 1459.9 | 1457.3 | 1436.7 | 1434.1 | 1426.9 |
| 50°   | 1330.6 | 1315.3 | 1285.9 | 1293.7 | 1300.2 |
| 52.5° | 1201.3 | 1182.4 | 1139.3 | 1148.1 | 1158.9 |
| 55°   | 1083.5 | 1045.9 | 995.7  | 1008.1 | 1040.4 |
| 57.5° | 960.4  | 910.1  | 859.9  | 883.4  | 923.5  |
| 60°   | 851.7  | 795.2  | 740.4  | 765.5  | 812.2  |
| 62.5° | 747.6  | 687.5  | 643.4  | 667.6  | 707.1  |
| 65°   | 643.4  | 593.8  | 559.9  | 578.5  | 617.3  |
| 67.5° | 548.1  | 514.8  | 491.6  | 500.4  | 531.8  |
| 70°   | 461.9  | 441.0  | 428.6  | 431.2  | 449.2  |
| 72.5° | 380.0  | 374.8  | 370.2  | 370.2  | 371.8  |
| 75°   | 309.1  | 311.8  | 314.4  | 310.1  | 302.9  |
| 77.5° | 243.5  | 252.3  | 258.9  | 249.7  | 240.9  |
| 80°   | 178.9  | 193.3  | 201.4  | 191.3  | 177.9  |
| 82.5° | 122.1  | 138.4  | 141.0  | 134.8  | 119.5  |
| 85°   | 67.2   | 79.0   | 80.0   | 77.4   | 67.2   |
| 87.5° | 25.1   | 29.7   | 32.3   | 29.7   | 26.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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





(END OF REPORT)