

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: P1046710

Luminaire Tested: 22PTR-50-L940-UNV-STD-W

Issue Date: 7/10/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1046710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-50-L940-UNV-STD-W  
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

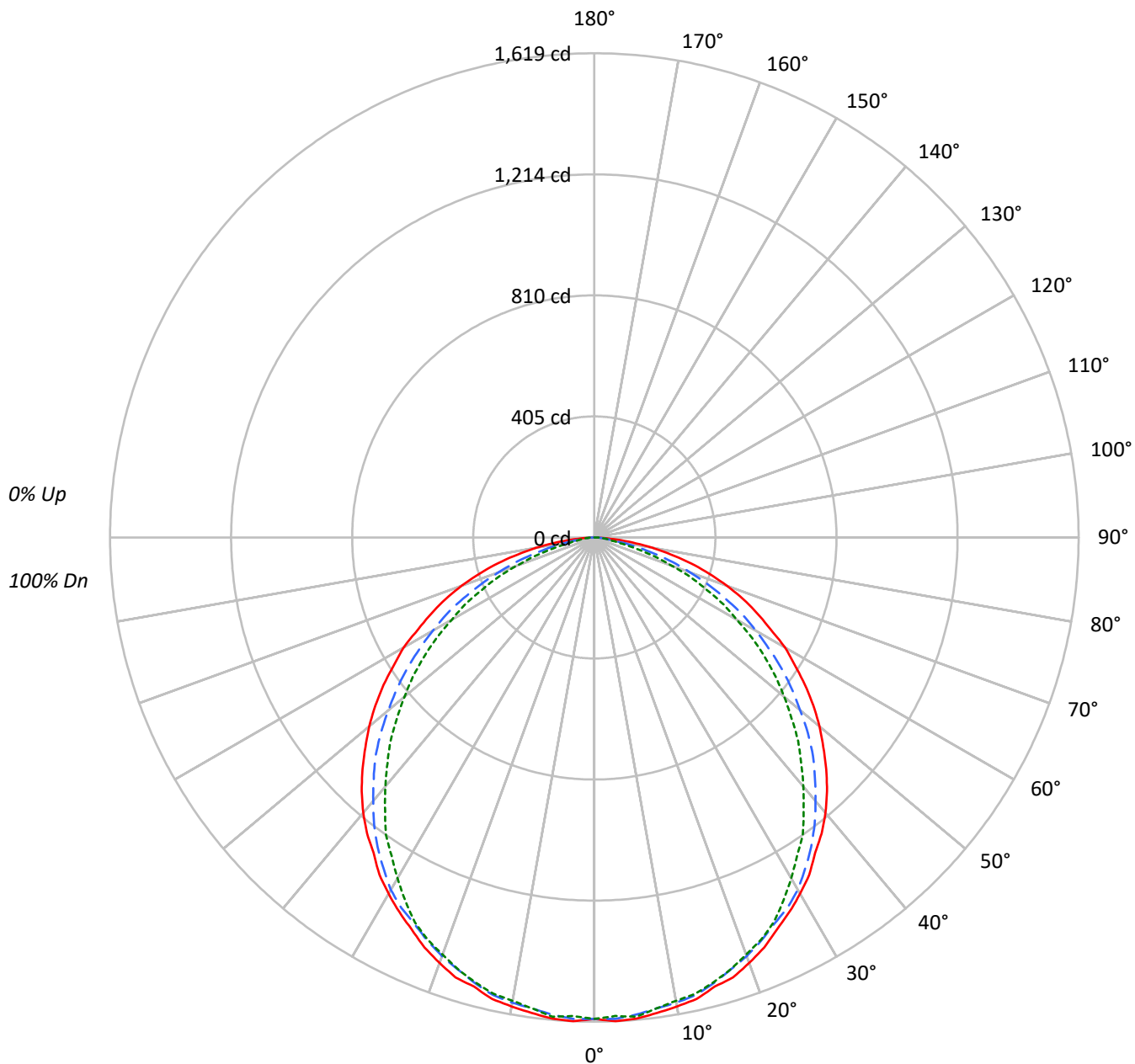
Lumens per Lamp: N/A  
Luminaire Lumens: 4287.1 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35  
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '  
CIE Type: Direct

Input Watts (W): 39  
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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |    |    |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 26  |    |    |

**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°    | 152.6  | 3.6       |
| 10°-20°   | 436.6  | 10.2      |
| 20°-30°   | 659.4  | 15.4      |
| 30°-40°   | 784.0  | 18.3      |
| 40°-50°   | 795.2  | 18.5      |
| 50°-60°   | 690.5  | 16.1      |
| 60°-70°   | 490.2  | 11.4      |
| 70°-80°   | 234.2  | 5.5       |
| 80°-90°   | 44.4   | 1.0       |
| 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°    | 1248.6 | 29.1      |
| 0°-40°    | 2032.6 | 47.4      |
| 0°-60°    | 3518.3 | 82.1      |
| 0°-90°    | 4287.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4287.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1610 | 1610  | 1610 | 1610  | 1610 |      |
| 5°  | 1615 | 1610  | 1602 | 1606  | 1608 | 153  |
| 15° | 1555 | 1559  | 1542 | 1540  | 1540 | 440  |
| 25° | 1446 | 1444  | 1424 | 1430  | 1420 | 668  |
| 35° | 1286 | 1284  | 1263 | 1220  | 1214 | 808  |
| 45° | 1096 | 1086  | 1034 | 980   | 963  | 845  |
| 55° | 860  | 834   | 764  | 719   | 694  | 768  |
| 65° | 601  | 556   | 483  | 431   | 415  | 595  |
| 75° | 334  | 273   | 203  | 161   | 143  | 351  |
| 85° | 65   | 34    | 30   | 29    | 28   | 82   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1609.5 | 1609.5 | 1609.5 | 1609.5 | 1609.5 |
| 2.5°  | 1619.0 | 1613.3 | 1611.4 | 1618.1 | 1601.8 |
| 5°    | 1615.2 | 1609.5 | 1601.8 | 1605.6 | 1608.5 |
| 7.5°  | 1603.7 | 1598.9 | 1588.4 | 1597.0 | 1588.4 |
| 10°   | 1592.2 | 1587.4 | 1579.7 | 1582.6 | 1573.0 |
| 12.5° | 1580.7 | 1569.2 | 1567.3 | 1569.2 | 1562.5 |
| 15°   | 1554.8 | 1558.7 | 1542.4 | 1540.4 | 1539.5 |
| 17.5° | 1542.4 | 1532.8 | 1515.5 | 1516.5 | 1514.6 |
| 20°   | 1513.6 | 1502.1 | 1489.6 | 1487.7 | 1483.9 |
| 22.5° | 1483.9 | 1470.5 | 1459.0 | 1464.7 | 1456.1 |
| 25°   | 1445.5 | 1443.6 | 1424.5 | 1430.2 | 1419.7 |
| 27.5° | 1412.0 | 1405.3 | 1396.7 | 1384.2 | 1368.9 |
| 30°   | 1375.6 | 1368.9 | 1360.2 | 1327.6 | 1316.1 |
| 32.5° | 1337.2 | 1329.6 | 1312.3 | 1274.0 | 1261.5 |
| 35°   | 1286.4 | 1284.5 | 1263.4 | 1220.3 | 1214.5 |
| 37.5° | 1248.1 | 1227.0 | 1209.7 | 1165.6 | 1149.3 |
| 40°   | 1202.1 | 1190.6 | 1150.3 | 1108.1 | 1087.0 |
| 42.5° | 1151.3 | 1137.8 | 1091.8 | 1046.8 | 1023.8 |
| 45°   | 1095.7 | 1086.1 | 1034.3 | 979.7  | 963.4  |
| 47.5° | 1038.1 | 1029.5 | 968.2  | 915.4  | 894.4  |
| 50°   | 982.5  | 972.0  | 898.2  | 847.4  | 828.2  |
| 52.5° | 922.2  | 904.9  | 832.0  | 782.2  | 764.0  |
| 55°   | 859.8  | 834.0  | 764.0  | 718.9  | 694.0  |
| 57.5° | 793.7  | 769.7  | 692.1  | 645.1  | 625.0  |
| 60°   | 736.2  | 702.6  | 623.1  | 575.1  | 549.3  |
| 62.5° | 662.4  | 633.6  | 557.9  | 501.3  | 488.9  |
| 65°   | 601.0  | 556.0  | 483.1  | 431.4  | 415.1  |
| 67.5° | 538.7  | 486.0  | 412.2  | 359.5  | 350.8  |
| 70°   | 470.7  | 416.0  | 340.3  | 288.5  | 274.2  |
| 72.5° | 401.6  | 348.0  | 274.2  | 219.5  | 210.9  |
| 75°   | 334.5  | 273.2  | 203.2  | 161.0  | 142.8  |
| 77.5° | 261.7  | 206.1  | 142.8  | 98.7   | 87.2   |
| 80°   | 194.6  | 139.0  | 82.4   | 58.5   | 57.5   |
| 82.5° | 127.5  | 80.5   | 44.1   | 45.1   | 43.1   |
| 85°   | 65.2   | 34.5   | 29.7   | 28.8   | 27.8   |
| 87.5° | 12.5   | 13.4   | 14.4   | 14.4   | 14.4   |
| 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)