

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: P731834

Luminaire Tested: **14CZ2-25-SQR-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-SQR-B2750-W2D-4000K  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

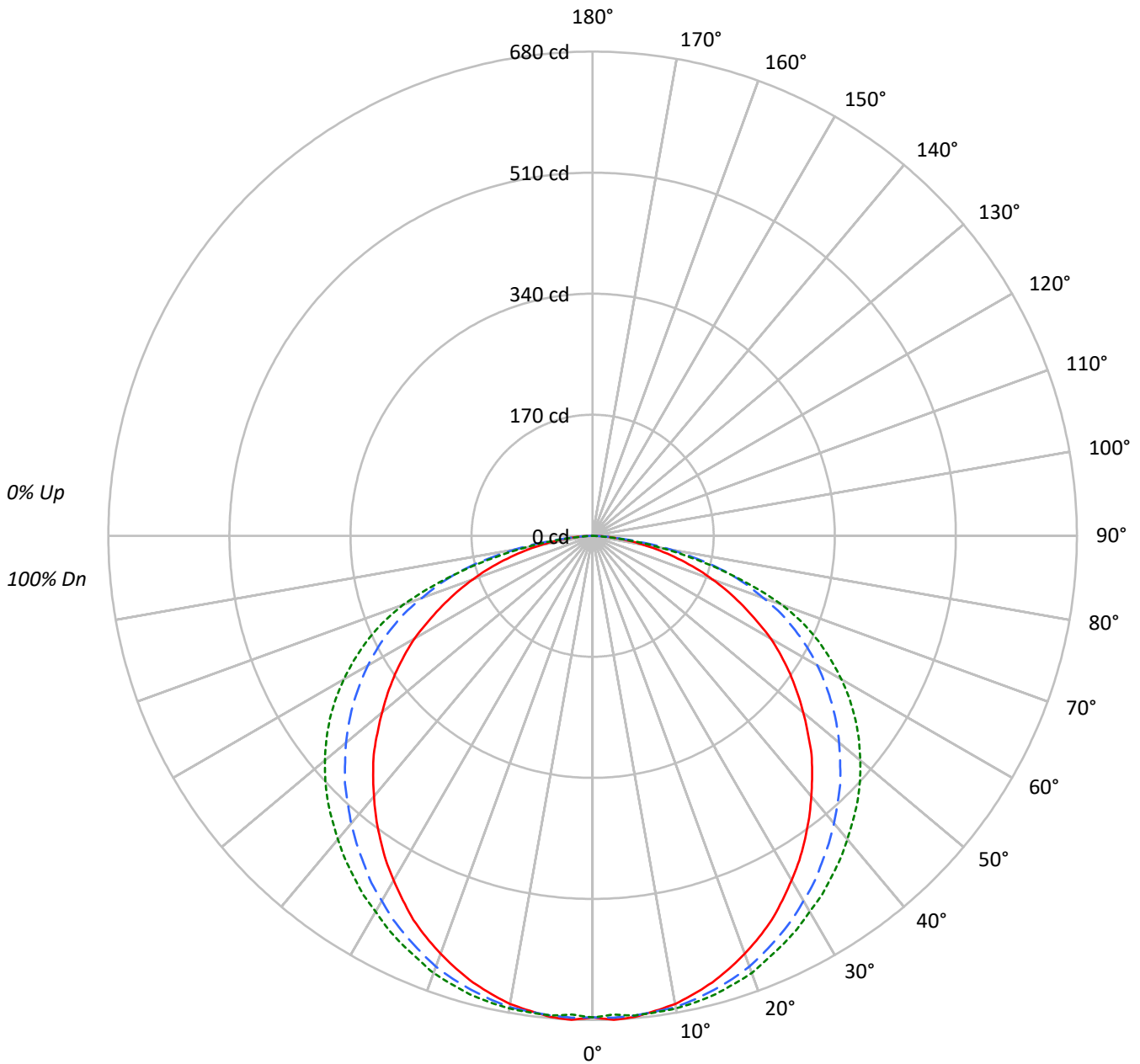
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2140.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): 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 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 83  |    |    |   |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  | 80  | 76  | 72  | 77  | 73  | 70  | 68  |    |    |   |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 56  |    |    |   |
| 4   | 81  | 68  | 59  | 52  | 79  | 67  | 59  | 52  | 65  | 57  | 51  | 62  | 56  | 51  | 60  | 54  | 50  | 48  |    |    |   |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 44  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 41  |    |    |   |
| 6   | 68  | 55  | 45  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 38  | 35  |    |    |   |
| 7   | 63  | 49  | 40  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 31  |    |    |   |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 28  |    |    |   |
| 9   | 55  | 41  | 33  | 27  | 54  | 41  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |   |
| 10  | 52  | 38  | 30  | 25  | 50  | 37  | 30  | 24  | 36  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1909 | 1909 | 1909 |
| 5°  | 1922 | 1916 | 1916 |
| 10° | 1914 | 1926 | 1932 |
| 15° | 1897 | 1929 | 1948 |
| 20° | 1876 | 1934 | 1963 |
| 25° | 1854 | 1931 | 1972 |
| 30° | 1821 | 1930 | 1986 |
| 35° | 1792 | 1932 | 2014 |
| 40° | 1760 | 1943 | 2051 |
| 45° | 1735 | 1963 | 2101 |
| 50° | 1695 | 1984 | 2155 |
| 55° | 1666 | 2017 | 2218 |
| 60° | 1632 | 2058 | 2277 |
| 65° | 1556 | 2096 | 2334 |
| 70° | 1477 | 2100 | 2332 |
| 75° | 1352 | 2094 | 2058 |
| 80° | 1156 | 1788 | 1596 |
| 85° | 910  | 1010 | 596  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 64.3   | 3.0       |
| 10°-20°   | 185.6  | 8.7       |
| 20°-30°   | 283.9  | 13.3      |
| 30°-40°   | 348.0  | 16.3      |
| 40°-50°   | 374.3  | 17.5      |
| 50°-60°   | 359.7  | 16.8      |
| 60°-70°   | 299.5  | 14.0      |
| 70°-80°   | 183.8  | 8.6       |
| 80°-90°   | 40.9   | 1.9       |
| 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°    | 533.8  | 24.9      |
| 0°-40°    | 881.8  | 41.2      |
| 0°-60°    | 1615.8 | 75.5      |
| 0°-90°    | 2140.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2140.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 676 | 676   | 676 | 676   | 676 |      |
| 5°  | 678 | 672   | 676 | 676   | 676 | 64   |
| 15° | 649 | 647   | 660 | 664   | 667 | 183  |
| 25° | 595 | 601   | 620 | 628   | 633 | 274  |
| 35° | 520 | 533   | 561 | 576   | 585 | 325  |
| 45° | 435 | 454   | 492 | 514   | 526 | 334  |
| 55° | 339 | 368   | 410 | 438   | 451 | 302  |
| 65° | 233 | 268   | 314 | 340   | 350 | 231  |
| 75° | 124 | 162   | 192 | 191   | 189 | 131  |
| 85° | 28  | 42    | 31  | 22    | 18  | 34   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 676.3 | 676.3 | 676.3 | 676.3 | 676.3 |
| 2.5°  | 680.5 | 674.1 | 677.4 | 676.3 | 673.0 |
| 5°    | 678.4 | 672.0 | 676.3 | 676.3 | 676.3 |
| 7.5°  | 673.0 | 667.7 | 674.1 | 675.1 | 675.1 |
| 10°   | 667.7 | 663.3 | 672.0 | 673.0 | 674.1 |
| 12.5° | 659.0 | 655.7 | 666.6 | 668.7 | 670.8 |
| 15°   | 649.3 | 647.2 | 660.0 | 664.4 | 666.6 |
| 17.5° | 637.5 | 638.5 | 652.6 | 657.9 | 660.0 |
| 20°   | 624.5 | 627.8 | 643.9 | 649.3 | 653.6 |
| 22.5° | 610.4 | 614.8 | 632.1 | 638.5 | 642.8 |
| 25°   | 595.3 | 600.7 | 620.1 | 627.8 | 633.1 |
| 27.5° | 577.0 | 585.6 | 607.3 | 617.0 | 622.4 |
| 30°   | 558.7 | 568.4 | 592.2 | 604.0 | 609.4 |
| 32.5° | 540.3 | 551.1 | 578.1 | 590.0 | 598.6 |
| 35°   | 519.9 | 532.9 | 560.8 | 575.9 | 584.6 |
| 37.5° | 499.4 | 514.5 | 544.7 | 561.9 | 571.6 |
| 40°   | 477.7 | 494.0 | 527.4 | 546.8 | 556.5 |
| 42.5° | 456.2 | 474.6 | 509.1 | 530.6 | 541.4 |
| 45°   | 434.7 | 454.1 | 491.8 | 514.5 | 526.3 |
| 47.5° | 409.9 | 433.6 | 471.3 | 497.2 | 509.1 |
| 50°   | 386.1 | 412.0 | 451.9 | 478.9 | 490.7 |
| 52.5° | 362.4 | 389.4 | 431.4 | 459.5 | 471.3 |
| 55°   | 338.6 | 367.8 | 409.9 | 437.8 | 450.8 |
| 57.5° | 313.8 | 344.0 | 387.2 | 416.3 | 428.1 |
| 60°   | 289.0 | 320.4 | 364.6 | 391.5 | 403.3 |
| 62.5° | 259.9 | 296.6 | 339.8 | 366.7 | 377.5 |
| 65°   | 233.0 | 268.5 | 313.8 | 339.8 | 349.5 |
| 67.5° | 206.1 | 242.7 | 286.9 | 310.7 | 319.2 |
| 70°   | 179.0 | 215.8 | 254.5 | 277.2 | 282.6 |
| 72.5° | 152.1 | 188.7 | 225.5 | 238.3 | 236.2 |
| 75°   | 124.0 | 161.8 | 192.0 | 191.0 | 188.7 |
| 77.5° | 97.1  | 133.7 | 152.1 | 144.5 | 141.4 |
| 80°   | 71.1  | 106.8 | 110.0 | 102.5 | 98.2  |
| 82.5° | 48.6  | 76.5  | 69.0  | 60.4  | 56.0  |
| 85°   | 28.1  | 42.0  | 31.2  | 21.5  | 18.4  |
| 87.5° | 11.8  | 10.8  | 3.3   | 3.3   | 2.1   |
| 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)