

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: P732657

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732657
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-CP375-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

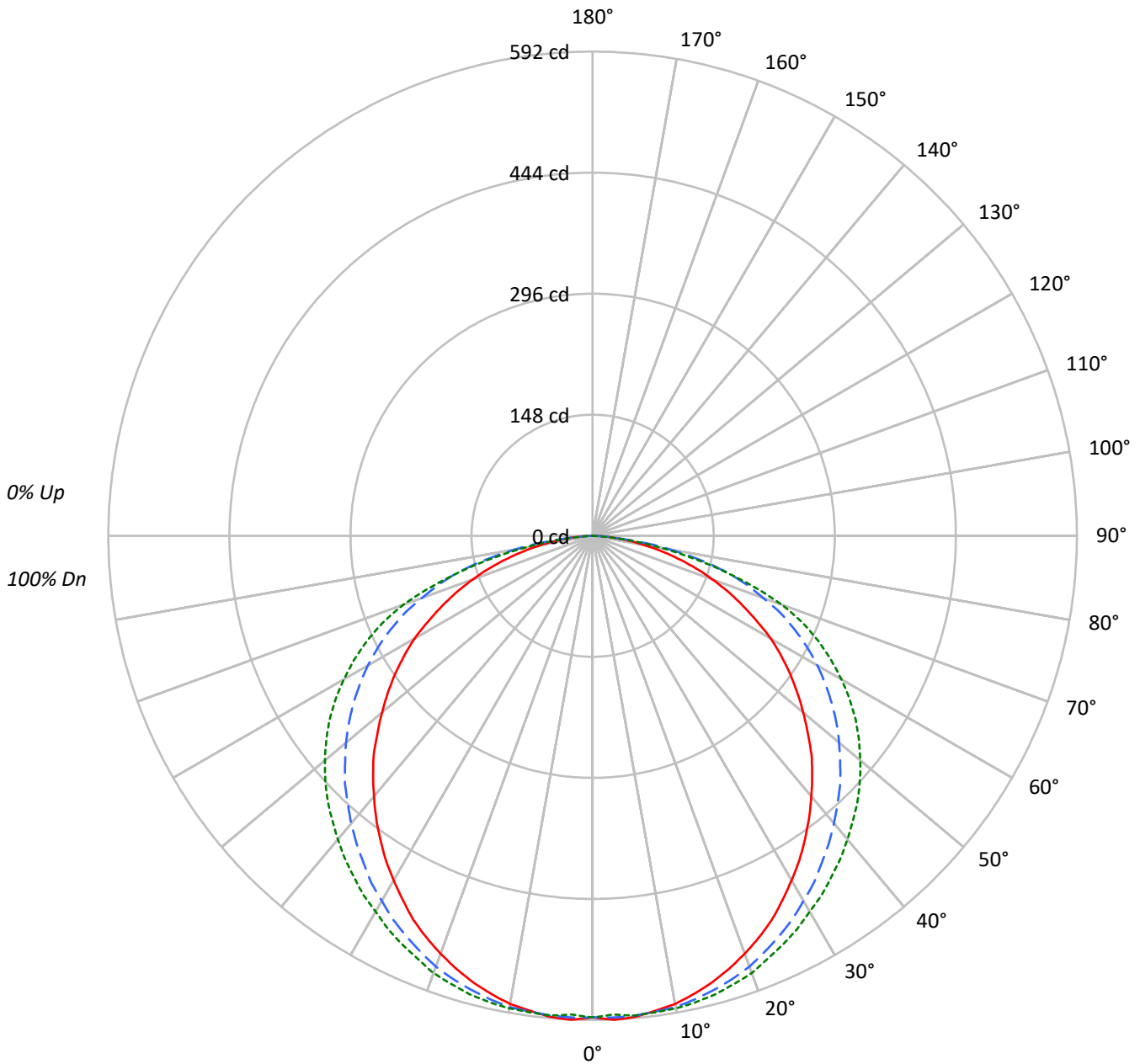
Lumens per Lamp: N/A
Luminaire Lumens: 1863.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732657

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-3000K

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 | 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° | 1662 | 1662 | 1662 |
| 5° | 1673 | 1668 | 1668 |
| 10° | 1666 | 1677 | 1682 |
| 15° | 1652 | 1679 | 1696 |
| 20° | 1633 | 1684 | 1709 |
| 25° | 1614 | 1682 | 1717 |
| 30° | 1585 | 1680 | 1729 |
| 35° | 1560 | 1682 | 1754 |
| 40° | 1532 | 1692 | 1785 |
| 45° | 1511 | 1709 | 1829 |
| 50° | 1476 | 1728 | 1876 |
| 55° | 1451 | 1756 | 1932 |
| 60° | 1420 | 1792 | 1982 |
| 65° | 1355 | 1825 | 2032 |
| 70° | 1286 | 1828 | 2030 |
| 75° | 1178 | 1823 | 1792 |
| 80° | 1006 | 1556 | 1390 |
| 85° | 793 | 881 | 518 |



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CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-3000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.0 | 3.0 |
| 10°-20° | 161.6 | 8.7 |
| 20°-30° | 247.2 | 13.3 |
| 30°-40° | 303.0 | 16.3 |
| 40°-50° | 325.8 | 17.5 |
| 50°-60° | 313.1 | 16.8 |
| 60°-70° | 260.7 | 14.0 |
| 70°-80° | 160.0 | 8.6 |
| 80°-90° | 35.7 | 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° | 464.7 | 24.9 |
| 0°-40° | 767.7 | 41.2 |
| 0°-60° | 1406.6 | 75.5 |
| 0°-90° | 1863.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1863.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 589 | 589 | 589 | 589 | 589 | |
| 5° | 591 | 585 | 589 | 589 | 589 | 56 |
| 15° | 565 | 563 | 575 | 578 | 580 | 159 |
| 25° | 518 | 523 | 540 | 546 | 551 | 238 |
| 35° | 453 | 464 | 488 | 501 | 509 | 283 |
| 45° | 378 | 395 | 428 | 448 | 458 | 291 |
| 55° | 295 | 320 | 357 | 381 | 392 | 263 |
| 65° | 203 | 234 | 273 | 296 | 304 | 201 |
| 75° | 108 | 141 | 167 | 166 | 164 | 114 |
| 85° | 24 | 37 | 27 | 19 | 16 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732657

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 588.8 | 588.8 | 588.8 | 588.8 | 588.8 |
| 2.5° | 592.4 | 586.8 | 589.7 | 588.8 | 585.9 |
| 5° | 590.6 | 585.0 | 588.8 | 588.8 | 588.8 |
| 7.5° | 585.9 | 581.2 | 586.8 | 587.7 | 587.7 |
| 10° | 581.2 | 577.5 | 585.0 | 585.9 | 586.8 |
| 12.5° | 573.7 | 570.8 | 580.3 | 582.1 | 584.0 |
| 15° | 565.2 | 563.4 | 574.6 | 578.4 | 580.3 |
| 17.5° | 555.0 | 555.9 | 568.1 | 572.8 | 574.6 |
| 20° | 543.6 | 546.5 | 560.6 | 565.2 | 569.0 |
| 22.5° | 531.4 | 535.2 | 550.3 | 555.9 | 559.6 |
| 25° | 518.3 | 523.0 | 539.9 | 546.5 | 551.2 |
| 27.5° | 502.3 | 509.8 | 528.7 | 537.1 | 541.8 |
| 30° | 486.4 | 494.9 | 515.5 | 525.8 | 530.5 |
| 32.5° | 470.4 | 479.8 | 503.3 | 513.6 | 521.1 |
| 35° | 452.6 | 463.9 | 488.2 | 501.4 | 508.9 |
| 37.5° | 434.8 | 447.9 | 474.2 | 489.1 | 497.6 |
| 40° | 415.9 | 430.1 | 459.1 | 476.0 | 484.5 |
| 42.5° | 397.2 | 413.2 | 443.2 | 461.9 | 471.3 |
| 45° | 378.4 | 395.3 | 428.1 | 447.9 | 458.2 |
| 47.5° | 356.8 | 377.5 | 410.3 | 432.8 | 443.2 |
| 50° | 336.1 | 358.7 | 393.4 | 416.9 | 427.2 |
| 52.5° | 315.5 | 339.0 | 375.6 | 400.0 | 410.3 |
| 55° | 294.8 | 320.2 | 356.8 | 381.2 | 392.5 |
| 57.5° | 273.2 | 299.5 | 337.1 | 362.4 | 372.7 |
| 60° | 251.6 | 278.9 | 317.4 | 340.8 | 351.1 |
| 62.5° | 226.2 | 258.2 | 295.8 | 319.2 | 328.6 |
| 65° | 202.8 | 233.8 | 273.2 | 295.8 | 304.3 |
| 67.5° | 179.4 | 211.3 | 249.8 | 270.5 | 277.9 |
| 70° | 155.8 | 187.8 | 221.5 | 241.3 | 246.0 |
| 72.5° | 132.4 | 164.3 | 196.3 | 207.5 | 205.7 |
| 75° | 108.0 | 140.9 | 167.2 | 166.2 | 164.3 |
| 77.5° | 84.6 | 116.4 | 132.4 | 125.8 | 123.1 |
| 80° | 61.9 | 93.0 | 95.7 | 89.2 | 85.5 |
| 82.5° | 42.3 | 66.6 | 60.1 | 52.6 | 48.8 |
| 85° | 24.5 | 36.6 | 27.2 | 18.7 | 16.0 |
| 87.5° | 10.3 | 9.4 | 2.9 | 2.9 | 1.8 |
| 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)