

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: FAIL-SAFE

Report Number: P735682

Luminaire Tested: **22APR-34-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-34-B2750-W2D-CP125-5000K  
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

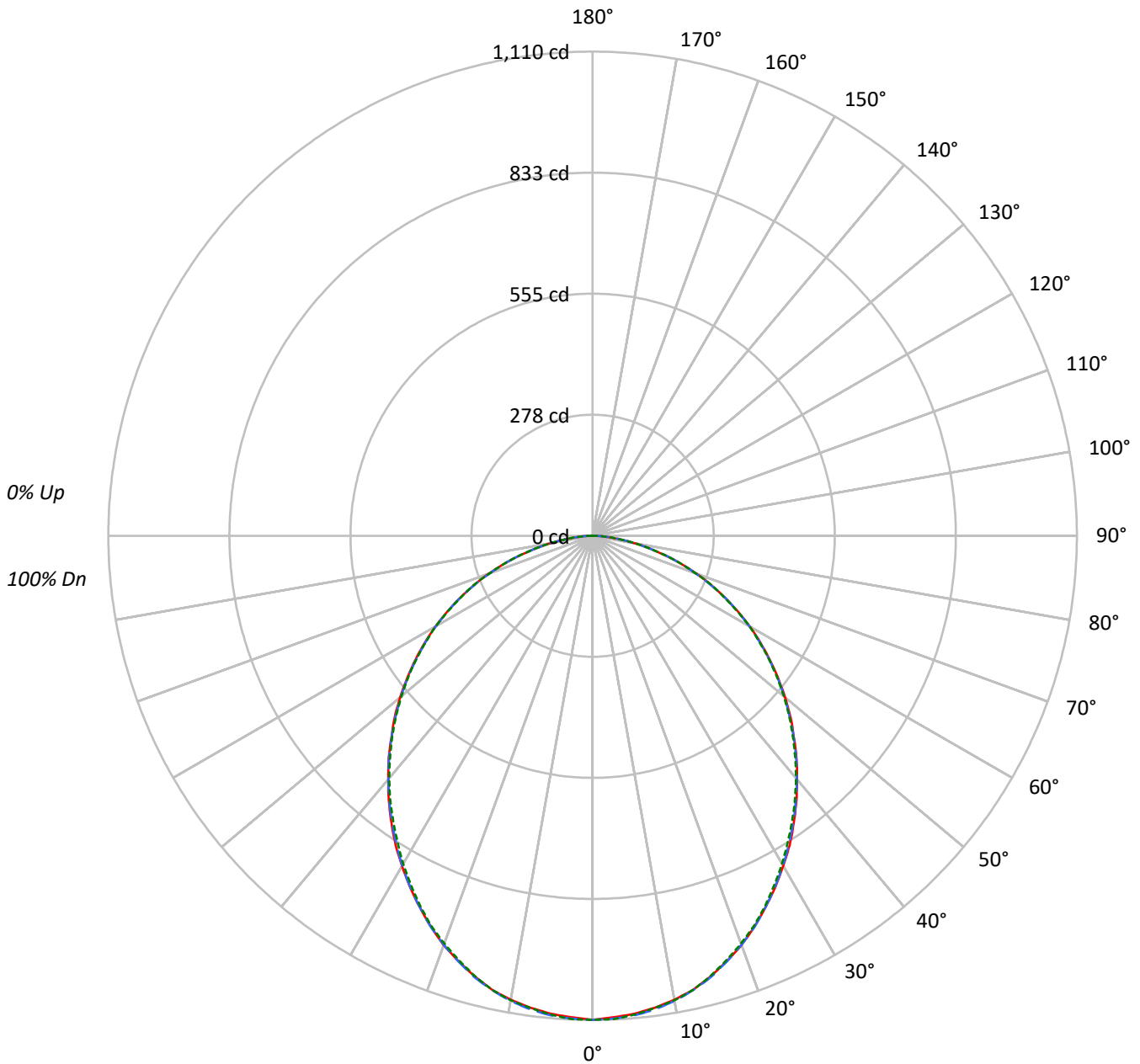
Lumens per Lamp: N/A  
Luminaire Lumens: 2835.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 74  | 80  | 76  | 73  | 71  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2986 | 2986 | 2986 |
| 5°  | 2971 | 2981 | 2977 |
| 10° | 2951 | 2959 | 2955 |
| 15° | 2912 | 2919 | 2910 |
| 20° | 2860 | 2857 | 2849 |
| 25° | 2787 | 2787 | 2778 |
| 30° | 2715 | 2712 | 2698 |
| 35° | 2641 | 2634 | 2618 |
| 40° | 2560 | 2558 | 2547 |
| 45° | 2482 | 2479 | 2470 |
| 50° | 2410 | 2400 | 2393 |
| 55° | 2326 | 2315 | 2315 |
| 60° | 2239 | 2231 | 2236 |
| 65° | 2122 | 2127 | 2113 |
| 70° | 1984 | 1972 | 1972 |
| 75° | 1769 | 1777 | 1777 |
| 80° | 1495 | 1495 | 1508 |
| 85° | 1133 | 1133 | 1158 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.6  | 3.7       |
| 10°-20°   | 294.8  | 10.4      |
| 20°-30°   | 432.3  | 15.2      |
| 30°-40°   | 501.5  | 17.7      |
| 40°-50°   | 502.8  | 17.7      |
| 50°-60°   | 442.2  | 15.6      |
| 60°-70°   | 330.0  | 11.6      |
| 70°-80°   | 181.6  | 6.4       |
| 80°-90°   | 44.9   | 1.6       |
| 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°    | 831.8  | 29.3      |
| 0°-40°    | 1333.3 | 47.0      |
| 0°-60°    | 2278.4 | 80.4      |
| 0°-90°    | 2835.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2835.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1110 | 1110  | 1110 | 1110  | 1110 |      |
| 5°  | 1100 | 1104  | 1104 | 1104  | 1102 | 104  |
| 15° | 1045 | 1050  | 1048 | 1046  | 1045 | 295  |
| 25° | 939  | 943   | 939  | 938   | 936  | 432  |
| 35° | 804  | 805   | 802  | 799   | 797  | 503  |
| 45° | 652  | 654   | 651  | 651   | 649  | 504  |
| 55° | 496  | 497   | 494  | 494   | 494  | 443  |
| 65° | 333  | 333   | 334  | 332   | 332  | 330  |
| 75° | 170  | 171   | 171  | 169   | 171  | 181  |
| 85° | 37   | 38    | 37   | 37    | 38   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1109.7 | 1109.7 | 1109.7 | 1109.7 | 1109.7 |
| 2.5°  | 1105.0 | 1108.9 | 1108.1 | 1110.5 | 1108.9 |
| 5°    | 1099.7 | 1103.6 | 1103.6 | 1103.6 | 1102.0 |
| 7.5°  | 1091.2 | 1095.1 | 1095.1 | 1095.1 | 1092.0 |
| 10°   | 1079.8 | 1083.7 | 1082.9 | 1082.9 | 1081.3 |
| 12.5° | 1066.1 | 1068.3 | 1066.7 | 1066.7 | 1066.1 |
| 15°   | 1045.4 | 1049.9 | 1047.6 | 1046.0 | 1044.6 |
| 17.5° | 1022.3 | 1026.9 | 1023.1 | 1022.3 | 1020.0 |
| 20°   | 998.6  | 1001.6 | 997.8  | 997.8  | 994.7  |
| 22.5° | 969.4  | 972.4  | 970.2  | 968.7  | 967.1  |
| 25°   | 938.8  | 942.6  | 938.8  | 938.0  | 935.7  |
| 27.5° | 907.3  | 910.4  | 906.5  | 903.5  | 902.0  |
| 30°   | 873.7  | 875.9  | 872.9  | 870.6  | 868.2  |
| 32.5° | 840.6  | 840.6  | 837.6  | 835.3  | 832.3  |
| 35°   | 803.9  | 804.7  | 801.7  | 799.3  | 797.0  |
| 37.5° | 767.2  | 768.6  | 765.6  | 763.3  | 761.8  |
| 40°   | 728.9  | 730.3  | 728.1  | 725.7  | 725.0  |
| 42.5° | 692.0  | 692.0  | 690.5  | 688.2  | 686.7  |
| 45°   | 652.2  | 654.5  | 651.4  | 650.6  | 649.0  |
| 47.5° | 615.4  | 615.4  | 612.3  | 610.7  | 610.7  |
| 50°   | 575.6  | 577.0  | 573.2  | 572.4  | 571.7  |
| 52.5° | 535.7  | 534.9  | 534.1  | 533.4  | 532.6  |
| 55°   | 495.8  | 496.6  | 493.5  | 494.3  | 493.5  |
| 57.5° | 456.0  | 455.2  | 454.4  | 453.7  | 452.9  |
| 60°   | 416.1  | 415.4  | 414.6  | 413.8  | 415.4  |
| 62.5° | 374.7  | 375.5  | 373.3  | 375.5  | 372.5  |
| 65°   | 333.3  | 333.3  | 334.1  | 332.5  | 331.9  |
| 67.5° | 293.6  | 293.6  | 292.0  | 292.0  | 295.0  |
| 70°   | 252.2  | 252.9  | 250.6  | 253.7  | 250.6  |
| 72.5° | 211.5  | 212.3  | 211.5  | 210.7  | 212.3  |
| 75°   | 170.1  | 170.9  | 170.9  | 169.3  | 170.9  |
| 77.5° | 132.6  | 133.4  | 132.6  | 131.8  | 132.6  |
| 80°   | 96.5   | 97.3   | 96.5   | 95.7   | 97.3   |
| 82.5° | 64.3   | 65.1   | 64.3   | 64.3   | 65.1   |
| 85°   | 36.7   | 37.5   | 36.7   | 36.7   | 37.5   |
| 87.5° | 14.6   | 15.4   | 15.4   | 15.4   | 15.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)