

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: P732660

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732660
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-CP375-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

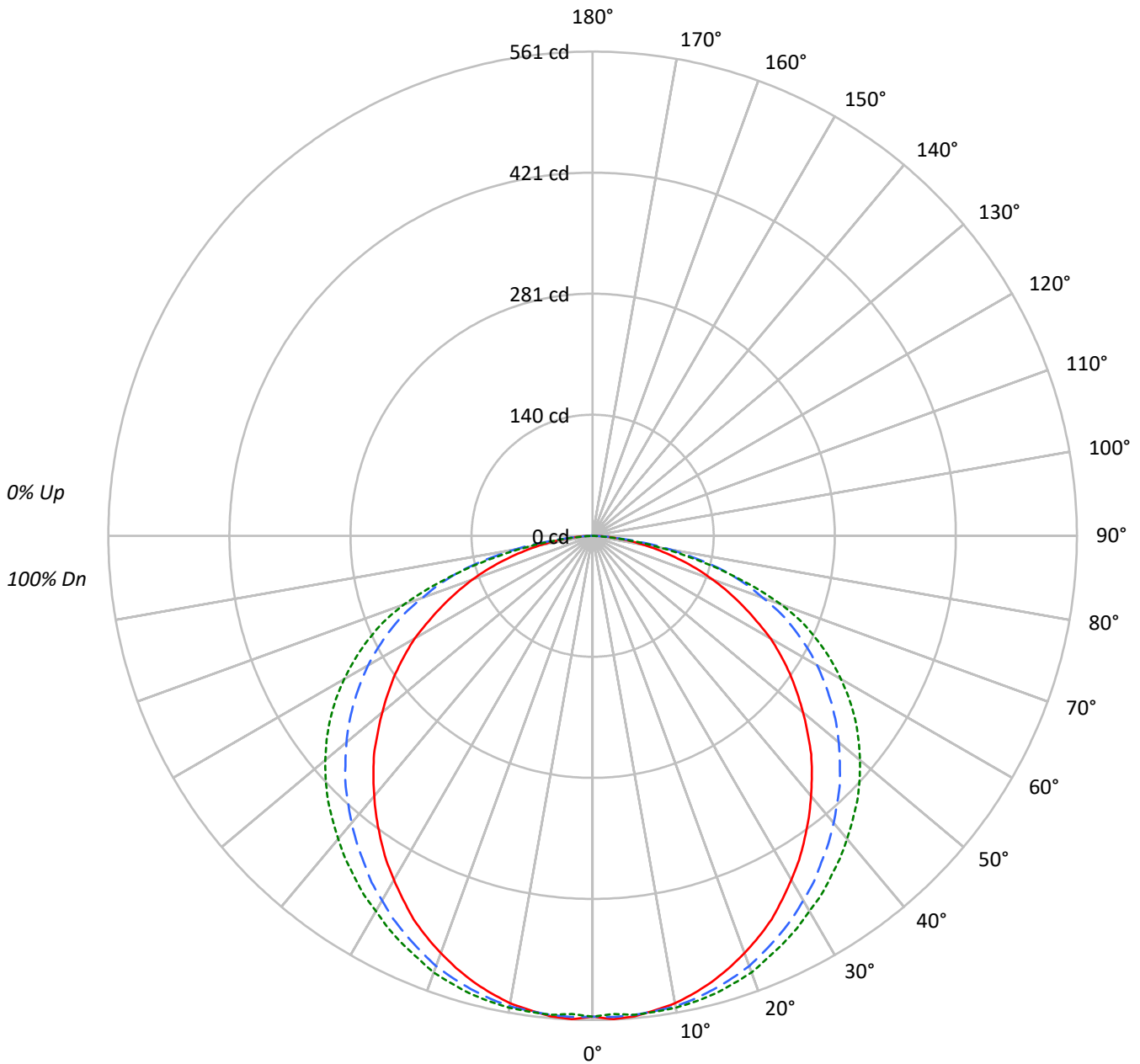
Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732660

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-5000K

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° | 1573 | 1573 | 1573 |
| 5° | 1584 | 1579 | 1579 |
| 10° | 1576 | 1587 | 1592 |
| 15° | 1563 | 1589 | 1605 |
| 20° | 1545 | 1594 | 1618 |
| 25° | 1528 | 1591 | 1625 |
| 30° | 1500 | 1590 | 1636 |
| 35° | 1476 | 1592 | 1660 |
| 40° | 1450 | 1601 | 1689 |
| 45° | 1429 | 1617 | 1731 |
| 50° | 1397 | 1635 | 1775 |
| 55° | 1373 | 1662 | 1828 |
| 60° | 1344 | 1696 | 1876 |
| 65° | 1282 | 1727 | 1923 |
| 70° | 1217 | 1731 | 1921 |
| 75° | 1115 | 1725 | 1696 |
| 80° | 953 | 1473 | 1315 |
| 85° | 748 | 832 | 489 |



TEST NUMBER: P732660

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.0 | 3.0 |
| 10°-20° | 152.9 | 8.7 |
| 20°-30° | 233.9 | 13.3 |
| 30°-40° | 286.7 | 16.3 |
| 40°-50° | 308.3 | 17.5 |
| 50°-60° | 296.3 | 16.8 |
| 60°-70° | 246.7 | 14.0 |
| 70°-80° | 151.4 | 8.6 |
| 80°-90° | 33.7 | 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° | 439.8 | 24.9 |
| 0°-40° | 726.5 | 41.2 |
| 0°-60° | 1331.1 | 75.5 |
| 0°-90° | 1763.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1763.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 557 | 557 | 557 | 557 | 557 | |
| 5° | 559 | 554 | 557 | 557 | 557 | 53 |
| 15° | 535 | 533 | 544 | 547 | 549 | 151 |
| 25° | 490 | 495 | 511 | 517 | 522 | 226 |
| 35° | 428 | 439 | 462 | 474 | 482 | 268 |
| 45° | 358 | 374 | 405 | 424 | 434 | 276 |
| 55° | 279 | 303 | 338 | 361 | 371 | 249 |
| 65° | 192 | 221 | 258 | 280 | 288 | 190 |
| 75° | 102 | 133 | 158 | 157 | 156 | 108 |
| 85° | 23 | 35 | 26 | 18 | 15 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732660

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP375-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 557.2 | 557.2 | 557.2 | 557.2 | 557.2 |
| 2.5° | 560.6 | 555.3 | 558.0 | 557.2 | 554.5 |
| 5° | 558.9 | 553.6 | 557.2 | 557.2 | 557.2 |
| 7.5° | 554.5 | 550.0 | 555.3 | 556.2 | 556.2 |
| 10° | 550.0 | 546.5 | 553.6 | 554.5 | 555.3 |
| 12.5° | 542.9 | 540.2 | 549.2 | 550.9 | 552.6 |
| 15° | 534.9 | 533.2 | 543.8 | 547.3 | 549.2 |
| 17.5° | 525.2 | 526.0 | 537.6 | 542.0 | 543.8 |
| 20° | 514.5 | 517.2 | 530.5 | 534.9 | 538.5 |
| 22.5° | 502.9 | 506.5 | 520.7 | 526.0 | 529.6 |
| 25° | 490.5 | 494.9 | 510.9 | 517.2 | 521.6 |
| 27.5° | 475.3 | 482.5 | 500.3 | 508.3 | 512.7 |
| 30° | 460.3 | 468.3 | 487.9 | 497.6 | 502.0 |
| 32.5° | 445.2 | 454.0 | 476.3 | 486.0 | 493.2 |
| 35° | 428.3 | 439.0 | 462.0 | 474.5 | 481.6 |
| 37.5° | 411.4 | 423.9 | 448.7 | 462.9 | 470.9 |
| 40° | 393.6 | 407.0 | 434.4 | 450.5 | 458.5 |
| 42.5° | 375.8 | 391.0 | 419.4 | 437.2 | 446.0 |
| 45° | 358.1 | 374.1 | 405.1 | 423.9 | 433.6 |
| 47.5° | 337.7 | 357.2 | 388.3 | 409.6 | 419.4 |
| 50° | 318.1 | 339.4 | 372.3 | 394.6 | 404.3 |
| 52.5° | 298.5 | 320.8 | 355.4 | 378.5 | 388.3 |
| 55° | 279.0 | 303.0 | 337.7 | 360.7 | 371.4 |
| 57.5° | 258.5 | 283.4 | 319.0 | 343.0 | 352.7 |
| 60° | 238.1 | 263.9 | 300.4 | 322.5 | 332.3 |
| 62.5° | 214.1 | 244.4 | 279.9 | 302.1 | 311.0 |
| 65° | 191.9 | 221.2 | 258.5 | 279.9 | 287.9 |
| 67.5° | 169.8 | 199.9 | 236.4 | 255.9 | 263.0 |
| 70° | 147.5 | 177.8 | 209.7 | 228.4 | 232.8 |
| 72.5° | 125.3 | 155.5 | 185.8 | 196.4 | 194.6 |
| 75° | 102.2 | 133.3 | 158.2 | 157.3 | 155.5 |
| 77.5° | 80.0 | 110.2 | 125.3 | 119.0 | 116.5 |
| 80° | 58.6 | 88.0 | 90.6 | 84.4 | 80.9 |
| 82.5° | 40.0 | 63.0 | 56.9 | 49.7 | 46.2 |
| 85° | 23.1 | 34.6 | 25.7 | 17.7 | 15.1 |
| 87.5° | 9.7 | 8.9 | 2.7 | 2.7 | 1.7 |
| 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)