

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: P732587

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-RDP-B2750-W2D-CA08-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

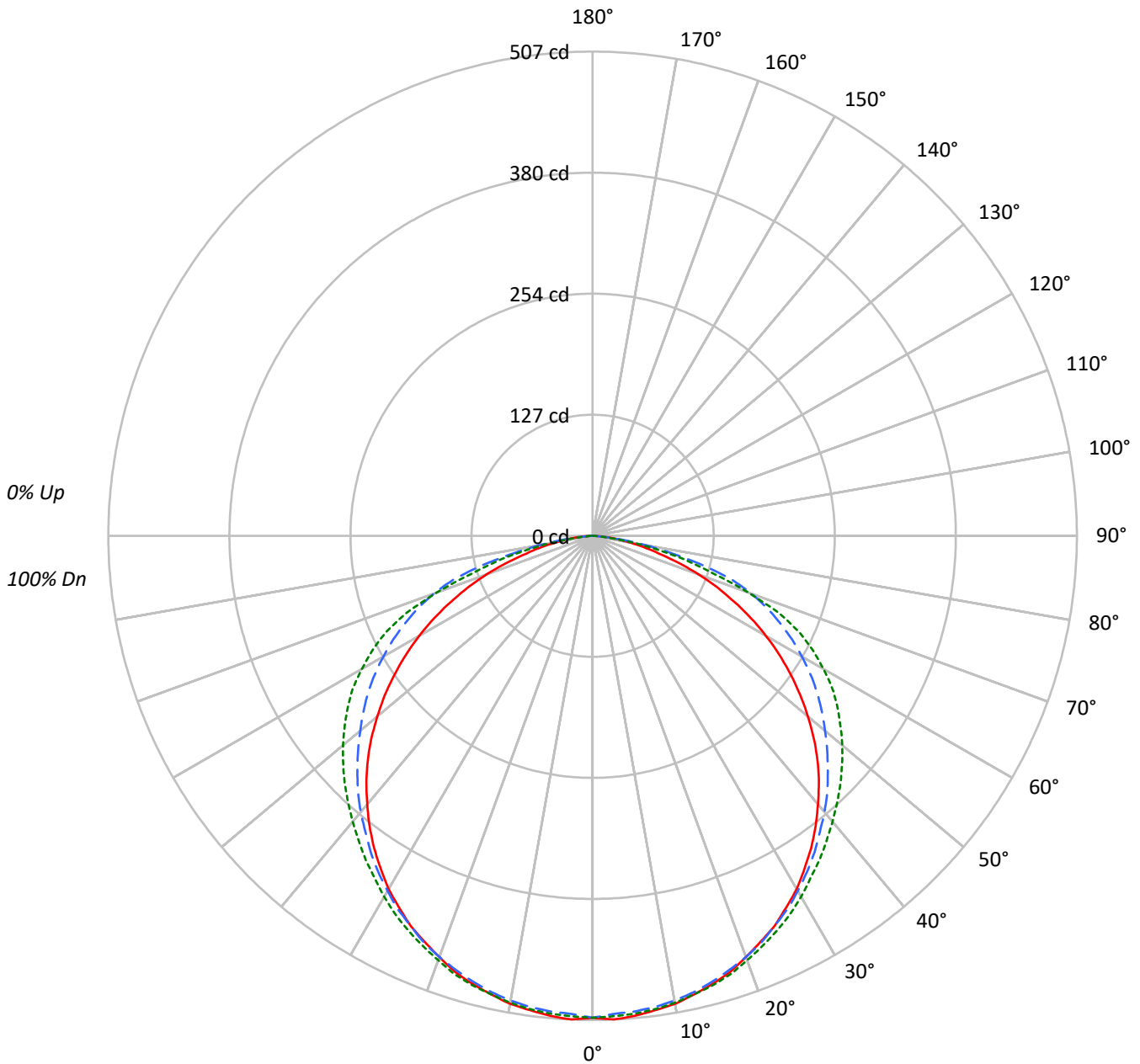
Lumens per Lamp: N/A
Luminaire Lumens: 1507.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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





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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 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 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 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1425 | 1425 | 1425 |
| 5° | 1430 | 1417 | 1424 |
| 10° | 1427 | 1416 | 1423 |
| 15° | 1420 | 1413 | 1423 |
| 20° | 1410 | 1410 | 1421 |
| 25° | 1404 | 1404 | 1421 |
| 30° | 1392 | 1400 | 1423 |
| 35° | 1375 | 1395 | 1427 |
| 40° | 1352 | 1392 | 1440 |
| 45° | 1329 | 1390 | 1465 |
| 50° | 1292 | 1395 | 1498 |
| 55° | 1245 | 1413 | 1540 |
| 60° | 1182 | 1428 | 1574 |
| 65° | 1092 | 1446 | 1595 |
| 70° | 971 | 1457 | 1427 |
| 75° | 783 | 1309 | 1142 |
| 80° | 611 | 918 | 746 |
| 85° | 421 | 266 | 191 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.8 | 3.2 |
| 10°-20° | 137.1 | 9.1 |
| 20°-30° | 208.7 | 13.8 |
| 30°-40° | 254.2 | 16.9 |
| 40°-50° | 269.7 | 17.9 |
| 50°-60° | 254.5 | 16.9 |
| 60°-70° | 205.5 | 13.6 |
| 70°-80° | 111.5 | 7.4 |
| 80°-90° | 18.0 | 1.2 |
| 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° | 393.5 | 26.1 |
| 0°-40° | 647.8 | 43.0 |
| 0°-60° | 1172.0 | 77.8 |
| 0°-90° | 1507.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1507.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 505 | 505 | 505 | 505 | 505 | |
| 5° | 505 | 504 | 500 | 504 | 502 | 48 |
| 15° | 486 | 485 | 484 | 487 | 487 | 137 |
| 25° | 451 | 450 | 451 | 455 | 456 | 207 |
| 35° | 399 | 401 | 405 | 413 | 414 | 249 |
| 45° | 333 | 338 | 348 | 361 | 367 | 256 |
| 55° | 253 | 264 | 287 | 306 | 313 | 226 |
| 65° | 164 | 184 | 216 | 234 | 239 | 162 |
| 75° | 72 | 105 | 120 | 108 | 105 | 78 |
| 85° | 13 | 14 | 8 | 7 | 6 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 14FCZ2-25-RDP-B2750-W2D-CA08-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 504.7 | 504.7 | 504.7 | 504.7 | 504.7 |
| 2.5° | 507.0 | 504.7 | 501.1 | 504.7 | 503.6 |
| 5° | 504.7 | 503.6 | 500.0 | 503.6 | 502.4 |
| 7.5° | 501.1 | 501.1 | 497.7 | 500.0 | 500.0 |
| 10° | 497.7 | 496.5 | 494.2 | 497.7 | 496.5 |
| 12.5° | 491.8 | 490.6 | 489.5 | 492.9 | 491.8 |
| 15° | 485.8 | 484.7 | 483.5 | 487.1 | 487.1 |
| 17.5° | 478.8 | 477.6 | 476.5 | 481.2 | 481.2 |
| 20° | 469.4 | 469.4 | 469.4 | 474.2 | 473.0 |
| 22.5° | 460.0 | 460.0 | 461.2 | 465.9 | 464.8 |
| 25° | 450.7 | 449.5 | 450.7 | 455.3 | 456.4 |
| 27.5° | 438.8 | 440.0 | 441.1 | 445.9 | 447.1 |
| 30° | 427.2 | 428.3 | 429.5 | 435.4 | 436.5 |
| 32.5° | 413.0 | 415.3 | 417.6 | 424.7 | 424.7 |
| 35° | 398.9 | 401.2 | 404.8 | 413.0 | 414.2 |
| 37.5° | 383.6 | 385.9 | 390.7 | 400.0 | 402.3 |
| 40° | 367.0 | 370.6 | 377.7 | 387.1 | 390.7 |
| 42.5° | 350.6 | 355.3 | 363.6 | 374.1 | 378.8 |
| 45° | 333.0 | 337.6 | 348.3 | 361.2 | 367.0 |
| 47.5° | 314.1 | 320.0 | 333.0 | 349.4 | 354.2 |
| 50° | 294.2 | 302.4 | 317.7 | 335.3 | 341.2 |
| 52.5° | 274.1 | 283.5 | 302.4 | 321.2 | 327.1 |
| 55° | 252.9 | 263.5 | 287.1 | 305.9 | 312.9 |
| 57.5° | 231.7 | 243.6 | 270.5 | 290.6 | 297.7 |
| 60° | 209.4 | 223.5 | 252.9 | 273.0 | 278.9 |
| 62.5° | 187.0 | 203.5 | 235.4 | 255.3 | 260.0 |
| 65° | 163.5 | 183.6 | 216.5 | 234.2 | 238.8 |
| 67.5° | 141.2 | 164.7 | 197.7 | 210.5 | 210.5 |
| 70° | 117.7 | 143.5 | 176.5 | 180.0 | 172.9 |
| 72.5° | 94.2 | 123.6 | 153.0 | 140.0 | 134.1 |
| 75° | 71.8 | 104.7 | 120.0 | 108.3 | 104.7 |
| 77.5° | 54.1 | 84.7 | 84.7 | 77.6 | 75.3 |
| 80° | 37.6 | 64.8 | 56.5 | 49.5 | 45.9 |
| 82.5° | 24.7 | 36.5 | 29.4 | 23.5 | 20.0 |
| 85° | 13.0 | 14.1 | 8.2 | 7.1 | 5.9 |
| 87.5° | 4.8 | 2.3 | 1.2 | 2.3 | 1.2 |
| 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)