

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P738192

Luminaire Tested: **22PT-45-PL1-L835**

Issue Date: 2/8/2024



**Test Information**

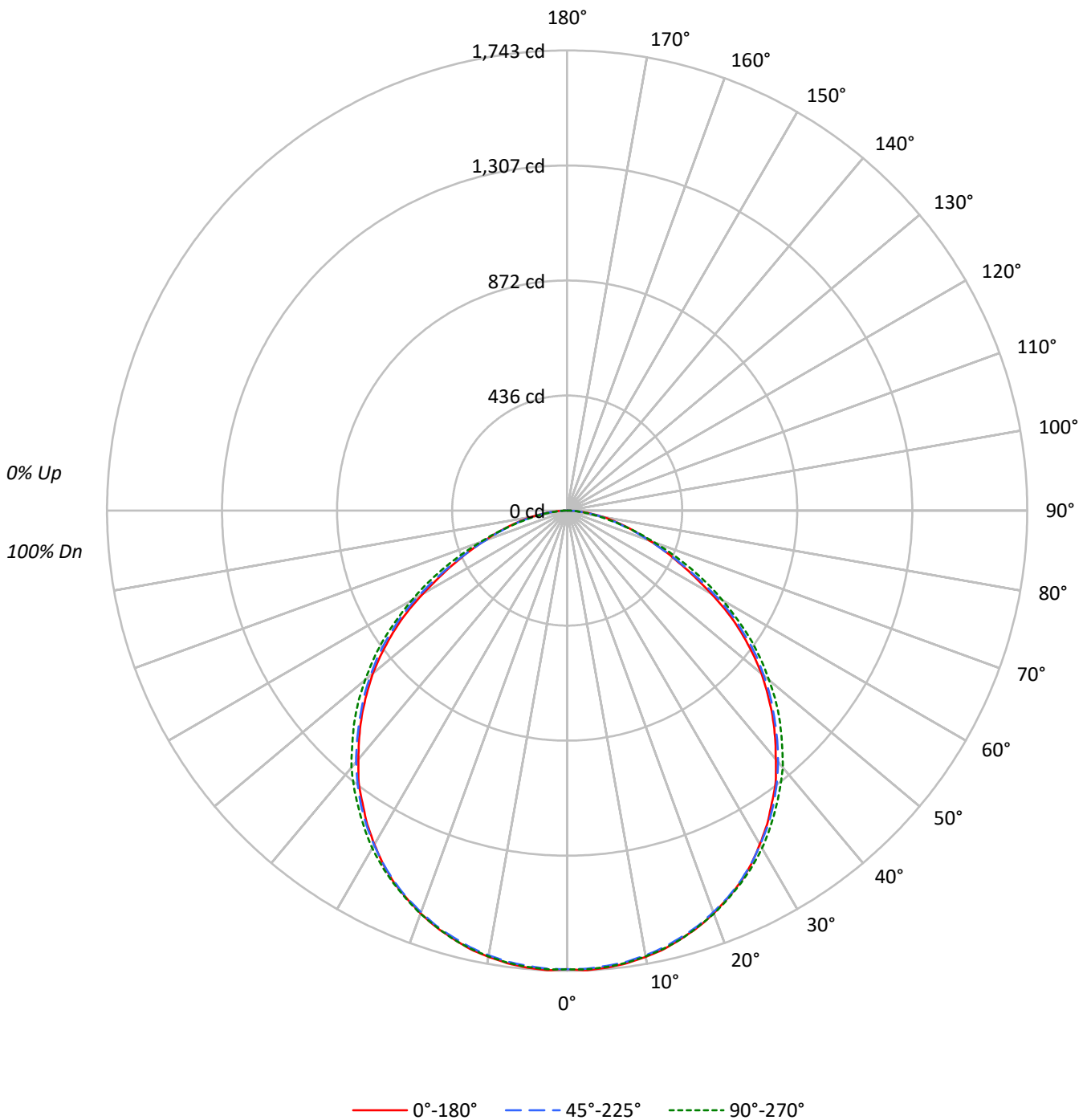
Test Method: LM-79-08  
Report Number: P738192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PL1-L835  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4578.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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  | 0   |     |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  | 83  | 79  | 76  |  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  |  | 74  | 69  | 64  |  | 72  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 62  | 56  |  | 66  | 60  | 55  |  | 64  | 59  | 55  | 52  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 55  | 49  | 62  | 54  | 49  |  | 60  | 53  | 48  |  | 58  | 52  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 70  | 57  | 49  | 43  | 56  | 48  | 43  |  | 54  | 47  | 42  |  | 52  | 47  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  |  | 49  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  |  | 45  | 39  | 34  |  | 44  | 38  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  |  | 42  | 35  | 31  |  | 41  | 35  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 32  | 28  |  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5091 | 5091 | 5091 |
| 5°  | 5111 | 5091 | 5104 |
| 10° | 5107 | 5089 | 5102 |
| 15° | 5089 | 5073 | 5091 |
| 20° | 5062 | 5046 | 5067 |
| 25° | 5022 | 5012 | 5034 |
| 30° | 4939 | 4949 | 4996 |
| 35° | 4835 | 4869 | 4926 |
| 40° | 4703 | 4756 | 4862 |
| 45° | 4559 | 4598 | 4728 |
| 50° | 4378 | 4432 | 4552 |
| 55° | 4111 | 4193 | 4324 |
| 60° | 3697 | 3821 | 3984 |
| 65° | 3238 | 3304 | 3553 |
| 70° | 2843 | 2818 | 2999 |
| 75° | 2557 | 2450 | 2458 |
| 80° | 2295 | 2172 | 1937 |
| 85° | 1819 | 1795 | 1476 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.8  | 3.6       |
| 10°-20°   | 472.6  | 10.3      |
| 20°-30°   | 714.7  | 15.6      |
| 30°-40°   | 852.2  | 18.6      |
| 40°-50°   | 860.4  | 18.8      |
| 50°-60°   | 734.0  | 16.0      |
| 60°-70°   | 482.3  | 10.5      |
| 70°-80°   | 236.2  | 5.2       |
| 80°-90°   | 60.9   | 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°    | 1352.1 | 29.5      |
| 0°-40°    | 2204.2 | 48.1      |
| 0°-60°    | 3798.6 | 83.0      |
| 0°-90°    | 4578.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4578.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1738 | 1738  | 1738 | 1738  | 1738 |      |
| 5°  | 1738 | 1734  | 1731 | 1731  | 1735 | 165  |
| 15° | 1678 | 1675  | 1672 | 1673  | 1678 | 474  |
| 25° | 1553 | 1550  | 1550 | 1553  | 1557 | 715  |
| 35° | 1352 | 1355  | 1361 | 1371  | 1377 | 846  |
| 45° | 1100 | 1103  | 1110 | 1132  | 1141 | 847  |
| 55° | 805  | 809   | 821  | 840   | 846  | 716  |
| 65° | 467  | 467   | 477  | 498   | 512  | 467  |
| 75° | 226  | 224   | 216  | 215   | 217  | 242  |
| 85° | 54   | 54    | 53   | 49    | 44   | 65   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1737.6 | 1737.6 | 1737.6 | 1737.6 | 1737.6 |
| 2.5°  | 1742.7 | 1739.0 | 1736.8 | 1735.4 | 1739.0 |
| 5°    | 1737.6 | 1733.9 | 1731.0 | 1731.0 | 1735.4 |
| 7.5°  | 1729.5 | 1725.9 | 1723.7 | 1722.9 | 1727.3 |
| 10°   | 1716.4 | 1712.0 | 1710.5 | 1709.8 | 1714.9 |
| 12.5° | 1701.0 | 1694.4 | 1694.4 | 1693.7 | 1698.8 |
| 15°   | 1677.6 | 1674.7 | 1672.5 | 1673.2 | 1678.4 |
| 17.5° | 1653.5 | 1650.6 | 1649.1 | 1649.1 | 1652.0 |
| 20°   | 1623.5 | 1619.9 | 1618.4 | 1619.9 | 1625.0 |
| 22.5° | 1589.2 | 1587.0 | 1587.0 | 1588.4 | 1592.1 |
| 25°   | 1553.4 | 1549.7 | 1550.4 | 1552.6 | 1557.0 |
| 27.5° | 1509.5 | 1508.8 | 1508.8 | 1513.9 | 1519.0 |
| 30°   | 1459.8 | 1459.8 | 1462.7 | 1470.0 | 1476.6 |
| 32.5° | 1409.4 | 1408.6 | 1414.5 | 1421.0 | 1428.4 |
| 35°   | 1351.6 | 1355.3 | 1361.1 | 1370.6 | 1377.2 |
| 37.5° | 1297.5 | 1296.8 | 1304.1 | 1320.9 | 1325.3 |
| 40°   | 1229.5 | 1234.6 | 1243.4 | 1260.2 | 1271.2 |
| 42.5° | 1165.9 | 1169.6 | 1177.6 | 1197.4 | 1204.7 |
| 45°   | 1100.1 | 1103.1 | 1109.6 | 1131.6 | 1141.1 |
| 47.5° | 1030.7 | 1034.4 | 1043.9 | 1062.1 | 1073.1 |
| 50°   | 960.5  | 965.6  | 972.2  | 989.8  | 998.5  |
| 52.5° | 883.8  | 890.3  | 902.0  | 918.1  | 924.7  |
| 55°   | 804.8  | 809.2  | 820.9  | 839.9  | 846.5  |
| 57.5° | 722.2  | 725.9  | 742.7  | 756.6  | 761.7  |
| 60°   | 630.8  | 635.2  | 652.0  | 674.0  | 679.8  |
| 62.5° | 544.6  | 548.2  | 562.9  | 589.2  | 598.0  |
| 65°   | 467.1  | 467.1  | 476.6  | 498.5  | 512.4  |
| 67.5° | 398.4  | 396.9  | 398.4  | 415.2  | 429.8  |
| 70°   | 331.9  | 332.6  | 328.9  | 339.2  | 350.1  |
| 72.5° | 277.0  | 277.0  | 269.7  | 271.2  | 280.0  |
| 75°   | 225.9  | 223.7  | 216.4  | 214.9  | 217.1  |
| 77.5° | 180.6  | 176.9  | 171.1  | 166.7  | 161.5  |
| 80°   | 136.0  | 133.0  | 128.7  | 122.1  | 114.8  |
| 82.5° | 95.0   | 92.1   | 89.2   | 85.5   | 78.2   |
| 85°   | 54.1   | 54.1   | 53.4   | 49.0   | 43.9   |
| 87.5° | 21.9   | 21.2   | 20.5   | 19.7   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)