

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: P735681

Luminaire Tested: **22APR-34-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735681
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-CP125-4000K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

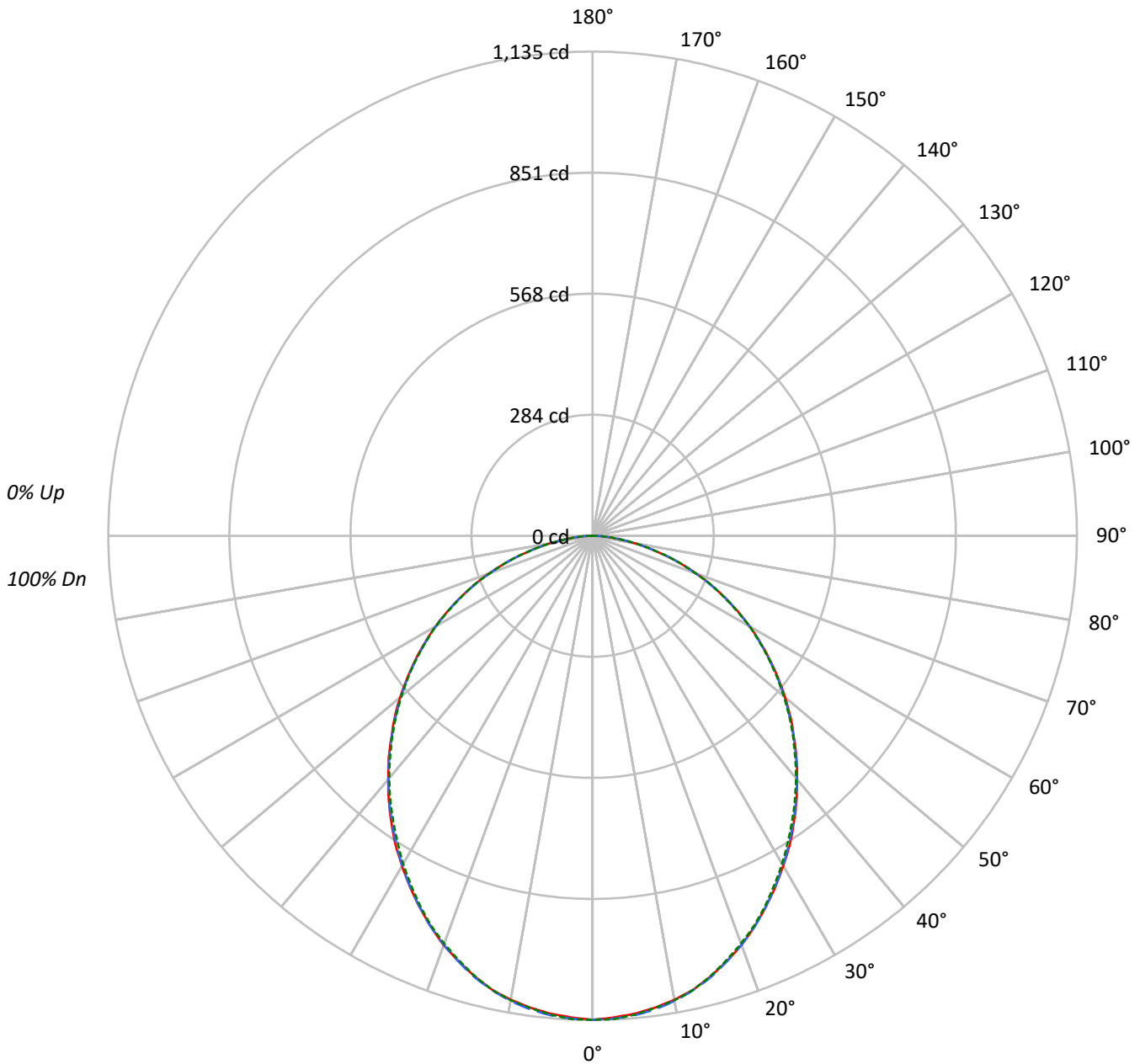
Lumens per Lamp: N/A
Luminaire Lumens: 2899.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
Input Voltage (V): NR
Input Current (A_{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 | 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° | 3053 | 3053 | 3053 |
| 5° | 3038 | 3048 | 3044 |
| 10° | 3017 | 3026 | 3021 |
| 15° | 2978 | 2985 | 2976 |
| 20° | 2924 | 2922 | 2913 |
| 25° | 2850 | 2850 | 2841 |
| 30° | 2776 | 2774 | 2759 |
| 35° | 2701 | 2693 | 2677 |
| 40° | 2618 | 2615 | 2604 |
| 45° | 2538 | 2535 | 2526 |
| 50° | 2464 | 2454 | 2448 |
| 55° | 2379 | 2368 | 2368 |
| 60° | 2290 | 2282 | 2286 |
| 65° | 2171 | 2176 | 2161 |
| 70° | 2029 | 2017 | 2017 |
| 75° | 1809 | 1817 | 1817 |
| 80° | 1530 | 1530 | 1542 |
| 85° | 1161 | 1161 | 1186 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.0 | 3.7 |
| 10°-20° | 301.5 | 10.4 |
| 20°-30° | 442.1 | 15.2 |
| 30°-40° | 512.9 | 17.7 |
| 40°-50° | 514.2 | 17.7 |
| 50°-60° | 452.2 | 15.6 |
| 60°-70° | 337.5 | 11.6 |
| 70°-80° | 185.7 | 6.4 |
| 80°-90° | 46.0 | 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° | 850.6 | 29.3 |
| 0°-40° | 1363.4 | 47.0 |
| 0°-60° | 2329.9 | 80.4 |
| 0°-90° | 2899.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2899.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1135 | 1135 | 1135 | 1135 | 1135 | |
| 5° | 1125 | 1128 | 1128 | 1128 | 1127 | 107 |
| 15° | 1069 | 1074 | 1071 | 1070 | 1068 | 301 |
| 25° | 960 | 964 | 960 | 959 | 957 | 442 |
| 35° | 822 | 823 | 820 | 817 | 815 | 514 |
| 45° | 667 | 669 | 666 | 665 | 664 | 515 |
| 55° | 507 | 508 | 505 | 506 | 505 | 453 |
| 65° | 341 | 341 | 342 | 340 | 339 | 338 |
| 75° | 174 | 175 | 175 | 173 | 175 | 186 |
| 85° | 38 | 38 | 38 | 38 | 38 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735681

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1134.7 | 1134.7 | 1134.7 | <i>1134.7</i> | 1134.7 |
| 2.5° | <i>1130.0</i> | <i>1133.9</i> | <i>1133.1</i> | <i>1135.5</i> | <i>1133.9</i> |
| 5° | 1124.6 | 1128.5 | 1128.5 | <i>1128.5</i> | 1126.9 |
| 7.5° | 1115.9 | 1119.8 | 1119.8 | <i>1119.8</i> | 1116.7 |
| 10° | 1104.2 | 1108.2 | 1107.3 | <i>1107.3</i> | 1105.7 |
| 12.5° | 1090.1 | 1092.4 | 1090.8 | <i>1090.8</i> | 1090.1 |
| 15° | 1069.0 | 1073.6 | 1071.3 | <i>1069.6</i> | 1068.2 |
| 17.5° | 1045.4 | 1050.1 | 1046.2 | <i>1045.4</i> | 1043.1 |
| 20° | 1021.1 | 1024.2 | 1020.3 | <i>1020.3</i> | 1017.2 |
| 22.5° | 991.3 | 994.4 | 992.1 | <i>990.6</i> | 989.0 |
| 25° | 960.0 | 963.9 | 960.0 | <i>959.1</i> | 956.8 |
| 27.5° | 927.8 | 930.9 | 927.0 | <i>923.9</i> | 922.4 |
| 30° | 893.4 | 895.7 | 892.6 | <i>890.3</i> | 887.8 |
| 32.5° | 859.6 | 859.6 | 856.5 | <i>854.2</i> | 851.1 |
| 35° | 822.1 | 822.9 | 819.8 | <i>817.3</i> | 815.0 |
| 37.5° | 784.5 | 786.0 | 782.9 | <i>780.6</i> | 778.9 |
| 40° | 745.3 | 746.8 | 744.5 | <i>742.1</i> | 741.4 |
| 42.5° | 707.6 | 707.6 | 706.1 | <i>703.7</i> | 702.2 |
| 45° | 667.0 | 669.3 | 666.1 | <i>665.3</i> | 663.7 |
| 47.5° | 629.3 | 629.3 | 626.1 | <i>624.5</i> | 624.5 |
| 50° | 588.6 | 590.1 | 586.1 | <i>585.3</i> | 584.7 |
| 52.5° | 547.8 | 547.0 | 546.1 | <i>545.5</i> | 544.7 |
| 55° | 507.0 | 507.8 | 504.7 | <i>505.5</i> | 504.7 |
| 57.5° | 466.3 | 465.5 | 464.7 | <i>464.0</i> | 463.2 |
| 60° | 425.5 | 424.8 | 424.0 | <i>423.2</i> | 424.8 |
| 62.5° | 383.2 | 384.0 | 381.7 | <i>384.0</i> | 380.9 |
| 65° | 340.9 | 340.9 | 341.7 | <i>340.1</i> | 339.4 |
| 67.5° | 300.2 | 300.2 | 298.6 | <i>298.6</i> | 301.7 |
| 70° | 257.9 | 258.6 | 256.3 | <i>259.4</i> | 256.3 |
| 72.5° | 216.3 | 217.1 | 216.3 | <i>215.4</i> | 217.1 |
| 75° | 174.0 | 174.8 | 174.8 | <i>173.1</i> | 174.8 |
| 77.5° | 135.6 | 136.4 | 135.6 | <i>134.8</i> | 135.6 |
| 80° | 98.7 | 99.5 | 98.7 | <i>97.9</i> | 99.5 |
| 82.5° | 65.8 | 66.6 | 65.8 | <i>65.8</i> | 66.6 |
| 85° | 37.6 | 38.4 | 37.6 | <i>37.6</i> | 38.4 |
| 87.5° | 14.9 | 15.7 | 15.7 | <i>15.7</i> | 15.7 |
| 90° | 0.0 | 0.0 | 0.0 | <i>0.0</i> | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)