

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: P738346

Luminaire Tested: **22PT-45-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PW1-L850
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

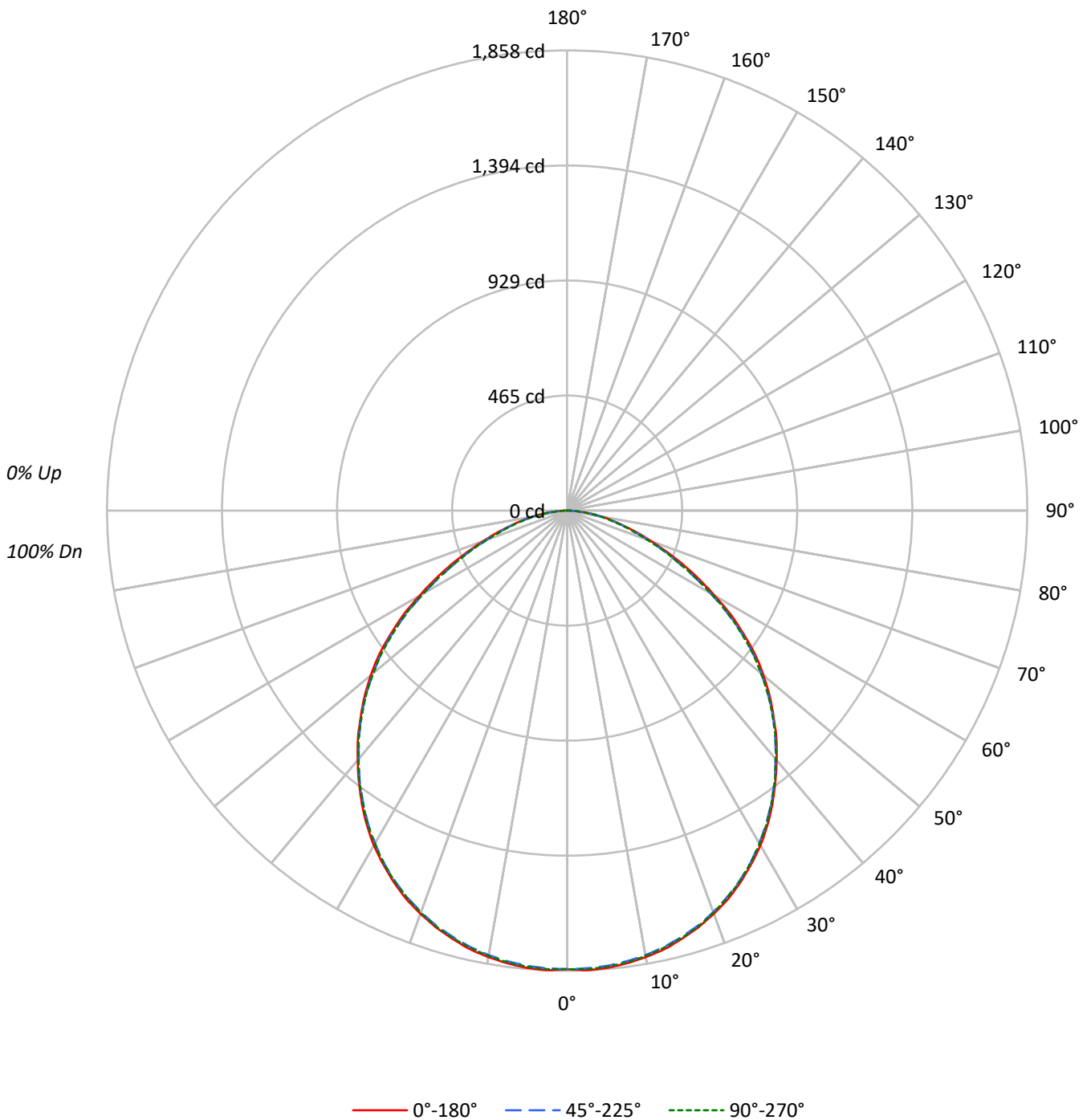
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.34
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

TEST NUMBER: P738346
CATALOG NUMBER: 22PT-45-PW1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738346

CATALOG NUMBER: 22PT-45-PW1-L850

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 | | 84 | 79 | 76 | | 81 | 77 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | | 74 | 69 | 64 | | 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 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 48 | 43 | | 54 | 48 | 43 | | 53 | 47 | 42 | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 38 | 51 | 44 | 38 | | 49 | 43 | 38 | | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | | 45 | 39 | 34 | | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | | 42 | 35 | 31 | | 41 | 35 | 31 | 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° | 5425 | 5425 | 5425 |
| 5° | 5452 | 5428 | 5438 |
| 10° | 5448 | 5422 | 5433 |
| 15° | 5430 | 5406 | 5419 |
| 20° | 5402 | 5379 | 5387 |
| 25° | 5353 | 5330 | 5336 |
| 30° | 5282 | 5249 | 5256 |
| 35° | 5170 | 5142 | 5145 |
| 40° | 5032 | 5006 | 5011 |
| 45° | 4887 | 4869 | 4863 |
| 50° | 4717 | 4665 | 4653 |
| 55° | 4445 | 4386 | 4362 |
| 60° | 4035 | 3918 | 3927 |
| 65° | 3588 | 3420 | 3420 |
| 70° | 3076 | 2963 | 2940 |
| 75° | 2667 | 2608 | 2548 |
| 80° | 2399 | 2303 | 2258 |
| 85° | 1906 | 1923 | 1819 |



TEST NUMBER: P738346

CATALOG NUMBER: 22PT-45-PW1-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.6 | 3.6 |
| 10°-20° | 503.5 | 10.4 |
| 20°-30° | 759.6 | 15.8 |
| 30°-40° | 899.6 | 18.7 |
| 40°-50° | 905.6 | 18.8 |
| 50°-60° | 765.7 | 15.9 |
| 60°-70° | 497.9 | 10.3 |
| 70°-80° | 247.8 | 5.1 |
| 80°-90° | 66.8 | 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° | 1438.6 | 29.8 |
| 0°-40° | 2338.2 | 48.5 |
| 0°-60° | 4009.6 | 83.2 |
| 0°-90° | 4822.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4822.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1852 | 1852 | 1852 | 1852 | 1852 | |
| 5° | 1854 | 1847 | 1845 | 1844 | 1849 | 176 |
| 15° | 1790 | 1784 | 1782 | 1782 | 1786 | 505 |
| 25° | 1656 | 1650 | 1648 | 1647 | 1651 | 763 |
| 35° | 1445 | 1439 | 1438 | 1438 | 1438 | 903 |
| 45° | 1179 | 1175 | 1175 | 1174 | 1174 | 910 |
| 55° | 870 | 863 | 859 | 855 | 854 | 777 |
| 65° | 518 | 503 | 493 | 490 | 493 | 514 |
| 75° | 236 | 236 | 230 | 224 | 225 | 255 |
| 85° | 57 | 58 | 57 | 57 | 54 | 68 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738346

CATALOG NUMBER: 22PT-45-PW1-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1851.6 | 1851.6 | 1851.6 | 1851.6 | 1851.6 |
| 2.5° | 1857.9 | 1851.6 | 1849.5 | 1848.4 | 1853.1 |
| 5° | 1853.7 | 1846.9 | 1845.3 | 1844.2 | 1848.9 |
| 7.5° | 1844.2 | 1837.9 | 1835.8 | 1835.3 | 1840.0 |
| 10° | 1831.1 | 1824.8 | 1822.2 | 1821.1 | 1825.9 |
| 12.5° | 1814.3 | 1807.5 | 1804.9 | 1803.8 | 1808.0 |
| 15° | 1790.2 | 1784.4 | 1782.3 | 1781.8 | 1786.5 |
| 17.5° | 1763.9 | 1758.2 | 1757.1 | 1755.5 | 1760.3 |
| 20° | 1732.4 | 1726.7 | 1725.1 | 1723.0 | 1727.7 |
| 22.5° | 1697.8 | 1691.0 | 1688.9 | 1687.3 | 1691.0 |
| 25° | 1655.8 | 1650.0 | 1648.5 | 1646.9 | 1650.6 |
| 27.5° | 1609.6 | 1605.4 | 1603.3 | 1601.8 | 1603.9 |
| 30° | 1561.3 | 1554.0 | 1551.4 | 1550.3 | 1553.5 |
| 32.5° | 1505.7 | 1500.5 | 1496.8 | 1496.3 | 1499.9 |
| 35° | 1445.4 | 1439.1 | 1437.5 | 1437.5 | 1438.5 |
| 37.5° | 1381.3 | 1378.2 | 1375.6 | 1374.0 | 1377.1 |
| 40° | 1315.7 | 1314.7 | 1308.9 | 1308.4 | 1310.0 |
| 42.5° | 1251.2 | 1247.0 | 1242.8 | 1244.9 | 1245.9 |
| 45° | 1179.3 | 1175.1 | 1175.1 | 1173.5 | 1173.5 |
| 47.5° | 1110.0 | 1105.8 | 1100.0 | 1100.6 | 1101.6 |
| 50° | 1034.9 | 1029.7 | 1023.4 | 1027.1 | 1020.8 |
| 52.5° | 958.3 | 948.9 | 944.2 | 944.2 | 943.6 |
| 55° | 870.2 | 862.8 | 858.6 | 854.9 | 853.9 |
| 57.5° | 785.1 | 774.1 | 763.6 | 764.7 | 768.3 |
| 60° | 688.6 | 683.3 | 668.6 | 669.7 | 670.2 |
| 62.5° | 601.4 | 591.5 | 576.3 | 576.3 | 581.5 |
| 65° | 517.5 | 503.3 | 493.3 | 489.7 | 493.3 |
| 67.5° | 435.1 | 427.2 | 418.8 | 413.0 | 418.3 |
| 70° | 359.0 | 354.8 | 345.9 | 340.1 | 343.2 |
| 72.5° | 297.0 | 291.3 | 283.9 | 280.8 | 277.6 |
| 75° | 235.6 | 235.6 | 230.4 | 224.1 | 225.1 |
| 77.5° | 185.8 | 184.2 | 180.5 | 177.9 | 177.9 |
| 80° | 142.2 | 140.7 | 136.5 | 135.4 | 133.8 |
| 82.5° | 98.1 | 98.7 | 96.6 | 95.0 | 92.9 |
| 85° | 56.7 | 57.7 | 57.2 | 57.2 | 54.1 |
| 87.5° | 24.1 | 22.0 | 23.6 | 23.1 | 25.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)