

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: P732296

Luminaire Tested: **24CZ2-50-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732296
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: METALUX
Catalog Number: 24CZ2-50-RDP-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

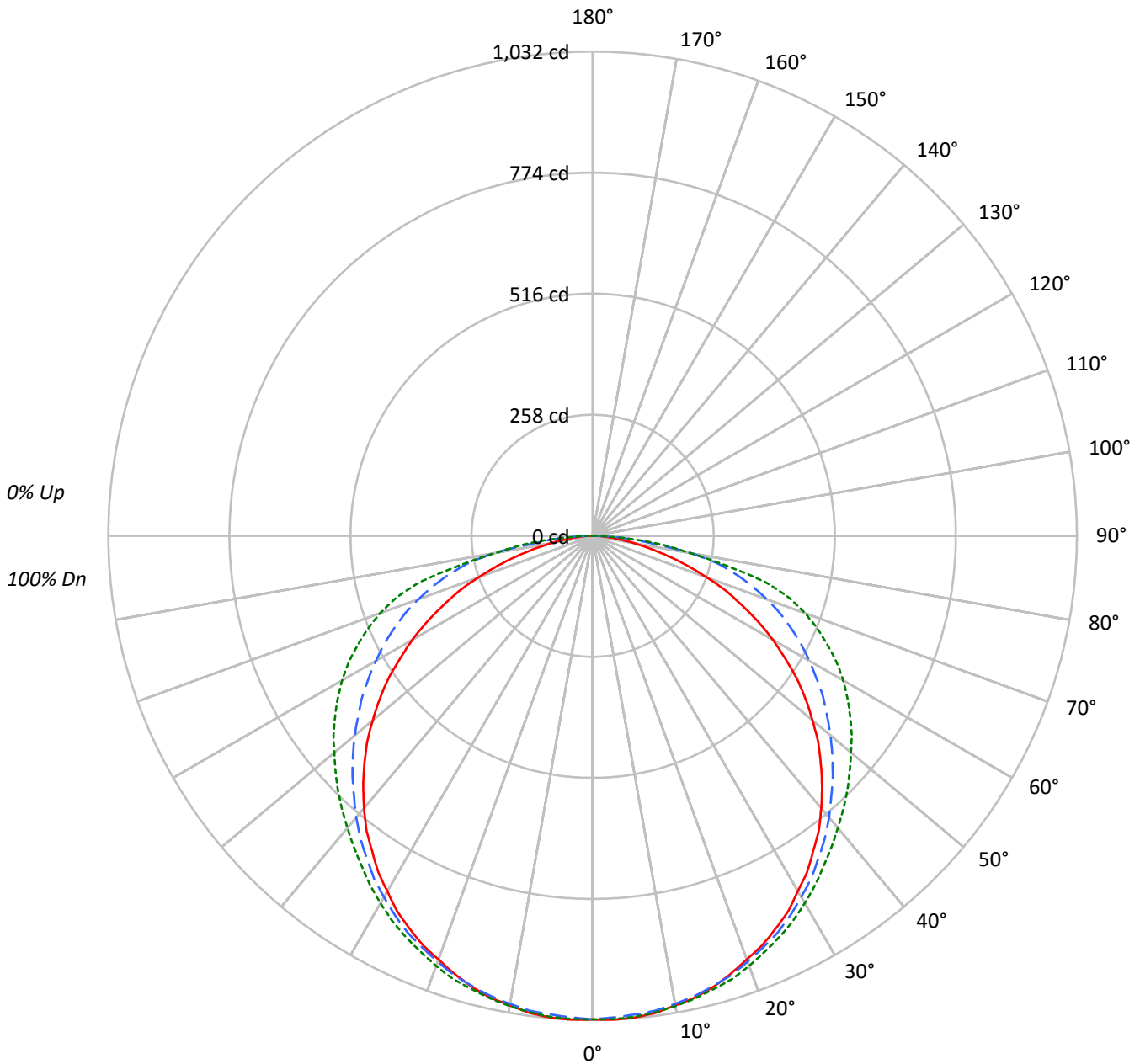
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 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 | | | | 100 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 | | | | 82 |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 69 | 67 | | | | 67 |
| 3 | 88 | 77 | 68 | 62 | 86 | 76 | 68 | 61 | 72 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | 56 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 57 | 51 | 62 | 55 | 50 | 59 | 54 | 49 | 47 | | | | 47 |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 51 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 | | | | 40 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 45 | 38 | 51 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | | | | 35 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 24 | | | | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 | | | | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1455 | 1455 | 1455 |
| 5° | 1460 | 1451 | 1458 |
| 10° | 1456 | 1452 | 1459 |
| 15° | 1454 | 1451 | 1461 |
| 20° | 1443 | 1451 | 1465 |
| 25° | 1438 | 1453 | 1468 |
| 30° | 1426 | 1449 | 1473 |
| 35° | 1412 | 1445 | 1479 |
| 40° | 1396 | 1444 | 1498 |
| 45° | 1373 | 1444 | 1532 |
| 50° | 1342 | 1453 | 1578 |
| 55° | 1308 | 1476 | 1648 |
| 60° | 1253 | 1505 | 1739 |
| 65° | 1173 | 1558 | 1846 |
| 70° | 1067 | 1630 | 1986 |
| 75° | 905 | 1720 | 2075 |
| 80° | 714 | 1730 | 1678 |
| 85° | 526 | 1318 | 1474 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.8 | 3.0 |
| 10°-20° | 281.4 | 8.6 |
| 20°-30° | 430.4 | 13.1 |
| 30°-40° | 526.1 | 16.0 |
| 40°-50° | 560.7 | 17.1 |
| 50°-60° | 536.1 | 16.4 |
| 60°-70° | 454.2 | 13.9 |
| 70°-80° | 305.2 | 9.3 |
| 80°-90° | 86.1 | 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° | 809.6 | 24.7 |
| 0°-40° | 1335.7 | 40.7 |
| 0°-60° | 2432.5 | 74.2 |
| 0°-90° | 3278.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3278.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1031 | 1031 | 1031 | 1031 | 1031 | |
| 5° | 1031 | 1029 | 1024 | 1029 | 1029 | 98 |
| 15° | 995 | 995 | 993 | 1002 | 1000 | 281 |
| 25° | 924 | 927 | 933 | 941 | 943 | 426 |
| 35° | 820 | 826 | 839 | 855 | 858 | 513 |
| 45° | 688 | 699 | 724 | 754 | 767 | 531 |
| 55° | 532 | 551 | 600 | 647 | 670 | 474 |
| 65° | 351 | 387 | 467 | 528 | 553 | 349 |
| 75° | 166 | 226 | 315 | 369 | 380 | 178 |
| 85° | 32 | 67 | 81 | 88 | 91 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1030.8 | 1030.8 | 1030.8 | 1030.8 | 1030.8 |
| 2.5° | 1032.4 | 1032.4 | 1027.5 | 1030.8 | 1030.8 |
| 5° | 1030.8 | 1029.3 | 1024.4 | 1029.3 | 1029.3 |
| 7.5° | 1025.9 | 1024.4 | 1021.0 | 1025.9 | 1024.4 |
| 10° | 1016.1 | 1016.1 | 1013.0 | 1017.9 | 1017.9 |
| 12.5° | 1008.1 | 1006.5 | 1004.8 | 1011.2 | 1009.7 |
| 15° | 995.2 | 995.2 | 993.4 | 1001.6 | 999.9 |
| 17.5° | 978.9 | 980.5 | 982.0 | 988.5 | 990.3 |
| 20° | 960.9 | 964.2 | 965.8 | 975.6 | 975.6 |
| 22.5° | 944.6 | 946.3 | 949.5 | 959.3 | 959.3 |
| 25° | 923.6 | 926.7 | 933.2 | 941.4 | 943.0 |
| 27.5° | 902.4 | 904.0 | 912.2 | 923.6 | 925.2 |
| 30° | 874.8 | 879.7 | 889.3 | 902.4 | 904.0 |
| 32.5° | 850.3 | 855.2 | 866.6 | 879.7 | 882.8 |
| 35° | 819.5 | 826.0 | 838.9 | 855.2 | 858.5 |
| 37.5° | 791.9 | 796.8 | 813.0 | 830.9 | 835.8 |
| 40° | 757.7 | 767.4 | 783.6 | 804.8 | 813.0 |
| 42.5° | 723.6 | 733.2 | 752.8 | 780.5 | 790.3 |
| 45° | 687.8 | 699.1 | 723.6 | 754.4 | 767.4 |
| 47.5° | 652.1 | 665.0 | 692.7 | 728.3 | 743.0 |
| 50° | 611.3 | 627.6 | 661.7 | 702.5 | 718.7 |
| 52.5° | 572.3 | 591.9 | 629.3 | 674.8 | 696.0 |
| 55° | 531.7 | 551.1 | 599.9 | 647.2 | 669.9 |
| 57.5° | 486.2 | 512.1 | 565.8 | 619.5 | 643.8 |
| 60° | 443.9 | 468.2 | 533.3 | 591.9 | 616.2 |
| 62.5° | 398.4 | 430.9 | 500.7 | 562.5 | 587.0 |
| 65° | 351.1 | 387.0 | 466.6 | 528.4 | 552.9 |
| 67.5° | 309.0 | 348.0 | 432.5 | 494.2 | 518.8 |
| 70° | 258.6 | 307.2 | 395.0 | 456.8 | 481.3 |
| 72.5° | 211.3 | 265.1 | 356.0 | 416.2 | 439.0 |
| 75° | 165.9 | 226.0 | 315.4 | 369.2 | 380.5 |
| 77.5° | 123.5 | 187.0 | 273.1 | 295.8 | 287.8 |
| 80° | 87.8 | 149.6 | 212.9 | 201.5 | 206.4 |
| 82.5° | 56.9 | 113.9 | 131.7 | 149.6 | 154.5 |
| 85° | 32.5 | 66.7 | 81.4 | 87.8 | 91.0 |
| 87.5° | 14.7 | 24.3 | 32.5 | 32.5 | 31.0 |
| 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)