

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: P731990

Luminaire Tested: **22CZ2-29HE-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-B2750-W2D-5000K  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

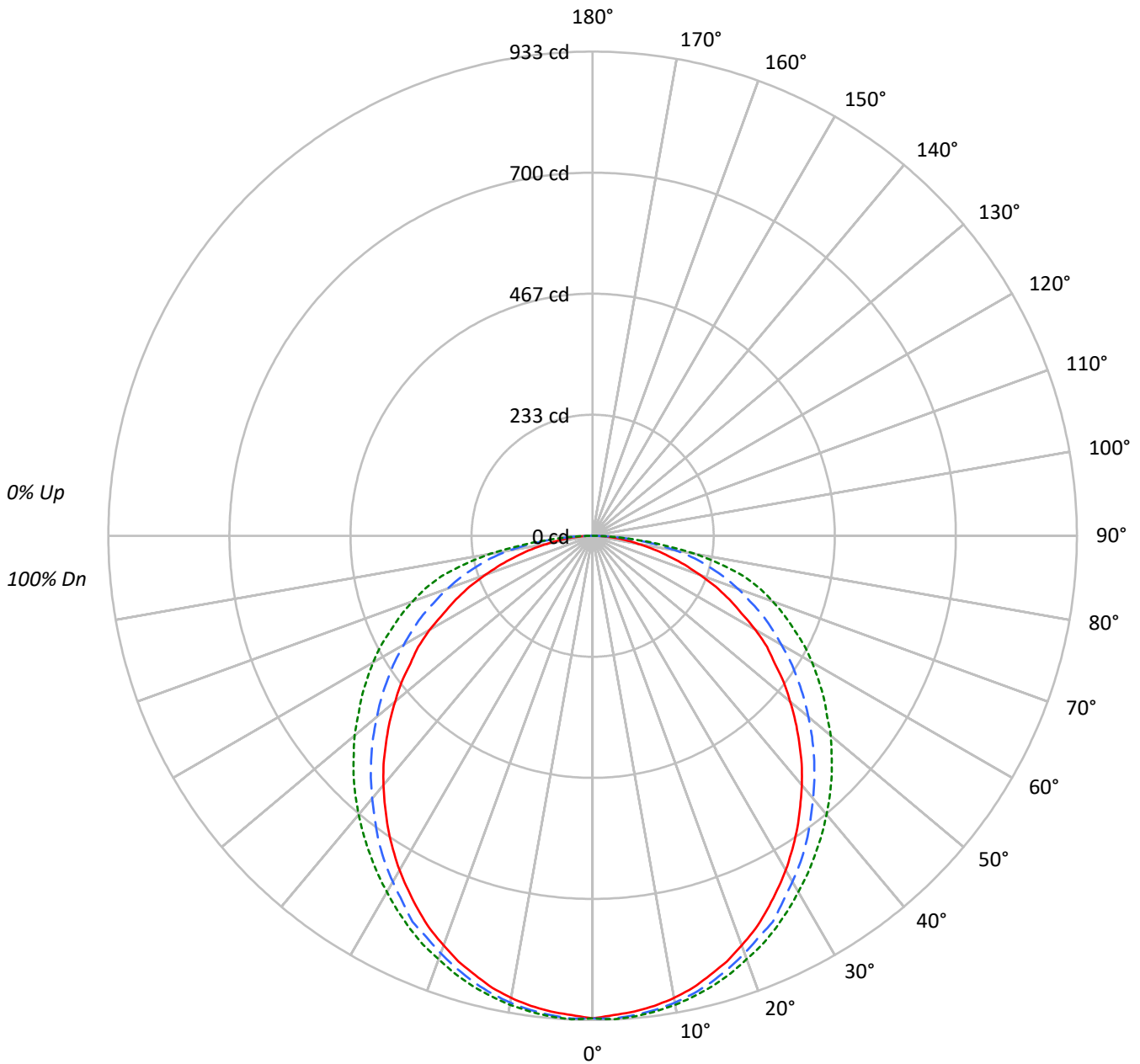
Lumens per Lamp: N/A  
Luminaire Lumens: 2735.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
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 |  |  |  |  |  |  |  |  |   |
| 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   | 108 | 103 | 98  | 94  | 105 | 101 | 96  | 93  | 96  | 93  | 90  | 92  | 90  | 87  | 89  | 86  | 84  | 82  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  | 80  | 76  | 71  | 77  | 73  | 70  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 78  | 69  | 63  | 86  | 76  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 63  | 59  | 56  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 52  | 65  | 57  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 61  | 52  | 45  | 72  | 60  | 52  | 45  | 58  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2639 | 2639 | 2639 |
| 5°  | 2622 | 2641 | 2649 |
| 10° | 2606 | 2633 | 2644 |
| 15° | 2574 | 2613 | 2637 |
| 20° | 2536 | 2585 | 2621 |
| 25° | 2490 | 2570 | 2612 |
| 30° | 2438 | 2523 | 2597 |
| 35° | 2382 | 2489 | 2592 |
| 40° | 2323 | 2447 | 2597 |
| 45° | 2258 | 2420 | 2614 |
| 50° | 2192 | 2394 | 2644 |
| 55° | 2117 | 2384 | 2689 |
| 60° | 2054 | 2383 | 2772 |
| 65° | 1951 | 2422 | 2874 |
| 70° | 1820 | 2467 | 3060 |
| 75° | 1668 | 2553 | 3305 |
| 80° | 1453 | 2660 | 3255 |
| 85° | 1273 | 2367 | 2588 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.9   | 3.2       |
| 10°-20°   | 250.5  | 9.2       |
| 20°-30°   | 376.0  | 13.7      |
| 30°-40°   | 449.3  | 16.4      |
| 40°-50°   | 467.2  | 17.1      |
| 50°-60°   | 433.1  | 15.8      |
| 60°-70°   | 355.2  | 13.0      |
| 70°-80°   | 240.2  | 8.8       |
| 80°-90°   | 75.5   | 2.8       |
| 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°    | 714.5  | 26.1      |
| 0°-40°    | 1163.8 | 42.6      |
| 0°-60°    | 2064.1 | 75.5      |
| 0°-90°    | 2735.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2735.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 930 | 930   | 930 | 930   | 930 |      |
| 5°  | 920 | 922   | 927 | 929   | 930 | 87   |
| 15° | 876 | 880   | 890 | 895   | 898 | 247  |
| 25° | 795 | 802   | 821 | 830   | 834 | 366  |
| 35° | 688 | 697   | 719 | 740   | 748 | 430  |
| 45° | 563 | 573   | 603 | 638   | 651 | 434  |
| 55° | 428 | 441   | 482 | 525   | 544 | 385  |
| 65° | 291 | 307   | 361 | 408   | 428 | 287  |
| 75° | 152 | 178   | 233 | 280   | 302 | 161  |
| 85° | 39  | 54    | 73  | 81    | 80  | 44   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 929.9 | 929.9 | 929.9 | 929.9 | 929.9 |
| 2.5°  | 924.6 | 927.2 | 931.2 | 932.7 | 932.7 |
| 5°    | 920.5 | 921.8 | 927.2 | 928.6 | 929.9 |
| 7.5°  | 913.7 | 916.5 | 921.8 | 923.3 | 924.6 |
| 10°   | 904.3 | 907.1 | 913.7 | 916.5 | 917.8 |
| 12.5° | 892.3 | 894.9 | 903.0 | 907.1 | 908.4 |
| 15°   | 876.1 | 880.1 | 889.5 | 894.9 | 897.7 |
| 17.5° | 860.0 | 863.9 | 873.5 | 881.4 | 884.2 |
| 20°   | 839.8 | 849.2 | 856.0 | 866.7 | 868.0 |
| 22.5° | 819.6 | 825.0 | 837.0 | 847.9 | 853.2 |
| 25°   | 795.3 | 802.1 | 820.9 | 830.3 | 834.4 |
| 27.5° | 769.9 | 779.3 | 794.0 | 808.8 | 814.1 |
| 30°   | 744.2 | 750.9 | 769.9 | 787.2 | 792.7 |
| 32.5° | 716.0 | 725.4 | 745.5 | 763.0 | 771.2 |
| 35°   | 687.6 | 697.0 | 718.6 | 740.2 | 748.3 |
| 37.5° | 656.8 | 667.5 | 689.1 | 714.6 | 725.4 |
| 40°   | 627.1 | 635.3 | 660.7 | 691.7 | 701.1 |
| 42.5° | 596.2 | 605.6 | 632.5 | 666.2 | 676.9 |
| 45°   | 562.6 | 573.3 | 603.0 | 637.8 | 651.3 |
| 47.5° | 530.2 | 541.0 | 573.3 | 608.3 | 624.4 |
| 50°   | 496.6 | 510.0 | 542.3 | 582.7 | 598.9 |
| 52.5° | 464.3 | 476.5 | 512.8 | 554.5 | 569.2 |
| 55°   | 428.0 | 441.4 | 481.8 | 524.8 | 543.6 |
| 57.5° | 398.3 | 407.7 | 452.2 | 496.6 | 515.4 |
| 60°   | 362.0 | 374.1 | 419.9 | 466.9 | 488.5 |
| 62.5° | 323.1 | 343.2 | 390.2 | 438.7 | 460.3 |
| 65°   | 290.6 | 306.8 | 360.7 | 407.7 | 428.0 |
| 67.5° | 257.1 | 274.6 | 327.0 | 376.9 | 399.8 |
| 70°   | 219.4 | 242.3 | 297.4 | 347.2 | 368.8 |
| 72.5° | 185.7 | 210.0 | 266.5 | 314.9 | 337.8 |
| 75°   | 152.1 | 177.6 | 232.9 | 279.9 | 301.5 |
| 77.5° | 119.8 | 148.1 | 201.9 | 238.2 | 251.7 |
| 80°   | 88.9  | 115.8 | 162.8 | 188.5 | 199.2 |
| 82.5° | 62.0  | 84.8  | 119.8 | 133.3 | 135.9 |
| 85°   | 39.1  | 53.8  | 72.7  | 80.8  | 79.5  |
| 87.5° | 17.5  | 21.6  | 26.9  | 29.7  | 28.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)