

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: P737860

Luminaire Tested: **14PT-50-PL1-L935**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PL1-L935
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

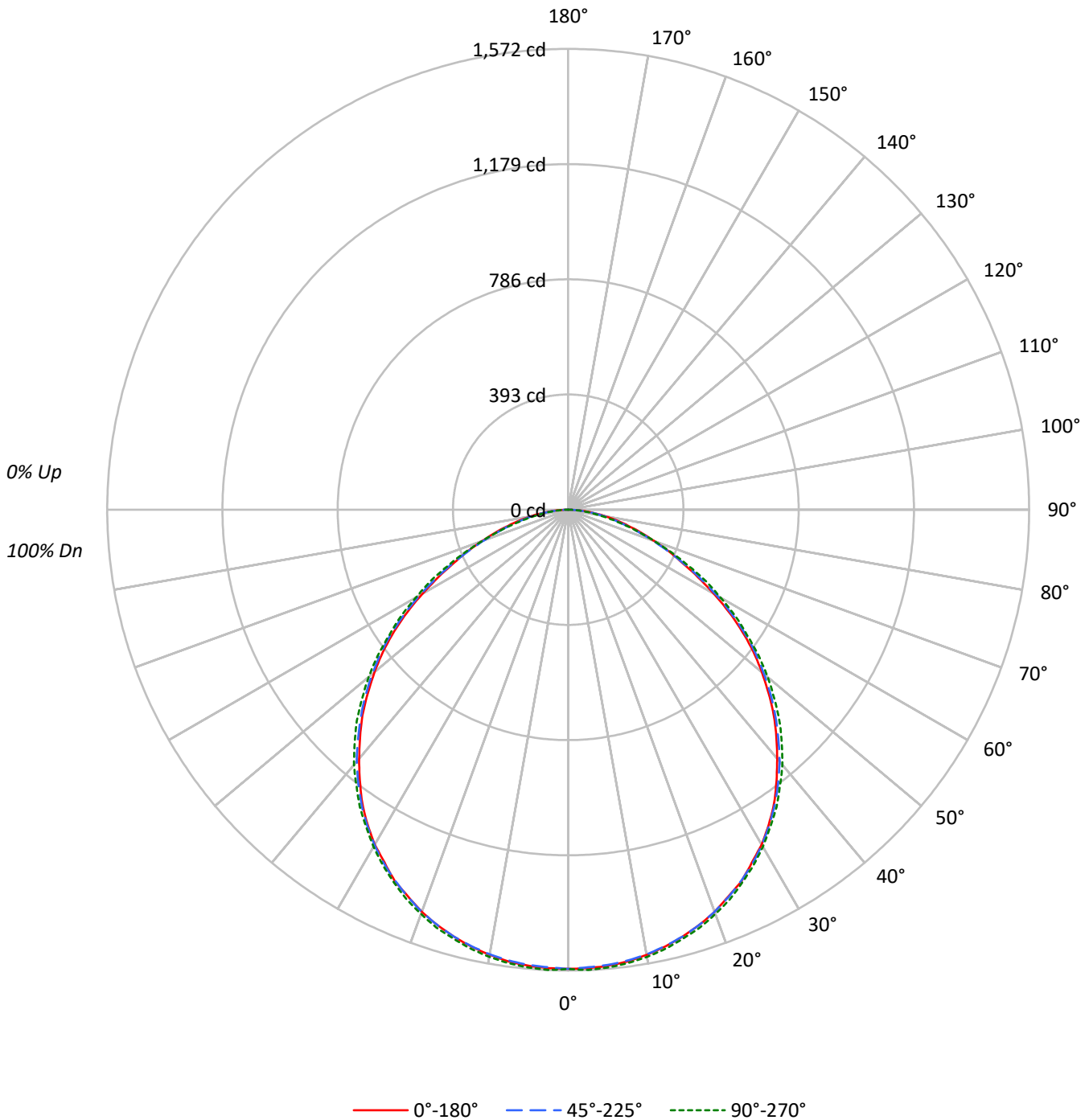
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4129.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
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 (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

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Luminous Intensity Polar Plot





TEST NUMBER: P737860

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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 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 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 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4696 | 4696 | 4696 |
| 5° | 4700 | 4691 | 4717 |
| 10° | 4694 | 4689 | 4715 |
| 15° | 4680 | 4678 | 4701 |
| 20° | 4657 | 4657 | 4683 |
| 25° | 4625 | 4619 | 4644 |
| 30° | 4567 | 4573 | 4595 |
| 35° | 4479 | 4497 | 4533 |
| 40° | 4340 | 4390 | 4447 |
| 45° | 4205 | 4239 | 4321 |
| 50° | 4020 | 4063 | 4144 |
| 55° | 3786 | 3847 | 3892 |
| 60° | 3435 | 3508 | 3595 |
| 65° | 3050 | 3084 | 3207 |
| 70° | 2727 | 2671 | 2737 |
| 75° | 2460 | 2319 | 2273 |
| 80° | 2234 | 2074 | 1844 |
| 85° | 1895 | 1717 | 1476 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.6 | 3.6 |
| 10°-20° | 426.2 | 10.3 |
| 20°-30° | 644.6 | 15.6 |
| 30°-40° | 768.4 | 18.6 |
| 40°-50° | 772.6 | 18.7 |
| 50°-60° | 655.7 | 15.9 |
| 60°-70° | 436.6 | 10.6 |
| 70°-80° | 218.0 | 5.3 |
| 80°-90° | 58.3 | 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° | 1219.4 | 29.5 |
| 0°-40° | 1987.7 | 48.1 |
| 0°-60° | 3416.1 | 82.7 |
| 0°-90° | 4129.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4129.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1566 | 1566 | 1566 | 1566 | 1566 | |
| 5° | 1562 | 1562 | 1559 | 1566 | 1568 | 148 |
| 15° | 1508 | 1510 | 1507 | 1514 | 1515 | 425 |
| 25° | 1398 | 1398 | 1396 | 1403 | 1404 | 643 |
| 35° | 1224 | 1225 | 1229 | 1237 | 1238 | 763 |
| 45° | 992 | 994 | 1000 | 1013 | 1019 | 763 |
| 55° | 724 | 730 | 736 | 743 | 745 | 645 |
| 65° | 430 | 434 | 435 | 441 | 452 | 431 |
| 75° | 212 | 210 | 200 | 196 | 196 | 228 |
| 85° | 55 | 54 | 50 | 47 | 43 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P737860

CATALOG NUMBER: 14PT-50-PL1-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1566.4 | 1566.4 | 1566.4 | 1566.4 | 1566.4 |
| 2.5° | 1565.2 | 1566.4 | 1562.3 | 1569.8 | 1571.6 |
| 5° | 1561.7 | 1562.3 | 1558.8 | 1565.8 | 1567.5 |
| 7.5° | 1554.2 | 1554.7 | 1551.3 | 1558.8 | 1560.0 |
| 10° | 1542.0 | 1543.1 | 1540.2 | 1547.2 | 1548.9 |
| 12.5° | 1526.3 | 1528.0 | 1525.1 | 1532.7 | 1533.9 |
| 15° | 1507.7 | 1509.5 | 1507.2 | 1513.5 | 1514.7 |
| 17.5° | 1485.1 | 1486.3 | 1485.1 | 1490.9 | 1494.4 |
| 20° | 1459.6 | 1459.6 | 1459.6 | 1464.8 | 1467.7 |
| 22.5° | 1427.6 | 1430.5 | 1429.4 | 1436.4 | 1439.3 |
| 25° | 1398.1 | 1398.1 | 1396.3 | 1402.7 | 1403.9 |
| 27.5° | 1356.8 | 1361.5 | 1360.9 | 1366.7 | 1367.9 |
| 30° | 1319.1 | 1320.3 | 1320.9 | 1324.9 | 1327.2 |
| 32.5° | 1273.3 | 1274.4 | 1276.2 | 1282.0 | 1282.6 |
| 35° | 1223.9 | 1225.1 | 1228.6 | 1237.3 | 1238.5 |
| 37.5° | 1166.5 | 1172.9 | 1175.8 | 1185.1 | 1186.2 |
| 40° | 1109.0 | 1113.1 | 1121.8 | 1131.7 | 1136.3 |
| 42.5° | 1050.4 | 1055.1 | 1060.3 | 1073.6 | 1077.7 |
| 45° | 991.8 | 993.6 | 999.9 | 1013.3 | 1019.1 |
| 47.5° | 926.8 | 932.0 | 937.8 | 949.4 | 952.9 |
| 50° | 861.8 | 867.6 | 871.1 | 881.5 | 888.5 |
| 52.5° | 796.2 | 801.5 | 805.5 | 811.9 | 818.9 |
| 55° | 724.3 | 729.5 | 735.9 | 742.8 | 744.6 |
| 57.5° | 651.1 | 657.0 | 661.0 | 668.6 | 676.1 |
| 60° | 572.8 | 579.2 | 585.0 | 592.0 | 599.5 |
| 62.5° | 499.7 | 502.6 | 508.4 | 520.0 | 531.0 |
| 65° | 430.0 | 433.5 | 434.7 | 441.1 | 452.1 |
| 67.5° | 372.0 | 372.0 | 366.8 | 369.1 | 381.3 |
| 70° | 311.1 | 308.7 | 304.7 | 302.4 | 312.2 |
| 72.5° | 261.7 | 258.8 | 250.1 | 246.1 | 251.3 |
| 75° | 212.4 | 209.5 | 200.2 | 195.6 | 196.2 |
| 77.5° | 170.6 | 166.0 | 158.4 | 150.3 | 148.6 |
| 80° | 129.4 | 127.7 | 120.1 | 112.6 | 106.8 |
| 82.5° | 91.7 | 87.6 | 83.6 | 78.9 | 74.3 |
| 85° | 55.1 | 54.0 | 49.9 | 47.0 | 42.9 |
| 87.5° | 22.6 | 22.6 | 21.5 | 20.3 | 19.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)