

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: P737936

Luminaire Tested: **14PT-70-PB1-L835**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P737936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-70-PB1-L835  
Description: 7000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND BEVEL LENS

Light Source: -  
Ballast/Driver: -

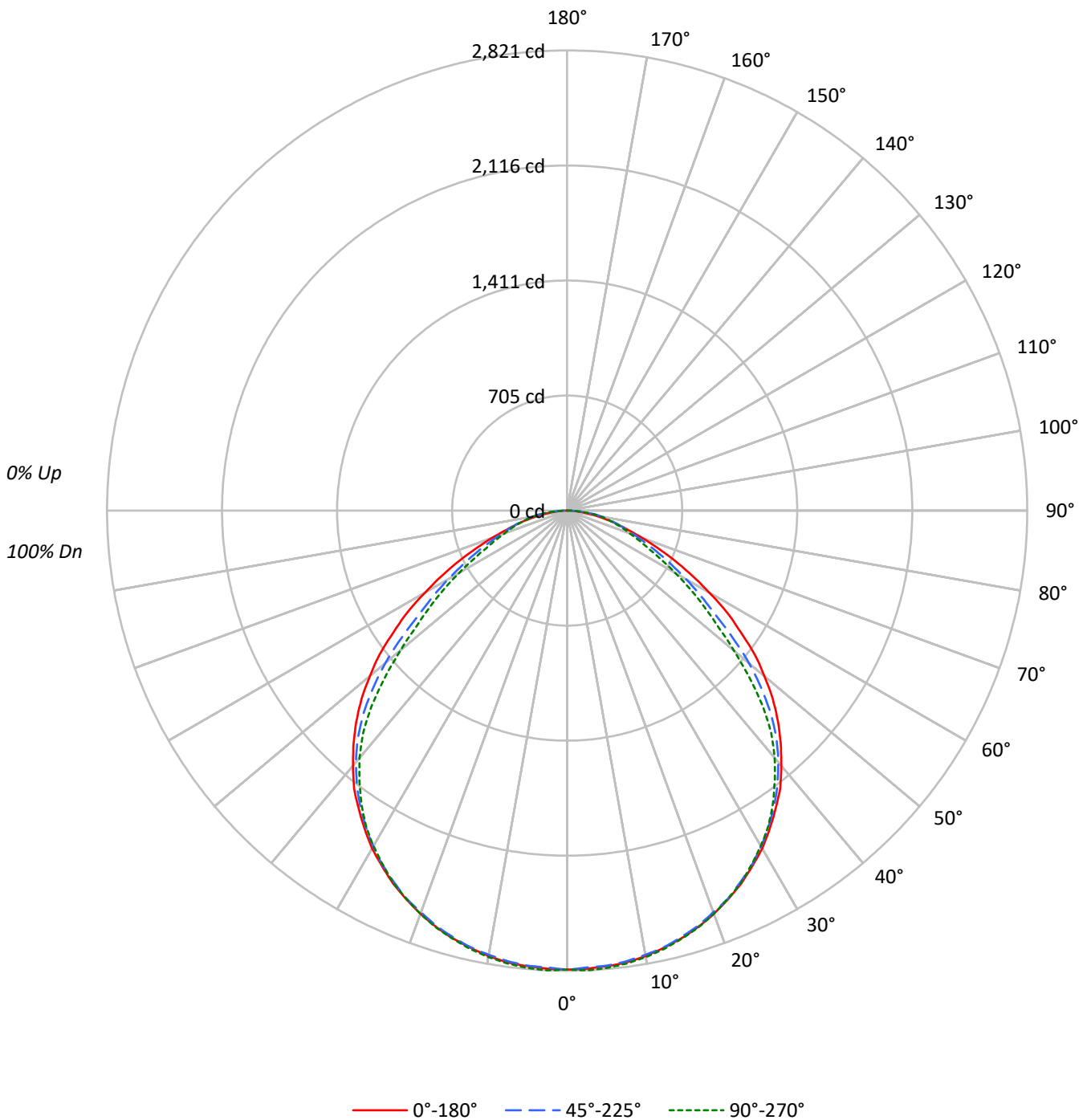
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7017.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 62.7  
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  | 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   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 89  | 88  | 86  |    |    |    | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |    | 73  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  | 62  |    |    |    | 62  |
| 4   | 85  | 73  | 65  | 59  | 83  | 72  | 64  | 58  | 70  | 63  | 58  | 67  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |    | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |    | 47  |
| 6   | 72  | 60  | 51  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    | 42  |
| 7   | 67  | 54  | 46  | 40  | 66  | 53  | 45  | 40  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    | 37  |
| 8   | 63  | 50  | 41  | 36  | 61  | 49  | 41  | 36  | 48  | 41  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    | 33  |
| 9   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 30  |    |    |    | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    | 27  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8437 | 8437 | 8437 |
| 5°  | 8438 | 8427 | 8469 |
| 10° | 8441 | 8419 | 8462 |
| 15° | 8423 | 8401 | 8434 |
| 20° | 8393 | 8360 | 8393 |
| 25° | 8347 | 8313 | 8336 |
| 30° | 8280 | 8232 | 8220 |
| 35° | 8158 | 8095 | 8045 |
| 40° | 7993 | 7884 | 7749 |
| 45° | 7749 | 7500 | 7191 |
| 50° | 7362 | 6797 | 6215 |
| 55° | 6785 | 5772 | 5356 |
| 60° | 6040 | 5043 | 4587 |
| 65° | 5181 | 4371 | 3905 |
| 70° | 4279 | 3853 | 3580 |
| 75° | 3608 | 3688 | 3488 |
| 80° | 3047 | 3766 | 3586 |
| 85° | 2380 | 3811 | 3333 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 266.8  | 3.8       |
| 10°-20°   | 765.6  | 10.9      |
| 20°-30°   | 1159.8 | 16.5      |
| 30°-40°   | 1381.9 | 19.7      |
| 40°-50°   | 1351.4 | 19.3      |
| 50°-60°   | 1022.1 | 14.6      |
| 60°-70°   | 628.0  | 8.9       |
| 70°-80°   | 334.6  | 4.8       |
| 80°-90°   | 106.7  | 1.5       |
| 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°    | 2192.2 | 31.2      |
| 0°-40°    | 3574.2 | 50.9      |
| 0°-60°    | 5947.7 | 84.8      |
| 0°-90°    | 7017.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7017.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2814 | 2814  | 2814 | 2814  | 2814 |      |
| 5°  | 2804 | 2807  | 2800 | 2811  | 2814 | 267  |
| 15° | 2714 | 2717  | 2707 | 2717  | 2717 | 766  |
| 25° | 2523 | 2520  | 2513 | 2516  | 2520 | 1162 |
| 35° | 2229 | 2226  | 2212 | 2201  | 2198 | 1394 |
| 45° | 1828 | 1817  | 1769 | 1710  | 1696 | 1406 |
| 55° | 1298 | 1232  | 1104 | 1042  | 1025 | 1162 |
| 65° | 730  | 672   | 616  | 568   | 550  | 727  |
| 75° | 312  | 315   | 318  | 308   | 301  | 334  |
| 85° | 69   | 90    | 111  | 104   | 97   | 83   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2814.1 | 2814.1 | 2814.1 | 2814.1 | 2814.1 |
| 2.5°  | 2810.6 | 2814.1 | 2803.7 | 2817.6 | 2821.0 |
| 5°    | 2803.7 | 2807.2 | 2800.2 | 2810.6 | 2814.1 |
| 7.5°  | 2793.3 | 2793.3 | 2786.4 | 2796.8 | 2800.2 |
| 10°   | 2772.6 | 2772.6 | 2765.6 | 2776.0 | 2779.5 |
| 12.5° | 2744.9 | 2744.9 | 2741.4 | 2748.3 | 2751.8 |
| 15°   | 2713.7 | 2717.2 | 2706.8 | 2717.2 | 2717.2 |
| 17.5° | 2675.6 | 2672.2 | 2668.7 | 2675.6 | 2679.1 |
| 20°   | 2630.6 | 2630.6 | 2620.3 | 2627.2 | 2630.6 |
| 22.5° | 2578.7 | 2578.7 | 2575.3 | 2578.7 | 2575.3 |
| 25°   | 2523.3 | 2519.9 | 2513.0 | 2516.4 | 2519.9 |
| 27.5° | 2457.6 | 2457.6 | 2450.6 | 2450.6 | 2447.2 |
| 30°   | 2391.8 | 2388.3 | 2378.0 | 2371.0 | 2374.5 |
| 32.5° | 2312.2 | 2308.7 | 2298.3 | 2291.4 | 2294.9 |
| 35°   | 2229.1 | 2225.7 | 2211.8 | 2201.4 | 2198.0 |
| 37.5° | 2146.0 | 2135.7 | 2118.4 | 2104.5 | 2090.7 |
| 40°   | 2042.2 | 2031.8 | 2014.5 | 1983.4 | 1979.9 |
| 42.5° | 1938.4 | 1928.0 | 1900.3 | 1862.2 | 1851.8 |
| 45°   | 1827.6 | 1817.2 | 1768.8 | 1709.9 | 1696.1 |
| 47.5° | 1709.9 | 1692.6 | 1616.5 | 1543.8 | 1516.1 |
| 50°   | 1578.4 | 1547.2 | 1457.2 | 1363.8 | 1332.6 |
| 52.5° | 1450.3 | 1394.9 | 1277.2 | 1194.2 | 1163.0 |
| 55°   | 1298.0 | 1232.2 | 1104.2 | 1041.9 | 1024.6 |
| 57.5° | 1163.0 | 1073.0 | 969.2  | 906.9  | 893.0  |
| 60°   | 1007.3 | 924.2  | 841.1  | 785.7  | 765.0  |
| 62.5° | 865.3  | 792.7  | 723.4  | 675.0  | 650.7  |
| 65°   | 730.3  | 671.5  | 616.1  | 567.7  | 550.4  |
| 67.5° | 598.8  | 567.7  | 522.7  | 484.6  | 474.2  |
| 70°   | 488.1  | 470.7  | 439.6  | 422.3  | 408.4  |
| 72.5° | 387.7  | 394.6  | 373.8  | 366.9  | 356.5  |
| 75°   | 311.5  | 315.0  | 318.4  | 308.1  | 301.1  |
| 77.5° | 235.4  | 252.7  | 266.5  | 259.6  | 252.7  |
| 80°   | 176.5  | 193.8  | 218.1  | 207.7  | 207.7  |
| 82.5° | 121.1  | 141.9  | 162.7  | 155.8  | 152.3  |
| 85°   | 69.2   | 90.0   | 110.8  | 103.8  | 96.9   |
| 87.5° | 27.7   | 45.0   | 48.5   | 48.5   | 45.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)