

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: P738381

Luminaire Tested: **24PT-100-PL1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738381
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-100-PL1-L940
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

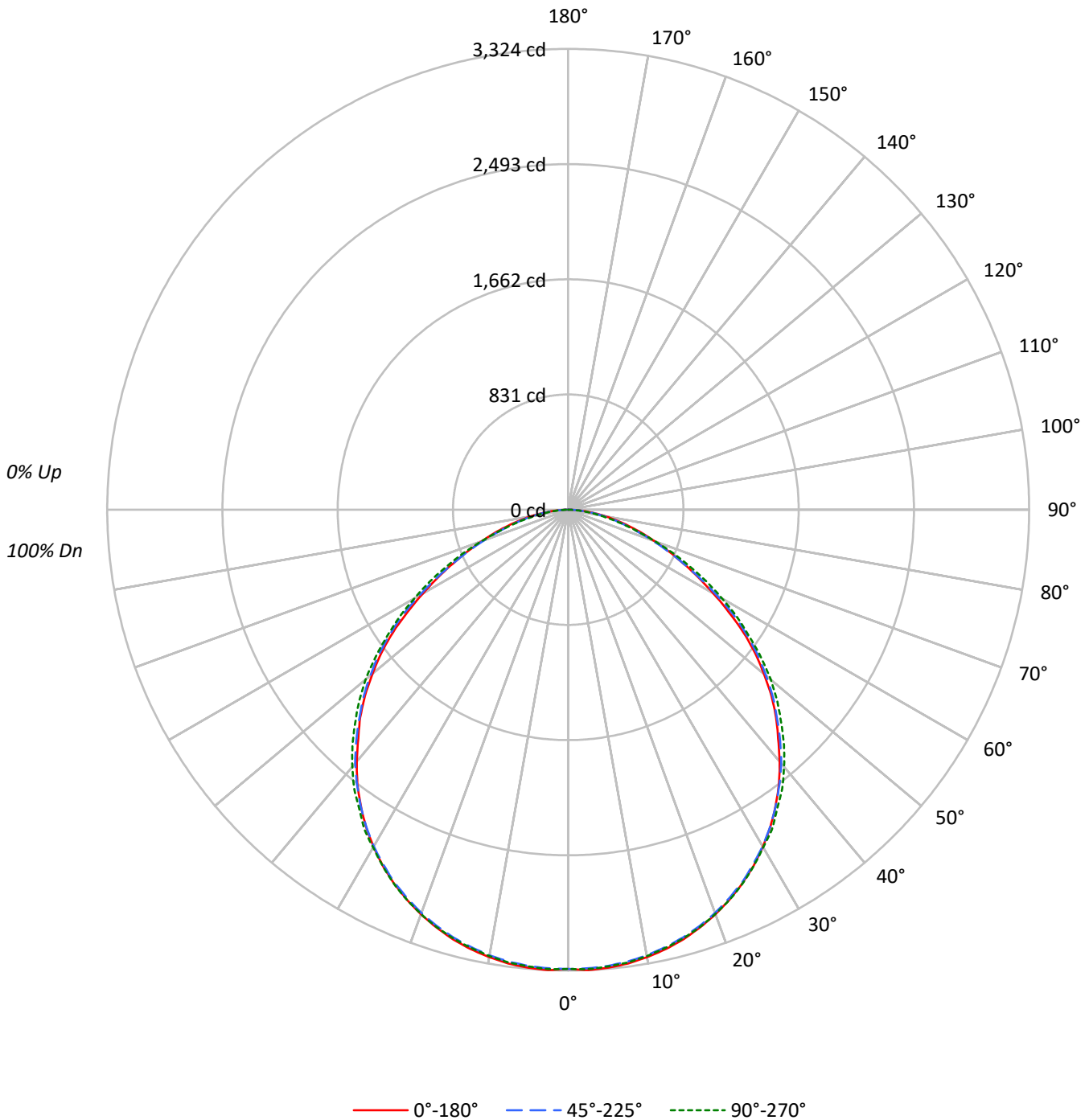
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8769.0 lumens
Efficiency: N/A
Efficacy: 102.7 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): 85.4
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: P738381
CATALOG NUMBER: 24PT-100-PL1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P738381

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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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 | | | | | 52 | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | 46 | | | |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 | | | | | 35 | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 29 | | | | | 29 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4750 | 4750 | 4750 |
| 5° | 4774 | 4753 | 4760 |
| 10° | 4771 | 4751 | 4760 |
| 15° | 4762 | 4742 | 4752 |
| 20° | 4738 | 4724 | 4735 |
| 25° | 4703 | 4693 | 4708 |
| 30° | 4648 | 4642 | 4657 |
| 35° | 4564 | 4565 | 4600 |
| 40° | 4438 | 4472 | 4533 |
| 45° | 4300 | 4320 | 4405 |
| 50° | 4108 | 4155 | 4255 |
| 55° | 3857 | 3928 | 3987 |
| 60° | 3463 | 3547 | 3678 |
| 65° | 3098 | 3105 | 3273 |
| 70° | 2763 | 2687 | 2782 |
| 75° | 2495 | 2348 | 2305 |
| 80° | 2217 | 2068 | 1824 |
| 85° | 1818 | 1722 | 1426 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 314.2 | 3.6 |
| 10°-20° | 902.3 | 10.3 |
| 20°-30° | 1367.0 | 15.6 |
| 30°-40° | 1633.7 | 18.6 |
| 40°-50° | 1648.0 | 18.8 |
| 50°-60° | 1398.2 | 15.9 |
| 60°-70° | 925.1 | 10.5 |
| 70°-80° | 459.1 | 5.2 |
| 80°-90° | 121.4 | 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° | 2583.6 | 29.5 |
| 0°-40° | 4217.2 | 48.1 |
| 0°-60° | 7263.4 | 82.8 |
| 0°-90° | 8769.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8769.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3313 | 3313 | 3313 | 3313 | 3313 | |
| 5° | 3317 | 3305 | 3302 | 3300 | 3307 | 315 |
| 15° | 3208 | 3198 | 3195 | 3195 | 3202 | 905 |
| 25° | 2973 | 2966 | 2966 | 2965 | 2976 | 1369 |
| 35° | 2607 | 2604 | 2608 | 2622 | 2628 | 1629 |
| 45° | 2121 | 2118 | 2130 | 2159 | 2172 | 1632 |
| 55° | 1543 | 1546 | 1571 | 1586 | 1595 | 1372 |
| 65° | 913 | 911 | 915 | 944 | 965 | 911 |
| 75° | 450 | 438 | 424 | 410 | 416 | 482 |
| 85° | 110 | 110 | 105 | 96 | 87 | 131 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3312.9 | 3312.9 | 3312.9 | 3312.9 | 3312.9 |
| 2.5° | 3324.3 | 3313.8 | 3311.0 | 3309.1 | 3316.7 |
| 5° | 3316.7 | 3305.3 | 3302.4 | 3300.5 | 3307.2 |
| 7.5° | 3301.5 | 3289.1 | 3287.2 | 3285.3 | 3293.8 |
| 10° | 3276.7 | 3265.3 | 3263.4 | 3261.5 | 3269.1 |
| 12.5° | 3247.2 | 3235.8 | 3232.0 | 3232.9 | 3237.7 |
| 15° | 3208.1 | 3197.7 | 3194.8 | 3194.8 | 3201.5 |
| 17.5° | 3159.6 | 3150.1 | 3148.2 | 3147.2 | 3155.8 |
| 20° | 3105.3 | 3095.8 | 3095.8 | 3098.6 | 3103.4 |
| 22.5° | 3043.4 | 3036.7 | 3032.9 | 3034.8 | 3044.4 |
| 25° | 2972.9 | 2966.3 | 2966.3 | 2965.3 | 2975.8 |
| 27.5° | 2894.9 | 2886.3 | 2886.3 | 2893.9 | 2897.7 |
| 30° | 2807.2 | 2799.6 | 2803.4 | 2809.1 | 2813.0 |
| 32.5° | 2713.0 | 2708.2 | 2711.1 | 2719.6 | 2734.9 |
| 35° | 2607.3 | 2603.5 | 2608.2 | 2622.5 | 2628.2 |
| 37.5° | 2496.8 | 2494.0 | 2500.6 | 2519.7 | 2535.9 |
| 40° | 2371.1 | 2371.1 | 2389.2 | 2406.3 | 2421.6 |
| 42.5° | 2240.7 | 2249.2 | 2262.6 | 2289.2 | 2302.6 |
| 45° | 2120.7 | 2117.8 | 2130.2 | 2158.8 | 2172.1 |
| 47.5° | 1987.4 | 1984.5 | 2002.6 | 2022.6 | 2044.5 |
| 50° | 1841.7 | 1840.7 | 1862.6 | 1879.7 | 1907.4 |
| 52.5° | 1699.8 | 1708.3 | 1722.6 | 1737.9 | 1754.1 |
| 55° | 1542.7 | 1546.5 | 1571.2 | 1585.5 | 1595.0 |
| 57.5° | 1373.2 | 1385.5 | 1416.0 | 1437.0 | 1445.5 |
| 60° | 1207.5 | 1215.1 | 1237.0 | 1274.1 | 1282.7 |
| 62.5° | 1057.0 | 1059.9 | 1073.2 | 1115.1 | 1126.5 |
| 65° | 913.2 | 911.3 | 915.1 | 943.7 | 964.6 |
| 67.5° | 782.8 | 775.1 | 775.1 | 790.4 | 816.1 |
| 70° | 659.0 | 647.5 | 640.9 | 645.6 | 663.7 |
| 72.5° | 555.2 | 539.9 | 522.8 | 519.9 | 531.4 |
| 75° | 450.4 | 438.0 | 423.8 | 410.4 | 416.1 |
| 77.5° | 359.0 | 348.5 | 335.2 | 320.0 | 312.3 |
| 80° | 268.5 | 264.7 | 250.4 | 236.2 | 220.9 |
| 82.5° | 187.6 | 184.7 | 175.2 | 163.8 | 154.3 |
| 85° | 110.5 | 110.5 | 104.7 | 96.2 | 86.7 |
| 87.5° | 49.5 | 47.6 | 49.5 | 41.9 | 39.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)