

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: P735696

Luminaire Tested: **22APR-38-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P735696
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-38-B2750-W2D-CP125-4000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

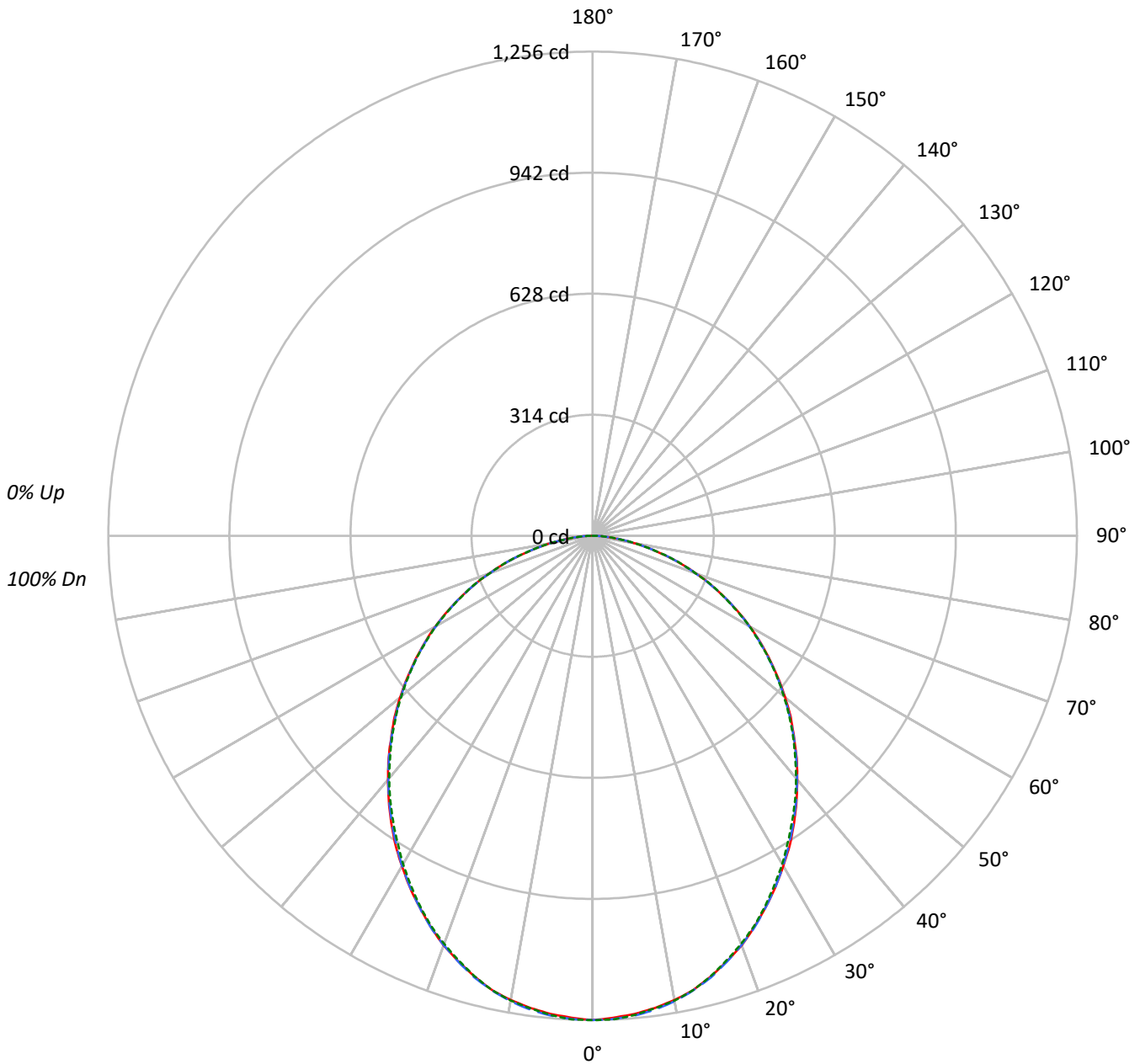
Lumens per Lamp: N/A
Luminaire Lumens: 3210.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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° | 3381 | 3381 | 3381 |
| 5° | 3364 | 3375 | 3371 |
| 10° | 3341 | 3350 | 3345 |
| 15° | 3297 | 3305 | 3295 |
| 20° | 3238 | 3235 | 3225 |
| 25° | 3156 | 3156 | 3146 |
| 30° | 3074 | 3071 | 3055 |
| 35° | 2990 | 2982 | 2964 |
| 40° | 2899 | 2896 | 2884 |
| 45° | 2810 | 2807 | 2797 |
| 50° | 2728 | 2717 | 2710 |
| 55° | 2633 | 2622 | 2622 |
| 60° | 2535 | 2527 | 2532 |
| 65° | 2403 | 2409 | 2393 |
| 70° | 2247 | 2233 | 2233 |
| 75° | 2002 | 2012 | 2012 |
| 80° | 1694 | 1694 | 1708 |
| 85° | 1284 | 1284 | 1312 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.5 | 3.7 |
| 10°-20° | 333.8 | 10.4 |
| 20°-30° | 489.5 | 15.2 |
| 30°-40° | 567.9 | 17.7 |
| 40°-50° | 569.4 | 17.7 |
| 50°-60° | 500.7 | 15.6 |
| 60°-70° | 373.7 | 11.6 |
| 70°-80° | 205.6 | 6.4 |
| 80°-90° | 50.9 | 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° | 941.8 | 29.3 |
| 0°-40° | 1509.7 | 47.0 |
| 0°-60° | 2579.8 | 80.4 |
| 0°-90° | 3210.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3210.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1256 | 1256 | 1256 | 1256 | 1256 | |
| 5° | 1245 | 1250 | 1250 | 1250 | 1248 | 118 |
| 15° | 1184 | 1189 | 1186 | 1184 | 1183 | 333 |
| 25° | 1063 | 1067 | 1063 | 1062 | 1060 | 490 |
| 35° | 910 | 911 | 908 | 905 | 902 | 569 |
| 45° | 738 | 741 | 738 | 737 | 735 | 571 |
| 55° | 561 | 562 | 559 | 560 | 559 | 502 |
| 65° | 377 | 377 | 378 | 376 | 376 | 374 |
| 75° | 193 | 194 | 194 | 192 | 194 | 206 |
| 85° | 42 | 42 | 42 | 42 | 42 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735696

CATALOG NUMBER: 22APR-38-B2750-W2D-CP125-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1256.5 | 1256.5 | 1256.5 | 1256.5 | 1256.5 |
| 2.5° | 1251.2 | 1255.6 | 1254.7 | 1257.4 | 1255.6 |
| 5° | 1245.2 | 1249.6 | 1249.6 | 1249.6 | 1247.8 |
| 7.5° | 1235.6 | 1239.9 | 1239.9 | 1239.9 | 1236.5 |
| 10° | 1222.7 | 1227.0 | 1226.1 | 1226.1 | 1224.3 |
| 12.5° | 1207.1 | 1209.6 | 1207.8 | 1207.8 | 1207.1 |
| 15° | 1183.6 | 1188.7 | 1186.2 | 1184.4 | 1182.7 |
| 17.5° | 1157.5 | 1162.8 | 1158.4 | 1157.5 | 1155.0 |
| 20° | 1130.6 | 1134.1 | 1129.7 | 1129.7 | 1126.3 |
| 22.5° | 1097.6 | 1101.1 | 1098.5 | 1096.9 | 1095.1 |
| 25° | 1062.9 | 1067.3 | 1062.9 | 1062.0 | 1059.5 |
| 27.5° | 1027.4 | 1030.8 | 1026.5 | 1023.0 | 1021.4 |
| 30° | 989.2 | 991.8 | 988.3 | 985.8 | 983.1 |
| 32.5° | 951.8 | 951.8 | 948.4 | 945.8 | 942.4 |
| 35° | 910.3 | 911.2 | 907.7 | 905.0 | 902.4 |
| 37.5° | 868.7 | 870.3 | 866.9 | 864.3 | 862.5 |
| 40° | 825.3 | 826.9 | 824.4 | 821.7 | 820.9 |
| 42.5° | 783.5 | 783.5 | 781.9 | 779.2 | 777.5 |
| 45° | 738.5 | 741.1 | 737.6 | 736.7 | 734.9 |
| 47.5° | 696.8 | 696.8 | 693.3 | 691.5 | 691.5 |
| 50° | 651.7 | 653.4 | 649.0 | 648.1 | 647.4 |
| 52.5° | 606.5 | 605.6 | 604.7 | 604.0 | 603.1 |
| 55° | 561.3 | 562.2 | 558.8 | 559.7 | 558.8 |
| 57.5° | 516.3 | 515.4 | 514.5 | 513.8 | 512.9 |
| 60° | 471.1 | 470.4 | 469.5 | 468.6 | 470.4 |
| 62.5° | 424.3 | 425.2 | 422.6 | 425.2 | 421.7 |
| 65° | 377.4 | 377.4 | 378.3 | 376.5 | 375.8 |
| 67.5° | 332.4 | 332.4 | 330.6 | 330.6 | 334.0 |
| 70° | 285.6 | 286.3 | 283.8 | 287.2 | 283.8 |
| 72.5° | 239.5 | 240.4 | 239.5 | 238.6 | 240.4 |
| 75° | 192.6 | 193.5 | 193.5 | 191.7 | 193.5 |
| 77.5° | 150.1 | 151.0 | 150.1 | 149.2 | 150.1 |
| 80° | 109.3 | 110.2 | 109.3 | 108.4 | 110.2 |
| 82.5° | 72.8 | 73.7 | 72.8 | 72.8 | 73.7 |
| 85° | 41.6 | 42.5 | 41.6 | 41.6 | 42.5 |
| 87.5° | 16.5 | 17.4 | 17.4 | 17.4 | 17.4 |
| 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)