

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: P738258

Luminaire Tested: **22PT-50-PR1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PR1-L850
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

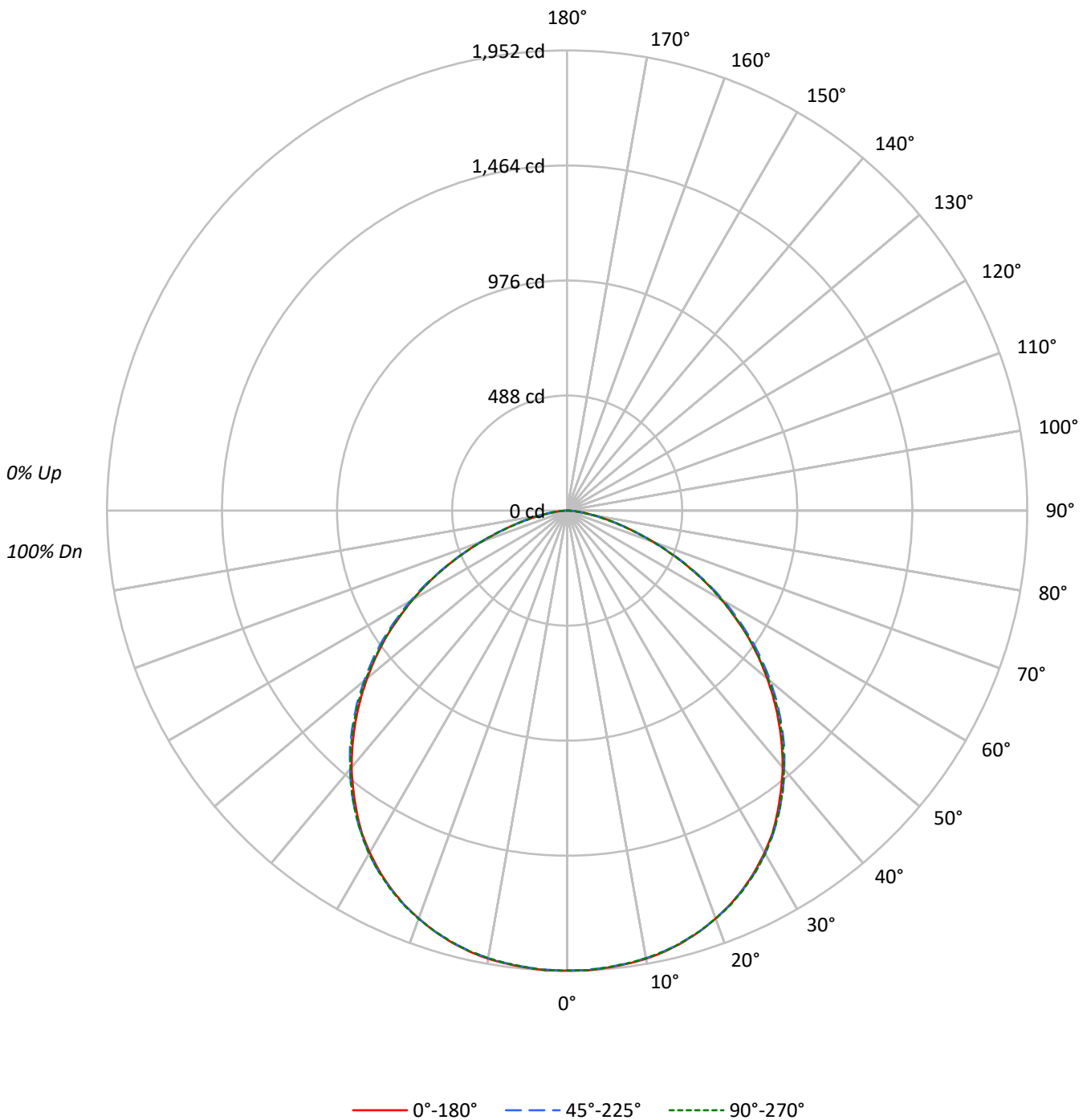
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5214.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
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 (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





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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 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 |
| 6 | 71 | 58 | 50 | 43 | 70 | 58 | 49 | 43 | 56 | 48 | 43 | 54 | 48 | 43 | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 |
| 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° | 5717 | 5717 | 5717 |
| 5° | 5726 | 5722 | 5722 |
| 10° | 5744 | 5735 | 5735 |
| 15° | 5751 | 5745 | 5747 |
| 20° | 5743 | 5741 | 5745 |
| 25° | 5718 | 5724 | 5729 |
| 30° | 5666 | 5684 | 5686 |
| 35° | 5571 | 5601 | 5599 |
| 40° | 5441 | 5478 | 5471 |
| 45° | 5263 | 5330 | 5303 |
| 50° | 5049 | 5126 | 5084 |
| 55° | 4793 | 4869 | 4799 |
| 60° | 4443 | 4504 | 4427 |
| 65° | 3964 | 4005 | 3959 |
| 70° | 3335 | 3335 | 3313 |
| 75° | 2613 | 2613 | 2585 |
| 80° | 1913 | 1892 | 1883 |
| 85° | 1247 | 1247 | 1274 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.1 | 3.6 |
| 10°-20° | 534.7 | 10.3 |
| 20°-30° | 815.6 | 15.6 |
| 30°-40° | 977.5 | 18.7 |
| 40°-50° | 987.2 | 18.9 |
| 50°-60° | 844.7 | 16.2 |
| 60°-70° | 569.6 | 10.9 |
| 70°-80° | 251.3 | 4.8 |
| 80°-90° | 48.2 | 0.9 |
| 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° | 1535.5 | 29.4 |
| 0°-40° | 2513.0 | 48.2 |
| 0°-60° | 4344.9 | 83.3 |
| 0°-90° | 5214.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5214.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1951 | 1951 | 1951 | 1951 | 1951 | |
| 5° | 1947 | 1944 | 1945 | 1944 | 1945 | 185 |
| 15° | 1896 | 1895 | 1894 | 1893 | 1894 | 535 |
| 25° | 1769 | 1771 | 1771 | 1771 | 1772 | 815 |
| 35° | 1557 | 1567 | 1566 | 1565 | 1565 | 973 |
| 45° | 1270 | 1280 | 1286 | 1284 | 1280 | 979 |
| 55° | 938 | 947 | 953 | 952 | 940 | 836 |
| 65° | 572 | 576 | 578 | 576 | 571 | 565 |
| 75° | 231 | 231 | 231 | 231 | 228 | 251 |
| 85° | 37 | 37 | 37 | 38 | 38 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738258

CATALOG NUMBER: 22PT-50-PR1-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1951.3 | 1951.3 | 1951.3 | 1951.3 | 1951.3 |
| 2.5° | 1952.5 | 1950.0 | 1949.2 | 1948.7 | 1951.3 |
| 5° | 1946.7 | 1944.1 | 1945.4 | 1944.1 | 1945.4 |
| 7.5° | 1939.5 | 1936.9 | 1937.7 | 1936.2 | 1937.7 |
| 10° | 1930.5 | 1927.7 | 1927.7 | 1926.4 | 1927.7 |
| 12.5° | 1916.0 | 1914.1 | 1913.4 | 1912.1 | 1914.1 |
| 15° | 1895.8 | 1895.2 | 1893.9 | 1893.2 | 1894.5 |
| 17.5° | 1871.1 | 1869.8 | 1871.1 | 1869.1 | 1870.4 |
| 20° | 1841.7 | 1842.5 | 1841.2 | 1841.7 | 1842.5 |
| 22.5° | 1808.5 | 1808.5 | 1809.2 | 1809.2 | 1810.5 |
| 25° | 1768.8 | 1770.6 | 1770.6 | 1770.6 | 1772.1 |
| 27.5° | 1724.5 | 1727.0 | 1728.9 | 1727.6 | 1728.9 |
| 30° | 1674.8 | 1679.4 | 1680.0 | 1679.4 | 1680.7 |
| 32.5° | 1621.4 | 1624.7 | 1626.5 | 1625.2 | 1623.9 |
| 35° | 1557.4 | 1566.6 | 1566.0 | 1564.6 | 1565.3 |
| 37.5° | 1490.3 | 1499.5 | 1502.6 | 1500.1 | 1500.8 |
| 40° | 1422.5 | 1430.4 | 1432.2 | 1433.0 | 1430.4 |
| 42.5° | 1347.5 | 1356.7 | 1363.9 | 1360.6 | 1356.7 |
| 45° | 1270.0 | 1279.7 | 1286.3 | 1284.3 | 1279.7 |
| 47.5° | 1189.8 | 1198.8 | 1208.0 | 1204.7 | 1200.3 |
| 50° | 1107.7 | 1116.7 | 1124.6 | 1123.3 | 1115.4 |
| 52.5° | 1023.5 | 1034.0 | 1041.1 | 1038.6 | 1028.1 |
| 55° | 938.2 | 946.7 | 953.1 | 951.8 | 939.5 |
| 57.5° | 845.6 | 856.6 | 859.9 | 857.9 | 848.9 |
| 60° | 758.1 | 765.5 | 768.6 | 766.0 | 755.5 |
| 62.5° | 664.9 | 670.8 | 673.4 | 672.8 | 665.7 |
| 65° | 571.8 | 576.4 | 577.6 | 576.4 | 571.0 |
| 67.5° | 476.0 | 482.4 | 483.2 | 483.2 | 477.8 |
| 70° | 389.3 | 391.1 | 389.3 | 394.4 | 386.7 |
| 72.5° | 305.1 | 306.4 | 305.1 | 305.1 | 301.8 |
| 75° | 230.8 | 231.4 | 230.8 | 231.4 | 228.3 |
| 77.5° | 166.9 | 168.2 | 165.6 | 167.6 | 164.3 |
| 80° | 113.4 | 113.4 | 112.1 | 112.8 | 111.6 |
| 82.5° | 70.4 | 71.7 | 69.8 | 69.8 | 69.1 |
| 85° | 37.1 | 37.1 | 37.1 | 37.9 | 37.9 |
| 87.5° | 13.0 | 13.0 | 13.6 | 13.6 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)