

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: P732141

Luminaire Tested: **24CZ2-35-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-HRP-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

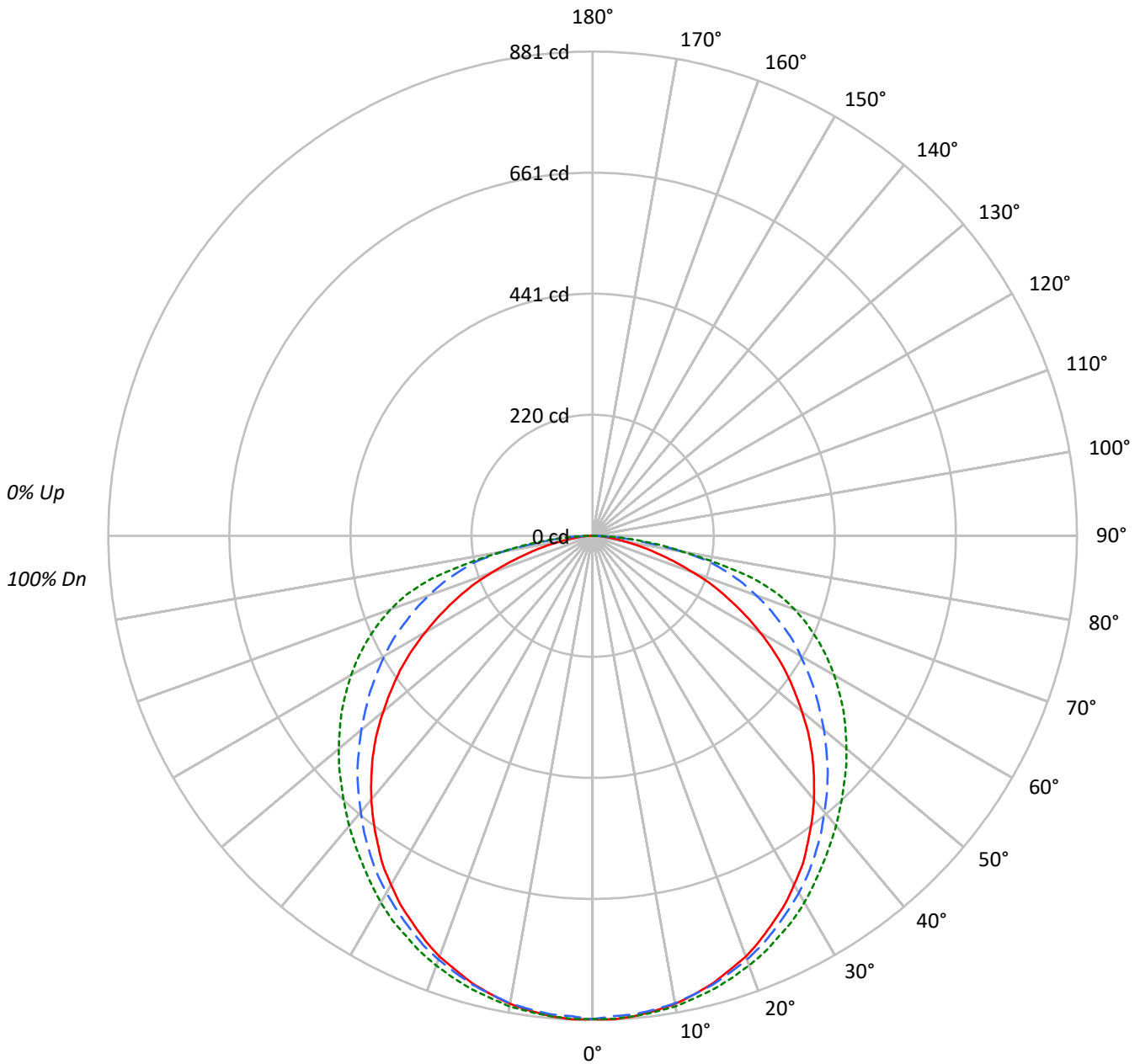
Lumens per Lamp: N/A  
Luminaire Lumens: 2711.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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  | 80  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 77  | 73  | 70  | 67  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  | 70  | 64  | 59  | 68  | 63  | 58  | 56  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 68  | 59  | 52  | 79  | 67  | 59  | 52  | 65  | 57  | 51  | 62  | 56  | 50  | 60  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 38  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 41  | 33  | 27  | 54  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 29  | 24  | 23  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1241 | 1241 | 1241 |
| 5°  | 1243 | 1238 | 1243 |
| 10° | 1239 | 1238 | 1246 |
| 15° | 1232 | 1235 | 1247 |
| 20° | 1224 | 1232 | 1249 |
| 25° | 1209 | 1227 | 1251 |
| 30° | 1195 | 1223 | 1256 |
| 35° | 1175 | 1216 | 1257 |
| 40° | 1154 | 1209 | 1269 |
| 45° | 1128 | 1207 | 1289 |
| 50° | 1091 | 1206 | 1323 |
| 55° | 1053 | 1215 | 1371 |
| 60° | 993  | 1233 | 1432 |
| 65° | 917  | 1262 | 1512 |
| 70° | 801  | 1306 | 1611 |
| 75° | 650  | 1374 | 1665 |
| 80° | 480  | 1348 | 1348 |
| 85° | 368  | 993  | 1121 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.3   | 3.1       |
| 10°-20°   | 239.3  | 8.8       |
| 20°-30°   | 364.3  | 13.4      |
| 30°-40°   | 442.3  | 16.3      |
| 40°-50°   | 467.3  | 17.2      |
| 50°-60°   | 440.9  | 16.3      |
| 60°-70°   | 366.6  | 13.5      |
| 70°-80°   | 241.2  | 8.9       |
| 80°-90°   | 65.8   | 2.4       |
| 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°    | 686.9  | 25.3      |
| 0°-40°    | 1129.2 | 41.7      |
| 0°-60°    | 2037.4 | 75.2      |
| 0°-90°    | 2711.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2711.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 880 | 880   | 880 | 880   | 880 |      |
| 5°  | 877 | 877   | 874 | 877   | 877 | 83   |
| 15° | 843 | 844   | 846 | 854   | 854 | 238  |
| 25° | 776 | 781   | 788 | 801   | 804 | 358  |
| 35° | 682 | 690   | 706 | 724   | 730 | 427  |
| 45° | 565 | 577   | 605 | 634   | 646 | 435  |
| 55° | 428 | 446   | 494 | 540   | 557 | 381  |
| 65° | 275 | 306   | 378 | 434   | 453 | 272  |
| 75° | 119 | 174   | 252 | 298   | 305 | 128  |
| 85° | 23  | 50    | 61  | 68    | 69  | 28   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 879.6 | 879.6 | 879.6 | 879.6 | 879.6 |
| 2.5°  | 880.7 | 879.6 | 875.0 | 879.6 | 879.6 |
| 5°    | 877.4 | 877.4 | 873.9 | 877.4 | 877.4 |
| 7.5°  | 871.6 | 871.6 | 869.4 | 873.9 | 873.9 |
| 10°   | 864.9 | 864.9 | 863.6 | 869.4 | 869.4 |
| 12.5° | 854.6 | 855.8 | 854.6 | 861.4 | 861.4 |
| 15°   | 843.3 | 844.4 | 845.5 | 853.5 | 853.5 |
| 17.5° | 828.5 | 830.8 | 833.0 | 842.1 | 843.3 |
| 20°   | 814.9 | 816.0 | 820.5 | 830.8 | 831.9 |
| 22.5° | 796.7 | 800.2 | 805.8 | 816.0 | 819.4 |
| 25°   | 776.3 | 780.8 | 787.7 | 801.3 | 803.5 |
| 27.5° | 756.9 | 760.5 | 769.4 | 784.2 | 788.8 |
| 30°   | 733.2 | 738.8 | 750.2 | 764.9 | 770.6 |
| 32.5° | 710.5 | 716.1 | 729.7 | 745.7 | 750.2 |
| 35°   | 682.1 | 690.0 | 706.0 | 724.1 | 729.7 |
| 37.5° | 654.9 | 662.8 | 682.1 | 702.5 | 709.4 |
| 40°   | 626.4 | 635.5 | 656.0 | 679.9 | 688.9 |
| 42.5° | 595.8 | 608.3 | 631.0 | 657.2 | 667.4 |
| 45°   | 565.2 | 576.6 | 604.9 | 634.4 | 645.8 |
| 47.5° | 532.2 | 545.8 | 576.6 | 611.7 | 625.3 |
| 50°   | 497.1 | 514.1 | 549.4 | 588.0 | 602.7 |
| 52.5° | 461.9 | 481.1 | 520.9 | 564.1 | 580.0 |
| 55°   | 427.8 | 446.1 | 493.6 | 540.2 | 557.2 |
| 57.5° | 390.5 | 413.1 | 465.3 | 515.3 | 532.2 |
| 60°   | 351.9 | 376.9 | 436.9 | 489.1 | 507.3 |
| 62.5° | 313.3 | 341.6 | 409.7 | 461.9 | 481.1 |
| 65°   | 274.7 | 306.4 | 378.0 | 433.6 | 452.8 |
| 67.5° | 237.2 | 272.4 | 348.4 | 404.1 | 423.3 |
| 70°   | 194.1 | 238.3 | 316.6 | 371.1 | 390.5 |
| 72.5° | 154.4 | 205.5 | 286.0 | 337.1 | 354.1 |
| 75°   | 119.2 | 173.6 | 251.9 | 298.5 | 305.3 |
| 77.5° | 87.4  | 141.9 | 216.7 | 232.7 | 233.8 |
| 80°   | 59.0  | 113.5 | 165.8 | 163.4 | 165.8 |
| 82.5° | 38.6  | 85.1  | 104.4 | 116.9 | 118.0 |
| 85°   | 22.7  | 50.0  | 61.3  | 68.1  | 69.2  |
| 87.5° | 11.4  | 17.0  | 21.6  | 22.7  | 25.0  |
| 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)