

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: P1046847

Luminaire Tested: 22PTR-45-PLG-L830-UNV-STD-W

Issue Date: 7/10/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1046847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22PTR-45-PLG-L830-UNV-STD-W  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS  
  
Light Source:  
Ballast/Driver: -

**Summary**

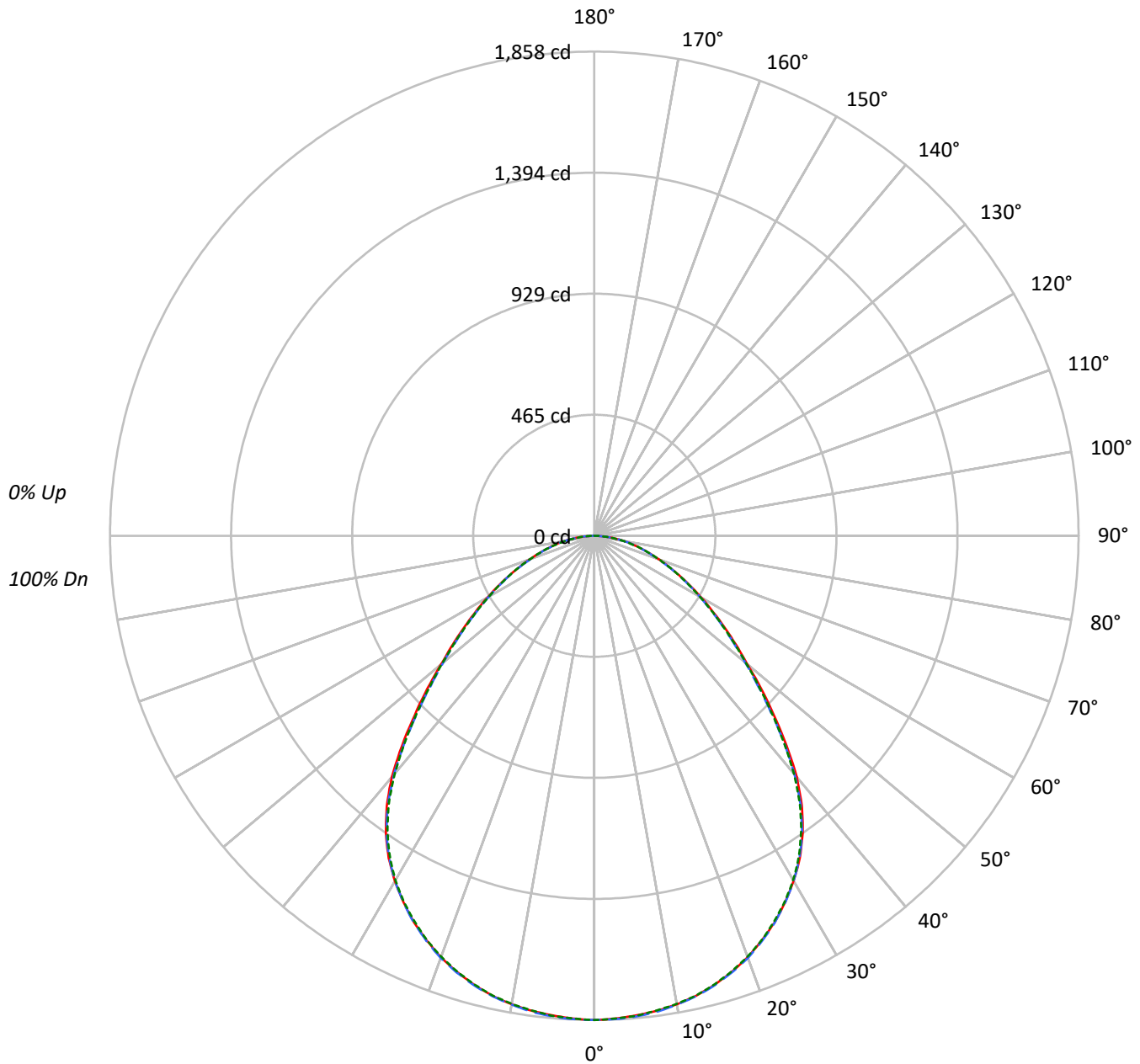
Lumens per Lamp: N/A  
Luminaire Lumens: 4187.4 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26  
Luminous Opening: (L: 2' x W: 0' x H: 2'  
CIE Type: Direct

Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 101 | 94  | 87  | 82  | 99  | 92  | 86  | 81  | 88  | 84  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |
| 4   | 86  | 75  | 67  | 60  | 84  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  |    |    |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 49  |    |    |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 58  | 51  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |    |    |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 8   | 64  | 51  | 43  | 38  | 62  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 40  | 35  | 31  | 29  |    |    |

**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°    | 175.9  | 4.2       |
| 10°-20°   | 503.4  | 12.0      |
| 20°-30°   | 753.3  | 18.0      |
| 30°-40°   | 863.0  | 20.6      |
| 40°-50°   | 746.4  | 17.8      |
| 50°-60°   | 540.2  | 12.9      |
| 60°-70°   | 355.8  | 8.5       |
| 70°-80°   | 193.7  | 4.6       |
| 80°-90°   | 55.5   | 1.3       |
| 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°    | 1432.7 | 34.2      |
| 0°-40°    | 2295.7 | 54.8      |
| 0°-60°    | 3582.4 | 85.6      |
| 0°-90°    | 4187.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4187.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1858 | 1858  | 1858 | 1858  | 1858 |      |
| 5°  | 1848 | 1852  | 1852 | 1852  | 1849 | 176  |
| 15° | 1783 | 1784  | 1786 | 1788  | 1782 | 503  |
| 25° | 1637 | 1637  | 1638 | 1639  | 1633 | 753  |
| 35° | 1394 | 1393  | 1390 | 1389  | 1384 | 866  |
| 45° | 975  | 972   | 959  | 958   | 963  | 755  |
| 55° | 607  | 604   | 598  | 594   | 599  | 546  |
| 65° | 359  | 361   | 356  | 354   | 357  | 358  |
| 75° | 183  | 183   | 181  | 181   | 183  | 195  |
| 85° | 49   | 49    | 49   | 50    | 44   | 57   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1858.3 | 1858.3 | 1858.3 | 1858.3 | 1858.3 |
| 2.5°  | 1854.4 | 1858.3 | 1857.0 | 1858.3 | 1854.4 |
| 5°    | 1847.8 | 1851.7 | 1851.7 | 1851.7 | 1849.1 |
| 7.5°  | 1838.6 | 1841.2 | 1842.5 | 1843.8 | 1837.2 |
| 10°   | 1825.4 | 1828.0 | 1826.7 | 1829.3 | 1824.0 |
| 12.5° | 1808.2 | 1808.2 | 1809.5 | 1812.2 | 1806.9 |
| 15°   | 1783.2 | 1784.5 | 1785.8 | 1788.4 | 1781.8 |
| 17.5° | 1754.1 | 1755.5 | 1756.8 | 1758.1 | 1752.8 |
| 20°   | 1721.2 | 1721.2 | 1723.8 | 1725.1 | 1718.5 |
| 22.5° | 1680.3 | 1680.3 | 1682.9 | 1686.9 | 1679.0 |
| 25°   | 1636.8 | 1636.8 | 1638.1 | 1639.4 | 1632.8 |
| 27.5° | 1585.3 | 1585.3 | 1586.6 | 1590.6 | 1582.7 |
| 30°   | 1529.9 | 1528.6 | 1529.9 | 1531.3 | 1526.0 |
| 32.5° | 1467.9 | 1466.6 | 1465.3 | 1466.6 | 1460.0 |
| 35°   | 1394.1 | 1392.8 | 1390.1 | 1388.8 | 1383.5 |
| 37.5° | 1308.4 | 1305.7 | 1300.4 | 1300.4 | 1295.2 |
| 40°   | 1208.1 | 1201.5 | 1194.9 | 1192.3 | 1191.0 |
| 42.5° | 1092.1 | 1086.8 | 1077.5 | 1076.2 | 1076.2 |
| 45°   | 974.7  | 972.0  | 958.8  | 957.5  | 962.8  |
| 47.5° | 869.2  | 862.6  | 850.7  | 848.1  | 856.0  |
| 50°   | 765.0  | 766.3  | 755.7  | 751.8  | 759.7  |
| 52.5° | 683.2  | 680.6  | 671.3  | 668.7  | 675.3  |
| 55°   | 606.7  | 604.1  | 597.5  | 593.5  | 598.8  |
| 57.5° | 536.8  | 535.5  | 528.9  | 527.6  | 530.2  |
| 60°   | 473.5  | 472.2  | 466.9  | 465.6  | 466.9  |
| 62.5° | 414.1  | 414.1  | 408.9  | 406.2  | 410.2  |
| 65°   | 358.7  | 361.4  | 356.1  | 353.5  | 357.4  |
| 67.5° | 308.6  | 311.3  | 306.0  | 303.3  | 308.6  |
| 70°   | 261.1  | 263.8  | 258.5  | 255.9  | 261.1  |
| 72.5° | 220.3  | 221.6  | 217.6  | 216.3  | 222.9  |
| 75°   | 183.3  | 183.3  | 180.7  | 180.7  | 183.3  |
| 77.5° | 149.0  | 147.7  | 146.4  | 146.4  | 143.8  |
| 80°   | 114.7  | 113.4  | 113.4  | 113.4  | 109.5  |
| 82.5° | 81.8   | 79.1   | 80.5   | 81.8   | 75.2   |
| 85°   | 48.8   | 48.8   | 48.8   | 50.1   | 43.5   |
| 87.5° | 19.8   | 19.8   | 18.5   | 19.8   | 17.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |







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







(END OF REPORT)