

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: P732196

Luminaire Tested: **24CZ2-40-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732196  
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: 24CZ2-40-RDP-B2750-W2D-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

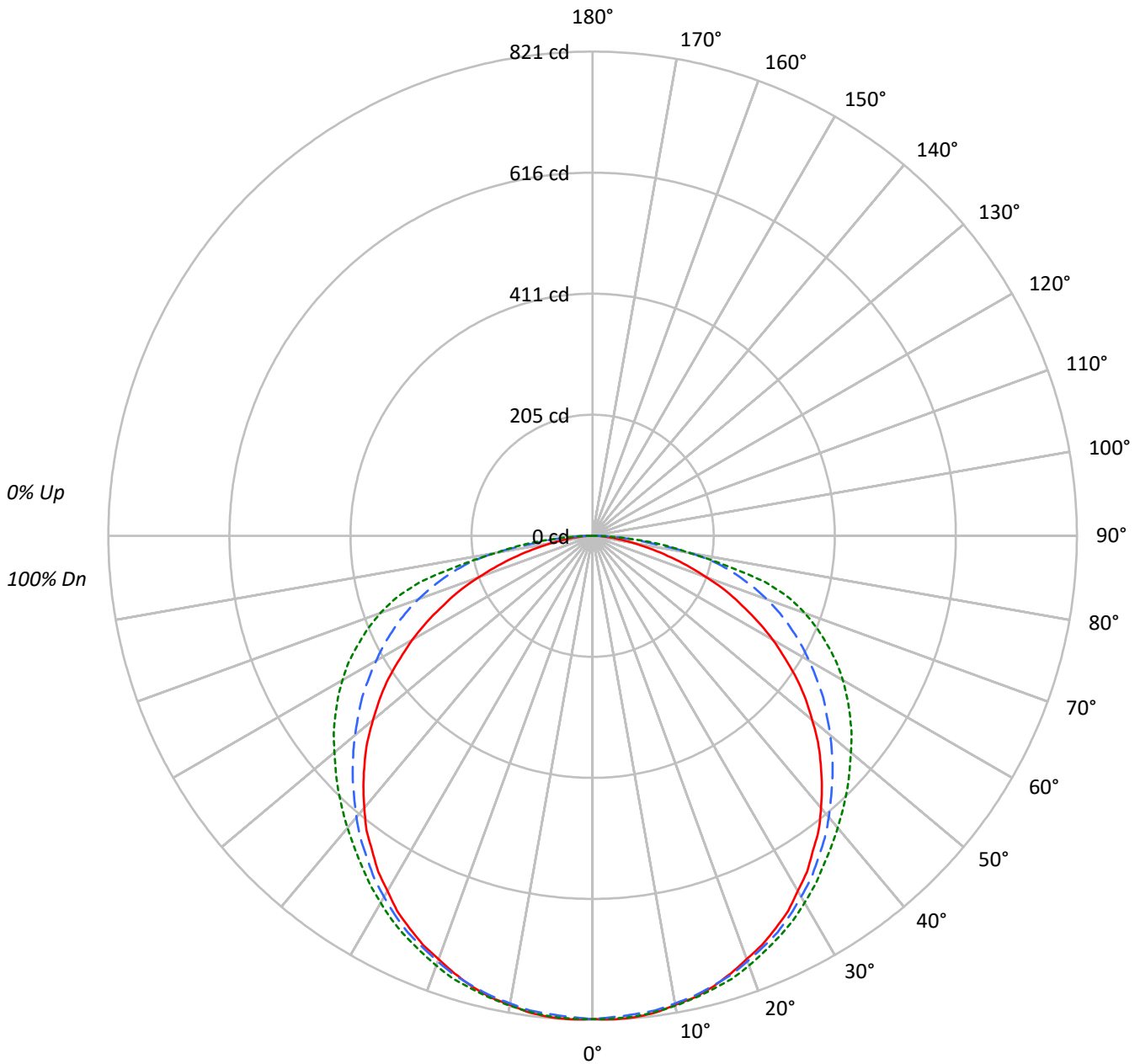
Lumens per Lamp: N/A  
Luminaire Lumens: 2606.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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  | 68  | 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°  | 1157 | 1157 | 1157 |
| 5°  | 1161 | 1154 | 1159 |
| 10° | 1158 | 1154 | 1160 |
| 15° | 1156 | 1154 | 1161 |
| 20° | 1147 | 1153 | 1165 |
| 25° | 1143 | 1155 | 1167 |
| 30° | 1133 | 1152 | 1171 |
| 35° | 1122 | 1149 | 1176 |
| 40° | 1110 | 1148 | 1191 |
| 45° | 1091 | 1148 | 1218 |
| 50° | 1067 | 1155 | 1255 |
| 55° | 1040 | 1173 | 1311 |
| 60° | 996  | 1197 | 1383 |
| 65° | 932  | 1239 | 1468 |
| 70° | 848  | 1296 | 1579 |
| 75° | 719  | 1368 | 1650 |
| 80° | 567  | 1376 | 1334 |
| 85° | 419  | 1048 | 1171 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.7   | 3.0       |
| 10°-20°   | 223.7  | 8.6       |
| 20°-30°   | 342.1  | 13.1      |
| 30°-40°   | 418.2  | 16.0      |
| 40°-50°   | 445.8  | 17.1      |
| 50°-60°   | 426.2  | 16.4      |
| 60°-70°   | 361.0  | 13.9      |
| 70°-80°   | 242.7  | 9.3       |
| 80°-90°   | 68.5   | 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°    | 643.6  | 24.7      |
| 0°-40°    | 1061.9 | 40.7      |
| 0°-60°    | 1933.8 | 74.2      |
| 0°-90°    | 2606.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2606.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 820 | 820   | 820 | 820   | 820 |      |
| 5°  | 820 | 818   | 814 | 818   | 818 | 78   |
| 15° | 791 | 791   | 790 | 796   | 795 | 223  |
| 25° | 734 | 737   | 742 | 748   | 750 | 338  |
| 35° | 652 | 657   | 667 | 680   | 682 | 408  |
| 45° | 547 | 556   | 575 | 600   | 610 | 422  |
| 55° | 423 | 438   | 477 | 514   | 533 | 376  |
| 65° | 279 | 308   | 371 | 420   | 440 | 277  |
| 75° | 132 | 180   | 251 | 294   | 302 | 141  |
| 85° | 26  | 53    | 65  | 70    | 72  | 32   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 819.5 | 819.5 | 819.5 | 819.5 | 819.5 |
| 2.5°  | 820.8 | 820.8 | 816.9 | 819.5 | 819.5 |
| 5°    | 819.5 | 818.3 | 814.4 | 818.3 | 818.3 |
| 7.5°  | 815.6 | 814.4 | 811.7 | 815.6 | 814.4 |
| 10°   | 807.8 | 807.8 | 805.3 | 809.2 | 809.2 |
| 12.5° | 801.4 | 800.2 | 798.8 | 803.9 | 802.7 |
| 15°   | 791.2 | 791.2 | 789.8 | 796.3 | 794.9 |
| 17.5° | 778.2 | 779.5 | 780.7 | 785.9 | 787.3 |
| 20°   | 763.9 | 766.5 | 767.8 | 775.6 | 775.6 |
| 22.5° | 750.9 | 752.3 | 754.8 | 762.6 | 762.6 |
| 25°   | 734.3 | 736.8 | 741.9 | 748.4 | 749.7 |
| 27.5° | 717.4 | 718.7 | 725.2 | 734.3 | 735.5 |
| 30°   | 695.5 | 699.4 | 707.0 | 717.4 | 718.7 |
| 32.5° | 676.0 | 679.9 | 688.9 | 699.4 | 701.8 |
| 35°   | 651.5 | 656.6 | 666.9 | 679.9 | 682.5 |
| 37.5° | 629.5 | 633.4 | 646.4 | 660.5 | 664.4 |
| 40°   | 602.4 | 610.0 | 623.0 | 639.8 | 646.4 |
| 42.5° | 575.3 | 582.9 | 598.5 | 620.5 | 628.3 |
| 45°   | 546.8 | 555.8 | 575.3 | 599.8 | 610.0 |
| 47.5° | 518.4 | 528.7 | 550.7 | 579.0 | 590.7 |
| 50°   | 486.0 | 498.9 | 526.0 | 558.5 | 571.4 |
| 52.5° | 455.0 | 470.5 | 500.3 | 536.5 | 553.3 |
| 55°   | 422.7 | 438.1 | 476.9 | 514.5 | 532.6 |
| 57.5° | 386.5 | 407.1 | 449.8 | 492.5 | 511.8 |
| 60°   | 352.9 | 372.2 | 423.9 | 470.5 | 489.9 |
| 62.5° | 316.7 | 342.6 | 398.1 | 447.2 | 466.6 |
| 65°   | 279.1 | 307.7 | 371.0 | 420.0 | 439.5 |
| 67.5° | 245.6 | 276.7 | 343.8 | 392.9 | 412.4 |
| 70°   | 205.6 | 244.2 | 314.1 | 363.2 | 382.6 |
| 72.5° | 168.0 | 210.7 | 283.0 | 330.9 | 349.0 |
| 75°   | 131.9 | 179.7 | 250.8 | 293.5 | 302.5 |
| 77.5° | 98.2  | 148.7 | 217.1 | 235.2 | 228.8 |
| 80°   | 69.8  | 118.9 | 169.3 | 160.2 | 164.1 |
| 82.5° | 45.2  | 90.6  | 104.7 | 118.9 | 122.8 |
| 85°   | 25.9  | 53.0  | 64.7  | 69.8  | 72.3  |
| 87.5° | 11.7  | 19.3  | 25.9  | 25.9  | 24.6  |
| 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)