

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: P732542

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-B2750-W2D-CA125-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

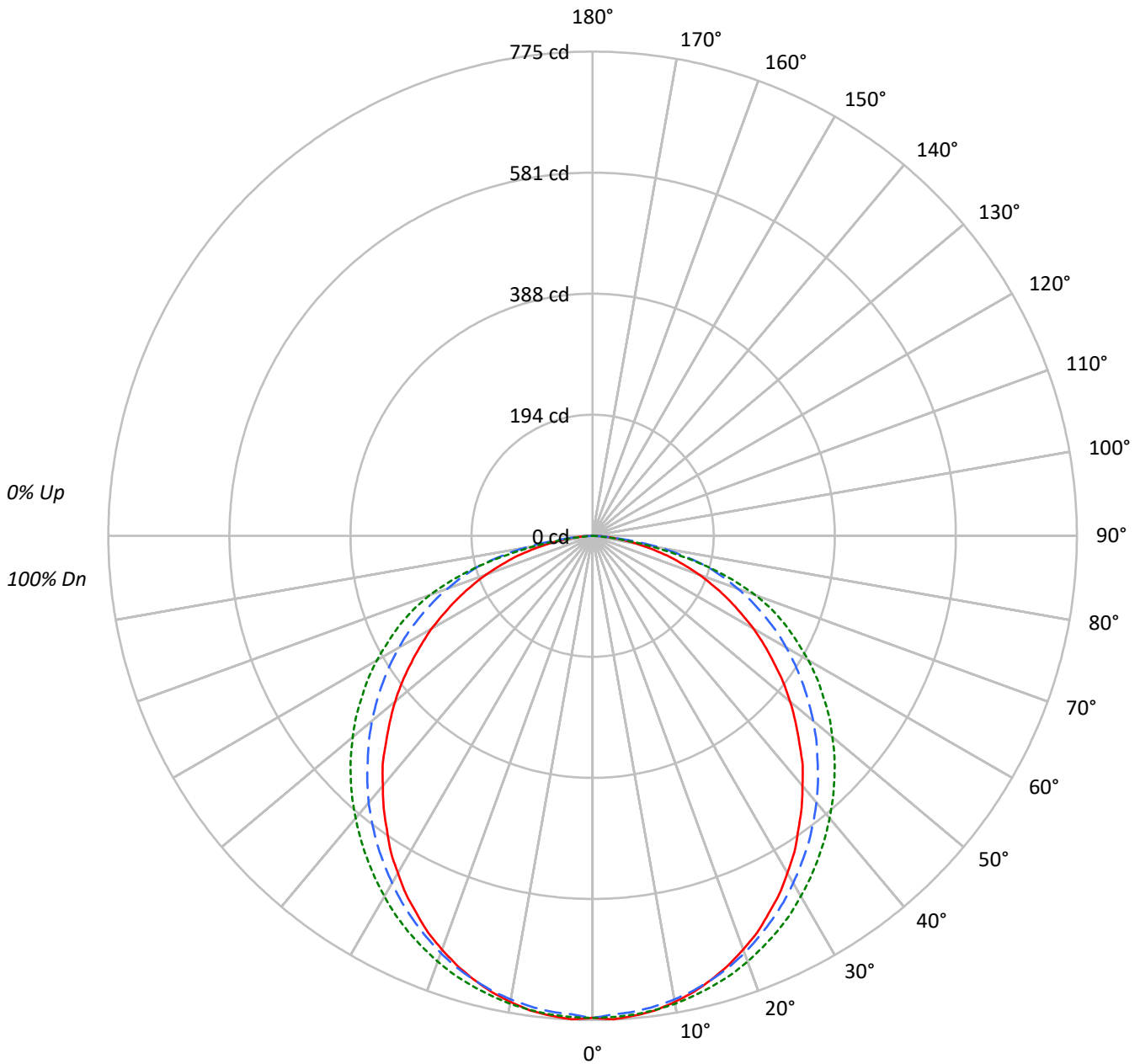
Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): 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 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2178 | 2178 | 2178 |
| 5° | 2185 | 2167 | 2179 |
| 10° | 2172 | 2160 | 2180 |
| 15° | 2149 | 2150 | 2179 |
| 20° | 2117 | 2135 | 2178 |
| 25° | 2077 | 2114 | 2176 |
| 30° | 2032 | 2092 | 2172 |
| 35° | 1978 | 2074 | 2170 |
| 40° | 1925 | 2054 | 2174 |
| 45° | 1866 | 2031 | 2185 |
| 50° | 1811 | 2022 | 2200 |
| 55° | 1743 | 2016 | 2219 |
| 60° | 1681 | 2019 | 2250 |
| 65° | 1594 | 2025 | 2285 |
| 70° | 1497 | 2040 | 2284 |
| 75° | 1356 | 2059 | 2065 |
| 80° | 1113 | 1777 | 1468 |
| 85° | 823 | 842 | 340 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.0 | 3.3 |
| 10°-20° | 208.6 | 9.3 |
| 20°-30° | 314.2 | 14.0 |
| 30°-40° | 377.1 | 16.8 |
| 40°-50° | 393.0 | 17.5 |
| 50°-60° | 363.8 | 16.2 |
| 60°-70° | 294.0 | 13.1 |
| 70°-80° | 179.2 | 8.0 |
| 80°-90° | 37.0 | 1.7 |
| 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° | 595.8 | 26.6 |
| 0°-40° | 972.9 | 43.4 |
| 0°-60° | 1729.8 | 77.2 |
| 0°-90° | 2240.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2240.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 772 | 772 | 772 | 772 | 772 | |
| 5° | 771 | 769 | 765 | 770 | 769 | 73 |
| 15° | 735 | 736 | 736 | 746 | 746 | 207 |
| 25° | 667 | 671 | 679 | 696 | 699 | 307 |
| 35° | 574 | 583 | 602 | 624 | 630 | 360 |
| 45° | 468 | 482 | 509 | 537 | 547 | 361 |
| 55° | 354 | 373 | 410 | 442 | 451 | 317 |
| 65° | 239 | 262 | 303 | 334 | 342 | 236 |
| 75° | 124 | 152 | 189 | 192 | 189 | 131 |
| 85° | 25 | 38 | 26 | 14 | 10 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 771.7 | 771.7 | 771.7 | 771.7 | 771.7 |
| 2.5° | 774.7 | 772.2 | 766.7 | 772.2 | 771.1 |
| 5° | 771.1 | 769.2 | 764.7 | 770.2 | 769.2 |
| 7.5° | 766.2 | 764.1 | 760.1 | 766.7 | 765.6 |
| 10° | 757.7 | 756.7 | 753.7 | 761.2 | 760.7 |
| 12.5° | 747.8 | 747.2 | 745.7 | 754.2 | 753.7 |
| 15° | 735.3 | 735.7 | 735.7 | 745.7 | 745.7 |
| 17.5° | 721.2 | 722.2 | 724.3 | 735.3 | 736.8 |
| 20° | 704.7 | 706.8 | 710.8 | 723.3 | 725.2 |
| 22.5° | 687.8 | 689.3 | 695.2 | 710.2 | 712.3 |
| 25° | 666.8 | 670.8 | 678.7 | 695.8 | 698.8 |
| 27.5° | 646.8 | 650.3 | 661.3 | 678.7 | 683.8 |
| 30° | 623.3 | 628.8 | 641.9 | 660.9 | 666.4 |
| 32.5° | 600.9 | 606.8 | 621.8 | 643.8 | 648.8 |
| 35° | 574.0 | 582.9 | 601.9 | 623.9 | 629.8 |
| 37.5° | 549.5 | 557.9 | 579.5 | 603.4 | 610.4 |
| 40° | 522.4 | 533.0 | 557.5 | 582.9 | 589.9 |
| 42.5° | 497.5 | 507.4 | 533.9 | 559.9 | 569.4 |
| 45° | 467.5 | 481.6 | 508.9 | 537.4 | 547.4 |
| 47.5° | 440.0 | 454.1 | 485.5 | 515.9 | 525.0 |
| 50° | 412.5 | 427.5 | 460.5 | 492.0 | 500.9 |
| 52.5° | 384.1 | 400.2 | 435.5 | 467.0 | 477.6 |
| 55° | 354.1 | 372.6 | 409.6 | 441.5 | 451.0 |
| 57.5° | 325.6 | 344.6 | 384.1 | 416.5 | 426.0 |
| 60° | 297.7 | 317.2 | 357.7 | 388.6 | 398.6 |
| 62.5° | 266.8 | 289.7 | 331.7 | 362.1 | 369.6 |
| 65° | 238.7 | 262.2 | 303.2 | 333.6 | 342.1 |
| 67.5° | 209.3 | 234.7 | 275.7 | 303.6 | 311.7 |
| 70° | 181.4 | 207.8 | 247.2 | 273.2 | 276.7 |
| 72.5° | 151.4 | 178.3 | 218.2 | 234.7 | 234.7 |
| 75° | 124.3 | 151.8 | 188.8 | 191.8 | 189.3 |
| 77.5° | 94.9 | 125.4 | 149.3 | 143.3 | 137.4 |
| 80° | 68.5 | 98.5 | 109.3 | 98.5 | 90.3 |
| 82.5° | 45.9 | 71.4 | 65.9 | 52.4 | 46.5 |
| 85° | 25.4 | 38.0 | 26.0 | 14.4 | 10.5 |
| 87.5° | 9.5 | 8.5 | 2.5 | 2.5 | 2.5 |
| 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)