

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: P738240

Luminaire Tested: **22PT-50-PL1-L835**

Issue Date: 2/8/2024



**Test Information**

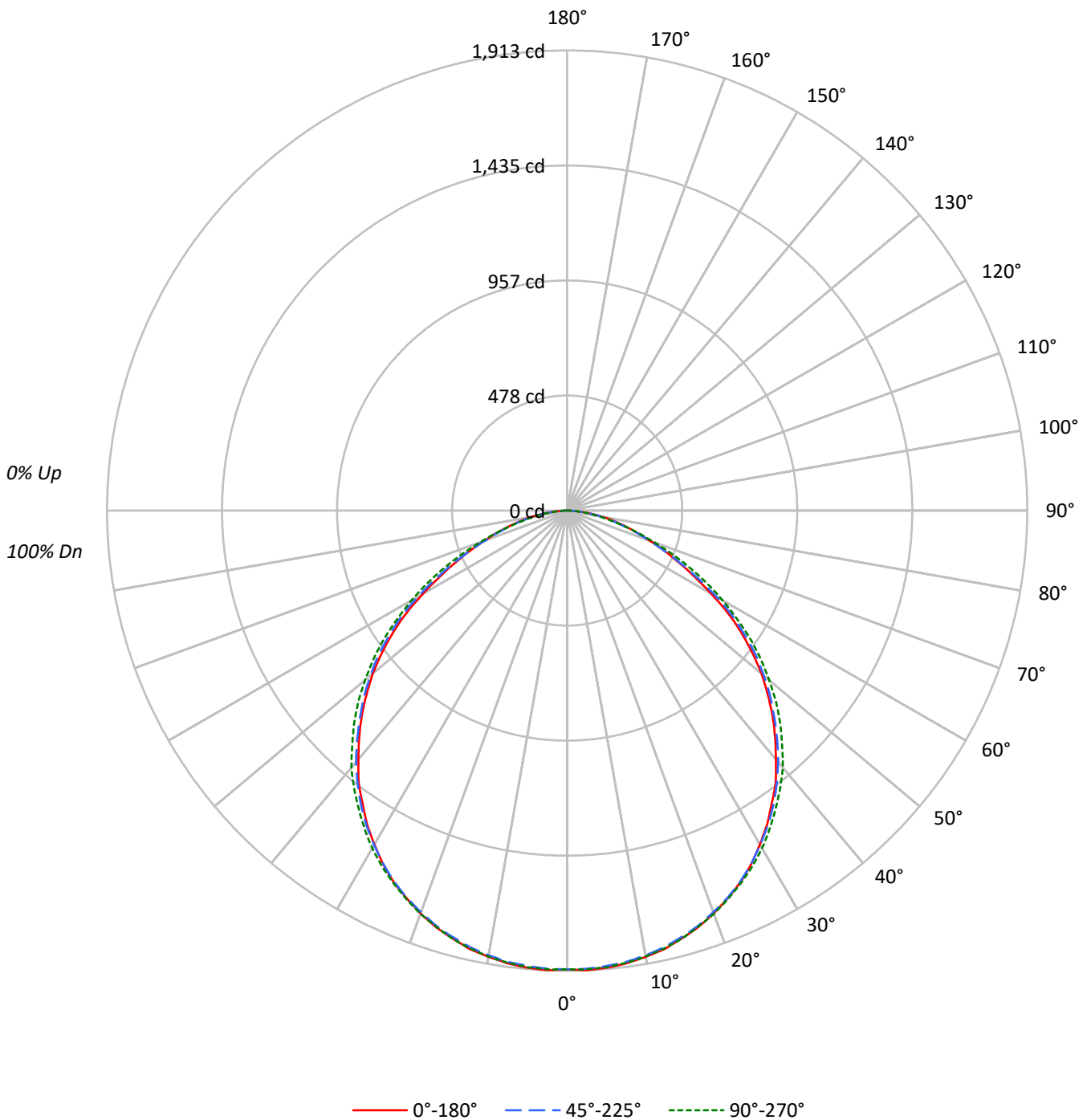
Test Method: LM-79-08  
Report Number: P738240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-50-PL1-L835  
Description: 5000 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: 5025.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 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): 39.3  
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

TEST NUMBER: P738240  
CATALOG NUMBER: 22PT-50-PL1-L835

### 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°  | 5588 | 5588 | 5588 |
| 5°  | 5610 | 5588 | 5603 |
| 10° | 5605 | 5586 | 5600 |
| 15° | 5586 | 5569 | 5588 |
| 20° | 5557 | 5539 | 5562 |
| 25° | 5512 | 5502 | 5525 |
| 30° | 5421 | 5432 | 5484 |
| 35° | 5307 | 5344 | 5407 |
| 40° | 5162 | 5220 | 5337 |
| 45° | 5004 | 5047 | 5190 |
| 50° | 4806 | 4864 | 4996 |
| 55° | 4513 | 4603 | 4746 |
| 60° | 4058 | 4194 | 4373 |
| 65° | 3555 | 3627 | 3900 |
| 70° | 3121 | 3094 | 3292 |
| 75° | 2806 | 2689 | 2698 |
| 80° | 2518 | 2383 | 2126 |
| 85° | 1997 | 1970 | 1617 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 180.9  | 3.6       |
| 10°-20°   | 518.7  | 10.3      |
| 20°-30°   | 784.5  | 15.6      |
| 30°-40°   | 935.4  | 18.6      |
| 40°-50°   | 944.4  | 18.8      |
| 50°-60°   | 805.7  | 16.0      |
| 60°-70°   | 529.4  | 10.5      |
| 70°-80°   | 259.2  | 5.2       |
| 80°-90°   | 66.8   | 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°    | 1484.1 | 29.5      |
| 0°-40°    | 2419.5 | 48.1      |
| 0°-60°    | 4169.5 | 83.0      |
| 0°-90°    | 5025.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5025.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1907 | 1907  | 1907 | 1907  | 1907 |      |
| 5°  | 1907 | 1903  | 1900 | 1900  | 1905 | 181  |
| 15° | 1841 | 1838  | 1836 | 1837  | 1842 | 520  |
| 25° | 1705 | 1701  | 1702 | 1704  | 1709 | 784  |
| 35° | 1484 | 1488  | 1494 | 1504  | 1512 | 928  |
| 45° | 1208 | 1211  | 1218 | 1242  | 1252 | 930  |
| 55° | 883  | 888   | 901  | 922   | 929  | 786  |
| 65° | 513  | 513   | 523  | 547   | 562  | 513  |
| 75° | 248  | 246   | 238  | 236   | 238  | 265  |
| 85° | 59   | 59    | 59   | 54    | 48   | 71   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1907.2 | 1907.2 | 1907.2 | 1907.2 | 1907.2 |
| 2.5°  | 1912.8 | 1908.8 | 1906.4 | 1904.8 | 1908.8 |
| 5°    | 1907.2 | 1903.2 | 1900.0 | 1900.0 | 1904.8 |
| 7.5°  | 1898.4 | 1894.4 | 1892.0 | 1891.2 | 1896.0 |
| 10°   | 1884.0 | 1879.1 | 1877.5 | 1876.7 | 1882.3 |
| 12.5° | 1867.1 | 1859.9 | 1859.9 | 1859.1 | 1864.7 |
| 15°   | 1841.4 | 1838.2 | 1835.8 | 1836.6 | 1842.2 |
| 17.5° | 1815.0 | 1811.7 | 1810.1 | 1810.1 | 1813.3 |
| 20°   | 1782.1 | 1778.0 | 1776.4 | 1778.0 | 1783.7 |
| 22.5° | 1744.3 | 1741.9 | 1741.9 | 1743.5 | 1747.6 |
| 25°   | 1705.0 | 1701.0 | 1701.8 | 1704.2 | 1709.0 |
| 27.5° | 1656.9 | 1656.1 | 1656.1 | 1661.7 | 1667.3 |
| 30°   | 1602.3 | 1602.3 | 1605.5 | 1613.6 | 1620.8 |
| 32.5° | 1547.0 | 1546.2 | 1552.6 | 1559.8 | 1567.8 |
| 35°   | 1483.6 | 1487.6 | 1494.0 | 1504.4 | 1511.7 |
| 37.5° | 1424.2 | 1423.4 | 1431.4 | 1449.9 | 1454.7 |
| 40°   | 1349.6 | 1355.2 | 1364.8 | 1383.3 | 1395.3 |
| 42.5° | 1279.8 | 1283.8 | 1292.6 | 1314.3 | 1322.3 |
| 45°   | 1207.6 | 1210.8 | 1218.0 | 1242.1 | 1252.5 |
| 47.5° | 1131.3 | 1135.3 | 1145.8 | 1165.8 | 1177.9 |
| 50°   | 1054.3 | 1059.9 | 1067.1 | 1086.4 | 1096.0 |
| 52.5° | 970.1  | 977.3  | 990.1  | 1007.8 | 1015.0 |
| 55°   | 883.4  | 888.2  | 901.1  | 921.9  | 929.1  |
| 57.5° | 792.7  | 796.7  | 815.2  | 830.4  | 836.1  |
| 60°   | 692.4  | 697.3  | 715.7  | 739.8  | 746.2  |
| 62.5° | 597.8  | 601.8  | 617.8  | 646.7  | 656.3  |
| 65°   | 512.7  | 512.7  | 523.1  | 547.2  | 562.5  |
| 67.5° | 437.3  | 435.7  | 437.3  | 455.7  | 471.8  |
| 70°   | 364.3  | 365.1  | 361.1  | 372.3  | 384.3  |
| 72.5° | 304.1  | 304.1  | 296.1  | 297.7  | 307.3  |
| 75°   | 247.9  | 245.5  | 237.5  | 235.9  | 238.3  |
| 77.5° | 198.2  | 194.2  | 187.8  | 182.9  | 177.3  |
| 80°   | 149.2  | 146.0  | 141.2  | 134.0  | 126.0  |
| 82.5° | 104.3  | 101.1  | 97.9   | 93.9   | 85.9   |
| 85°   | 59.4   | 59.4   | 58.6   | 53.8   | 48.1   |
| 87.5° | 24.1   | 23.3   | 22.5   | 21.7   | 20.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)