

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: P732321

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732321
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: 24CZ2-50HE-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

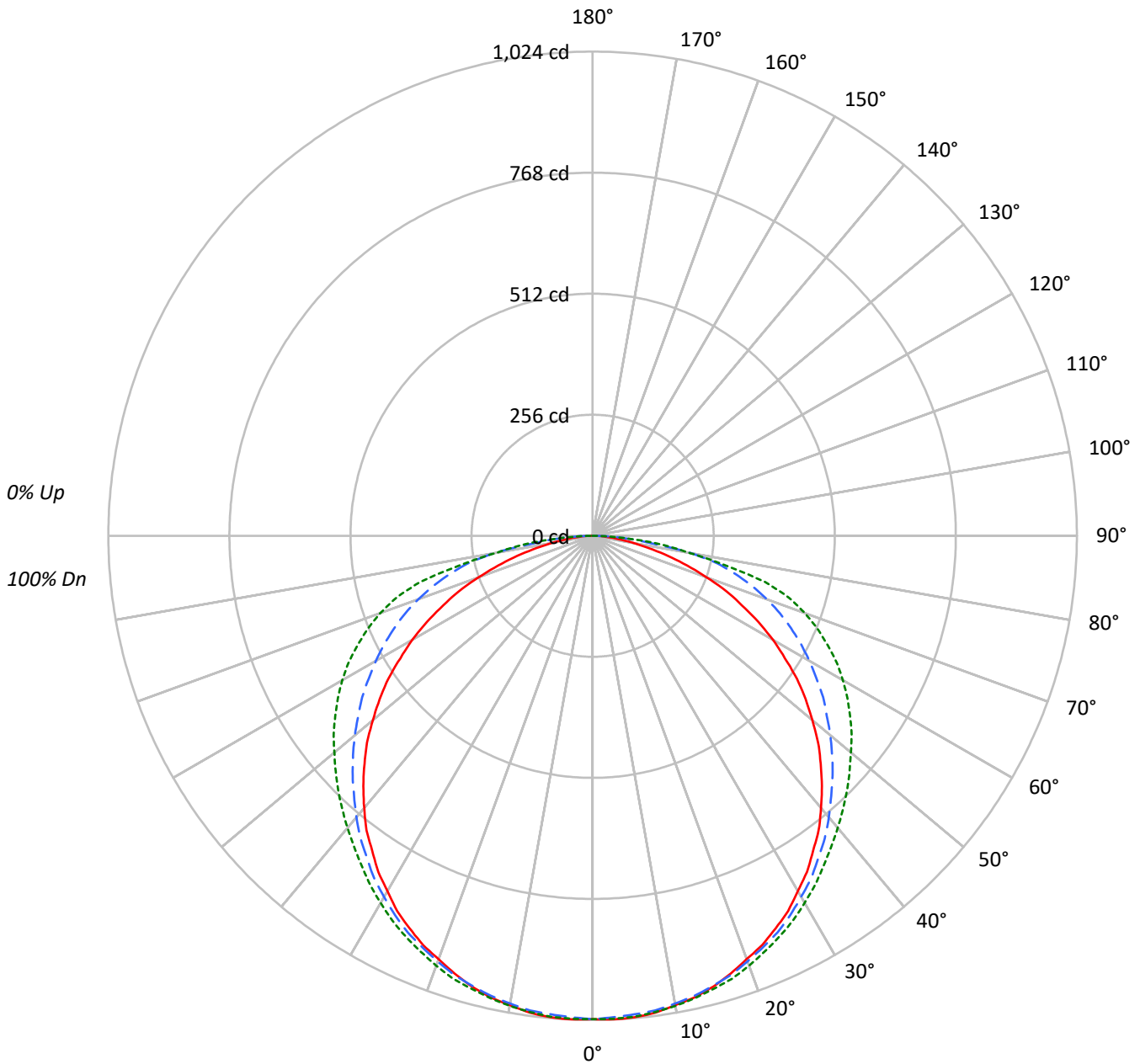
Lumens per Lamp: N/A
Luminaire Lumens: 3251.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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 | | | | |
| 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 | | | |
| 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° | 1443 | 1443 | 1443 |
| 5° | 1448 | 1439 | 1446 |
| 10° | 1444 | 1440 | 1447 |
| 15° | 1442 | 1440 | 1449 |
| 20° | 1431 | 1439 | 1453 |
| 25° | 1426 | 1441 | 1456 |
| 30° | 1414 | 1437 | 1461 |
| 35° | 1400 | 1433 | 1467 |
| 40° | 1385 | 1432 | 1486 |
| 45° | 1361 | 1432 | 1519 |
| 50° | 1331 | 1441 | 1565 |
| 55° | 1297 | 1464 | 1635 |
| 60° | 1243 | 1493 | 1725 |
| 65° | 1163 | 1546 | 1831 |
| 70° | 1058 | 1617 | 1970 |
| 75° | 897 | 1706 | 2058 |
| 80° | 708 | 1717 | 1664 |
| 85° | 523 | 1307 | 1461 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.0 | 3.0 |
| 10°-20° | 279.1 | 8.6 |
| 20°-30° | 426.8 | 13.1 |
| 30°-40° | 521.8 | 16.0 |
| 40°-50° | 556.1 | 17.1 |
| 50°-60° | 531.7 | 16.4 |
| 60°-70° | 450.4 | 13.9 |
| 70°-80° | 302.7 | 9.3 |
| 80°-90° | 85.4 | 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° | 802.9 | 24.7 |
| 0°-40° | 1324.7 | 40.7 |
| 0°-60° | 2412.5 | 74.2 |
| 0°-90° | 3251.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3251.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1022 | 1022 | 1022 | 1022 | 1022 | |
| 5° | 1022 | 1021 | 1016 | 1021 | 1021 | 97 |
| 15° | 987 | 987 | 985 | 993 | 992 | 278 |
| 25° | 916 | 919 | 926 | 934 | 935 | 422 |
| 35° | 813 | 819 | 832 | 848 | 851 | 509 |
| 45° | 682 | 693 | 718 | 748 | 761 | 526 |
| 55° | 527 | 547 | 595 | 642 | 664 | 470 |
| 65° | 348 | 384 | 463 | 524 | 548 | 346 |
| 75° | 164 | 224 | 313 | 366 | 377 | 176 |
| 85° | 32 | 66 | 81 | 87 | 90 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732321

CATALOG NUMBER: 24CZ2-50HE-RDP-B2750-W2D-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1022.4 | 1022.4 | 1022.4 | 1022.4 | 1022.4 |
| 2.5° | 1023.9 | 1023.9 | 1019.1 | 1022.4 | 1022.4 |
| 5° | 1022.4 | 1020.8 | 1015.9 | 1020.8 | 1020.8 |
| 7.5° | 1017.5 | 1015.9 | 1012.6 | 1017.5 | 1015.9 |
| 10° | 1007.8 | 1007.8 | 1004.7 | 1009.5 | 1009.5 |
| 12.5° | 999.8 | 998.2 | 996.5 | 1002.9 | 1001.4 |
| 15° | 987.0 | 987.0 | 985.2 | 993.4 | 991.6 |
| 17.5° | 970.8 | 972.4 | 973.9 | 980.4 | 982.1 |
| 20° | 952.9 | 956.2 | 957.8 | 967.5 | 967.5 |
| 22.5° | 936.8 | 938.6 | 941.7 | 951.4 | 951.4 |
| 25° | 916.0 | 919.1 | 925.5 | 933.7 | 935.2 |
| 27.5° | 895.0 | 896.6 | 904.7 | 916.0 | 917.6 |
| 30° | 867.6 | 872.4 | 882.0 | 895.0 | 896.6 |
| 32.5° | 843.3 | 848.1 | 859.4 | 872.4 | 875.6 |
| 35° | 812.8 | 819.2 | 832.0 | 848.1 | 851.4 |
| 37.5° | 785.3 | 790.2 | 806.3 | 824.0 | 828.9 |
| 40° | 751.5 | 761.0 | 777.2 | 798.2 | 806.3 |
| 42.5° | 717.7 | 727.2 | 746.6 | 774.1 | 783.8 |
| 45° | 682.1 | 693.4 | 717.7 | 748.2 | 761.0 |
| 47.5° | 646.7 | 659.5 | 687.0 | 722.3 | 736.9 |
| 50° | 606.3 | 622.4 | 656.2 | 696.7 | 712.8 |
| 52.5° | 567.6 | 587.0 | 624.1 | 669.3 | 690.3 |
| 55° | 527.3 | 546.6 | 595.0 | 641.8 | 664.4 |
| 57.5° | 482.2 | 507.9 | 561.1 | 614.4 | 638.5 |
| 60° | 440.2 | 464.3 | 528.9 | 587.0 | 611.1 |
| 62.5° | 395.1 | 427.4 | 496.6 | 557.8 | 582.1 |
| 65° | 348.2 | 383.8 | 462.8 | 524.0 | 548.3 |
| 67.5° | 306.4 | 345.1 | 428.9 | 490.2 | 514.5 |
| 70° | 256.5 | 304.7 | 391.8 | 453.0 | 477.3 |
| 72.5° | 209.6 | 262.9 | 353.1 | 412.8 | 435.3 |
| 75° | 164.5 | 224.2 | 312.9 | 366.1 | 377.4 |
| 77.5° | 122.5 | 185.5 | 270.9 | 293.4 | 285.4 |
| 80° | 87.1 | 148.4 | 211.2 | 199.9 | 204.7 |
| 82.5° | 56.4 | 113.0 | 130.7 | 148.4 | 153.2 |
| 85° | 32.3 | 66.1 | 80.7 | 87.1 | 90.2 |
| 87.5° | 14.6 | 24.1 | 32.3 | 32.3 | 30.7 |
| 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)