

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: METALUX

Report Number: P731852

Luminaire Tested: **14CZ2-29-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-B2750-W2D-3000K
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

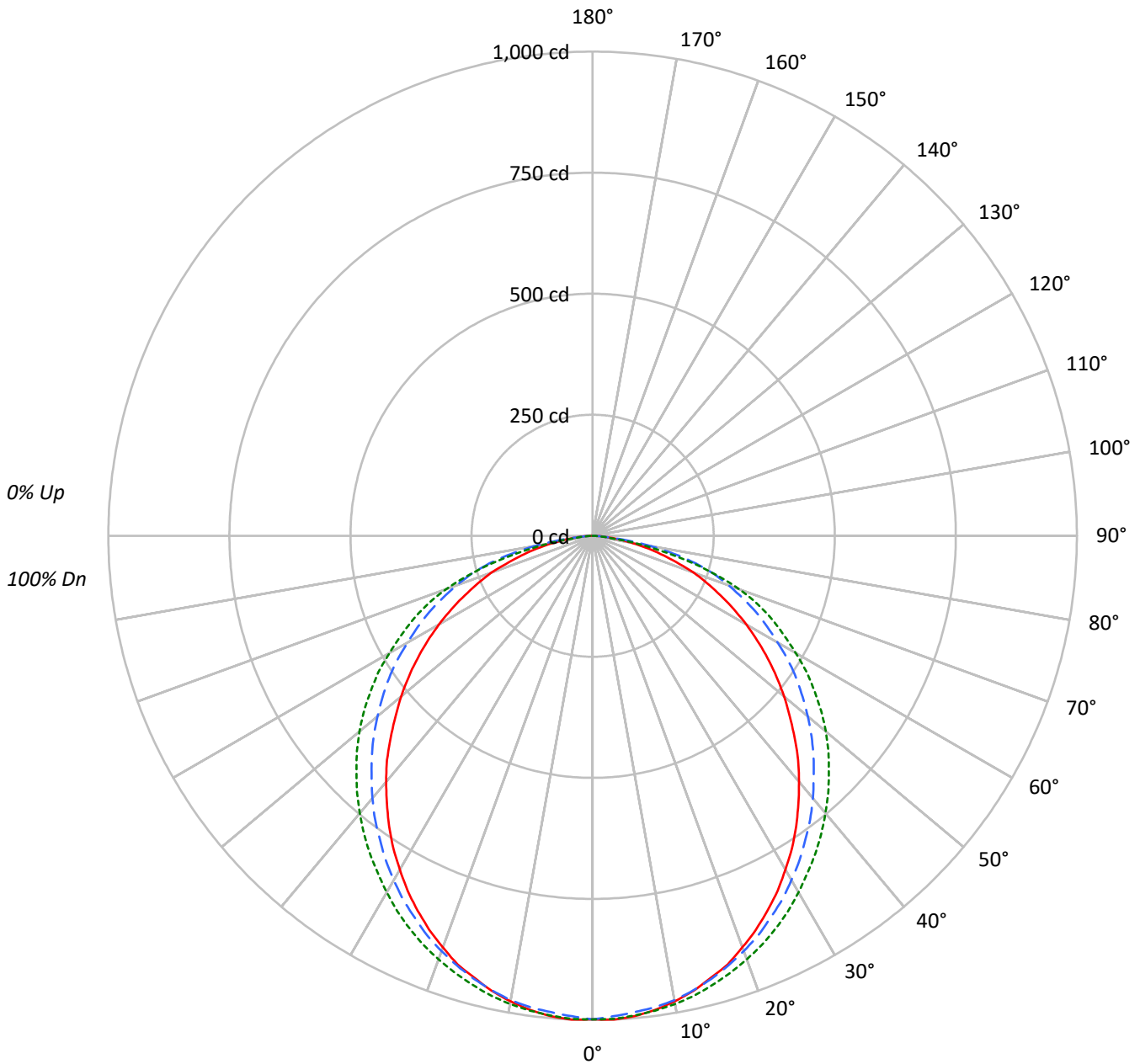
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
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

TEST NUMBER: P731852
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Luminous Intensity Polar Plot





TEST NUMBER: P731852

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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 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 71 | 65 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 35 | 46 | 40 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2819 | 2819 | 2819 |
| 5° | 2822 | 2799 | 2818 |
| 10° | 2799 | 2791 | 2815 |
| 15° | 2761 | 2769 | 2805 |
| 20° | 2717 | 2742 | 2796 |
| 25° | 2661 | 2709 | 2787 |
| 30° | 2595 | 2677 | 2772 |
| 35° | 2524 | 2639 | 2763 |
| 40° | 2443 | 2607 | 2755 |
| 45° | 2353 | 2575 | 2752 |
| 50° | 2266 | 2546 | 2759 |
| 55° | 2171 | 2527 | 2751 |
| 60° | 2068 | 2490 | 2733 |
| 65° | 1946 | 2483 | 2734 |
| 70° | 1832 | 2462 | 2656 |
| 75° | 1589 | 2406 | 2270 |
| 80° | 1284 | 1939 | 1512 |
| 85° | 852 | 670 | 450 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.3 | 3.4 |
| 10°-20° | 268.4 | 9.6 |
| 20°-30° | 402.6 | 14.4 |
| 30°-40° | 480.3 | 17.2 |
| 40°-50° | 496.5 | 17.7 |
| 50°-60° | 453.3 | 16.2 |
| 60°-70° | 356.7 | 12.7 |
| 70°-80° | 207.6 | 7.4 |
| 80°-90° | 38.2 | 1.4 |
| 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° | 765.3 | 27.4 |
| 0°-40° | 1245.6 | 44.5 |
| 0°-60° | 2195.4 | 78.5 |
| 0°-90° | 2798.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2798.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 999 | 999 | 999 | 999 | 999 | |
| 5° | 996 | 993 | 988 | 996 | 995 | 94 |
| 15° | 945 | 946 | 948 | 960 | 960 | 267 |
| 25° | 854 | 859 | 870 | 891 | 895 | 393 |
| 35° | 732 | 742 | 766 | 795 | 802 | 458 |
| 45° | 590 | 609 | 645 | 681 | 690 | 455 |
| 55° | 441 | 465 | 513 | 551 | 559 | 395 |
| 65° | 291 | 322 | 372 | 401 | 409 | 289 |
| 75° | 146 | 180 | 221 | 216 | 208 | 155 |
| 85° | 26 | 37 | 21 | 17 | 14 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P731852

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|-------|-------|--------|-------|
| 0° | 998.8 | 998.8 | 998.8 | 998.8 | 998.8 |
| 2.5° | 1000.2 | 997.5 | 993.2 | 1000.2 | 998.8 |
| 5° | 996.1 | 993.2 | 987.8 | 996.1 | 994.6 |
| 7.5° | 987.8 | 984.9 | 982.2 | 990.5 | 989.2 |
| 10° | 976.6 | 975.2 | 973.9 | 983.5 | 982.2 |
| 12.5° | 962.8 | 962.8 | 961.5 | 972.5 | 972.5 |
| 15° | 944.8 | 946.2 | 947.5 | 959.9 | 959.9 |
| 17.5° | 928.1 | 926.8 | 930.9 | 944.8 | 946.2 |
| 20° | 904.5 | 907.2 | 912.8 | 929.5 | 930.9 |
| 22.5° | 880.9 | 883.8 | 893.5 | 910.1 | 914.2 |
| 25° | 854.5 | 858.8 | 869.8 | 890.6 | 894.8 |
| 27.5° | 826.8 | 832.4 | 847.6 | 869.8 | 873.9 |
| 30° | 796.2 | 804.6 | 821.2 | 846.2 | 850.4 |
| 32.5° | 765.8 | 774.1 | 794.9 | 819.9 | 825.5 |
| 35° | 732.5 | 742.2 | 765.8 | 794.9 | 801.8 |
| 37.5° | 697.8 | 710.2 | 738.1 | 767.2 | 775.5 |
| 40° | 663.1 | 677.1 | 707.5 | 738.1 | 747.8 |
| 42.5° | 628.4 | 642.4 | 675.5 | 710.2 | 720.1 |
| 45° | 589.5 | 609.1 | 645.1 | 681.1 | 689.5 |
| 47.5° | 552.1 | 573.0 | 613.1 | 649.2 | 660.4 |
| 50° | 516.1 | 536.8 | 579.8 | 617.4 | 628.4 |
| 52.5° | 478.7 | 500.8 | 546.5 | 585.4 | 595.1 |
| 55° | 441.1 | 464.7 | 513.4 | 550.8 | 559.1 |
| 57.5° | 403.7 | 428.7 | 478.7 | 514.7 | 524.4 |
| 60° | 366.3 | 392.7 | 441.1 | 477.2 | 484.1 |
| 62.5° | 328.8 | 356.5 | 406.4 | 438.4 | 445.4 |
| 65° | 291.4 | 321.8 | 371.8 | 401.0 | 409.3 |
| 67.5° | 255.3 | 285.7 | 334.4 | 362.1 | 369.0 |
| 70° | 222.0 | 249.7 | 298.3 | 319.1 | 321.8 |
| 72.5° | 180.4 | 215.0 | 262.1 | 273.3 | 266.4 |
| 75° | 145.7 | 180.4 | 220.6 | 216.4 | 208.1 |
| 77.5° | 111.0 | 145.7 | 172.0 | 158.1 | 147.0 |
| 80° | 79.0 | 113.7 | 119.3 | 98.4 | 93.0 |
| 82.5° | 51.3 | 79.0 | 66.6 | 51.3 | 41.6 |
| 85° | 26.3 | 37.4 | 20.7 | 16.7 | 13.9 |
| 87.5° | 8.3 | 5.6 | 2.7 | 2.7 | 1.4 |
| 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)