

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: P737885

Luminaire Tested: **14PT-50-PW1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PW1-L940
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

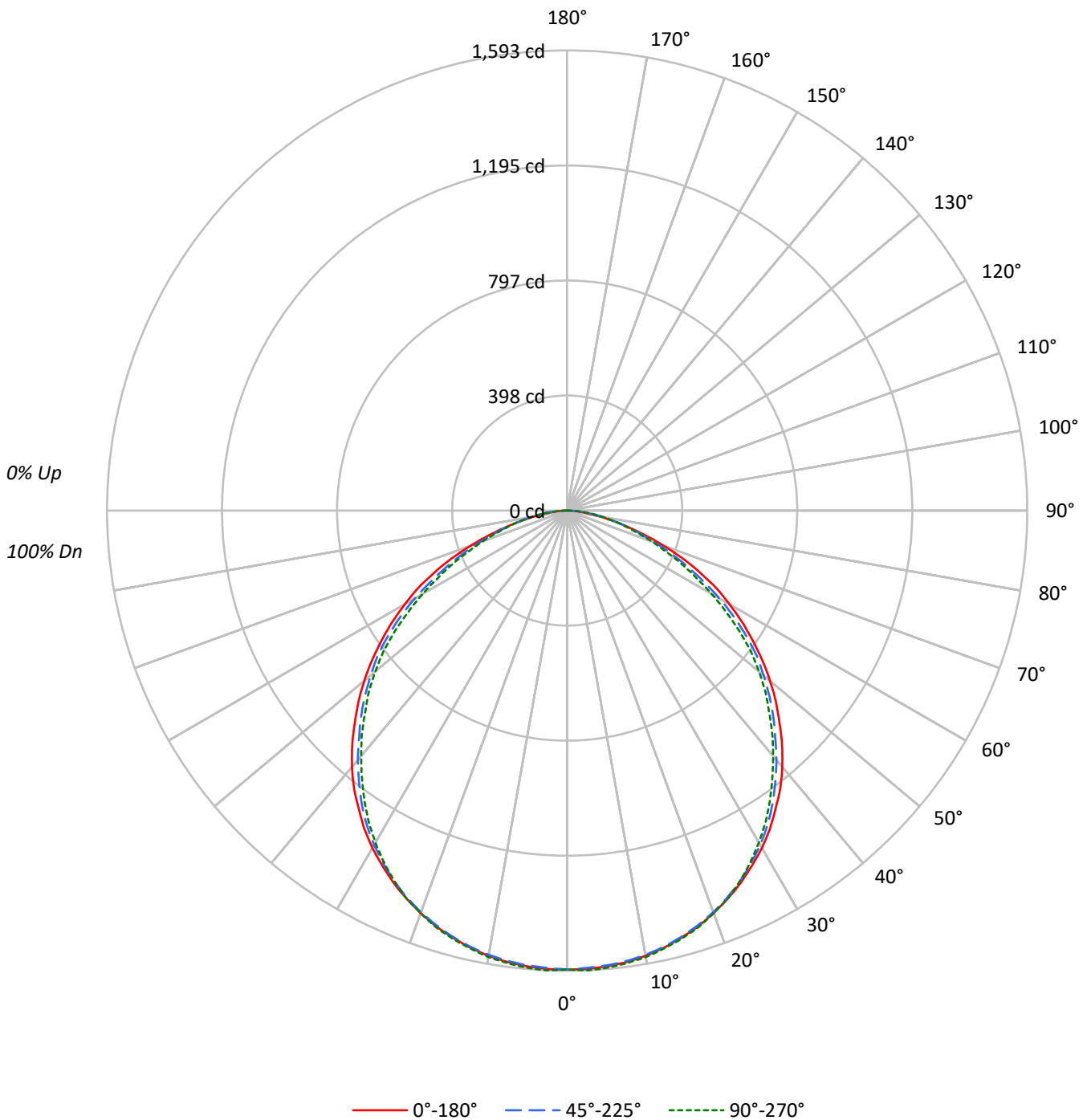
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4216.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | | 94 | 92 | 90 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | | 83 | 79 | 75 | | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | | 74 | 68 | 64 | | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 | 59 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | | 59 | 53 | 48 | | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | | 54 | 47 | 42 | | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | | 49 | 42 | 37 | | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | | 45 | 38 | 34 | | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | | 41 | 35 | 30 | | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | | 38 | 32 | 28 | | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4763 | 4763 | 4763 |
| 5° | 4767 | 4757 | 4781 |
| 10° | 4765 | 4754 | 4777 |
| 15° | 4750 | 4743 | 4761 |
| 20° | 4731 | 4719 | 4731 |
| 25° | 4704 | 4685 | 4681 |
| 30° | 4669 | 4628 | 4595 |
| 35° | 4606 | 4537 | 4479 |
| 40° | 4536 | 4412 | 4343 |
| 45° | 4410 | 4280 | 4193 |
| 50° | 4278 | 4138 | 4042 |
| 55° | 4098 | 3960 | 3803 |
| 60° | 3886 | 3656 | 3466 |
| 65° | 3595 | 3265 | 3103 |
| 70° | 3116 | 2843 | 2735 |
| 75° | 2489 | 2434 | 2367 |
| 80° | 1891 | 2113 | 2113 |
| 85° | 1397 | 1803 | 1803 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.7 | 3.6 |
| 10°-20° | 432.1 | 10.2 |
| 20°-30° | 653.1 | 15.5 |
| 30°-40° | 775.5 | 18.4 |
| 40°-50° | 781.3 | 18.5 |
| 50°-60° | 675.3 | 16.0 |
| 60°-70° | 461.5 | 10.9 |
| 70°-80° | 227.6 | 5.4 |
| 80°-90° | 58.9 | 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° | 1235.9 | 29.3 |
| 0°-40° | 2011.4 | 47.7 |
| 0°-60° | 3468.0 | 82.3 |
| 0°-90° | 4216.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4216.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1589 | 1589 | 1589 | 1589 | 1589 | |
| 5° | 1584 | 1585 | 1580 | 1587 | 1589 | 151 |
| 15° | 1530 | 1532 | 1528 | 1533 | 1534 | 432 |
| 25° | 1422 | 1421 | 1416 | 1417 | 1415 | 655 |
| 35° | 1258 | 1254 | 1240 | 1228 | 1224 | 788 |
| 45° | 1040 | 1029 | 1010 | 998 | 989 | 803 |
| 55° | 784 | 782 | 758 | 735 | 728 | 701 |
| 65° | 507 | 489 | 460 | 440 | 437 | 500 |
| 75° | 215 | 213 | 210 | 210 | 204 | 234 |
| 85° | 41 | 48 | 52 | 54 | 52 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1588.7 | 1588.7 | 1588.7 | 1588.7 | 1588.7 |
| 2.5° | 1588.1 | 1588.7 | 1584.6 | 1591.7 | 1593.4 |
| 5° | 1584.0 | 1584.6 | 1580.5 | 1587.0 | 1588.7 |
| 7.5° | 1576.4 | 1577.5 | 1572.8 | 1579.3 | 1580.5 |
| 10° | 1565.2 | 1565.8 | 1561.6 | 1568.1 | 1569.3 |
| 12.5° | 1549.9 | 1550.5 | 1546.9 | 1552.8 | 1552.8 |
| 15° | 1530.4 | 1532.2 | 1528.1 | 1533.4 | 1534.0 |
| 17.5° | 1508.7 | 1509.3 | 1505.1 | 1511.0 | 1512.2 |
| 20° | 1482.8 | 1482.8 | 1479.2 | 1483.9 | 1482.8 |
| 22.5° | 1453.9 | 1453.9 | 1449.8 | 1452.2 | 1453.3 |
| 25° | 1422.1 | 1421.0 | 1416.3 | 1417.4 | 1415.1 |
| 27.5° | 1385.6 | 1385.6 | 1377.4 | 1377.4 | 1373.3 |
| 30° | 1348.6 | 1345.6 | 1336.8 | 1331.5 | 1327.4 |
| 32.5° | 1306.2 | 1302.1 | 1290.9 | 1281.5 | 1278.5 |
| 35° | 1258.5 | 1254.4 | 1239.7 | 1228.5 | 1223.8 |
| 37.5° | 1212.6 | 1203.2 | 1183.7 | 1172.6 | 1167.3 |
| 40° | 1159.0 | 1147.2 | 1127.2 | 1111.9 | 1109.6 |
| 42.5° | 1101.3 | 1091.9 | 1066.0 | 1054.8 | 1051.9 |
| 45° | 1040.1 | 1028.9 | 1009.5 | 997.7 | 988.9 |
| 47.5° | 980.1 | 971.8 | 949.5 | 935.3 | 932.4 |
| 50° | 917.1 | 910.0 | 887.1 | 871.8 | 866.5 |
| 52.5° | 851.8 | 847.0 | 827.6 | 808.2 | 801.7 |
| 55° | 784.1 | 781.7 | 757.6 | 735.2 | 727.6 |
| 57.5° | 717.5 | 714.6 | 684.6 | 658.7 | 651.6 |
| 60° | 648.1 | 639.3 | 609.8 | 585.7 | 578.0 |
| 62.5° | 582.2 | 563.3 | 531.5 | 512.7 | 503.9 |
| 65° | 506.8 | 488.6 | 460.3 | 440.3 | 437.4 |
| 67.5° | 432.6 | 410.9 | 389.1 | 376.7 | 367.3 |
| 70° | 355.5 | 340.8 | 324.3 | 313.7 | 312.0 |
| 72.5° | 283.7 | 273.1 | 264.9 | 258.4 | 253.1 |
| 75° | 214.9 | 213.1 | 210.1 | 210.1 | 204.3 |
| 77.5° | 157.8 | 161.9 | 164.2 | 163.6 | 164.8 |
| 80° | 109.5 | 117.7 | 122.4 | 123.0 | 122.4 |
| 82.5° | 69.5 | 78.9 | 86.5 | 87.7 | 88.9 |
| 85° | 40.6 | 47.7 | 52.4 | 53.6 | 52.4 |
| 87.5° | 18.2 | 23.0 | 24.1 | 25.3 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)