

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: P735754

Luminaire Tested: **24APR-85-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735754
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-CP125-3000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

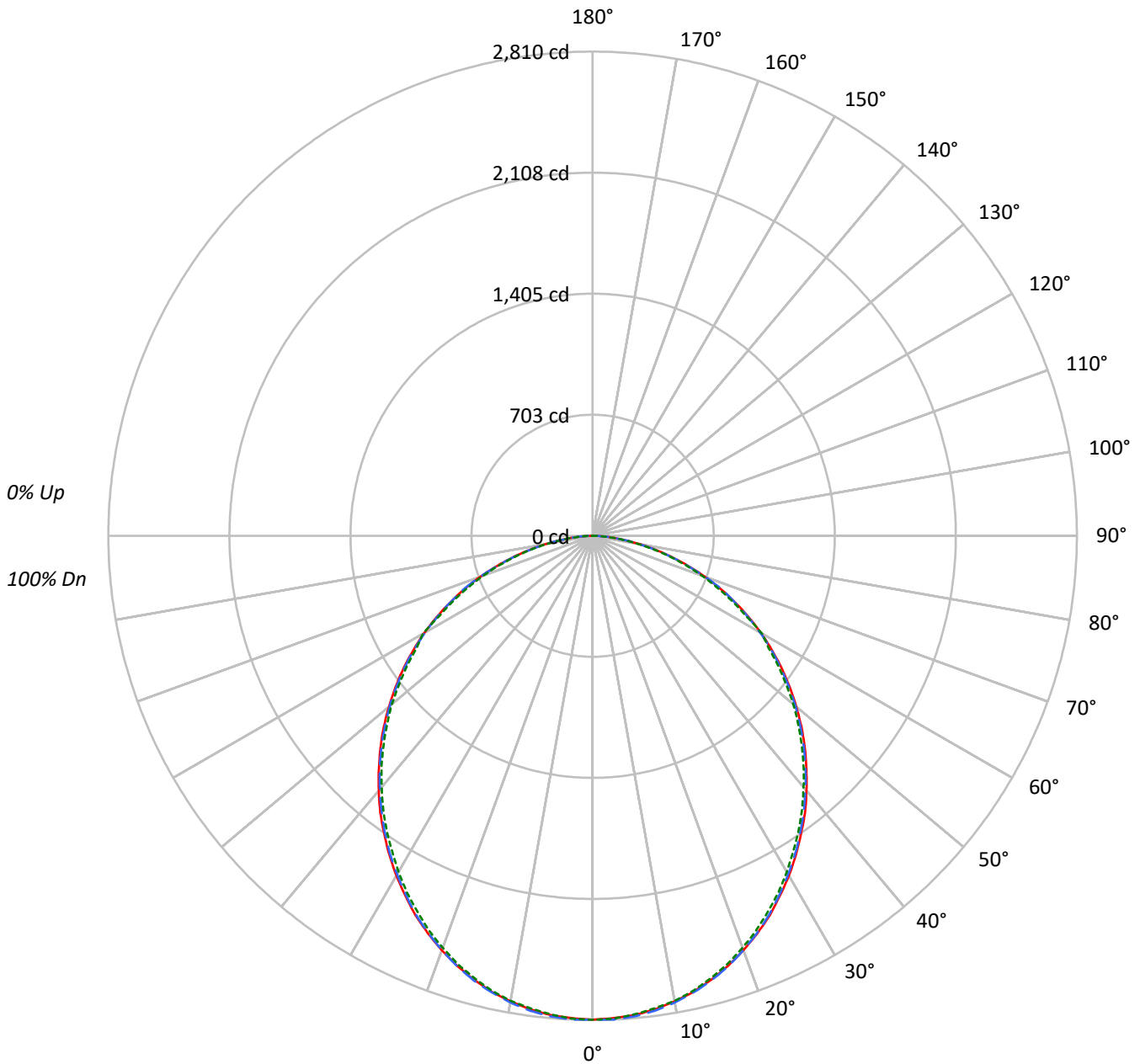
Lumens per Lamp: N/A
Luminaire Lumens: 7481.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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° | 3779 | 3779 | 3779 |
| 5° | 3771 | 3781 | 3766 |
| 10° | 3749 | 3758 | 3744 |
| 15° | 3714 | 3720 | 3700 |
| 20° | 3665 | 3663 | 3643 |
| 25° | 3609 | 3601 | 3573 |
| 30° | 3539 | 3526 | 3500 |
| 35° | 3464 | 3452 | 3424 |
| 40° | 3391 | 3373 | 3344 |
| 45° | 3313 | 3296 | 3262 |
| 50° | 3228 | 3215 | 3183 |
| 55° | 3140 | 3123 | 3083 |
| 60° | 3034 | 3015 | 3056 |
| 65° | 2896 | 2888 | 2833 |
| 70° | 2717 | 2721 | 2647 |
| 75° | 2467 | 2448 | 2392 |
| 80° | 2119 | 2092 | 2036 |
| 85° | 1619 | 1606 | 1482 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 265.3 | 3.5 |
| 10°-20° | 751.5 | 10.0 |
| 20°-30° | 1115.5 | 14.9 |
| 30°-40° | 1313.0 | 17.6 |
| 40°-50° | 1334.3 | 17.8 |
| 50°-60° | 1186.2 | 15.9 |
| 60°-70° | 894.7 | 12.0 |
| 70°-80° | 497.0 | 6.6 |
| 80°-90° | 123.6 | 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° | 2132.2 | 28.5 |
| 0°-40° | 3445.2 | 46.1 |
| 0°-60° | 5965.7 | 79.7 |
| 0°-90° | 7481.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7481.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2809 | 2809 | 2809 | 2809 | 2809 | |
| 5° | 2792 | 2796 | 2800 | 2795 | 2788 | 265 |
| 15° | 2666 | 2669 | 2670 | 2664 | 2656 | 752 |
| 25° | 2431 | 2429 | 2426 | 2415 | 2407 | 1119 |
| 35° | 2109 | 2110 | 2102 | 2089 | 2085 | 1320 |
| 45° | 1741 | 1741 | 1732 | 1718 | 1714 | 1343 |
| 55° | 1338 | 1329 | 1331 | 1317 | 1314 | 1196 |
| 65° | 910 | 904 | 907 | 895 | 890 | 900 |
| 75° | 474 | 468 | 471 | 467 | 460 | 503 |
| 85° | 105 | 102 | 104 | 100 | 96 | 126 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735754

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 |
| 2.5° | 2801.5 | 2806.9 | 2810.4 | 2806.1 | 2805.1 |
| 5° | 2791.7 | 2796.1 | 2799.7 | 2795.3 | 2788.1 |
| 7.5° | 2771.9 | 2777.3 | 2780.0 | 2775.5 | 2765.6 |
| 10° | 2744.1 | 2749.5 | 2750.3 | 2746.0 | 2740.5 |
| 12.5° | 2710.0 | 2713.6 | 2713.6 | 2710.0 | 2703.8 |
| 15° | 2666.0 | 2668.8 | 2670.5 | 2664.3 | 2656.2 |
| 17.5° | 2615.9 | 2620.3 | 2618.6 | 2608.7 | 2605.1 |
| 20° | 2559.4 | 2563.0 | 2558.4 | 2552.2 | 2544.1 |
| 22.5° | 2497.4 | 2498.3 | 2494.7 | 2487.6 | 2479.4 |
| 25° | 2431.0 | 2429.3 | 2425.7 | 2415.0 | 2406.8 |
| 27.5° | 2353.9 | 2357.5 | 2348.4 | 2338.6 | 2333.3 |
| 30° | 2277.7 | 2278.5 | 2269.6 | 2256.9 | 2252.6 |
| 32.5° | 2196.0 | 2194.2 | 2187.9 | 2174.5 | 2167.3 |
| 35° | 2108.9 | 2109.9 | 2101.7 | 2089.3 | 2084.7 |
| 37.5° | 2024.6 | 2019.3 | 2013.1 | 1998.7 | 1995.9 |
| 40° | 1930.5 | 1929.5 | 1920.6 | 1908.0 | 1903.6 |
| 42.5° | 1836.3 | 1835.4 | 1828.2 | 1815.7 | 1812.1 |
| 45° | 1741.2 | 1741.2 | 1732.2 | 1717.8 | 1714.2 |
| 47.5° | 1644.3 | 1640.7 | 1634.4 | 1621.9 | 1617.4 |
| 50° | 1542.0 | 1539.3 | 1535.8 | 1521.4 | 1520.4 |
| 52.5° | 1441.6 | 1439.7 | 1433.5 | 1421.0 | 1413.8 |
| 55° | 1338.4 | 1328.6 | 1331.2 | 1316.8 | 1314.2 |
| 57.5° | 1232.5 | 1222.7 | 1228.0 | 1215.5 | 1210.2 |
| 60° | 1127.6 | 1117.8 | 1120.4 | 1112.3 | 1135.7 |
| 62.5° | 1020.0 | 1013.6 | 1013.6 | 1032.5 | 998.5 |
| 65° | 909.6 | 904.2 | 907.0 | 895.3 | 889.8 |
| 67.5° | 801.1 | 793.0 | 810.0 | 788.5 | 779.6 |
| 70° | 690.7 | 685.3 | 691.7 | 679.0 | 672.8 |
| 72.5° | 581.3 | 576.8 | 575.0 | 570.5 | 565.2 |
| 75° | 474.5 | 468.3 | 470.9 | 467.3 | 460.1 |
| 77.5° | 370.5 | 368.6 | 367.9 | 363.3 | 357.9 |
| 80° | 273.5 | 271.8 | 270.0 | 266.4 | 262.8 |
| 82.5° | 183.0 | 181.3 | 180.3 | 178.5 | 177.7 |
| 85° | 104.9 | 102.3 | 104.0 | 99.6 | 96.0 |
| 87.5° | 39.5 | 38.6 | 40.4 | 36.8 | 34.0 |
| 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)