

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: P1046793

Luminaire Tested: 22PTR-45-PC3-L940-UNV-STD-W

Issue Date: 7/10/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1046793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-45-PC3-L940-UNV-STD-W  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PARAMID LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

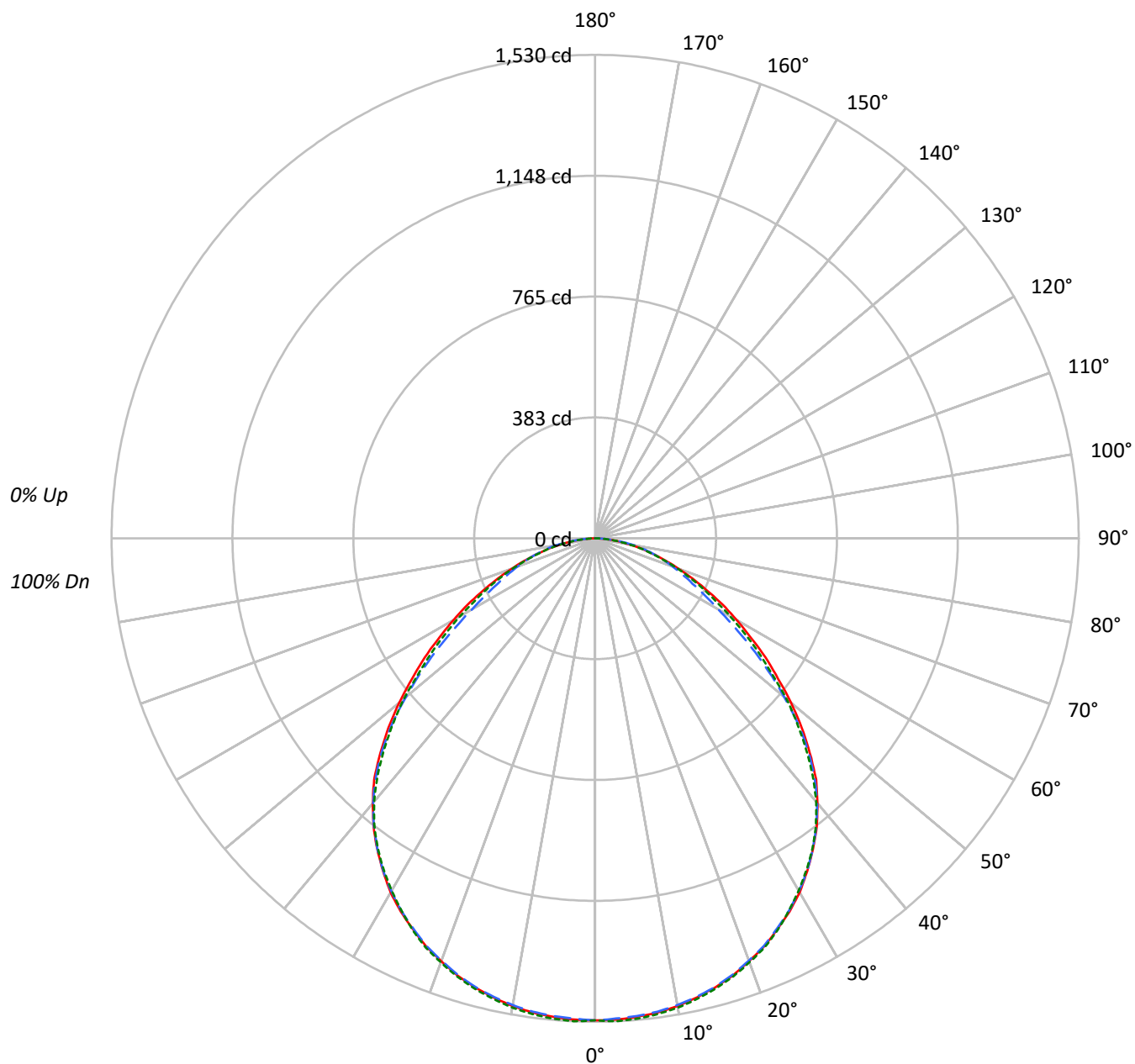
Lumens per Lamp: N/A  
Luminaire Lumens: 3847.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '  
CIE Type: Direct

Input Watts (W): 35  
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°  | Luminous shape not found,<br>reference photometric report, or contact<br>the photometric lab for calculations. |     |     |
| 5°  |                                                                                                                |     |     |
| 10° |                                                                                                                |     |     |
| 15° |                                                                                                                |     |     |
| 20° |                                                                                                                |     |     |
| 25° |                                                                                                                |     |     |
| 30° |                                                                                                                |     |     |
| 35° |                                                                                                                |     |     |
| 40° |                                                                                                                |     |     |
| 45° |                                                                                                                |     |     |
| 50° |                                                                                                                |     |     |
| 55° |                                                                                                                |     |     |
| 60° |                                                                                                                |     |     |
| 65° |                                                                                                                |     |     |
| 70° |                                                                                                                |     |     |
| 75° |                                                                                                                |     |     |
| 80° |                                                                                                                |     |     |
| 85° |                                                                                                                |     |     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: -  
Vertical Angle: -  
Luminance: -

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.7  | 3.8       |
| 10°-20°   | 415.4  | 10.8      |
| 20°-30°   | 629.0  | 16.3      |
| 30°-40°   | 749.9  | 19.5      |
| 40°-50°   | 732.7  | 19.0      |
| 50°-60°   | 560.3  | 14.6      |
| 60°-70°   | 359.7  | 9.4       |
| 70°-80°   | 200.1  | 5.2       |
| 80°-90°   | 55.3   | 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°    | 1189.1 | 30.9      |
| 0°-40°    | 1939.0 | 50.4      |
| 0°-60°    | 3231.9 | 84.0      |
| 0°-90°    | 3847.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3847.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1526 | 1526  | 1526 | 1526  | 1526 |      |
| 5°  | 1521 | 1522  | 1518 | 1525  | 1526 | 145  |
| 15° | 1471 | 1472  | 1469 | 1474  | 1476 | 415  |
| 25° | 1364 | 1366  | 1362 | 1367  | 1368 | 629  |
| 35° | 1202 | 1203  | 1201 | 1200  | 1198 | 751  |
| 45° | 961  | 963   | 953  | 951   | 944  | 739  |
| 55° | 658  | 635   | 605  | 612   | 632  | 588  |
| 65° | 391  | 361   | 340  | 351   | 375  | 390  |
| 75° | 188  | 189   | 191  | 188   | 184  | 201  |
| 85° | 41   | 48    | 49   | 47    | 41   | 50   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1525.9 | 1525.9 | 1525.9 | 1525.9 | 1525.9 |
| 2.5°  | 1524.9 | 1525.5 | 1521.5 | 1528.1 | 1530.3 |
| 5°    | 1520.6 | 1521.5 | 1517.8 | 1524.9 | 1526.5 |
| 7.5°  | 1514.0 | 1515.0 | 1511.2 | 1518.4 | 1519.0 |
| 10°   | 1503.1 | 1503.7 | 1500.3 | 1507.5 | 1508.5 |
| 12.5° | 1488.4 | 1490.0 | 1486.3 | 1492.8 | 1493.2 |
| 15°   | 1470.8 | 1472.0 | 1469.2 | 1474.2 | 1475.7 |
| 17.5° | 1450.2 | 1450.8 | 1448.0 | 1453.3 | 1453.9 |
| 20°   | 1424.4 | 1424.4 | 1422.2 | 1428.3 | 1428.3 |
| 22.5° | 1398.2 | 1396.6 | 1396.0 | 1398.2 | 1401.6 |
| 25°   | 1364.5 | 1366.1 | 1362.3 | 1366.7 | 1367.7 |
| 27.5° | 1331.8 | 1331.8 | 1328.4 | 1330.6 | 1327.8 |
| 30°   | 1294.1 | 1291.9 | 1289.7 | 1290.1 | 1287.6 |
| 32.5° | 1248.7 | 1248.7 | 1247.7 | 1247.7 | 1244.3 |
| 35°   | 1201.9 | 1202.9 | 1200.7 | 1200.1 | 1198.5 |
| 37.5° | 1151.5 | 1153.3 | 1149.3 | 1148.4 | 1147.2 |
| 40°   | 1094.2 | 1094.2 | 1092.6 | 1090.4 | 1087.7 |
| 42.5° | 1034.7 | 1034.7 | 1027.8 | 1022.2 | 1018.5 |
| 45°   | 960.6  | 962.7  | 953.4  | 951.2  | 943.7  |
| 47.5° | 886.8  | 885.2  | 872.7  | 871.1  | 866.8  |
| 50°   | 808.3  | 798.9  | 781.1  | 785.9  | 789.8  |
| 52.5° | 729.7  | 718.2  | 692.1  | 697.4  | 704.0  |
| 55°   | 658.2  | 635.4  | 604.8  | 612.3  | 632.0  |
| 57.5° | 583.4  | 552.9  | 522.3  | 536.6  | 561.0  |
| 60°   | 517.4  | 483.1  | 449.7  | 465.0  | 493.4  |
| 62.5° | 454.1  | 417.6  | 390.8  | 405.5  | 429.5  |
| 65°   | 390.8  | 360.7  | 340.1  | 351.4  | 375.0  |
| 67.5° | 332.9  | 312.7  | 298.6  | 304.0  | 323.0  |
| 70°   | 280.6  | 267.9  | 260.4  | 262.0  | 272.9  |
| 72.5° | 230.8  | 227.6  | 224.9  | 224.9  | 225.9  |
| 75°   | 187.8  | 189.4  | 191.0  | 188.4  | 184.0  |
| 77.5° | 147.9  | 153.3  | 157.3  | 151.7  | 146.3  |
| 80°   | 108.7  | 117.4  | 122.4  | 116.2  | 108.1  |
| 82.5° | 74.2   | 84.1   | 85.7   | 81.9   | 72.6   |
| 85°   | 40.8   | 48.0   | 48.6   | 47.0   | 40.8   |
| 87.5° | 15.3   | 18.0   | 19.6   | 18.0   | 15.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report







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







(END OF REPORT)