

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: P735700

Luminaire Tested: **22APR-38-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735700
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-CP250-3500K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

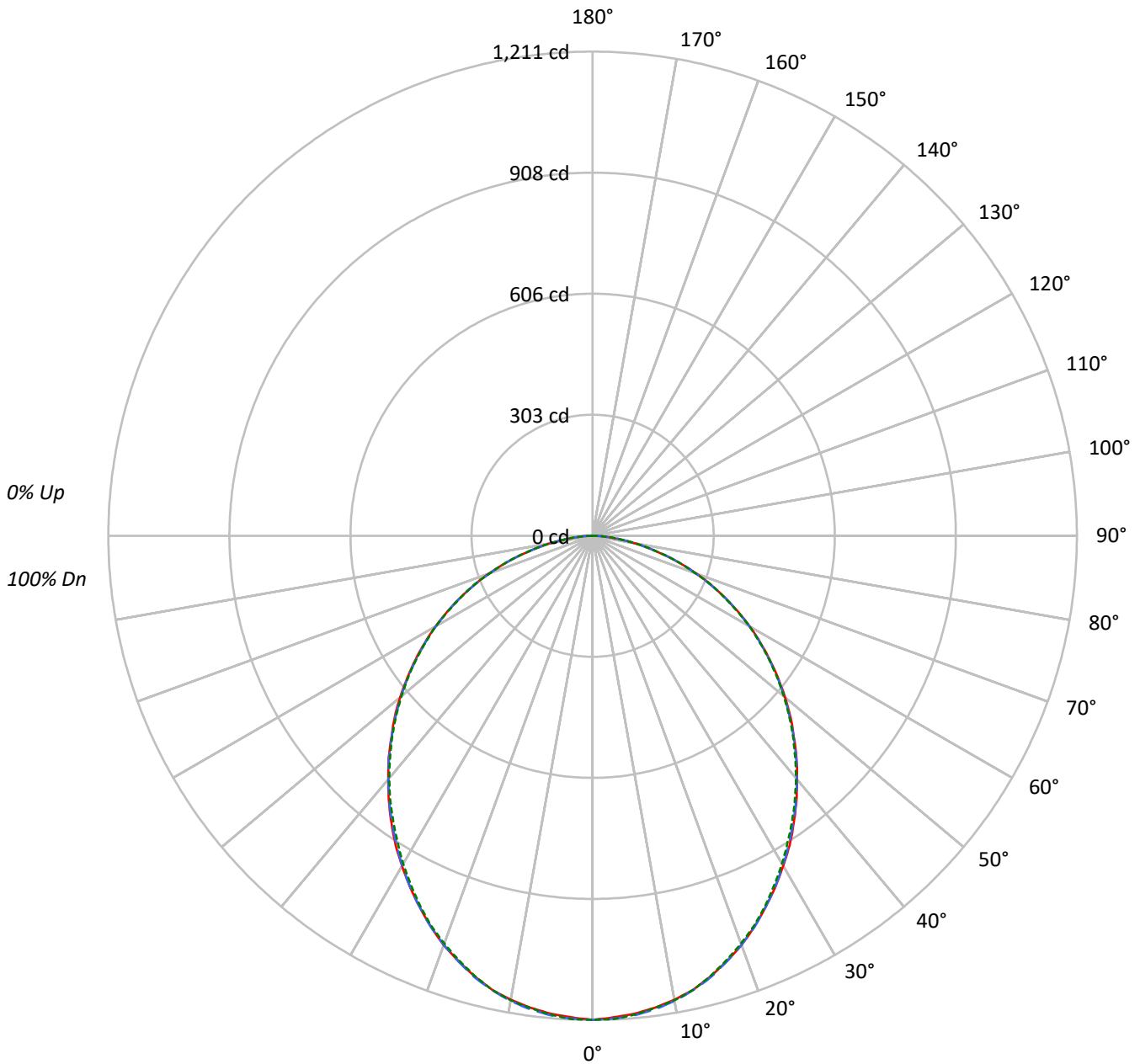
Lumens per Lamp: N/A
Luminaire Lumens: 3093.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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° | 3258 | 3258 | 3258 |
| 5° | 3241 | 3252 | 3248 |
| 10° | 3219 | 3228 | 3224 |
| 15° | 3177 | 3184 | 3175 |
| 20° | 3120 | 3117 | 3108 |
| 25° | 3041 | 3041 | 3031 |
| 30° | 2962 | 2959 | 2943 |
| 35° | 2881 | 2873 | 2857 |
| 40° | 2793 | 2790 | 2779 |
| 45° | 2708 | 2705 | 2695 |
| 50° | 2629 | 2618 | 2611 |
| 55° | 2538 | 2526 | 2526 |
| 60° | 2443 | 2435 | 2439 |
| 65° | 2316 | 2321 | 2306 |
| 70° | 2164 | 2151 | 2151 |
| 75° | 1930 | 1939 | 1939 |
| 80° | 1632 | 1632 | 1646 |
| 85° | 1238 | 1238 | 1263 |



TEST NUMBER: P735700

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.2 | 3.7 |
| 10°-20° | 321.7 | 10.4 |
| 20°-30° | 471.7 | 15.2 |
| 30°-40° | 547.2 | 17.7 |
| 40°-50° | 548.6 | 17.7 |
| 50°-60° | 482.5 | 15.6 |
| 60°-70° | 360.1 | 11.6 |
| 70°-80° | 198.1 | 6.4 |
| 80°-90° | 49.0 | 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° | 907.5 | 29.3 |
| 0°-40° | 1454.7 | 47.0 |
| 0°-60° | 2485.8 | 80.4 |
| 0°-90° | 3093.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3093.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1211 | 1211 | 1211 | 1211 | 1211 | |
| 5° | 1200 | 1204 | 1204 | 1204 | 1202 | 114 |
| 15° | 1140 | 1145 | 1143 | 1141 | 1140 | 321 |
| 25° | 1024 | 1028 | 1024 | 1023 | 1021 | 472 |
| 35° | 877 | 878 | 875 | 872 | 870 | 549 |
| 45° | 712 | 714 | 711 | 710 | 708 | 550 |
| 55° | 541 | 542 | 538 | 539 | 538 | 484 |
| 65° | 364 | 364 | 364 | 363 | 362 | 361 |
| 75° | 186 | 186 | 186 | 185 | 186 | 198 |
| 85° | 40 | 41 | 40 | 40 | 41 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P735700

CATALOG NUMBER: 22APR-38-B2750-W2D-CP250-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1210.7 | 1210.7 | 1210.7 | 1210.7 | 1210.7 |
| 2.5° | 1205.6 | 1209.8 | 1208.9 | 1211.5 | 1209.8 |
| 5° | 1199.8 | 1204.0 | 1204.0 | 1204.0 | 1202.3 |
| 7.5° | 1190.6 | 1194.7 | 1194.7 | 1194.7 | 1191.4 |
| 10° | 1178.1 | 1182.3 | 1181.4 | 1181.4 | 1179.7 |
| 12.5° | 1163.1 | 1165.5 | 1163.8 | 1163.8 | 1163.1 |
| 15° | 1140.5 | 1145.4 | 1143.0 | 1141.2 | 1139.6 |
| 17.5° | 1115.3 | 1120.4 | 1116.2 | 1115.3 | 1112.9 |
| 20° | 1089.4 | 1092.8 | 1088.6 | 1088.6 | 1085.2 |
| 22.5° | 1057.6 | 1060.9 | 1058.5 | 1056.9 | 1055.2 |
| 25° | 1024.2 | 1028.4 | 1024.2 | 1023.3 | 1020.9 |
| 27.5° | 989.9 | 993.2 | 989.0 | 985.7 | 984.1 |
| 30° | 953.2 | 955.6 | 952.3 | 949.8 | 947.2 |
| 32.5° | 917.1 | 917.1 | 913.8 | 911.4 | 908.0 |
| 35° | 877.1 | 877.9 | 874.6 | 872.0 | 869.6 |
| 37.5° | 837.0 | 838.6 | 835.3 | 832.8 | 831.1 |
| 40° | 795.2 | 796.8 | 794.3 | 791.7 | 791.0 |
| 42.5° | 755.0 | 755.0 | 753.4 | 750.8 | 749.2 |
| 45° | 711.6 | 714.0 | 710.7 | 709.8 | 708.1 |
| 47.5° | 671.4 | 671.4 | 668.0 | 666.3 | 666.3 |
| 50° | 628.0 | 629.6 | 625.4 | 624.5 | 623.8 |
| 52.5° | 584.4 | 583.6 | 582.7 | 582.0 | 581.1 |
| 55° | 540.9 | 541.8 | 538.4 | 539.3 | 538.4 |
| 57.5° | 497.5 | 496.6 | 495.8 | 495.0 | 494.2 |
| 60° | 453.9 | 453.2 | 452.4 | 451.5 | 453.2 |
| 62.5° | 408.8 | 409.7 | 407.2 | 409.7 | 406.4 |
| 65° | 363.7 | 363.7 | 364.5 | 362.8 | 362.1 |
| 67.5° | 320.3 | 320.3 | 318.5 | 318.5 | 321.9 |
| 70° | 275.1 | 275.9 | 273.4 | 276.7 | 273.4 |
| 72.5° | 230.7 | 231.6 | 230.7 | 229.9 | 231.6 |
| 75° | 185.6 | 186.5 | 186.5 | 184.7 | 186.5 |
| 77.5° | 144.7 | 145.5 | 144.7 | 143.8 | 144.7 |
| 80° | 105.3 | 106.2 | 105.3 | 104.4 | 106.2 |
| 82.5° | 70.2 | 71.0 | 70.2 | 70.2 | 71.0 |
| 85° | 40.1 | 40.9 | 40.1 | 40.1 | 40.9 |
| 87.5° | 15.9 | 16.8 | 16.8 | 16.8 | 16.8 |
| 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)