

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: P735759

Luminaire Tested: **24APR-85-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-85-B2750-W2D-CP250-3000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

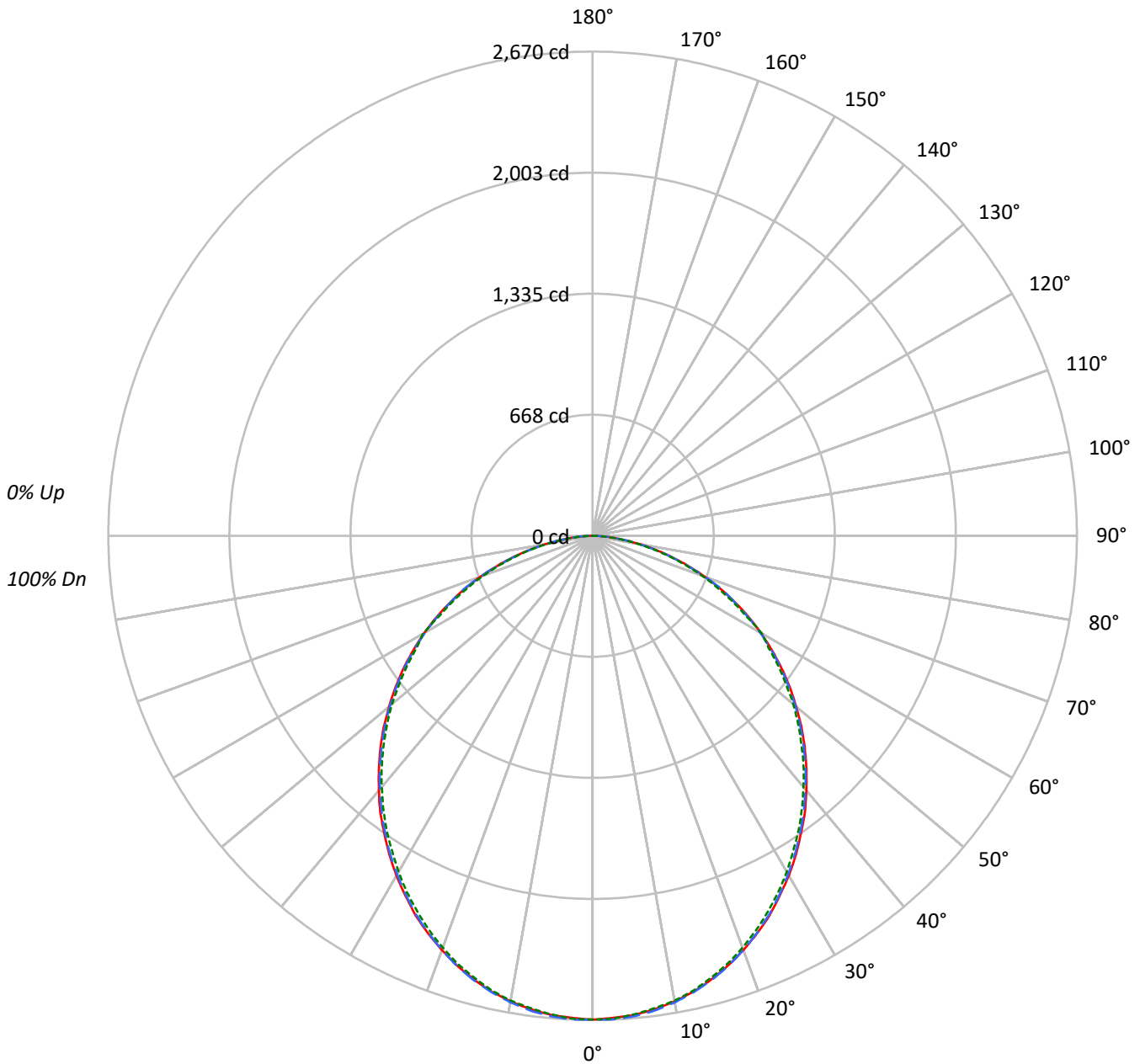
Lumens per Lamp: N/A
Luminaire Lumens: 7106.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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





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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 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 61 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3590 | 3590 | 3590 |
| 5° | 3582 | 3592 | 3577 |
| 10° | 3561 | 3569 | 3556 |
| 15° | 3528 | 3534 | 3514 |
| 20° | 3481 | 3480 | 3460 |
| 25° | 3428 | 3421 | 3394 |
| 30° | 3361 | 3349 | 3324 |
| 35° | 3290 | 3279 | 3253 |
| 40° | 3221 | 3204 | 3176 |
| 45° | 3147 | 3131 | 3098 |
| 50° | 3066 | 3054 | 3023 |
| 55° | 2982 | 2966 | 2928 |
| 60° | 2882 | 2864 | 2903 |
| 65° | 2751 | 2743 | 2691 |
| 70° | 2581 | 2585 | 2514 |
| 75° | 2343 | 2325 | 2272 |
| 80° | 2013 | 1987 | 1934 |
| 85° | 1539 | 1525 | 1408 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.0 | 3.5 |
| 10°-20° | 713.8 | 10.0 |
| 20°-30° | 1059.5 | 14.9 |
| 30°-40° | 1247.2 | 17.6 |
| 40°-50° | 1267.4 | 17.8 |
| 50°-60° | 1126.7 | 15.9 |
| 60°-70° | 849.9 | 12.0 |
| 70°-80° | 472.0 | 6.6 |
| 80°-90° | 117.4 | 1.7 |
| 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° | 2025.4 | 28.5 |
| 0°-40° | 3272.5 | 46.1 |
| 0°-60° | 5666.7 | 79.7 |
| 0°-90° | 7106.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7106.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2668 | 2668 | 2668 | 2668 | 2668 | |
| 5° | 2652 | 2656 | 2659 | 2655 | 2648 | 252 |
| 15° | 2532 | 2535 | 2537 | 2531 | 2523 | 714 |
| 25° | 2309 | 2308 | 2304 | 2294 | 2286 | 1063 |
| 35° | 2003 | 2004 | 1996 | 1984 | 1980 | 1254 |
| 45° | 1654 | 1654 | 1645 | 1632 | 1628 | 1276 |
| 55° | 1271 | 1262 | 1264 | 1251 | 1248 | 1136 |
| 65° | 864 | 859 | 862 | 850 | 845 | 855 |
| 75° | 451 | 445 | 447 | 444 | 437 | 478 |
| 85° | 100 | 97 | 99 | 95 | 91 | 120 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735759

CATALOG NUMBER: 24APR-85-B2750-W2D-CP250-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2667.9 | 2667.9 | 2667.9 | 2667.9 | 2667.9 |
| 2.5° | 2661.1 | 2666.2 | 2669.6 | 2665.4 | 2664.5 |
| 5° | 2651.8 | 2655.9 | 2659.3 | 2655.2 | 2648.4 |
| 7.5° | 2632.9 | 2638.1 | 2640.6 | 2636.3 | 2627.0 |
| 10° | 2606.5 | 2611.7 | 2612.5 | 2608.3 | 2603.1 |
| 12.5° | 2574.2 | 2577.6 | 2577.6 | 2574.2 | 2568.3 |
| 15° | 2532.4 | 2535.0 | 2536.7 | 2530.7 | 2523.0 |
| 17.5° | 2484.8 | 2488.9 | 2487.3 | 2477.9 | 2474.5 |
| 20° | 2431.1 | 2434.5 | 2430.2 | 2424.3 | 2416.5 |
| 22.5° | 2372.2 | 2373.1 | 2369.7 | 2362.9 | 2355.1 |
| 25° | 2309.2 | 2307.5 | 2304.1 | 2293.9 | 2286.2 |
| 27.5° | 2235.9 | 2239.3 | 2230.7 | 2221.4 | 2216.3 |
| 30° | 2163.5 | 2164.3 | 2155.8 | 2143.8 | 2139.7 |
| 32.5° | 2086.0 | 2084.2 | 2078.3 | 2065.5 | 2058.7 |
| 35° | 2003.2 | 2004.1 | 1996.4 | 1984.5 | 1980.2 |
| 37.5° | 1923.1 | 1918.1 | 1912.1 | 1898.5 | 1895.8 |
| 40° | 1833.7 | 1832.8 | 1824.3 | 1812.3 | 1808.2 |
| 42.5° | 1744.3 | 1743.4 | 1736.6 | 1724.7 | 1721.3 |
| 45° | 1653.9 | 1653.9 | 1645.3 | 1631.7 | 1628.3 |
| 47.5° | 1561.8 | 1558.4 | 1552.5 | 1540.6 | 1536.3 |
| 50° | 1464.7 | 1462.2 | 1458.8 | 1445.1 | 1444.2 |
| 52.5° | 1369.3 | 1367.6 | 1361.6 | 1349.8 | 1342.9 |
| 55° | 1271.3 | 1262.0 | 1264.5 | 1250.8 | 1248.3 |
| 57.5° | 1170.8 | 1161.4 | 1166.5 | 1154.6 | 1149.5 |
| 60° | 1071.1 | 1061.7 | 1064.3 | 1056.6 | 1078.8 |
| 62.5° | 968.9 | 962.8 | 962.8 | 980.8 | 948.4 |
| 65° | 864.0 | 858.9 | 861.5 | 850.4 | 845.2 |
| 67.5° | 761.0 | 753.3 | 769.4 | 749.0 | 740.5 |
| 70° | 656.1 | 650.9 | 657.0 | 645.0 | 639.1 |
| 72.5° | 552.2 | 547.9 | 546.2 | 541.9 | 536.9 |
| 75° | 450.7 | 444.8 | 447.3 | 443.9 | 437.1 |
| 77.5° | 351.9 | 350.2 | 349.4 | 345.1 | 339.9 |
| 80° | 259.8 | 258.2 | 256.4 | 253.0 | 249.6 |
| 82.5° | 173.8 | 172.2 | 171.3 | 169.5 | 168.8 |
| 85° | 99.7 | 97.1 | 98.8 | 94.6 | 91.2 |
| 87.5° | 37.5 | 36.6 | 38.4 | 35.0 | 32.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)