

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: P735650

Luminaire Tested: **22APR-22-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735650
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-22-B2750-W2D-CP125-3500K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

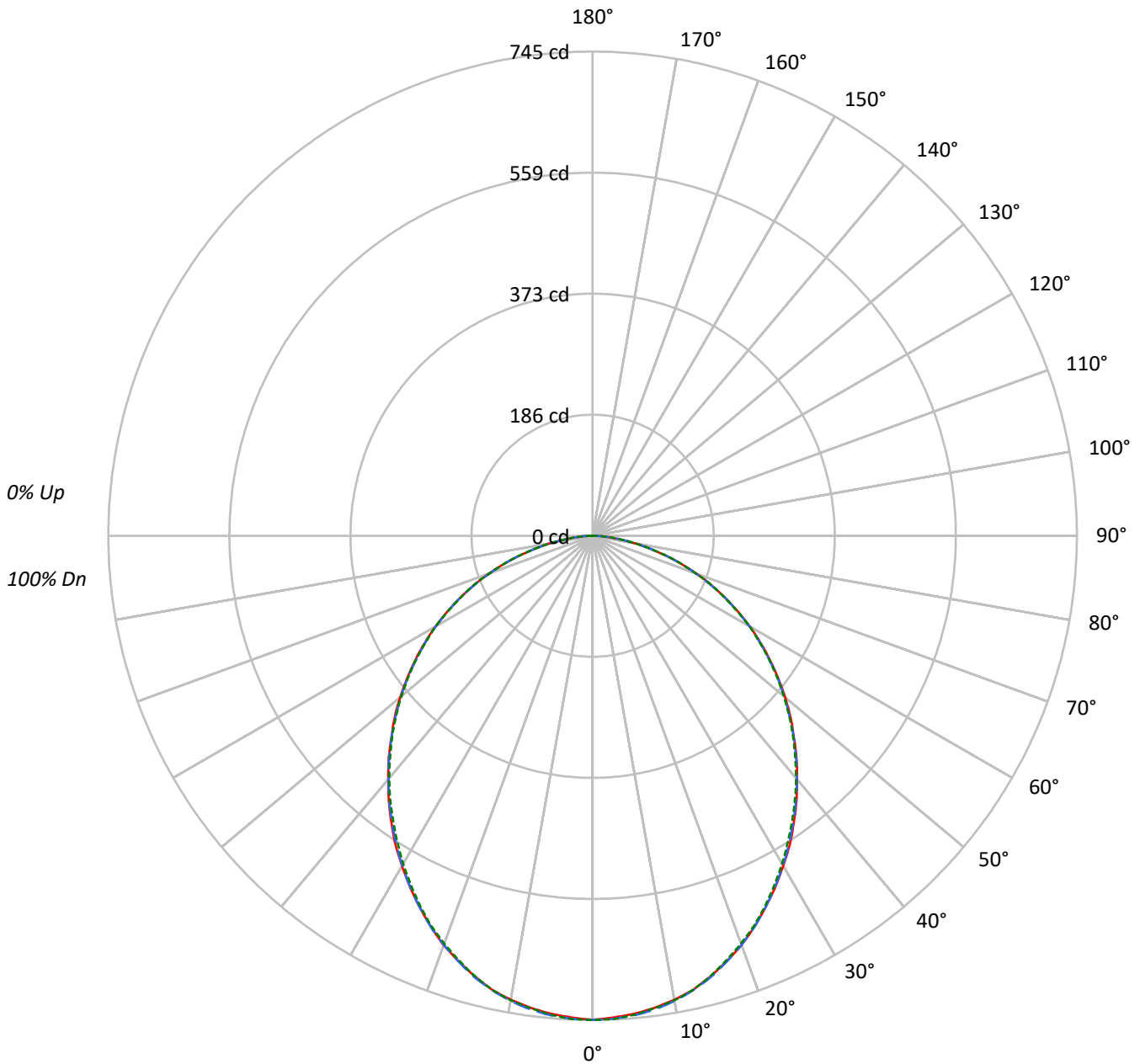
Lumens per Lamp: N/A
Luminaire Lumens: 1903.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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° | 2005 | 2005 | 2005 |
| 5° | 1994 | 2001 | 1998 |
| 10° | 1981 | 1986 | 1983 |
| 15° | 1955 | 1959 | 1953 |
| 20° | 1920 | 1918 | 1912 |
| 25° | 1871 | 1871 | 1865 |
| 30° | 1822 | 1821 | 1811 |
| 35° | 1773 | 1768 | 1758 |
| 40° | 1719 | 1717 | 1710 |
| 45° | 1666 | 1664 | 1658 |
| 50° | 1618 | 1611 | 1607 |
| 55° | 1561 | 1554 | 1554 |
| 60° | 1503 | 1498 | 1500 |
| 65° | 1425 | 1428 | 1419 |
| 70° | 1332 | 1323 | 1323 |
| 75° | 1187 | 1193 | 1193 |
| 80° | 1004 | 1004 | 1012 |
| 85° | 763 | 763 | 778 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.2 | 3.7 |
| 10°-20° | 197.9 | 10.4 |
| 20°-30° | 290.2 | 15.2 |
| 30°-40° | 336.7 | 17.7 |
| 40°-50° | 337.5 | 17.7 |
| 50°-60° | 296.9 | 15.6 |
| 60°-70° | 221.5 | 11.6 |
| 70°-80° | 121.9 | 6.4 |
| 80°-90° | 30.2 | 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° | 558.3 | 29.3 |
| 0°-40° | 895.0 | 47.0 |
| 0°-60° | 1529.4 | 80.4 |
| 0°-90° | 1903.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1903.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 745 | 745 | 745 | 745 | 745 | |
| 5° | 738 | 741 | 741 | 741 | 740 | 70 |
| 15° | 702 | 705 | 703 | 702 | 701 | 198 |
| 25° | 630 | 633 | 630 | 630 | 628 | 290 |
| 35° | 540 | 540 | 538 | 536 | 535 | 338 |
| 45° | 438 | 439 | 437 | 437 | 436 | 338 |
| 55° | 333 | 333 | 331 | 332 | 331 | 298 |
| 65° | 224 | 224 | 224 | 223 | 223 | 222 |
| 75° | 114 | 115 | 115 | 114 | 115 | 122 |
| 85° | 25 | 25 | 25 | 25 | 25 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735650

CATALOG NUMBER: 22APR-22-B2750-W2D-CP125-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 |
| 2.5° | 741.8 | 744.3 | 743.8 | 745.4 | 744.3 |
| 5° | 738.2 | 740.8 | 740.8 | 740.8 | 739.7 |
| 7.5° | 732.5 | 735.1 | 735.1 | 735.1 | 733.0 |
| 10° | 724.8 | 727.4 | 726.9 | 726.9 | 725.8 |
| 12.5° | 715.6 | 717.1 | 716.0 | 716.0 | 715.6 |
| 15° | 701.7 | 704.7 | 703.2 | 702.2 | 701.2 |
| 17.5° | 686.2 | 689.3 | 686.8 | 686.2 | 684.7 |
| 20° | 670.3 | 672.3 | 669.8 | 669.8 | 667.7 |
| 22.5° | 650.7 | 652.8 | 651.2 | 650.3 | 649.2 |
| 25° | 630.1 | 632.7 | 630.1 | 629.6 | 628.1 |
| 27.5° | 609.1 | 611.1 | 608.5 | 606.5 | 605.5 |
| 30° | 586.4 | 588.0 | 585.9 | 584.4 | 582.8 |
| 32.5° | 564.3 | 564.3 | 562.2 | 560.7 | 558.7 |
| 35° | 539.6 | 540.2 | 538.1 | 536.5 | 535.0 |
| 37.5° | 515.0 | 516.0 | 513.9 | 512.4 | 511.3 |
| 40° | 489.3 | 490.2 | 488.7 | 487.1 | 486.7 |
| 42.5° | 464.5 | 464.5 | 463.5 | 461.9 | 461.0 |
| 45° | 437.8 | 439.3 | 437.3 | 436.7 | 435.7 |
| 47.5° | 413.1 | 413.1 | 411.0 | 410.0 | 410.0 |
| 50° | 386.4 | 387.3 | 384.8 | 384.2 | 383.8 |
| 52.5° | 359.6 | 359.0 | 358.5 | 358.1 | 357.5 |
| 55° | 332.8 | 333.3 | 331.3 | 331.8 | 331.3 |
| 57.5° | 306.1 | 305.5 | 305.0 | 304.6 | 304.0 |
| 60° | 279.3 | 278.8 | 278.3 | 277.8 | 278.8 |
| 62.5° | 251.5 | 252.1 | 250.5 | 252.1 | 250.0 |
| 65° | 223.8 | 223.8 | 224.3 | 223.2 | 222.8 |
| 67.5° | 197.1 | 197.1 | 196.0 | 196.0 | 198.0 |
| 70° | 169.3 | 169.7 | 168.2 | 170.3 | 168.2 |
| 72.5° | 142.0 | 142.5 | 142.0 | 141.4 | 142.5 |
| 75° | 114.2 | 114.7 | 114.7 | 113.7 | 114.7 |
| 77.5° | 89.0 | 89.5 | 89.0 | 88.5 | 89.0 |
| 80° | 64.8 | 65.3 | 64.8 | 64.3 | 65.3 |
| 82.5° | 43.2 | 43.7 | 43.2 | 43.2 | 43.7 |
| 85° | 24.7 | 25.2 | 24.7 | 24.7 | 25.2 |
| 87.5° | 9.8 | 10.3 | 10.3 | 10.3 | 10.3 |
| 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)