

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: P732325

Luminaire Tested: **24CZ2-50HE-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732325  
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-5000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

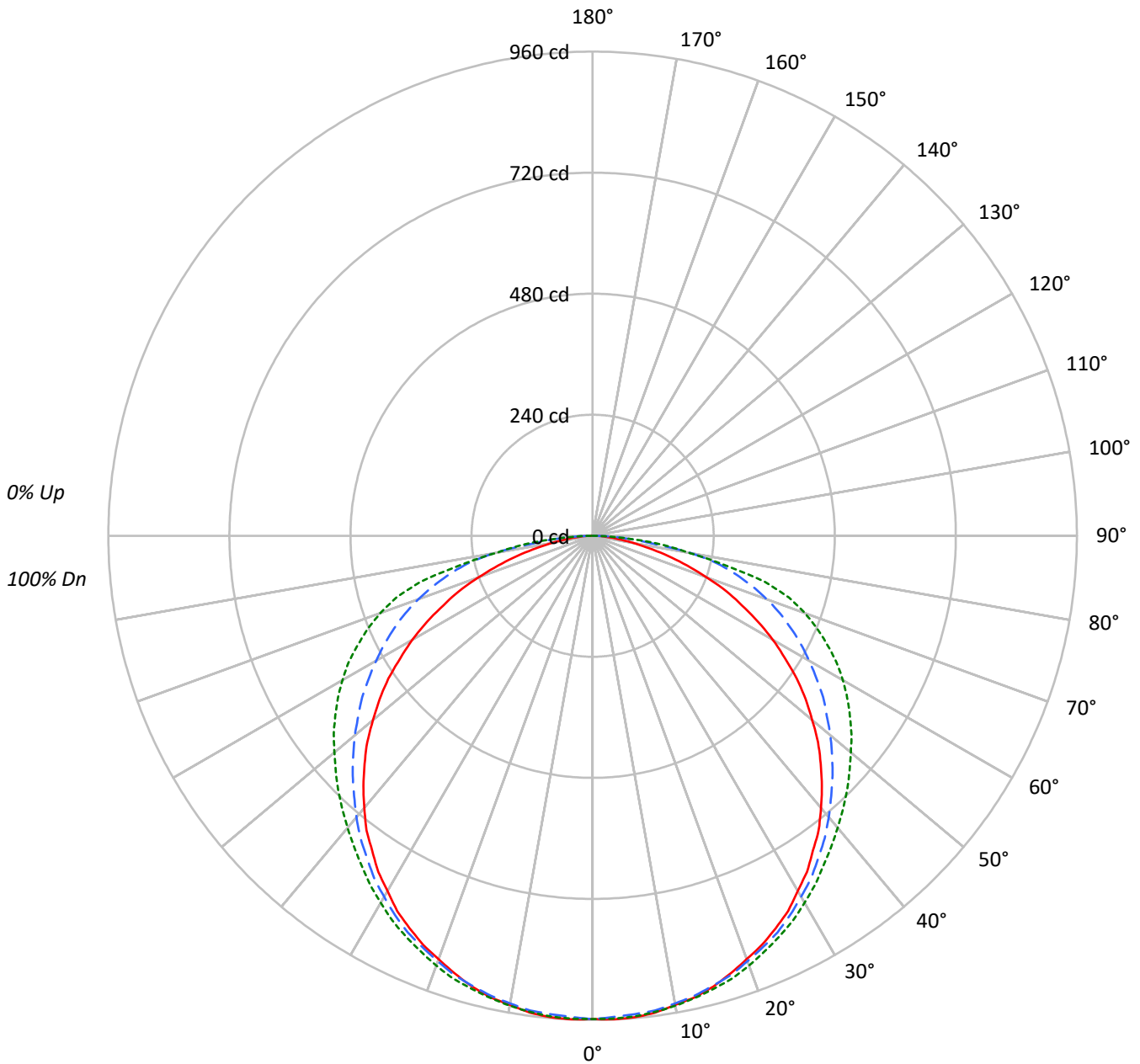
Lumens per Lamp: N/A  
Luminaire Lumens: 3047.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°  | 1352 | 1352 | 1352 |
| 5°  | 1358 | 1349 | 1355 |
| 10° | 1354 | 1349 | 1356 |
| 15° | 1352 | 1349 | 1358 |
| 20° | 1341 | 1348 | 1362 |
| 25° | 1337 | 1351 | 1365 |
| 30° | 1325 | 1347 | 1369 |
| 35° | 1313 | 1344 | 1375 |
| 40° | 1298 | 1342 | 1392 |
| 45° | 1276 | 1342 | 1424 |
| 50° | 1248 | 1351 | 1467 |
| 55° | 1216 | 1372 | 1532 |
| 60° | 1165 | 1399 | 1617 |
| 65° | 1090 | 1448 | 1716 |
| 70° | 992  | 1515 | 1846 |
| 75° | 841  | 1599 | 1929 |
| 80° | 663  | 1608 | 1560 |
| 85° | 491  | 1224 | 1370 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.9   | 3.0       |
| 10°-20°   | 261.6  | 8.6       |
| 20°-30°   | 400.0  | 13.1      |
| 30°-40°   | 489.0  | 16.0      |
| 40°-50°   | 521.2  | 17.1      |
| 50°-60°   | 498.4  | 16.4      |
| 60°-70°   | 422.1  | 13.9      |
| 70°-80°   | 283.7  | 9.3       |
| 80°-90°   | 80.0   | 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°    | 752.5  | 24.7      |
| 0°-40°    | 1241.5 | 40.7      |
| 0°-60°    | 2261.1 | 74.2      |
| 0°-90°    | 3047.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3047.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 958 | 958   | 958 | 958   | 958 |      |
| 5°  | 958 | 957   | 952 | 957   | 957 | 91   |
| 15° | 925 | 925   | 923 | 931   | 929 | 261  |
| 25° | 858 | 861   | 867 | 875   | 877 | 396  |
| 35° | 762 | 768   | 780 | 795   | 798 | 477  |
| 45° | 639 | 650   | 673 | 701   | 713 | 493  |
| 55° | 494 | 512   | 558 | 602   | 623 | 440  |
| 65° | 326 | 360   | 434 | 491   | 514 | 324  |
| 75° | 154 | 210   | 293 | 343   | 354 | 165  |
| 85° | 30  | 62    | 76  | 82    | 85  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 958.2 | 958.2 | 958.2 | 958.2 | 958.2 |
| 2.5°  | 959.7 | 959.7 | 955.1 | 958.2 | 958.2 |
| 5°    | 958.2 | 956.7 | 952.2 | 956.7 | 956.7 |
| 7.5°  | 953.6 | 952.2 | 949.1 | 953.6 | 952.2 |
| 10°   | 944.5 | 944.5 | 941.6 | 946.2 | 946.2 |
| 12.5° | 937.1 | 935.6 | 934.0 | 940.0 | 938.5 |
| 15°   | 925.0 | 925.0 | 923.4 | 931.1 | 929.4 |
| 17.5° | 909.9 | 911.4 | 912.8 | 918.8 | 920.5 |
| 20°   | 893.1 | 896.2 | 897.7 | 906.8 | 906.8 |
| 22.5° | 878.0 | 879.7 | 882.6 | 891.7 | 891.7 |
| 25°   | 858.5 | 861.4 | 867.4 | 875.1 | 876.6 |
| 27.5° | 838.8 | 840.3 | 848.0 | 858.5 | 860.0 |
| 30°   | 813.1 | 817.7 | 826.6 | 838.8 | 840.3 |
| 32.5° | 790.4 | 794.9 | 805.5 | 817.7 | 820.6 |
| 35°   | 761.8 | 767.8 | 779.8 | 794.9 | 798.0 |
| 37.5° | 736.1 | 740.6 | 755.7 | 772.3 | 776.9 |
| 40°   | 704.3 | 713.3 | 728.4 | 748.1 | 755.7 |
| 42.5° | 672.6 | 681.6 | 699.8 | 725.5 | 734.6 |
| 45°   | 639.3 | 649.9 | 672.6 | 701.2 | 713.3 |
| 47.5° | 606.1 | 618.1 | 643.8 | 677.0 | 690.7 |
| 50°   | 568.2 | 583.3 | 615.1 | 653.0 | 668.1 |
| 52.5° | 532.0 | 550.2 | 585.0 | 627.3 | 646.9 |
| 55°   | 494.2 | 512.3 | 557.6 | 601.6 | 622.7 |
| 57.5° | 451.9 | 476.0 | 525.9 | 575.9 | 598.5 |
| 60°   | 412.6 | 435.2 | 495.7 | 550.2 | 572.8 |
| 62.5° | 370.3 | 400.6 | 465.4 | 522.8 | 545.6 |
| 65°   | 326.4 | 359.7 | 433.7 | 491.1 | 513.9 |
| 67.5° | 287.2 | 323.5 | 402.0 | 459.4 | 482.2 |
| 70°   | 240.4 | 285.6 | 367.2 | 424.6 | 447.4 |
| 72.5° | 196.5 | 246.4 | 330.9 | 386.9 | 408.0 |
| 75°   | 154.2 | 210.1 | 293.2 | 343.2 | 353.7 |
| 77.5° | 114.8 | 173.9 | 253.9 | 275.0 | 267.5 |
| 80°   | 81.6  | 139.0 | 197.9 | 187.3 | 191.9 |
| 82.5° | 52.8  | 105.9 | 122.5 | 139.0 | 143.6 |
| 85°   | 30.3  | 62.0  | 75.6  | 81.6  | 84.6  |
| 87.5° | 13.7  | 22.6  | 30.3  | 30.3  | 28.8  |
| 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)