

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: P738178

Luminaire Tested: **22PT-45-PB1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738178
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-L850
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -
Ballast/Driver: -

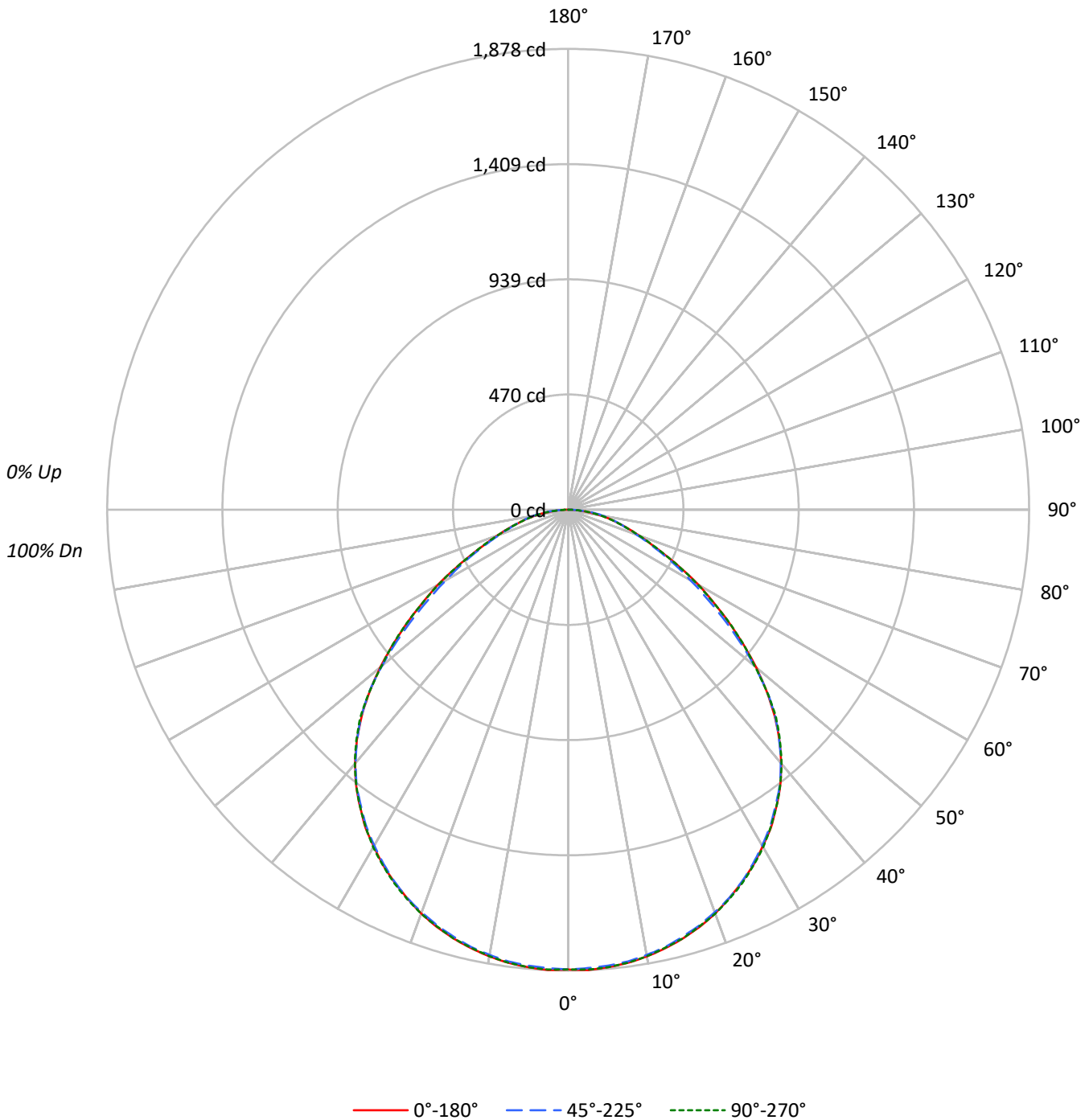
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4724.0 lumens
Efficiency: N/A
Efficacy: 133.8 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 (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: 25 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P738178

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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° | 5490 | 5490 | 5490 |
| 5° | 5504 | 5486 | 5504 |
| 10° | 5500 | 5482 | 5497 |
| 15° | 5487 | 5466 | 5485 |
| 20° | 5460 | 5443 | 5462 |
| 25° | 5415 | 5410 | 5427 |
| 30° | 5360 | 5347 | 5375 |
| 35° | 5288 | 5269 | 5288 |
| 40° | 5165 | 5153 | 5171 |
| 45° | 4933 | 4942 | 4961 |
| 50° | 4555 | 4517 | 4524 |
| 55° | 4070 | 3933 | 4085 |
| 60° | 3593 | 3374 | 3571 |
| 65° | 3010 | 2915 | 3010 |
| 70° | 2610 | 2538 | 2623 |
| 75° | 2380 | 2415 | 2380 |
| 80° | 2236 | 2430 | 2249 |
| 85° | 1947 | 2380 | 1997 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 177.7 | 3.8 |
| 10°-20° | 509.5 | 10.8 |
| 20°-30° | 771.5 | 16.3 |
| 30°-40° | 922.7 | 19.5 |
| 40°-50° | 913.6 | 19.3 |
| 50°-60° | 702.4 | 14.9 |
| 60°-70° | 427.7 | 9.1 |
| 70°-80° | 226.4 | 4.8 |
| 80°-90° | 72.5 | 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° | 1458.6 | 30.9 |
| 0°-40° | 2381.3 | 50.4 |
| 0°-60° | 3997.3 | 84.6 |
| 0°-90° | 4724.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4724.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1874 | 1874 | 1874 | 1874 | 1874 | |
| 5° | 1871 | 1871 | 1865 | 1868 | 1871 | 178 |
| 15° | 1809 | 1806 | 1802 | 1806 | 1808 | 510 |
| 25° | 1675 | 1673 | 1673 | 1676 | 1679 | 772 |
| 35° | 1478 | 1477 | 1473 | 1478 | 1478 | 924 |
| 45° | 1190 | 1191 | 1193 | 1194 | 1197 | 913 |
| 55° | 797 | 786 | 770 | 784 | 800 | 714 |
| 65° | 434 | 424 | 420 | 420 | 434 | 439 |
| 75° | 210 | 210 | 213 | 212 | 210 | 226 |
| 85° | 58 | 66 | 71 | 67 | 59 | 66 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738178

CATALOG NUMBER: 22PT-45-PB1-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1873.6 | 1873.6 | 1873.6 | 1873.6 | 1873.6 |
| 2.5° | 1878.2 | 1875.2 | 1869.8 | 1873.6 | 1875.9 |
| 5° | 1871.4 | 1870.6 | 1865.3 | 1868.3 | 1871.4 |
| 7.5° | 1863.0 | 1860.7 | 1856.9 | 1859.9 | 1862.2 |
| 10° | 1848.5 | 1847.0 | 1842.4 | 1846.2 | 1847.7 |
| 12.5° | 1830.2 | 1828.7 | 1825.7 | 1828.7 | 1827.9 |
| 15° | 1808.9 | 1805.9 | 1802.0 | 1805.9 | 1808.1 |
| 17.5° | 1782.2 | 1779.2 | 1776.2 | 1778.4 | 1780.0 |
| 20° | 1751.0 | 1746.4 | 1745.7 | 1748.7 | 1751.8 |
| 22.5° | 1713.7 | 1713.7 | 1712.9 | 1715.2 | 1716.7 |
| 25° | 1674.9 | 1673.3 | 1673.3 | 1675.6 | 1678.7 |
| 27.5° | 1633.0 | 1629.9 | 1628.4 | 1632.2 | 1634.5 |
| 30° | 1584.2 | 1583.5 | 1580.4 | 1586.5 | 1588.8 |
| 32.5° | 1537.0 | 1529.4 | 1530.9 | 1533.9 | 1534.7 |
| 35° | 1478.3 | 1476.8 | 1473.0 | 1477.6 | 1478.3 |
| 37.5° | 1418.9 | 1418.2 | 1415.9 | 1417.4 | 1418.2 |
| 40° | 1350.4 | 1349.6 | 1347.3 | 1350.4 | 1351.9 |
| 42.5° | 1274.2 | 1272.7 | 1272.7 | 1275.0 | 1277.3 |
| 45° | 1190.4 | 1191.2 | 1192.7 | 1193.5 | 1197.3 |
| 47.5° | 1096.8 | 1098.3 | 1099.8 | 1098.3 | 1099.1 |
| 50° | 999.3 | 998.5 | 990.9 | 996.2 | 992.4 |
| 52.5° | 896.5 | 885.0 | 878.9 | 891.1 | 899.5 |
| 55° | 796.7 | 786.0 | 770.0 | 783.7 | 799.7 |
| 57.5° | 700.7 | 682.4 | 665.7 | 681.7 | 697.7 |
| 60° | 613.1 | 584.9 | 575.8 | 585.7 | 609.3 |
| 62.5° | 519.4 | 499.6 | 496.6 | 498.1 | 518.7 |
| 65° | 434.1 | 423.5 | 420.4 | 419.7 | 434.1 |
| 67.5° | 364.1 | 357.2 | 353.4 | 356.4 | 365.6 |
| 70° | 304.7 | 301.6 | 296.3 | 301.6 | 306.2 |
| 72.5° | 255.9 | 255.2 | 250.6 | 255.2 | 253.6 |
| 75° | 210.2 | 210.2 | 213.3 | 211.7 | 210.2 |
| 77.5° | 171.4 | 172.9 | 178.2 | 173.7 | 169.1 |
| 80° | 132.5 | 136.3 | 144.0 | 137.1 | 133.3 |
| 82.5° | 94.4 | 102.8 | 111.2 | 102.8 | 97.5 |
| 85° | 57.9 | 66.3 | 70.8 | 67.0 | 59.4 |
| 87.5° | 25.1 | 29.7 | 31.2 | 28.9 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)