

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: P738574

Luminaire Tested: **24PT-50-PL1-L950**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-50-PL1-L950
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

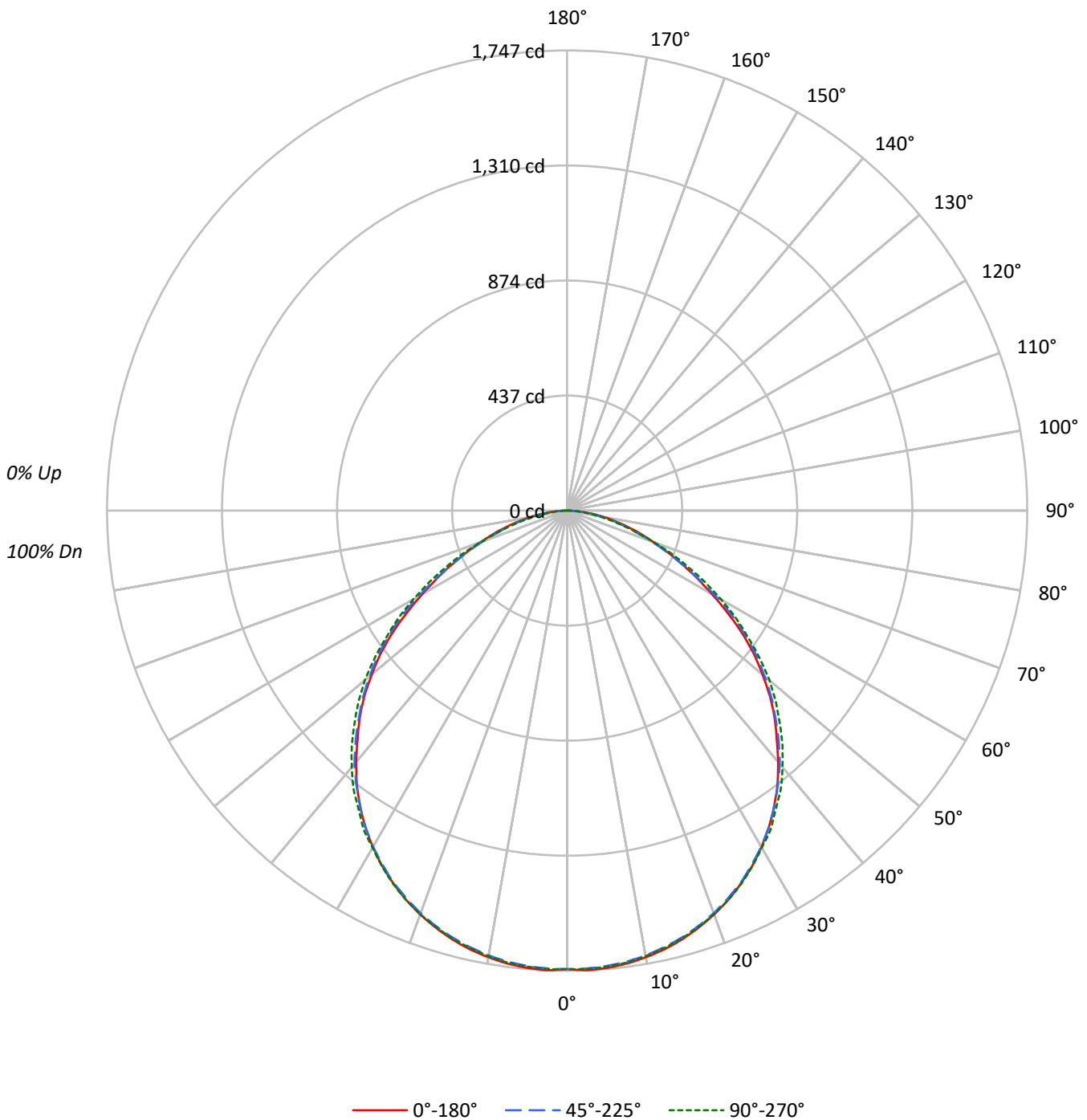
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4608.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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: P738574
CATALOG NUMBER: 24PT-50-PL1-L950

Luminous Intensity Polar Plot





TEST NUMBER: P738574

CATALOG NUMBER: 24PT-50-PL1-L950

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 | 70 | 65 | 74 | 69 | 64 | 71 | 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 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 |
| 6 | 71 | 58 | 50 | 43 | 69 | 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 | 30 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2496 | 2496 | 2496 |
| 5° | 2509 | 2498 | 2501 |
| 10° | 2507 | 2497 | 2501 |
| 15° | 2502 | 2492 | 2497 |
| 20° | 2490 | 2482 | 2488 |
| 25° | 2472 | 2466 | 2474 |
| 30° | 2442 | 2439 | 2447 |
| 35° | 2398 | 2399 | 2418 |
| 40° | 2332 | 2350 | 2382 |
| 45° | 2260 | 2270 | 2315 |
| 50° | 2159 | 2183 | 2236 |
| 55° | 2026 | 2064 | 2095 |
| 60° | 1820 | 1864 | 1933 |
| 65° | 1628 | 1632 | 1720 |
| 70° | 1452 | 1412 | 1462 |
| 75° | 1311 | 1234 | 1212 |
| 80° | 1165 | 1087 | 959 |
| 85° | 954 | 905 | 749 |



TEST NUMBER: P738574

CATALOG NUMBER: 24PT-50-PL1-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.1 | 3.6 |
| 10°-20° | 474.1 | 10.3 |
| 20°-30° | 718.4 | 15.6 |
| 30°-40° | 858.5 | 18.6 |
| 40°-50° | 866.0 | 18.8 |
| 50°-60° | 734.7 | 15.9 |
| 60°-70° | 486.1 | 10.5 |
| 70°-80° | 241.2 | 5.2 |
| 80°-90° | 63.8 | 1.4 |
| 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° | 1357.6 | 29.5 |
| 0°-40° | 2216.1 | 48.1 |
| 0°-60° | 3816.8 | 82.8 |
| 0°-90° | 4608.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4608.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1741 | 1741 | 1741 | 1741 | 1741 | |
| 5° | 1743 | 1737 | 1735 | 1734 | 1738 | 166 |
| 15° | 1686 | 1680 | 1679 | 1679 | 1682 | 476 |
| 25° | 1562 | 1559 | 1559 | 1558 | 1564 | 720 |
| 35° | 1370 | 1368 | 1371 | 1378 | 1381 | 856 |
| 45° | 1114 | 1113 | 1119 | 1134 | 1141 | 857 |
| 55° | 811 | 813 | 826 | 833 | 838 | 721 |
| 65° | 480 | 479 | 481 | 496 | 507 | 479 |
| 75° | 237 | 230 | 223 | 216 | 219 | 253 |
| 85° | 58 | 58 | 55 | 50 | 46 | 69 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738574

CATALOG NUMBER: 24PT-50-PL1-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1740.9 | 1740.9 | 1740.9 | 1740.9 | 1740.9 |
| 2.5° | 1746.9 | 1741.4 | 1739.9 | 1738.9 | 1742.9 |
| 5° | 1742.9 | 1736.9 | 1735.4 | 1734.4 | 1737.9 |
| 7.5° | 1734.9 | 1728.4 | 1727.4 | 1726.4 | 1730.9 |
| 10° | 1721.9 | 1715.9 | 1714.9 | 1713.9 | 1717.9 |
| 12.5° | 1706.4 | 1700.4 | 1698.3 | 1698.8 | 1701.4 |
| 15° | 1685.8 | 1680.3 | 1678.8 | 1678.8 | 1682.3 |
| 17.5° | 1660.3 | 1655.3 | 1654.3 | 1653.8 | 1658.3 |
| 20° | 1631.8 | 1626.8 | 1626.8 | 1628.3 | 1630.8 |
| 22.5° | 1599.3 | 1595.8 | 1593.8 | 1594.8 | 1599.8 |
| 25° | 1562.2 | 1558.7 | 1558.7 | 1558.2 | 1563.7 |
| 27.5° | 1521.2 | 1516.7 | 1516.7 | 1520.7 | 1522.7 |
| 30° | 1475.2 | 1471.2 | 1473.2 | 1476.2 | 1478.2 |
| 32.5° | 1425.6 | 1423.1 | 1424.6 | 1429.1 | 1437.1 |
| 35° | 1370.1 | 1368.1 | 1370.6 | 1378.1 | 1381.1 |
| 37.5° | 1312.0 | 1310.5 | 1314.0 | 1324.1 | 1332.6 |
| 40° | 1246.0 | 1246.0 | 1255.5 | 1264.5 | 1272.5 |
| 42.5° | 1177.4 | 1181.9 | 1188.9 | 1203.0 | 1210.0 |
| 45° | 1114.4 | 1112.9 | 1119.4 | 1134.4 | 1141.4 |
| 47.5° | 1044.3 | 1042.8 | 1052.3 | 1062.8 | 1074.4 |
| 50° | 967.8 | 967.3 | 978.8 | 987.8 | 1002.3 |
| 52.5° | 893.2 | 897.7 | 905.2 | 913.2 | 921.7 |
| 55° | 810.6 | 812.6 | 825.7 | 833.2 | 838.2 |
| 57.5° | 721.6 | 728.1 | 744.1 | 755.1 | 759.6 |
| 60° | 634.5 | 638.5 | 650.0 | 669.5 | 674.0 |
| 62.5° | 555.4 | 556.9 | 563.9 | 586.0 | 592.0 |
| 65° | 479.9 | 478.9 | 480.9 | 495.9 | 506.9 |
| 67.5° | 411.3 | 407.3 | 407.3 | 415.3 | 428.8 |
| 70° | 346.3 | 340.3 | 336.8 | 339.3 | 348.8 |
| 72.5° | 291.7 | 283.7 | 274.7 | 273.2 | 279.2 |
| 75° | 236.7 | 230.2 | 222.7 | 215.7 | 218.7 |
| 77.5° | 188.6 | 183.1 | 176.1 | 168.1 | 164.1 |
| 80° | 141.1 | 139.1 | 131.6 | 124.1 | 116.1 |
| 82.5° | 98.6 | 97.1 | 92.1 | 86.1 | 81.1 |
| 85° | 58.0 | 58.0 | 55.0 | 50.5 | 45.5 |
| 87.5° | 26.0 | 25.0 | 26.0 | 22.0 | 20.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)