

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: P738414

Luminaire Tested: **24PT-20-PL1-L950**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738414  
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-20-PL1-L950  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -  
Ballast/Driver: -

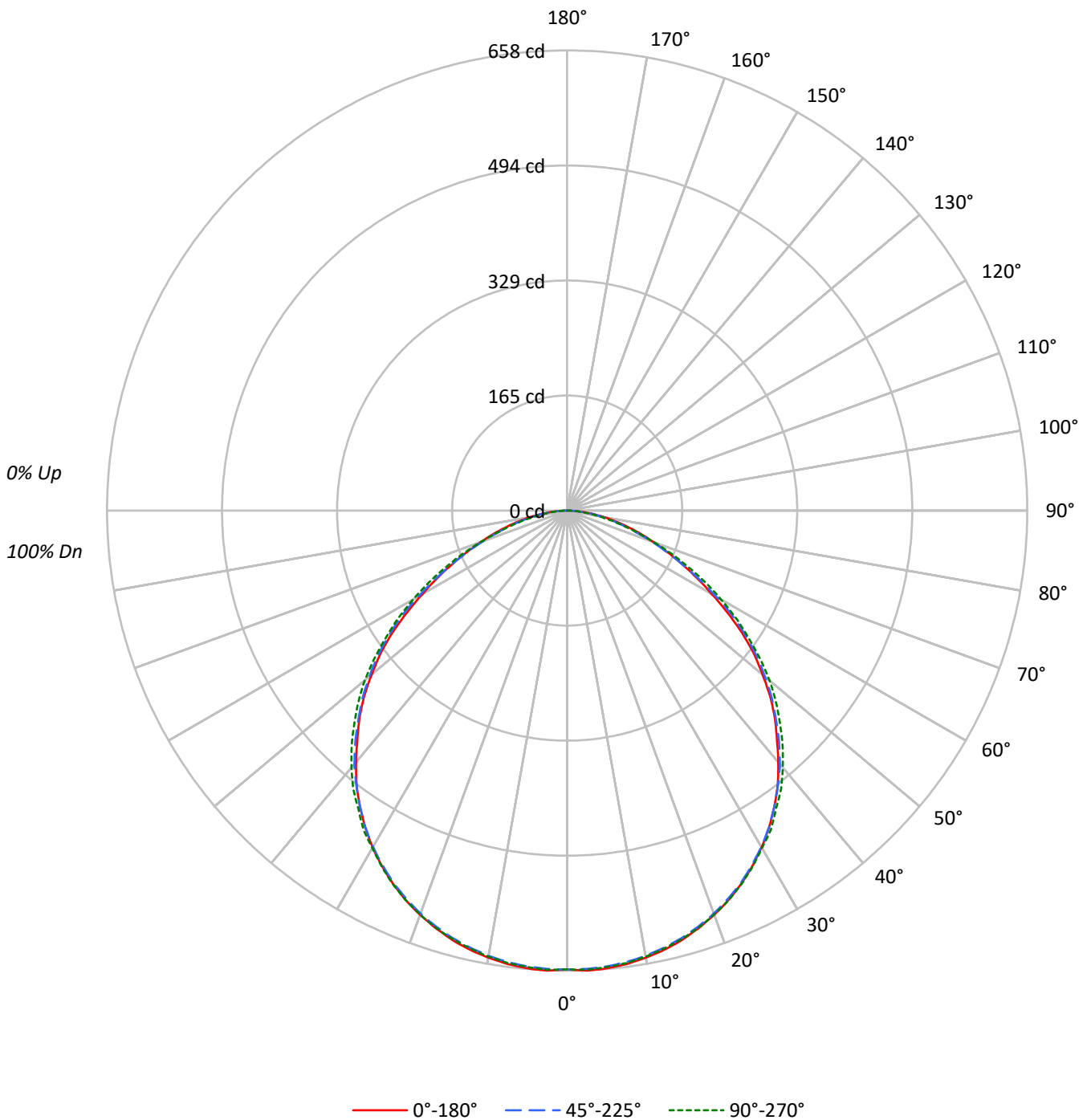
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1737.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 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): 15.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 96  | 98  | 95  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  | 83  | 79  | 76  |  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 70  | 65  |  | 74  | 69  | 64  |  | 71  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 62  | 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  | 40  | 33  | 28  | 40  | 33  | 28  |  | 39  | 32  | 28  |  | 38  | 32  | 28  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°  | 45° | 90° |
|-----|-----|-----|-----|
| 0°  | 941 | 941 | 941 |
| 5°  | 946 | 942 | 943 |
| 10° | 945 | 941 | 943 |
| 15° | 943 | 939 | 941 |
| 20° | 939 | 936 | 938 |
| 25° | 932 | 930 | 933 |
| 30° | 921 | 919 | 923 |
| 35° | 904 | 904 | 911 |
| 40° | 879 | 886 | 898 |
| 45° | 852 | 856 | 873 |
| 50° | 814 | 823 | 843 |
| 55° | 764 | 778 | 790 |
| 60° | 686 | 703 | 729 |
| 65° | 614 | 615 | 648 |
| 70° | 547 | 532 | 551 |
| 75° | 494 | 465 | 456 |
| 80° | 439 | 410 | 362 |
| 85° | 360 | 341 | 283 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.2   | 3.6       |
| 10°-20°   | 178.7  | 10.3      |
| 20°-30°   | 270.8  | 15.6      |
| 30°-40°   | 323.6  | 18.6      |
| 40°-50°   | 326.4  | 18.8      |
| 50°-60°   | 276.9  | 15.9      |
| 60°-70°   | 183.2  | 10.5      |
| 70°-80°   | 90.9   | 5.2       |
| 80°-90°   | 24.1   | 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°    | 511.8  | 29.5      |
| 0°-40°    | 835.4  | 48.1      |
| 0°-60°    | 1438.8 | 82.8      |
| 0°-90°    | 1737.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1737.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 656 | 656   | 656 | 656   | 656 |      |
| 5°  | 657 | 655   | 654 | 654   | 655 | 62   |
| 15° | 636 | 633   | 633 | 633   | 634 | 179  |
| 25° | 589 | 588   | 588 | 587   | 590 | 271  |
| 35° | 516 | 516   | 517 | 520   | 521 | 323  |
| 45° | 420 | 420   | 422 | 428   | 430 | 323  |
| 55° | 306 | 306   | 311 | 314   | 316 | 272  |
| 65° | 181 | 180   | 181 | 187   | 191 | 181  |
| 75° | 89  | 87    | 84  | 81    | 82  | 95   |
| 85° | 22  | 22    | 21  | 19    | 17  | 26   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 656.2 | 656.2 | 656.2 | 656.2 | 656.2 |
| 2.5°  | 658.5 | 656.4 | 655.9 | 655.5 | 657.0 |
| 5°    | 657.0 | 654.7 | 654.2 | 653.8 | 655.1 |
| 7.5°  | 654.0 | 651.5 | 651.1 | 650.8 | 652.5 |
| 10°   | 649.1 | 646.8 | 646.4 | 646.0 | 647.6 |
| 12.5° | 643.2 | 641.0 | 640.2 | 640.4 | 641.3 |
| 15°   | 635.5 | 633.4 | 632.8 | 632.8 | 634.2 |
| 17.5° | 625.9 | 624.0 | 623.6 | 623.4 | 625.1 |
| 20°   | 615.1 | 613.2 | 613.2 | 613.8 | 614.7 |
| 22.5° | 602.9 | 601.5 | 600.8 | 601.2 | 603.0 |
| 25°   | 588.9 | 587.6 | 587.6 | 587.4 | 589.5 |
| 27.5° | 573.4 | 571.7 | 571.7 | 573.2 | 574.0 |
| 30°   | 556.1 | 554.6 | 555.3 | 556.4 | 557.2 |
| 32.5° | 537.4 | 536.5 | 537.0 | 538.7 | 541.7 |
| 35°   | 516.5 | 515.7 | 516.6 | 519.5 | 520.6 |
| 37.5° | 494.6 | 494.0 | 495.3 | 499.1 | 502.3 |
| 40°   | 469.7 | 469.7 | 473.3 | 476.7 | 479.7 |
| 42.5° | 443.8 | 445.5 | 448.2 | 453.5 | 456.1 |
| 45°   | 420.1 | 419.5 | 422.0 | 427.6 | 430.3 |
| 47.5° | 393.7 | 393.1 | 396.7 | 400.6 | 405.0 |
| 50°   | 364.8 | 364.6 | 369.0 | 372.3 | 377.8 |
| 52.5° | 336.7 | 338.4 | 341.2 | 344.2 | 347.4 |
| 55°   | 305.6 | 306.3 | 311.2 | 314.1 | 315.9 |
| 57.5° | 272.0 | 274.5 | 280.5 | 284.6 | 286.3 |
| 60°   | 239.2 | 240.7 | 245.0 | 252.4 | 254.1 |
| 62.5° | 209.4 | 209.9 | 212.6 | 220.9 | 223.1 |
| 65°   | 180.9 | 180.5 | 181.3 | 186.9 | 191.1 |
| 67.5° | 155.1 | 153.5 | 153.5 | 156.6 | 161.7 |
| 70°   | 130.5 | 128.3 | 126.9 | 127.9 | 131.5 |
| 72.5° | 110.0 | 107.0 | 103.6 | 103.0 | 105.3 |
| 75°   | 89.2  | 86.8  | 83.9  | 81.3  | 82.4  |
| 77.5° | 71.1  | 69.0  | 66.4  | 63.4  | 61.9  |
| 80°   | 53.2  | 52.4  | 49.6  | 46.8  | 43.8  |
| 82.5° | 37.2  | 36.6  | 34.7  | 32.4  | 30.6  |
| 85°   | 21.9  | 21.9  | 20.7  | 19.1  | 17.2  |
| 87.5° | 9.8   | 9.4   | 9.8   | 8.3   | 7.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)