

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: P735673

Luminaire Tested: **22APR-34-B2750-W2D-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P735673
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-2700K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

Summary

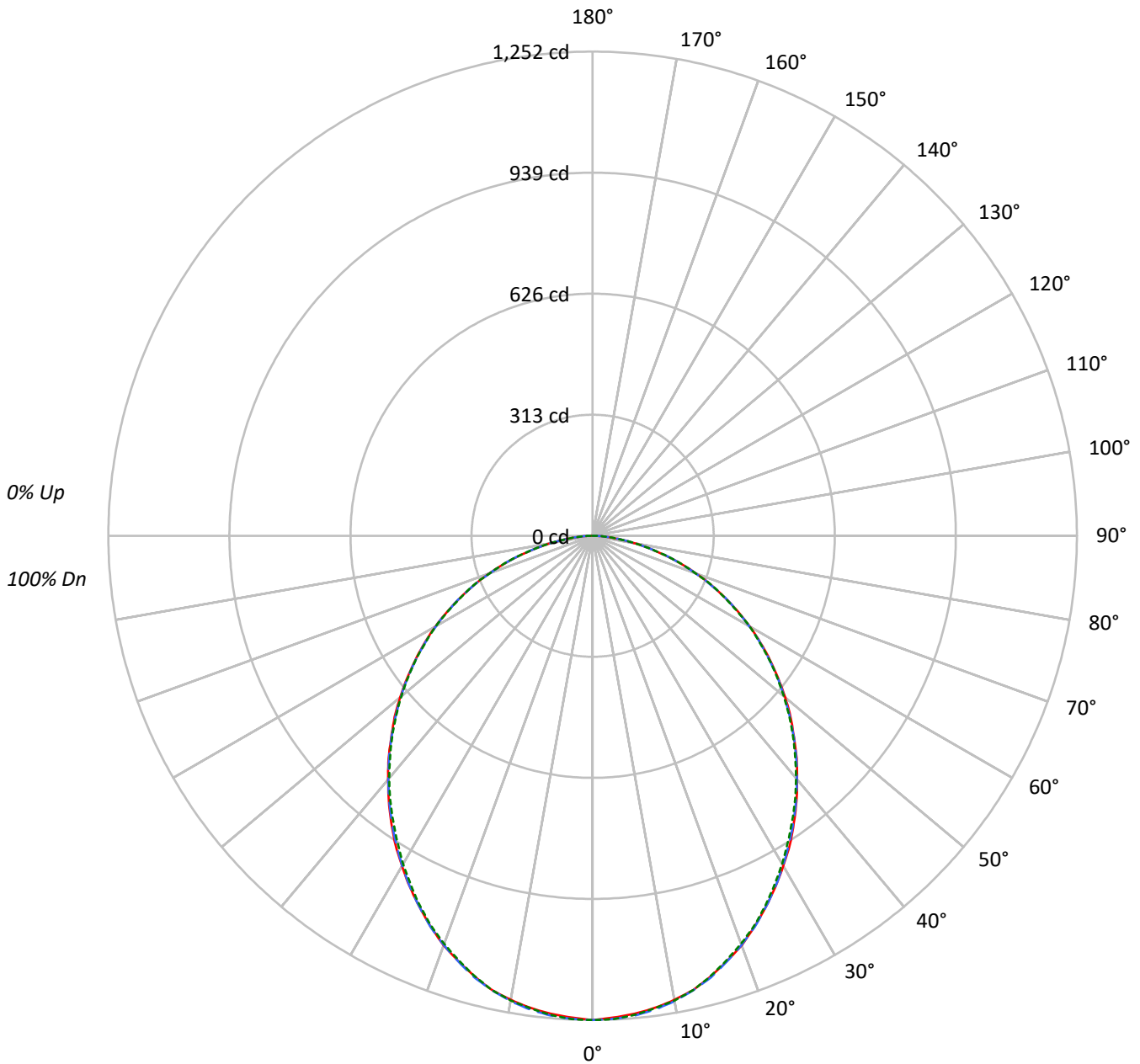
Lumens per Lamp: N/A
Luminaire Lumens: 3199.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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° | 3370 | 3370 | 3370 |
| 5° | 3352 | 3364 | 3359 |
| 10° | 3330 | 3339 | 3334 |
| 15° | 3286 | 3293 | 3284 |
| 20° | 3227 | 3224 | 3214 |
| 25° | 3145 | 3145 | 3135 |
| 30° | 3063 | 3060 | 3044 |
| 35° | 2980 | 2972 | 2955 |
| 40° | 2889 | 2886 | 2874 |
| 45° | 2801 | 2798 | 2787 |
| 50° | 2719 | 2708 | 2701 |
| 55° | 2624 | 2613 | 2613 |
| 60° | 2527 | 2518 | 2523 |
| 65° | 2395 | 2401 | 2385 |
| 70° | 2239 | 2225 | 2225 |
| 75° | 1996 | 2006 | 2006 |
| 80° | 1688 | 1688 | 1702 |
| 85° | 1278 | 1278 | 1306 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.1 | 3.7 |
| 10°-20° | 332.7 | 10.4 |
| 20°-30° | 487.8 | 15.2 |
| 30°-40° | 565.9 | 17.7 |
| 40°-50° | 567.4 | 17.7 |
| 50°-60° | 499.0 | 15.6 |
| 60°-70° | 372.4 | 11.6 |
| 70°-80° | 204.9 | 6.4 |
| 80°-90° | 50.7 | 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° | 938.6 | 29.3 |
| 0°-40° | 1504.5 | 47.0 |
| 0°-60° | 2571.0 | 80.4 |
| 0°-90° | 3199.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3199.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1252 | 1252 | 1252 | 1252 | 1252 | |
| 5° | 1241 | 1245 | 1245 | 1245 | 1244 | 118 |
| 15° | 1180 | 1185 | 1182 | 1180 | 1179 | 332 |
| 25° | 1059 | 1064 | 1059 | 1058 | 1056 | 488 |
| 35° | 907 | 908 | 905 | 902 | 899 | 567 |
| 45° | 736 | 738 | 735 | 734 | 732 | 569 |
| 55° | 559 | 560 | 557 | 558 | 557 | 500 |
| 65° | 376 | 376 | 377 | 375 | 374 | 373 |
| 75° | 192 | 193 | 193 | 191 | 193 | 205 |
| 85° | 41 | 42 | 41 | 41 | 42 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1252.2 | 1252.2 | 1252.2 | 1252.2 | 1252.2 |
| 2.5° | 1246.9 | 1251.3 | 1250.4 | 1253.1 | 1251.3 |
| 5° | 1240.9 | 1245.3 | 1245.3 | 1245.3 | 1243.5 |
| 7.5° | 1231.4 | 1235.7 | 1235.7 | 1235.7 | 1232.3 |
| 10° | 1218.5 | 1222.8 | 1221.9 | 1221.9 | 1220.1 |
| 12.5° | 1202.9 | 1205.5 | 1203.7 | 1203.7 | 1202.9 |
| 15° | 1179.6 | 1184.7 | 1182.1 | 1180.3 | 1178.7 |
| 17.5° | 1153.6 | 1158.8 | 1154.5 | 1153.6 | 1151.0 |
| 20° | 1126.8 | 1130.2 | 1125.9 | 1125.9 | 1122.4 |
| 22.5° | 1093.9 | 1097.3 | 1094.8 | 1093.1 | 1091.3 |
| 25° | 1059.3 | 1063.6 | 1059.3 | 1058.4 | 1055.9 |
| 27.5° | 1023.8 | 1027.3 | 1022.9 | 1019.5 | 1017.9 |
| 30° | 985.8 | 988.4 | 984.9 | 982.4 | 979.7 |
| 32.5° | 948.6 | 948.6 | 945.1 | 942.6 | 939.2 |
| 35° | 907.1 | 908.0 | 904.6 | 901.9 | 899.4 |
| 37.5° | 865.7 | 867.3 | 863.9 | 861.4 | 859.6 |
| 40° | 822.4 | 824.1 | 821.6 | 818.9 | 818.1 |
| 42.5° | 780.9 | 780.9 | 779.2 | 776.5 | 774.9 |
| 45° | 736.0 | 738.5 | 735.1 | 734.2 | 732.4 |
| 47.5° | 694.4 | 694.4 | 690.9 | 689.1 | 689.1 |
| 50° | 649.5 | 651.1 | 646.8 | 645.9 | 645.2 |
| 52.5° | 604.5 | 603.6 | 602.7 | 601.9 | 601.0 |
| 55° | 559.4 | 560.3 | 556.9 | 557.8 | 556.9 |
| 57.5° | 514.5 | 513.6 | 512.7 | 512.0 | 511.1 |
| 60° | 469.5 | 468.8 | 467.9 | 467.0 | 468.8 |
| 62.5° | 422.8 | 423.7 | 421.2 | 423.7 | 420.3 |
| 65° | 376.1 | 376.1 | 377.0 | 375.2 | 374.5 |
| 67.5° | 331.3 | 331.3 | 329.5 | 329.5 | 332.9 |
| 70° | 284.6 | 285.3 | 282.8 | 286.2 | 282.8 |
| 72.5° | 238.6 | 239.5 | 238.6 | 237.7 | 239.5 |
| 75° | 192.0 | 192.9 | 192.9 | 191.1 | 192.9 |
| 77.5° | 149.6 | 150.5 | 149.6 | 148.7 | 149.6 |
| 80° | 108.9 | 109.8 | 108.9 | 108.0 | 109.8 |
| 82.5° | 72.6 | 73.5 | 72.6 | 72.6 | 73.5 |
| 85° | 41.4 | 42.3 | 41.4 | 41.4 | 42.3 |
| 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)