

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: P734106

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-RDP-B2750-W2D-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

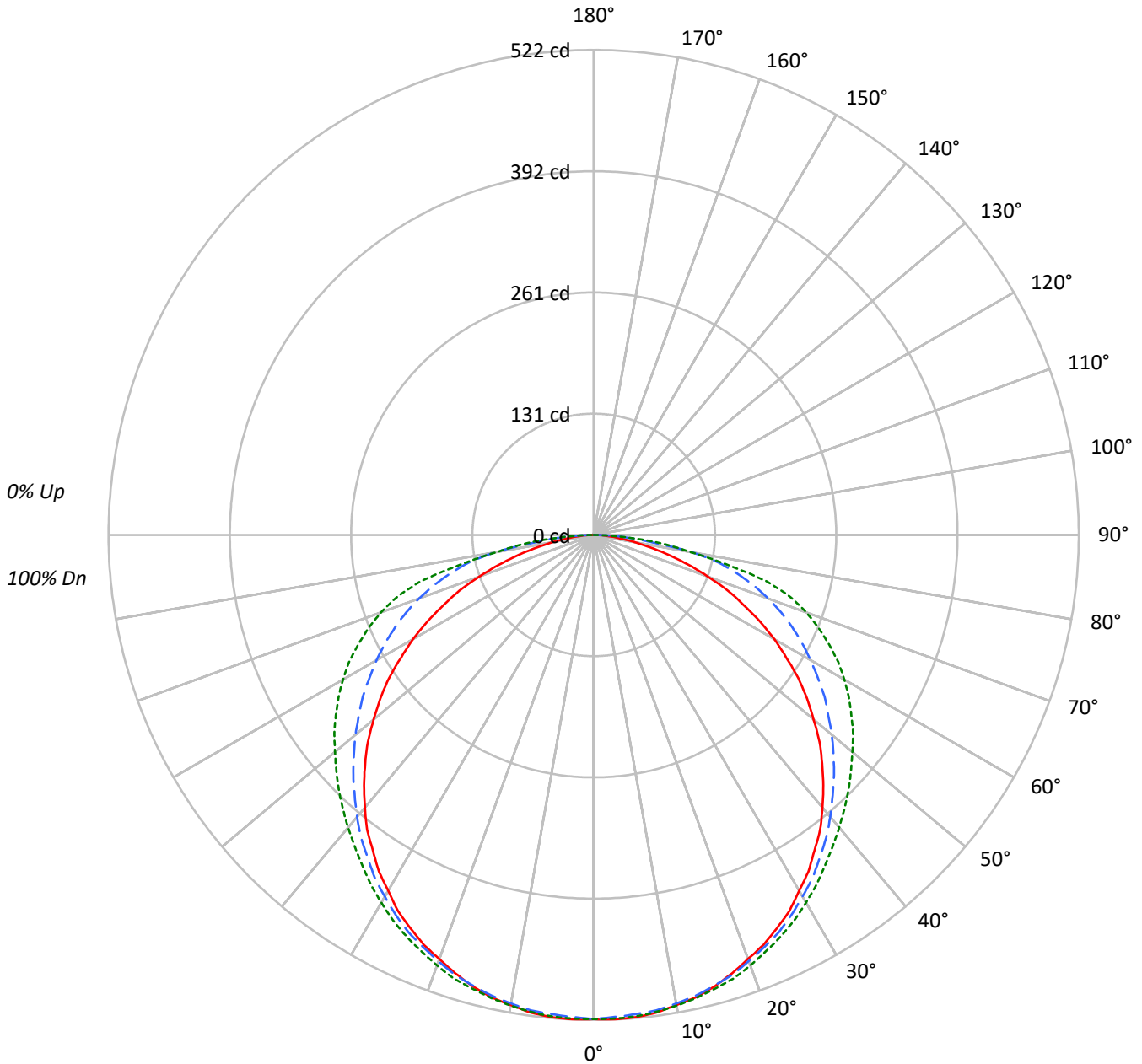
Lumens per Lamp: N/A
Luminaire Lumens: 1657.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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: P734106

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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 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 3 | 88 | 77 | 68 | 62 | 86 | 76 | 67 | 61 | 72 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 51 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 24 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|-----|------|
| 0° | 735 | 735 | 735 |
| 5° | 738 | 734 | 737 |
| 10° | 736 | 734 | 737 |
| 15° | 735 | 734 | 738 |
| 20° | 729 | 733 | 741 |
| 25° | 727 | 735 | 742 |
| 30° | 721 | 733 | 745 |
| 35° | 714 | 731 | 748 |
| 40° | 706 | 730 | 757 |
| 45° | 694 | 730 | 774 |
| 50° | 678 | 734 | 798 |
| 55° | 661 | 746 | 833 |
| 60° | 633 | 761 | 879 |
| 65° | 593 | 788 | 933 |
| 70° | 539 | 824 | 1004 |
| 75° | 457 | 870 | 1049 |
| 80° | 361 | 875 | 849 |
| 85° | 267 | 666 | 745 |



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CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP375-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.4 | 3.0 |
| 10°-20° | 142.3 | 8.6 |
| 20°-30° | 217.5 | 13.1 |
| 30°-40° | 265.9 | 16.0 |
| 40°-50° | 283.4 | 17.1 |
| 50°-60° | 271.0 | 16.4 |
| 60°-70° | 229.6 | 13.9 |
| 70°-80° | 154.3 | 9.3 |
| 80°-90° | 43.5 | 2.6 |
| 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° | 409.2 | 24.7 |
| 0°-40° | 675.2 | 40.7 |
| 0°-60° | 1229.6 | 74.2 |
| 0°-90° | 1657.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1657.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 521 | 521 | 521 | 521 | 521 | |
| 5° | 521 | 520 | 518 | 520 | 520 | 50 |
| 15° | 503 | 503 | 502 | 506 | 505 | 142 |
| 25° | 467 | 468 | 472 | 476 | 477 | 215 |
| 35° | 414 | 418 | 424 | 432 | 434 | 260 |
| 45° | 348 | 353 | 366 | 381 | 388 | 268 |
| 55° | 269 | 279 | 303 | 327 | 339 | 239 |
| 65° | 178 | 196 | 236 | 267 | 280 | 176 |
| 75° | 84 | 114 | 160 | 187 | 192 | 90 |
| 85° | 16 | 34 | 41 | 44 | 46 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P734106

CATALOG NUMBER: 24FCZ2-30HE-RDP-B2750-W2D-CP375-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 521.1 | 521.1 | 521.1 | 521.1 | 521.1 |
| 2.5° | 521.9 | 521.9 | 519.4 | 521.1 | 521.1 |
| 5° | 521.1 | 520.3 | 517.8 | 520.3 | 520.3 |
| 7.5° | 518.6 | 517.8 | 516.1 | 518.6 | 517.8 |
| 10° | 513.7 | 513.7 | 512.1 | 514.5 | 514.5 |
| 12.5° | 509.6 | 508.8 | 507.9 | 511.2 | 510.4 |
| 15° | 503.0 | 503.0 | 502.2 | 506.3 | 505.4 |
| 17.5° | 494.8 | 495.6 | 496.4 | 499.7 | 500.6 |
| 20° | 485.7 | 487.4 | 488.2 | 493.1 | 493.1 |
| 22.5° | 477.5 | 478.4 | 480.0 | 484.9 | 484.9 |
| 25° | 466.9 | 468.5 | 471.7 | 475.9 | 476.7 |
| 27.5° | 456.2 | 457.0 | 461.1 | 466.9 | 467.7 |
| 30° | 442.2 | 444.7 | 449.5 | 456.2 | 457.0 |
| 32.5° | 429.8 | 432.3 | 438.0 | 444.7 | 446.3 |
| 35° | 414.3 | 417.5 | 424.1 | 432.3 | 434.0 |
| 37.5° | 400.3 | 402.8 | 411.0 | 420.0 | 422.5 |
| 40° | 383.0 | 387.9 | 396.1 | 406.8 | 411.0 |
| 42.5° | 365.8 | 370.6 | 380.6 | 394.5 | 399.5 |
| 45° | 347.7 | 353.4 | 365.8 | 381.3 | 387.9 |
| 47.5° | 329.6 | 336.2 | 350.1 | 368.2 | 375.6 |
| 50° | 309.0 | 317.2 | 334.5 | 355.1 | 363.3 |
| 52.5° | 289.3 | 299.2 | 318.1 | 341.1 | 351.8 |
| 55° | 268.8 | 278.6 | 303.3 | 327.1 | 338.6 |
| 57.5° | 245.8 | 258.9 | 286.0 | 313.2 | 325.5 |
| 60° | 224.4 | 236.7 | 269.6 | 299.2 | 311.5 |
| 62.5° | 201.4 | 217.8 | 253.1 | 284.3 | 296.7 |
| 65° | 177.5 | 195.6 | 235.9 | 267.1 | 279.5 |
| 67.5° | 156.2 | 175.9 | 218.6 | 249.8 | 262.2 |
| 70° | 130.7 | 155.3 | 199.7 | 230.9 | 243.3 |
| 72.5° | 106.8 | 134.0 | 180.0 | 210.4 | 221.9 |
| 75° | 83.8 | 114.3 | 159.5 | 186.6 | 192.4 |
| 77.5° | 62.4 | 94.5 | 138.1 | 149.5 | 145.5 |
| 80° | 44.4 | 75.6 | 107.6 | 101.9 | 104.4 |
| 82.5° | 28.7 | 57.6 | 66.6 | 75.6 | 78.1 |
| 85° | 16.5 | 33.7 | 41.1 | 44.4 | 46.0 |
| 87.5° | 7.4 | 12.3 | 16.5 | 16.5 | 15.7 |
| 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)