

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:

Report Number: P731838

Luminaire Tested: **14CZ2-29-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer:
Product Line:
Catalog Number: 14CZ2-29-B2750-W2D-3500K
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

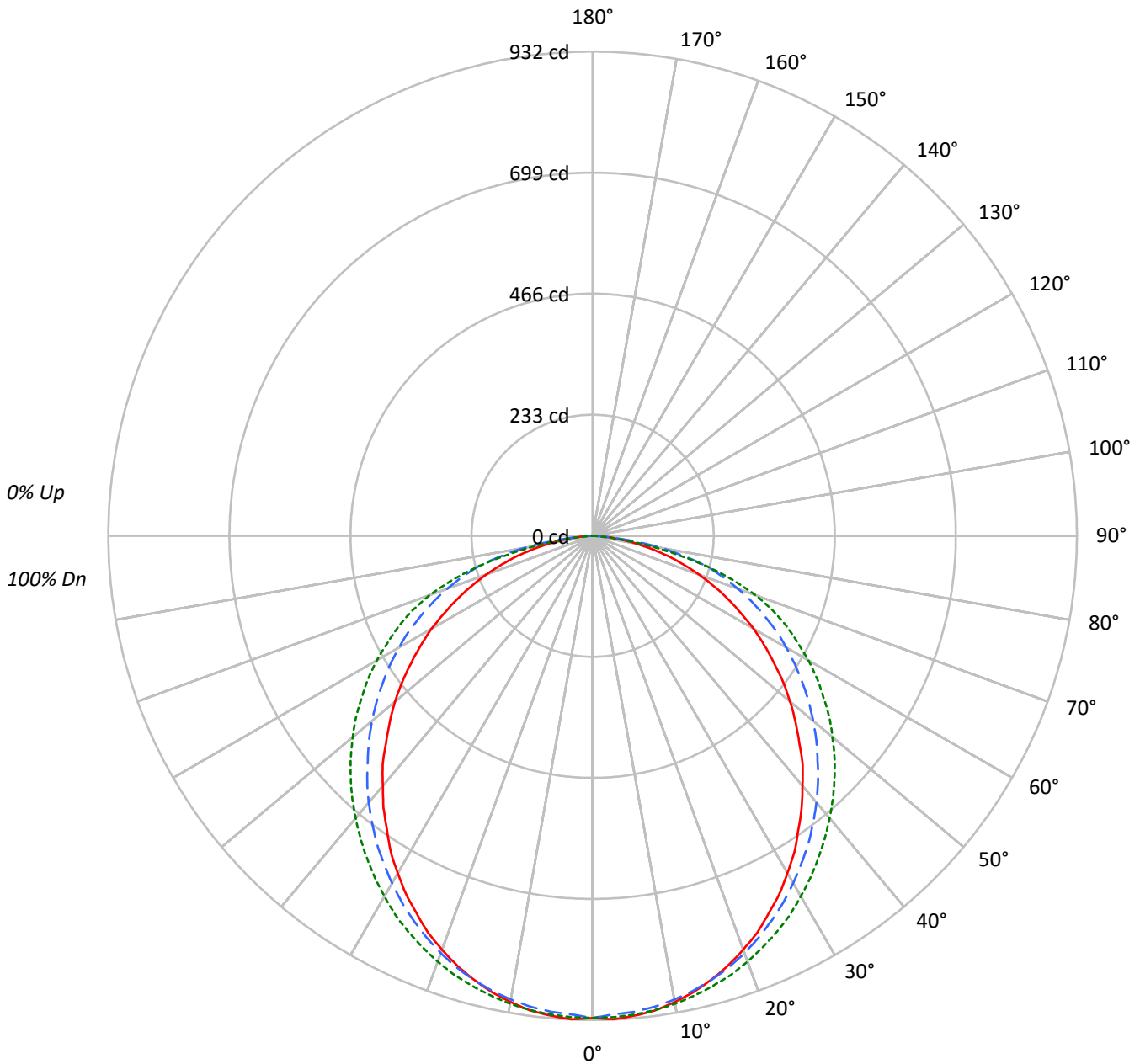
Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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: P731838

CATALOG NUMBER: 14CZ2-29-B2750-W2D-3500K

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 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 79 | 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 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2620 | 2620 | 2620 |
| 5° | 2628 | 2606 | 2621 |
| 10° | 2612 | 2598 | 2622 |
| 15° | 2584 | 2586 | 2621 |
| 20° | 2546 | 2568 | 2620 |
| 25° | 2498 | 2542 | 2618 |
| 30° | 2444 | 2516 | 2612 |
| 35° | 2379 | 2494 | 2610 |
| 40° | 2315 | 2470 | 2614 |
| 45° | 2245 | 2443 | 2628 |
| 50° | 2179 | 2432 | 2646 |
| 55° | 2096 | 2425 | 2669 |
| 60° | 2021 | 2429 | 2706 |
| 65° | 1918 | 2436 | 2748 |
| 70° | 1800 | 2454 | 2746 |
| 75° | 1630 | 2477 | 2483 |
| 80° | 1339 | 2138 | 1767 |
| 85° | 991 | 1014 | 408 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.8 | 3.3 |
| 10°-20° | 250.9 | 9.3 |
| 20°-30° | 377.9 | 14.0 |
| 30°-40° | 453.5 | 16.8 |
| 40°-50° | 472.7 | 17.5 |
| 50°-60° | 437.6 | 16.2 |
| 60°-70° | 353.6 | 13.1 |
| 70°-80° | 215.6 | 8.0 |
| 80°-90° | 44.5 | 1.7 |
| 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° | 716.6 | 26.6 |
| 0°-40° | 1170.1 | 43.4 |
| 0°-60° | 2080.4 | 77.2 |
| 0°-90° | 2694.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2694.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 928 | 928 | 928 | 928 | 928 | |
| 5° | 927 | 925 | 920 | 926 | 925 | 88 |
| 15° | 884 | 885 | 885 | 897 | 897 | 249 |
| 25° | 802 | 807 | 816 | 837 | 840 | 370 |
| 35° | 690 | 701 | 724 | 750 | 757 | 432 |
| 45° | 562 | 579 | 612 | 646 | 658 | 435 |
| 55° | 426 | 448 | 493 | 531 | 542 | 382 |
| 65° | 287 | 315 | 365 | 401 | 412 | 284 |
| 75° | 150 | 183 | 227 | 231 | 228 | 157 |
| 85° | 31 | 46 | 31 | 17 | 13 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731838

CATALOG NUMBER: 14CZ2-29-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 928.1 | 928.1 | 928.1 | 928.1 | 928.1 |
| 2.5° | 931.7 | 928.8 | 922.2 | 928.8 | 927.4 |
| 5° | 927.4 | 925.1 | 919.7 | 926.3 | 925.1 |
| 7.5° | 921.5 | 919.0 | 914.2 | 922.2 | 920.8 |
| 10° | 911.2 | 910.1 | 906.4 | 915.5 | 914.9 |
| 12.5° | 899.3 | 898.7 | 896.8 | 907.1 | 906.4 |
| 15° | 884.3 | 884.8 | 884.8 | 896.8 | 896.8 |
| 17.5° | 867.4 | 868.6 | 871.1 | 884.3 | 886.1 |
| 20° | 847.6 | 850.0 | 854.8 | 869.9 | 872.2 |
| 22.5° | 827.2 | 829.0 | 836.2 | 854.2 | 856.7 |
| 25° | 801.9 | 806.7 | 816.3 | 836.8 | 840.5 |
| 27.5° | 777.9 | 782.1 | 795.3 | 816.3 | 822.4 |
| 30° | 749.7 | 756.3 | 772.0 | 794.8 | 801.4 |
| 32.5° | 722.7 | 729.8 | 747.8 | 774.3 | 780.3 |
| 35° | 690.3 | 701.0 | 723.9 | 750.3 | 757.4 |
| 37.5° | 660.9 | 670.9 | 696.9 | 725.7 | 734.1 |
| 40° | 628.3 | 641.0 | 670.4 | 701.0 | 709.5 |
| 42.5° | 598.3 | 610.2 | 642.2 | 673.4 | 684.8 |
| 45° | 562.3 | 579.2 | 612.1 | 646.3 | 658.4 |
| 47.5° | 529.2 | 546.1 | 584.0 | 620.5 | 631.4 |
| 50° | 496.1 | 514.2 | 553.9 | 591.7 | 602.5 |
| 52.5° | 461.9 | 481.3 | 523.8 | 561.6 | 574.4 |
| 55° | 425.9 | 448.2 | 492.7 | 531.0 | 542.4 |
| 57.5° | 391.6 | 414.4 | 461.9 | 500.9 | 512.3 |
| 60° | 358.0 | 381.5 | 430.2 | 467.4 | 479.4 |
| 62.5° | 320.8 | 348.5 | 398.9 | 435.4 | 444.5 |
| 65° | 287.1 | 315.4 | 364.7 | 401.2 | 411.5 |
| 67.5° | 251.7 | 282.3 | 331.6 | 365.2 | 374.9 |
| 70° | 218.1 | 249.9 | 297.4 | 328.6 | 332.7 |
| 72.5° | 182.1 | 214.5 | 262.5 | 282.3 | 282.3 |
| 75° | 149.5 | 182.6 | 227.1 | 230.7 | 227.7 |
| 77.5° | 114.1 | 150.8 | 179.6 | 172.3 | 165.2 |
| 80° | 82.4 | 118.4 | 131.5 | 118.4 | 108.7 |
| 82.5° | 55.2 | 85.8 | 79.2 | 63.0 | 55.9 |
| 85° | 30.6 | 45.6 | 31.3 | 17.4 | 12.6 |
| 87.5° | 11.4 | 10.3 | 3.0 | 3.0 | 3.0 |
| 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)