

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: P1471808

Luminaire Tested: 24PTR-45S-L835-UNV-STD-W

Issue Date: 6/22/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1471808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/22/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24PTR-45S-L835-UNV-STD-W  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens White Recessed Frame  
Light Source: -  
Ballast/Driver: -

**Summary**

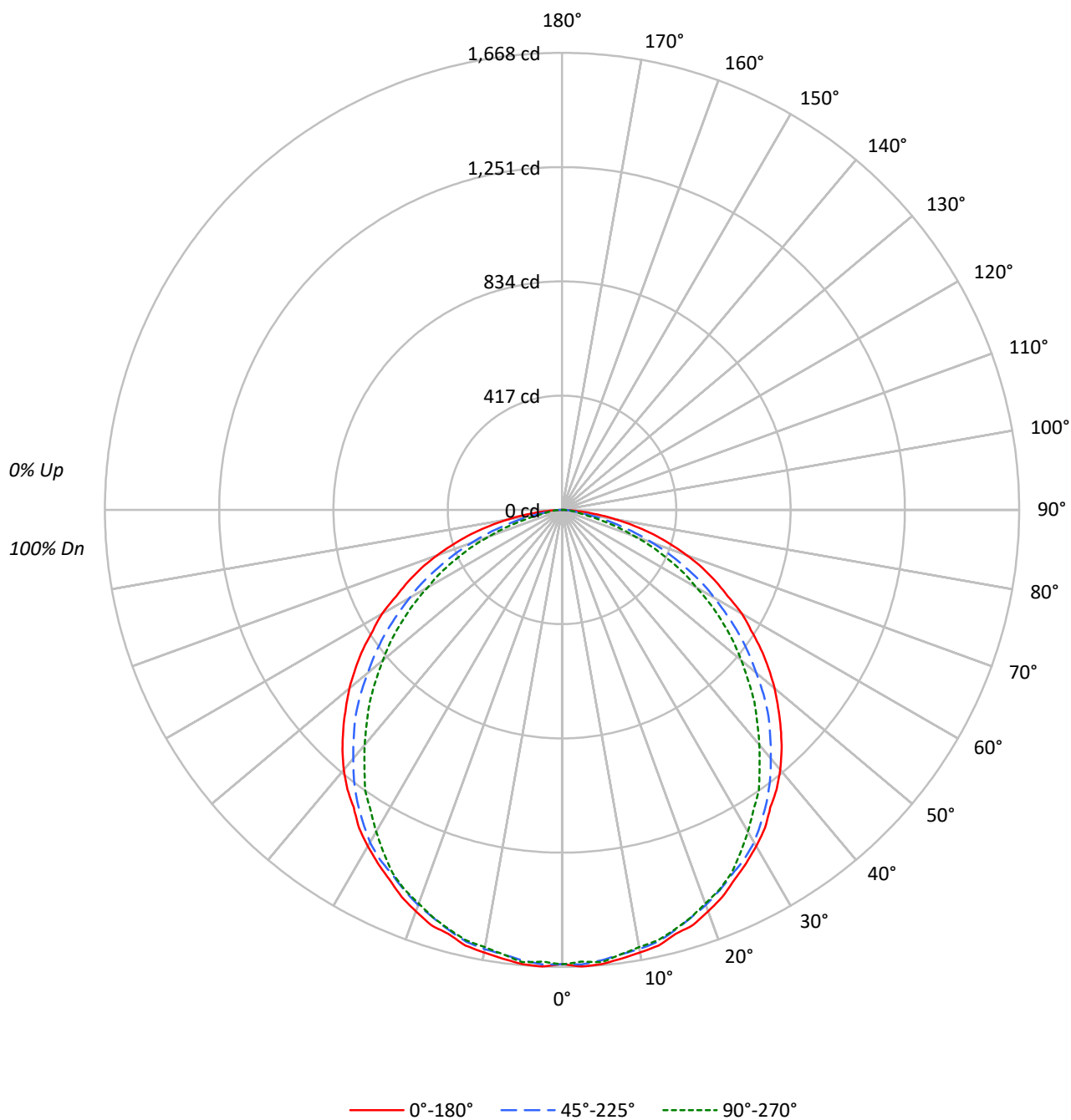
Lumens per Lamp: N/A  
Luminaire Lumens: 4416.5 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
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  |     |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 87  | 87  | 85  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 74  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 54  | 54  | 52  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 45  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 42  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 33  | 33  | 31  |
| 9   | 57  | 44  | 36  | 31  | 56  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 30  | 30  | 28  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 37  | 32  | 27  | 27  | 27  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2231 | 2231 | 2231 |
| 5°  | 2247 | 2229 | 2238 |
| 10° | 2241 | 2224 | 2214 |
| 15° | 2231 | 2213 | 2209 |
| 20° | 2233 | 2197 | 2189 |
| 25° | 2211 | 2179 | 2171 |
| 30° | 2202 | 2177 | 2107 |
| 35° | 2177 | 2138 | 2055 |
| 40° | 2175 | 2081 | 1967 |
| 45° | 2148 | 2027 | 1889 |
| 50° | 2119 | 1937 | 1786 |
| 55° | 2078 | 1846 | 1677 |
| 60° | 2041 | 1727 | 1523 |
| 65° | 1971 | 1585 | 1361 |
| 70° | 1908 | 1379 | 1111 |
| 75° | 1791 | 1089 | 765  |
| 80° | 1554 | 658  | 459  |
| 85° | 1037 | 472  | 442  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2148 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.2  | 3.6       |
| 10°-20°   | 449.7  | 10.2      |
| 20°-30°   | 679.3  | 15.4      |
| 30°-40°   | 807.7  | 18.3      |
| 40°-50°   | 819.2  | 18.5      |
| 50°-60°   | 711.4  | 16.1      |
| 60°-70°   | 505.0  | 11.4      |
| 70°-80°   | 241.3  | 5.5       |
| 80°-90°   | 45.7   | 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°    | 1286.3 | 29.1      |
| 0°-40°    | 2094.0 | 47.4      |
| 0°-60°    | 3624.5 | 82.1      |
| 0°-90°    | 4416.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4416.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1658 | 1658  | 1658 | 1658  | 1658 |      |
| 5°  | 1664 | 1658  | 1650 | 1654  | 1657 | 158  |
| 15° | 1602 | 1606  | 1589 | 1587  | 1586 | 454  |
| 25° | 1489 | 1487  | 1468 | 1473  | 1462 | 688  |
| 35° | 1325 | 1323  | 1302 | 1257  | 1251 | 833  |
| 45° | 1129 | 1119  | 1066 | 1009  | 992  | 871  |
| 55° | 886  | 859   | 787  | 741   | 715  | 792  |
| 65° | 619  | 573   | 498  | 444   | 428  | 613  |
| 75° | 345  | 281   | 209  | 166   | 147  | 361  |
| 85° | 67   | 36    | 31   | 30    | 29   | 85   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1658.1 | 1658.1 | 1658.1 | 1658.1 | 1658.1 |
| 2.5°  | 1667.9 | 1662.0 | 1660.0 | 1667.0 | 1650.2 |
| 5°    | 1664.0 | 1658.1 | 1650.2 | 1654.1 | 1657.1 |
| 7.5°  | 1652.1 | 1647.2 | 1636.3 | 1645.2 | 1636.3 |
| 10°   | 1640.3 | 1635.4 | 1627.5 | 1630.4 | 1620.5 |
| 12.5° | 1628.4 | 1616.6 | 1614.6 | 1616.6 | 1609.7 |
| 15°   | 1601.8 | 1605.7 | 1588.9 | 1587.0 | 1586.0 |
| 17.5° | 1588.9 | 1579.1 | 1561.3 | 1562.3 | 1560.3 |
| 20°   | 1559.3 | 1547.5 | 1534.6 | 1532.7 | 1528.7 |
| 22.5° | 1528.7 | 1514.9 | 1503.0 | 1509.0 | 1500.1 |
| 25°   | 1489.2 | 1487.2 | 1467.5 | 1473.4 | 1462.5 |
| 27.5° | 1454.6 | 1447.7 | 1438.8 | 1426.0 | 1410.2 |
| 30°   | 1417.1 | 1410.2 | 1401.3 | 1367.7 | 1355.9 |
| 32.5° | 1377.6 | 1369.7 | 1351.9 | 1312.4 | 1299.6 |
| 35°   | 1325.3 | 1323.3 | 1301.6 | 1257.1 | 1251.2 |
| 37.5° | 1285.8 | 1264.0 | 1246.3 | 1200.8 | 1184.1 |
| 40°   | 1238.4 | 1226.5 | 1185.0 | 1141.6 | 1119.9 |
| 42.5° | 1186.0 | 1172.2 | 1124.8 | 1078.4 | 1054.7 |
| 45°   | 1128.8 | 1118.9 | 1065.5 | 1009.3 | 992.5  |
| 47.5° | 1069.5 | 1060.6 | 997.4  | 943.1  | 921.4  |
| 50°   | 1012.2 | 1001.4 | 925.3  | 873.0  | 853.2  |
| 52.5° | 950.0  | 932.2  | 857.2  | 805.8  | 787.1  |
| 55°   | 885.8  | 859.2  | 787.1  | 740.7  | 715.0  |
| 57.5° | 817.7  | 793.0  | 713.0  | 664.6  | 643.9  |
| 60°   | 758.4  | 723.9  | 641.9  | 592.5  | 565.9  |
| 62.5° | 682.4  | 652.8  | 574.7  | 516.5  | 503.6  |
| 65°   | 619.2  | 572.8  | 497.7  | 444.4  | 427.6  |
| 67.5° | 555.0  | 500.7  | 424.6  | 370.3  | 361.4  |
| 70°   | 484.9  | 428.6  | 350.6  | 297.2  | 282.4  |
| 72.5° | 413.8  | 358.5  | 282.4  | 226.1  | 217.3  |
| 75°   | 344.6  | 281.4  | 209.4  | 165.9  | 147.1  |
| 77.5° | 269.6  | 212.3  | 147.1  | 101.7  | 89.9   |
| 80°   | 200.5  | 143.2  | 84.9   | 60.2   | 59.3   |
| 82.5° | 131.3  | 83.0   | 45.4   | 46.4   | 44.4   |
| 85°   | 67.2   | 35.6   | 30.6   | 29.6   | 28.6   |
| 87.5° | 12.8   | 13.8   | 14.8   | 14.8   | 14.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 14.9             | 16.5 | 15.3 | 16.8 | 17.2 | 13.6           | 15.2 | 14.0 | 15.5 | 15.8 |
|                 | 3H   | 16.8             | 18.2 | 17.1 | 18.5 | 18.9 | 14.9           | 16.3 | 15.3 | 16.7 | 17.0 |
|                 | 4H   | 17.4             | 18.8 | 17.8 | 19.2 | 19.5 | 15.2           | 16.5 | 15.6 | 16.9 | 17.3 |
|                 | 6H   | 17.9             | 19.2 | 18.3 | 19.6 | 19.9 | 15.2           | 16.5 | 15.7 | 16.9 | 17.3 |
|                 | 8H   | 18.1             | 19.3 | 18.5 | 19.7 | 20.1 | 15.3           | 16.5 | 15.7 | 16.8 | 17.2 |
|                 | 12H  | 18.1             | 19.3 | 18.6 | 19.7 | 20.1 | 15.3           | 16.4 | 15.7 | 16.8 | 17.2 |
| 4H              | 2H   | 15.3             | 16.7 | 15.7 | 17.1 | 17.4 | 14.3           | 15.6 | 14.7 | 16.0 | 16.4 |
|                 | 3H   | 17.4             | 18.5 | 17.8 | 18.9 | 19.3 | 15.7           | 16.8 | 16.1 | 17.2 | 17.6 |
|                 | 4H   | 18.2             | 19.2 | 18.6 | 19.6 | 20.0 | 16.1           | 17.1 | 16.5 | 17.5 | 17.9 |
|                 | 6H   | 18.7             | 19.6 | 19.2 | 20.1 | 20.5 | 16.2           | 17.1 | 16.6 | 17.5 | 18.0 |
|                 | 8H   | 18.9             | 19.7 | 19.4 | 20.2 | 20.7 | 16.2           | 17.0 | 16.7 | 17.5 | 18.0 |
|                 | 12H  | 19.0             | 19.8 | 19.5 | 20.2 | 20.7 | 16.2           | 17.0 | 16.7 | 17.5 | 17.9 |
| 8H              | 4H   | 18.3             | 19.1 | 18.7 | 19.5 | 20.0 | 16.3           | 17.2 | 16.8 | 17.6 | 18.1 |
|                 | 6H   | 18.9             | 19.6 | 19.4 | 20.1 | 20.5 | 16.5           | 17.2 | 17.0 | 17.7 | 18.1 |
|                 | 8H   | 19.1             | 19.7 | 19.6 | 20.2 | 20.7 | 16.5           | 17.1 | 17.0 | 17.7 | 18.1 |
|                 | 12H  | 19.2             | 19.8 | 19.7 | 20.3 | 20.8 | 16.6           | 17.1 | 17.1 | 17.6 | 18.2 |
| 12H             | 4H   | 18.2             | 19.0 | 18.7 | 19.5 | 19.9 | 16.4           | 17.1 | 16.8 | 17.6 | 18.1 |
|                 | 6H   | 18.9             | 19.5 | 19.4 | 20.0 | 20.5 | 16.5           | 17.1 | 17.0 | 17.6 | 18.1 |
|                 | 8H   | 19.1             | 19.6 | 19.6 | 20.1 | 20.7 | 16.6           | 17.1 | 17.1 | 17.6 | 18.2 |













(END OF REPORT)