

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: P738177

Luminaire Tested: **22PT-45-PB1-L840**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PB1-L840  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -  
Ballast/Driver: -

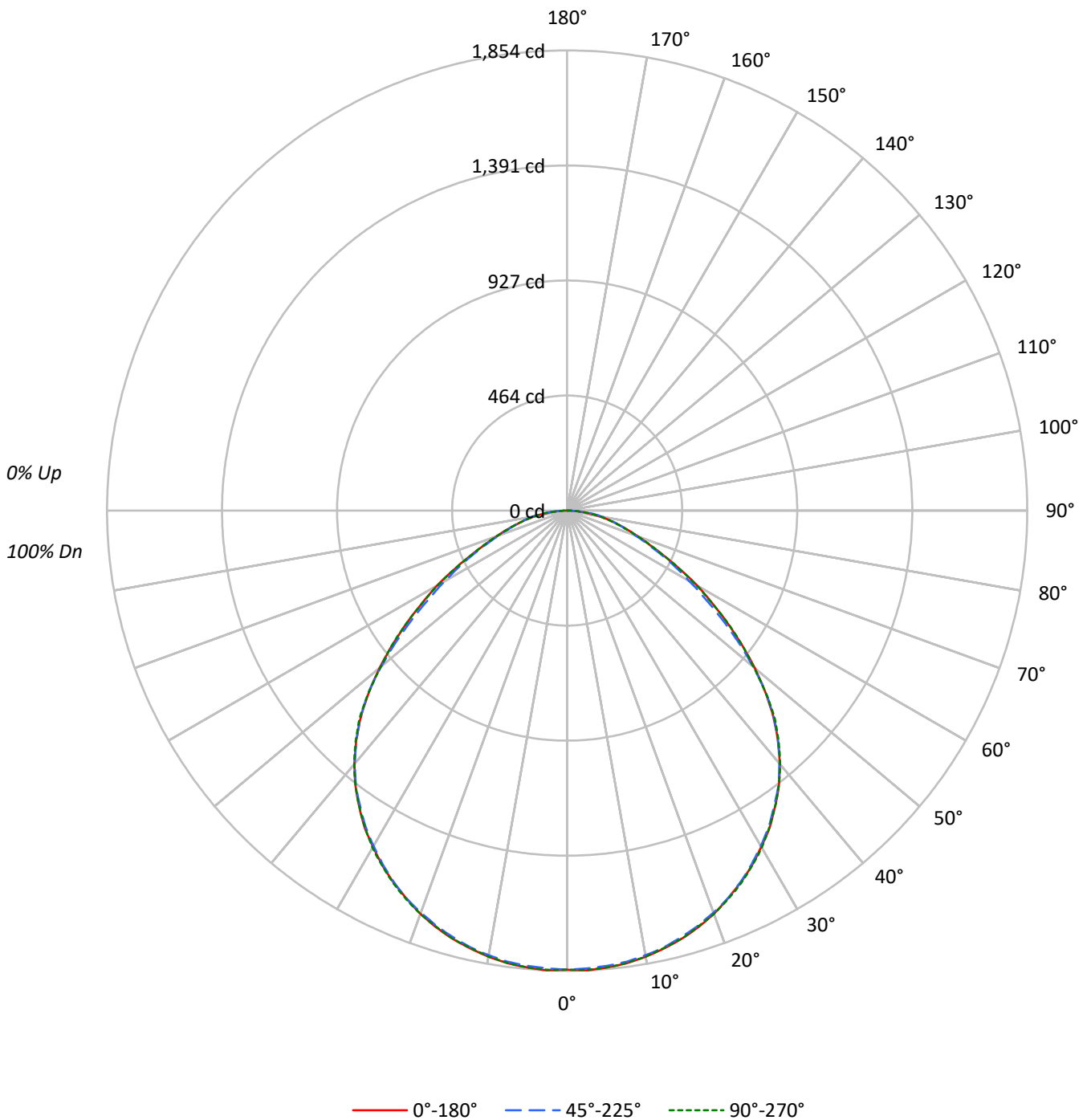
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4664.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |
| 4   | 85  | 73  | 65  | 59  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 50  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 51  | 45  | 70  | 59  | 50  | 44  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 41  |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 8   | 63  | 49  | 41  | 36  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5420 | 5420 | 5420 |
| 5°  | 5434 | 5417 | 5434 |
| 10° | 5430 | 5412 | 5428 |
| 15° | 5417 | 5397 | 5415 |
| 20° | 5391 | 5374 | 5393 |
| 25° | 5346 | 5341 | 5358 |
| 30° | 5292 | 5279 | 5307 |
| 35° | 5221 | 5202 | 5221 |
| 40° | 5099 | 5088 | 5105 |
| 45° | 4870 | 4880 | 4898 |
| 50° | 4497 | 4459 | 4466 |
| 55° | 4018 | 3883 | 4034 |
| 60° | 3547 | 3331 | 3525 |
| 65° | 2972 | 2878 | 2972 |
| 70° | 2577 | 2506 | 2590 |
| 75° | 2349 | 2384 | 2349 |
| 80° | 2207 | 2398 | 2221 |
| 85° | 1920 | 2350 | 1973 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.4  | 3.8       |
| 10°-20°   | 503.0  | 10.8      |
| 20°-30°   | 761.7  | 16.3      |
| 30°-40°   | 911.0  | 19.5      |
| 40°-50°   | 902.0  | 19.3      |
| 50°-60°   | 693.5  | 14.9      |
| 60°-70°   | 422.3  | 9.1       |
| 70°-80°   | 223.5  | 4.8       |
| 80°-90°   | 71.6   | 1.5       |
| 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°    | 1440.1 | 30.9      |
| 0°-40°    | 2351.1 | 50.4      |
| 0°-60°    | 3946.6 | 84.6      |
| 0°-90°    | 4664.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4664.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1850 | 1850  | 1850 | 1850  | 1850 |      |
| 5°  | 1848 | 1847  | 1842 | 1845  | 1848 | 176  |
| 15° | 1786 | 1783  | 1779 | 1783  | 1785 | 504  |
| 25° | 1654 | 1652  | 1652 | 1654  | 1657 | 762  |
| 35° | 1460 | 1458  | 1454 | 1459  | 1460 | 912  |
| 45° | 1175 | 1176  | 1178 | 1178  | 1182 | 902  |
| 55° | 787  | 776   | 760  | 774   | 790  | 705  |
| 65° | 429  | 418   | 415  | 414   | 429  | 433  |
| 75° | 208  | 208   | 211  | 209   | 208  | 223  |
| 85° | 57   | 65    | 70   | 66    | 59   | 65   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1849.8 | 1849.8 | 1849.8 | 1849.8 | 1849.8 |
| 2.5°  | 1854.4 | 1851.3 | 1846.1 | 1849.8 | 1852.1 |
| 5°    | 1847.6 | 1846.8 | 1841.6 | 1844.6 | 1847.6 |
| 7.5°  | 1839.3 | 1837.1 | 1833.3 | 1836.3 | 1838.6 |
| 10°   | 1825.0 | 1823.5 | 1819.0 | 1822.8 | 1824.3 |
| 12.5° | 1807.0 | 1805.5 | 1802.5 | 1805.5 | 1804.7 |
| 15°   | 1785.9 | 1782.9 | 1779.2 | 1782.9 | 1785.2 |
| 17.5° | 1759.6 | 1756.6 | 1753.6 | 1755.8 | 1757.4 |
| 20°   | 1728.8 | 1724.3 | 1723.5 | 1726.5 | 1729.5 |
| 22.5° | 1691.9 | 1691.9 | 1691.2 | 1693.4 | 1694.9 |
| 25°   | 1653.6 | 1652.1 | 1652.1 | 1654.3 | 1657.3 |
| 27.5° | 1612.2 | 1609.2 | 1607.7 | 1611.5 | 1613.7 |
| 30°   | 1564.1 | 1563.3 | 1560.3 | 1566.4 | 1568.6 |
| 32.5° | 1517.5 | 1510.0 | 1511.5 | 1514.5 | 1515.2 |
| 35°   | 1459.6 | 1458.1 | 1454.3 | 1458.8 | 1459.6 |
| 37.5° | 1400.9 | 1400.2 | 1397.9 | 1399.4 | 1400.2 |
| 40°   | 1333.2 | 1332.5 | 1330.2 | 1333.2 | 1334.7 |
| 42.5° | 1258.0 | 1256.5 | 1256.5 | 1258.8 | 1261.1 |
| 45°   | 1175.3 | 1176.1 | 1177.6 | 1178.3 | 1182.1 |
| 47.5° | 1082.8 | 1084.3 | 1085.8 | 1084.3 | 1085.1 |
| 50°   | 986.6  | 985.8  | 978.3  | 983.6  | 979.8  |
| 52.5° | 885.1  | 873.8  | 867.8  | 879.8  | 888.1  |
| 55°   | 786.6  | 776.0  | 760.2  | 773.8  | 789.6  |
| 57.5° | 691.8  | 673.8  | 657.2  | 673.0  | 688.8  |
| 60°   | 605.3  | 577.5  | 568.5  | 578.3  | 601.6  |
| 62.5° | 512.8  | 493.3  | 490.3  | 491.8  | 512.1  |
| 65°   | 428.6  | 418.1  | 415.1  | 414.3  | 428.6  |
| 67.5° | 359.4  | 352.7  | 348.9  | 351.9  | 360.9  |
| 70°   | 300.8  | 297.8  | 292.5  | 297.8  | 302.3  |
| 72.5° | 252.7  | 251.9  | 247.4  | 251.9  | 250.4  |
| 75°   | 207.5  | 207.5  | 210.6  | 209.0  | 207.5  |
| 77.5° | 169.2  | 170.7  | 176.0  | 171.4  | 166.9  |
| 80°   | 130.8  | 134.6  | 142.1  | 135.4  | 131.6  |
| 82.5° | 93.2   | 101.5  | 109.8  | 101.5  | 96.3   |
| 85°   | 57.1   | 65.4   | 69.9   | 66.2   | 58.7   |
| 87.5° | 24.8   | 29.3   | 30.8   | 28.6   | 24.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)