

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: P732641

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-SQR-B2750-W2D-CA125-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

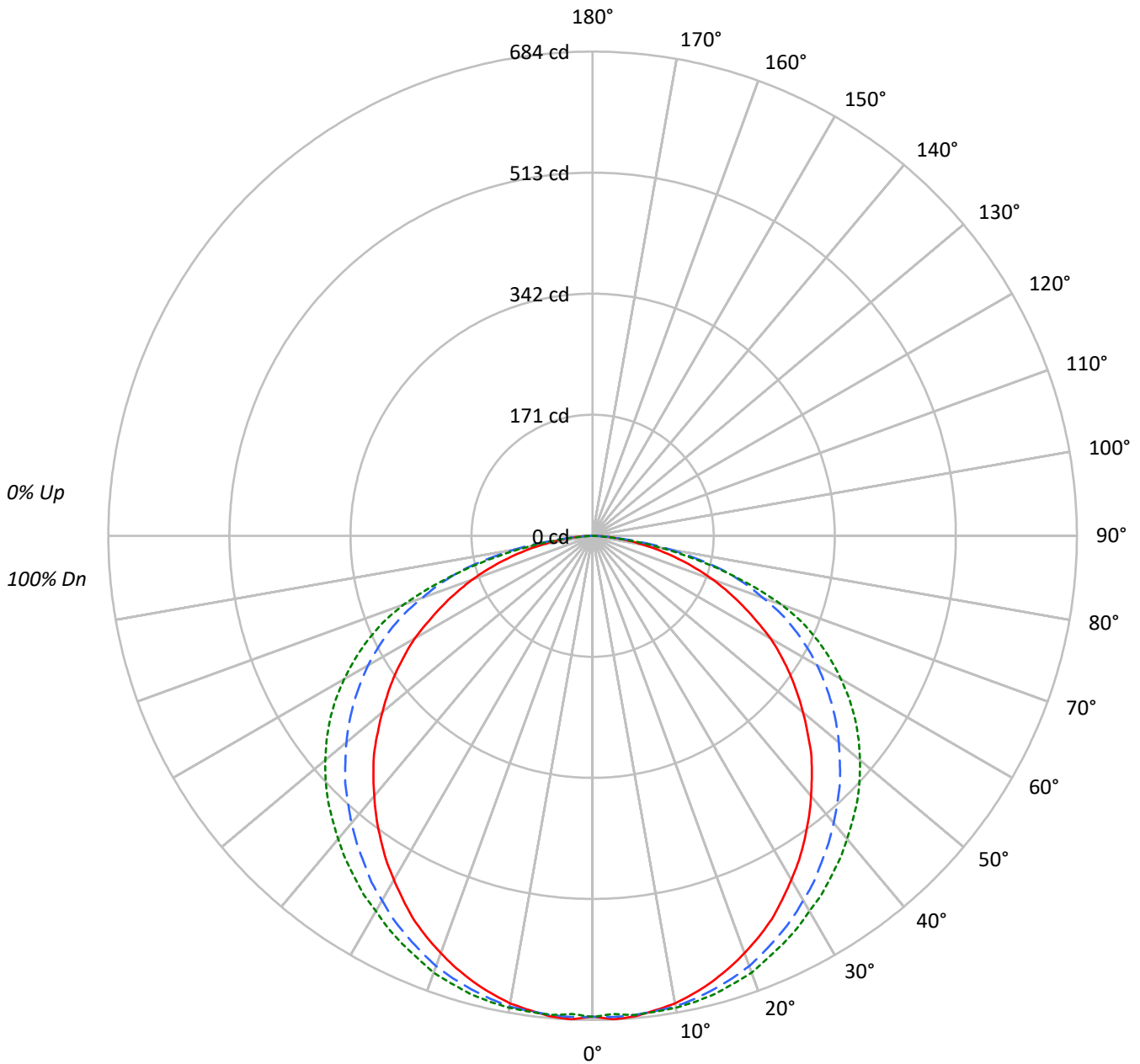
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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





TEST NUMBER: P732641

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 | | | | | | | | |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 56 | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 54 | 50 | 48 | | | | | | | | |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 44 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 41 | | | | | | | | |
| 6 | 68 | 55 | 45 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 35 | | | | | | | | |
| 7 | 63 | 49 | 40 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 31 | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 | | | | | | | | |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | |
| 10 | 52 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 22 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1918 | 1918 | 1918 |
| 5° | 1931 | 1925 | 1925 |
| 10° | 1923 | 1935 | 1941 |
| 15° | 1906 | 1938 | 1957 |
| 20° | 1885 | 1943 | 1973 |
| 25° | 1863 | 1940 | 1981 |
| 30° | 1829 | 1939 | 1995 |
| 35° | 1800 | 1941 | 2024 |
| 40° | 1769 | 1952 | 2060 |
| 45° | 1743 | 1972 | 2111 |
| 50° | 1703 | 1994 | 2165 |
| 55° | 1674 | 2027 | 2229 |
| 60° | 1639 | 2068 | 2287 |
| 65° | 1564 | 2106 | 2345 |
| 70° | 1485 | 2110 | 2343 |
| 75° | 1359 | 2104 | 2068 |
| 80° | 1162 | 1796 | 1603 |
| 85° | 913 | 1017 | 599 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.6 | 3.0 |
| 10°-20° | 186.5 | 8.7 |
| 20°-30° | 285.2 | 13.3 |
| 30°-40° | 349.6 | 16.3 |
| 40°-50° | 376.0 | 17.5 |
| 50°-60° | 361.3 | 16.8 |
| 60°-70° | 300.9 | 14.0 |
| 70°-80° | 184.7 | 8.6 |
| 80°-90° | 41.1 | 1.9 |
| 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° | 536.3 | 24.9 |
| 0°-40° | 886.0 | 41.2 |
| 0°-60° | 1623.3 | 75.5 |
| 0°-90° | 2150.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2150.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 680 | 680 | 680 | 680 | 680 | |
| 5° | 682 | 675 | 680 | 680 | 680 | 65 |
| 15° | 652 | 650 | 663 | 668 | 670 | 184 |
| 25° | 598 | 604 | 623 | 631 | 636 | 275 |
| 35° | 522 | 535 | 563 | 579 | 587 | 327 |
| 45° | 437 | 456 | 494 | 517 | 529 | 336 |
| 55° | 340 | 370 | 412 | 440 | 453 | 304 |
| 65° | 234 | 270 | 315 | 341 | 351 | 232 |
| 75° | 125 | 163 | 193 | 192 | 190 | 132 |
| 85° | 28 | 42 | 31 | 22 | 18 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA125-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 |
| 2.5° | 683.7 | 677.2 | 680.5 | 679.5 | 676.2 |
| 5° | 681.6 | 675.1 | 679.5 | 679.5 | 679.5 |
| 7.5° | 676.2 | 670.8 | 677.2 | 678.3 | 678.3 |
| 10° | 670.8 | 666.4 | 675.1 | 676.2 | 677.2 |
| 12.5° | 662.1 | 658.8 | 669.7 | 671.8 | 673.9 |
| 15° | 652.3 | 650.2 | 663.1 | 667.5 | 669.7 |
| 17.5° | 640.4 | 641.5 | 655.6 | 661.0 | 663.1 |
| 20° | 627.4 | 630.7 | 646.9 | 652.3 | 656.7 |
| 22.5° | 613.3 | 617.6 | 635.0 | 641.5 | 645.9 |
| 25° | 598.1 | 603.5 | 623.0 | 630.7 | 636.1 |
| 27.5° | 579.7 | 588.4 | 610.1 | 619.9 | 625.3 |
| 30° | 561.3 | 571.1 | 595.0 | 606.8 | 612.2 |
| 32.5° | 542.9 | 553.7 | 580.8 | 592.7 | 601.4 |
| 35° | 522.3 | 535.4 | 563.4 | 578.6 | 587.3 |
| 37.5° | 501.7 | 516.9 | 547.2 | 564.5 | 574.3 |
| 40° | 480.0 | 496.3 | 529.8 | 549.3 | 559.1 |
| 42.5° | 458.3 | 476.8 | 511.5 | 533.1 | 543.9 |
| 45° | 436.7 | 456.2 | 494.1 | 516.9 | 528.8 |
| 47.5° | 411.8 | 435.7 | 473.5 | 499.5 | 511.5 |
| 50° | 387.9 | 413.9 | 454.0 | 481.2 | 493.0 |
| 52.5° | 364.1 | 391.2 | 433.4 | 461.6 | 473.5 |
| 55° | 340.2 | 369.5 | 411.8 | 439.9 | 452.9 |
| 57.5° | 315.3 | 345.6 | 389.0 | 418.3 | 430.1 |
| 60° | 290.4 | 321.9 | 366.3 | 393.3 | 405.2 |
| 62.5° | 261.1 | 298.0 | 341.4 | 368.4 | 379.2 |
| 65° | 234.1 | 269.8 | 315.3 | 341.4 | 351.1 |
| 67.5° | 207.0 | 243.8 | 288.2 | 312.1 | 320.7 |
| 70° | 179.9 | 216.8 | 255.7 | 278.5 | 283.9 |
| 72.5° | 152.8 | 189.6 | 226.5 | 239.5 | 237.3 |
| 75° | 124.6 | 162.6 | 192.9 | 191.9 | 189.6 |
| 77.5° | 97.6 | 134.4 | 152.8 | 145.2 | 142.0 |
| 80° | 71.5 | 107.3 | 110.5 | 103.0 | 98.6 |
| 82.5° | 48.8 | 76.9 | 69.4 | 60.7 | 56.3 |
| 85° | 28.2 | 42.2 | 31.4 | 21.6 | 18.5 |
| 87.5° | 11.9 | 10.8 | 3.3 | 3.3 | 2.1 |
| 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)