

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: P731815

Luminaire Tested: **14CZ2-25-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-B2750-W2D-5000K  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

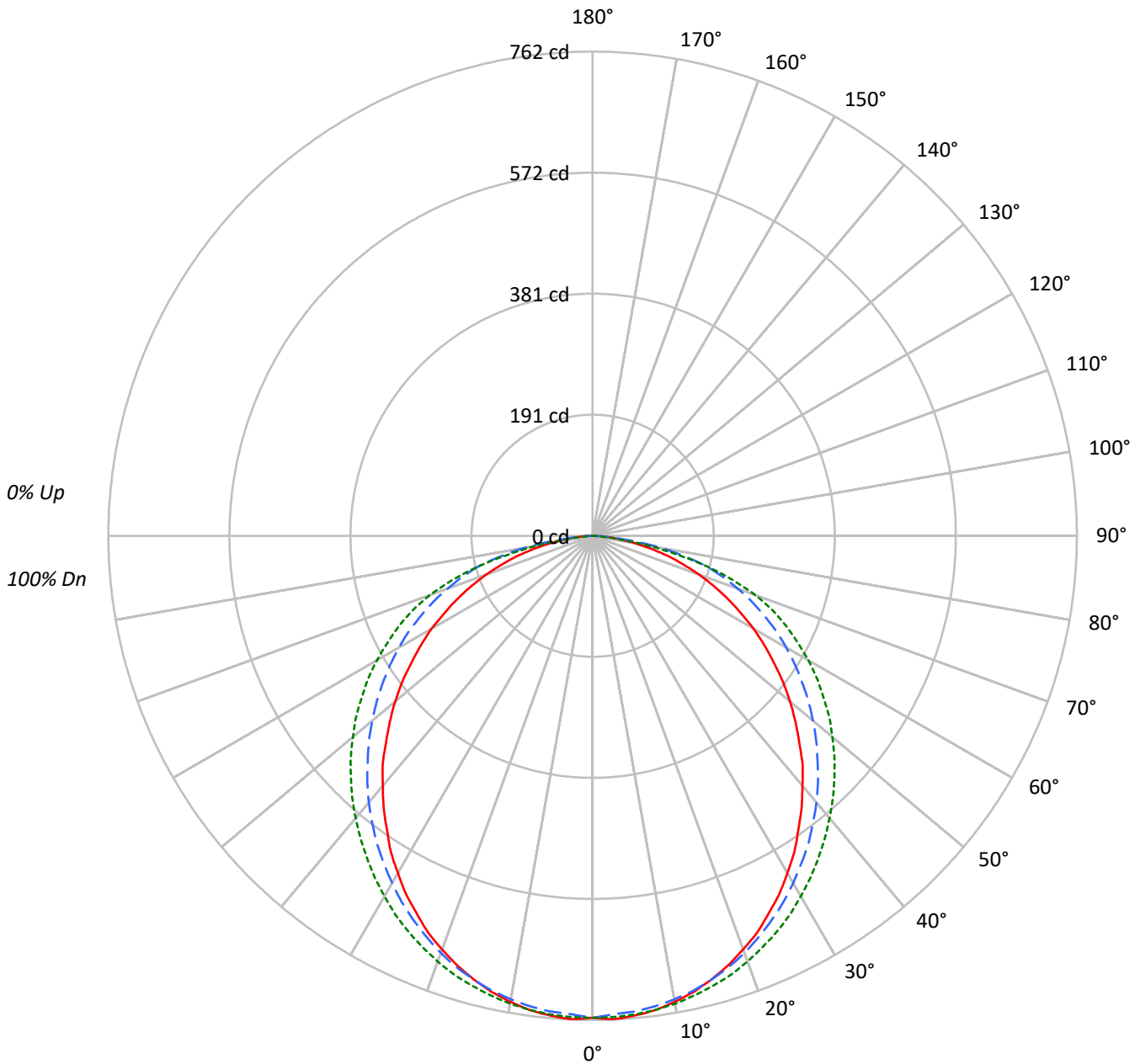
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2202.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
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 (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

TEST NUMBER: P731815  
CATALOG NUMBER: 14CZ2-25-B2750-W2D-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731815

CATALOG NUMBER: 14CZ2-25-B2750-W2D-5000K

**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 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 90  | 88  | 90  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2141 | 2141 | 2141 |
| 5°  | 2148 | 2130 | 2143 |
| 10° | 2135 | 2124 | 2143 |
| 15° | 2112 | 2113 | 2142 |
| 20° | 2081 | 2099 | 2141 |
| 25° | 2042 | 2078 | 2140 |
| 30° | 1997 | 2057 | 2135 |
| 35° | 1944 | 2039 | 2133 |
| 40° | 1892 | 2019 | 2137 |
| 45° | 1835 | 1997 | 2148 |
| 50° | 1781 | 1988 | 2162 |
| 55° | 1713 | 1982 | 2182 |
| 60° | 1652 | 1985 | 2212 |
| 65° | 1568 | 1991 | 2246 |
| 70° | 1472 | 2005 | 2245 |
| 75° | 1333 | 2024 | 2030 |
| 80° | 1094 | 1747 | 1443 |
| 85° | 810  | 826  | 334  |



TEST NUMBER: P731815  
 CATALOG NUMBER: 14CZ2-25-B2750-W2D-5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.8   | 3.3       |
| 10°-20°   | 205.1  | 9.3       |
| 20°-30°   | 308.9  | 14.0      |
| 30°-40°   | 370.7  | 16.8      |
| 40°-50°   | 386.4  | 17.5      |
| 50°-60°   | 357.7  | 16.2      |
| 60°-70°   | 289.0  | 13.1      |
| 70°-80°   | 176.2  | 8.0       |
| 80°-90°   | 36.4   | 1.7       |
| 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°    | 585.7  | 26.6      |
| 0°-40°    | 956.4  | 43.4      |
| 0°-60°    | 1700.5 | 77.2      |
| 0°-90°    | 2202.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2202.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 759 | 759   | 759 | 759   | 759 |      |
| 5°  | 758 | 756   | 752 | 757   | 756 | 72   |
| 15° | 723 | 723   | 723 | 733   | 733 | 204  |
| 25° | 656 | 659   | 667 | 684   | 687 | 302  |
| 35° | 564 | 573   | 592 | 613   | 619 | 353  |
| 45° | 460 | 473   | 500 | 528   | 538 | 355  |
| 55° | 348 | 366   | 403 | 434   | 443 | 312  |
| 65° | 235 | 258   | 298 | 328   | 336 | 232  |
| 75° | 122 | 149   | 186 | 189   | 186 | 128  |
| 85° | 25  | 37    | 26  | 14    | 10  | 31   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



TEST NUMBER: P731815

CATALOG NUMBER: 14CZ2-25-B2750-W2D-5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 |
| 2.5°  | 761.6 | 759.1 | 753.7 | 759.1 | 758.1 |
| 5°    | 758.1 | 756.2 | 751.7 | 757.1 | 756.2 |
| 7.5°  | 753.2 | 751.2 | 747.3 | 753.7 | 752.7 |
| 10°   | 744.8 | 743.9 | 740.9 | 748.3 | 747.8 |
| 12.5° | 735.1 | 734.5 | 733.1 | 741.4 | 740.9 |
| 15°   | 722.8 | 723.2 | 723.2 | 733.1 | 733.1 |
| 17.5° | 709.0 | 709.9 | 712.0 | 722.8 | 724.3 |
| 20°   | 692.8 | 694.8 | 698.7 | 711.0 | 712.9 |
| 22.5° | 676.2 | 677.6 | 683.4 | 698.2 | 700.2 |
| 25°   | 655.5 | 659.4 | 667.2 | 684.0 | 687.0 |
| 27.5° | 635.9 | 639.2 | 650.1 | 667.2 | 672.2 |
| 30°   | 612.8 | 618.2 | 631.0 | 649.7 | 655.1 |
| 32.5° | 590.7 | 596.5 | 611.3 | 632.9 | 637.8 |
| 35°   | 564.2 | 573.0 | 591.7 | 613.3 | 619.1 |
| 37.5° | 540.2 | 548.4 | 569.6 | 593.2 | 600.0 |
| 40°   | 513.5 | 523.9 | 548.0 | 573.0 | 579.9 |
| 42.5° | 489.1 | 498.8 | 524.9 | 550.4 | 559.8 |
| 45°   | 459.6 | 473.4 | 500.3 | 528.3 | 538.1 |
| 47.5° | 432.6 | 446.4 | 477.3 | 507.2 | 516.1 |
| 50°   | 405.5 | 420.3 | 452.7 | 483.7 | 492.4 |
| 52.5° | 377.5 | 393.4 | 428.1 | 459.1 | 469.5 |
| 55°   | 348.1 | 366.3 | 402.7 | 434.1 | 443.4 |
| 57.5° | 320.1 | 338.8 | 377.5 | 409.4 | 418.8 |
| 60°   | 292.7 | 311.9 | 351.6 | 382.0 | 391.9 |
| 62.5° | 262.2 | 284.8 | 326.0 | 355.9 | 363.4 |
| 65°   | 234.7 | 257.8 | 298.1 | 327.9 | 336.3 |
| 67.5° | 205.7 | 230.7 | 271.0 | 298.5 | 306.4 |
| 70°   | 178.3 | 204.3 | 243.0 | 268.6 | 272.0 |
| 72.5° | 148.8 | 175.3 | 214.5 | 230.7 | 230.7 |
| 75°   | 122.2 | 149.2 | 185.6 | 188.6 | 186.1 |
| 77.5° | 93.3  | 123.3 | 146.8 | 140.9 | 135.0 |
| 80°   | 67.3  | 96.8  | 107.5 | 96.8  | 88.8  |
| 82.5° | 45.1  | 70.2  | 64.7  | 51.5  | 45.7  |
| 85°   | 25.0  | 37.3  | 25.5  | 14.2  | 10.3  |
| 87.5° | 9.3   | 8.4   | 2.4   | 2.4   | 2.4   |
| 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)