

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: P732346

Luminaire Tested: **24CZ2-55HE-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732346  
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: 24CZ2-55HE-RDP-B2750-W2D-2700K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

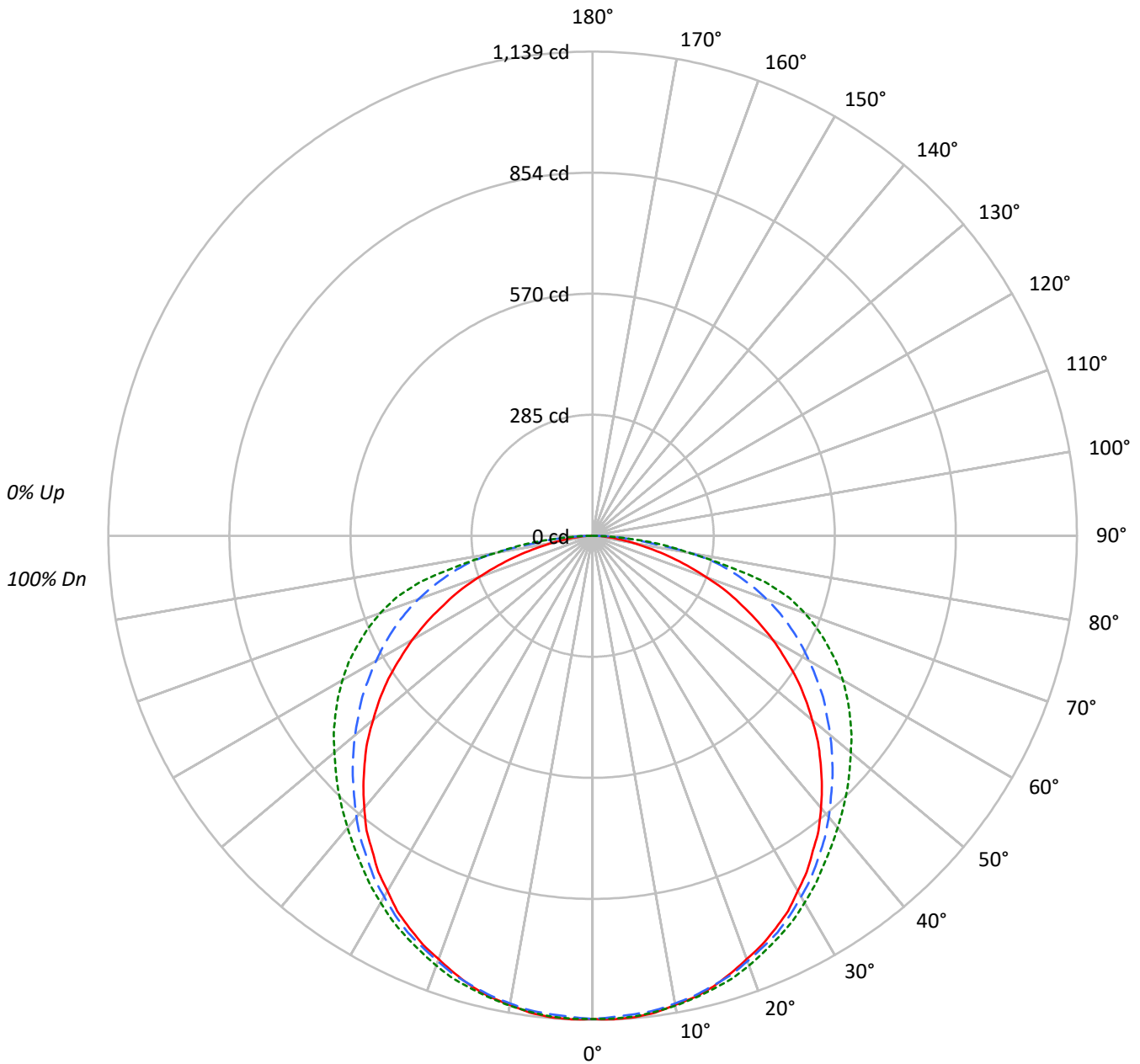
Lumens per Lamp: N/A  
Luminaire Lumens: 3615.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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 | 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  | 67  | 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°  | 1604 | 1604 | 1604 |
| 5°  | 1611 | 1600 | 1608 |
| 10° | 1606 | 1601 | 1609 |
| 15° | 1604 | 1601 | 1611 |
| 20° | 1591 | 1600 | 1616 |
| 25° | 1586 | 1603 | 1620 |
| 30° | 1572 | 1598 | 1625 |
| 35° | 1557 | 1594 | 1631 |
| 40° | 1539 | 1592 | 1652 |
| 45° | 1514 | 1593 | 1689 |
| 50° | 1480 | 1602 | 1740 |
| 55° | 1443 | 1628 | 1818 |
| 60° | 1382 | 1660 | 1918 |
| 65° | 1293 | 1719 | 2036 |
| 70° | 1177 | 1798 | 2190 |
| 75° | 997  | 1897 | 2289 |
| 80° | 788  | 1908 | 1851 |
| 85° | 581  | 1453 | 1624 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.8  | 3.0       |
| 10°-20°   | 310.4  | 8.6       |
| 20°-30°   | 474.6  | 13.1      |
| 30°-40°   | 580.2  | 16.0      |
| 40°-50°   | 618.4  | 17.1      |
| 50°-60°   | 591.2  | 16.4      |
| 60°-70°   | 500.8  | 13.9      |
| 70°-80°   | 336.6  | 9.3       |
| 80°-90°   | 95.0   | 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°    | 892.8  | 24.7      |
| 0°-40°    | 1473.0 | 40.7      |
| 0°-60°    | 2682.6 | 74.2      |
| 0°-90°    | 3615.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3615.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1137 | 1137  | 1137 | 1137  | 1137 |      |
| 5°  | 1137 | 1135  | 1130 | 1135  | 1135 | 108  |
| 15° | 1098 | 1098  | 1096 | 1105  | 1103 | 309  |
| 25° | 1019 | 1022  | 1029 | 1038  | 1040 | 469  |
| 35° | 904  | 911   | 925  | 943   | 947  | 566  |
| 45° | 758  | 771   | 798  | 832   | 846  | 585  |
| 55° | 586  | 608   | 662  | 714   | 739  | 522  |
| 65° | 387  | 427   | 515  | 583   | 610  | 384  |
| 75° | 183  | 249   | 348  | 407   | 420  | 196  |
| 85° | 36   | 74    | 90   | 97    | 100  | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 |
| 2.5°  | 1138.6 | 1138.6 | 1133.1 | 1136.8 | 1136.8 |
| 5°    | 1136.8 | 1135.1 | 1129.7 | 1135.1 | 1135.1 |
| 7.5°  | 1131.4 | 1129.7 | 1126.0 | 1131.4 | 1129.7 |
| 10°   | 1120.6 | 1120.6 | 1117.2 | 1122.6 | 1122.6 |
| 12.5° | 1111.7 | 1110.0 | 1108.1 | 1115.2 | 1113.5 |
| 15°   | 1097.5 | 1097.5 | 1095.5 | 1104.6 | 1102.7 |
| 17.5° | 1079.5 | 1081.3 | 1083.0 | 1090.1 | 1092.1 |
| 20°   | 1059.6 | 1063.3 | 1065.0 | 1075.9 | 1075.9 |
| 22.5° | 1041.7 | 1043.6 | 1047.1 | 1057.9 | 1057.9 |
| 25°   | 1018.6 | 1022.0 | 1029.2 | 1038.2 | 1040.0 |
| 27.5° | 995.2  | 996.9  | 1006.0 | 1018.6 | 1020.3 |
| 30°   | 964.7  | 970.1  | 980.7  | 995.2  | 996.9  |
| 32.5° | 937.7  | 943.1  | 955.6  | 970.1  | 973.6  |
| 35°   | 903.8  | 910.9  | 925.2  | 943.1  | 946.8  |
| 37.5° | 873.3  | 878.7  | 896.6  | 916.3  | 921.7  |
| 40°   | 835.6  | 846.2  | 864.2  | 887.5  | 896.6  |
| 42.5° | 798.0  | 808.6  | 830.2  | 860.7  | 871.5  |
| 45°   | 758.5  | 771.0  | 798.0  | 832.0  | 846.2  |
| 47.5° | 719.1  | 733.4  | 763.9  | 803.2  | 819.4  |
| 50°   | 674.1  | 692.1  | 729.7  | 774.7  | 792.6  |
| 52.5° | 631.1  | 652.7  | 694.0  | 744.2  | 767.5  |
| 55°   | 586.4  | 607.8  | 661.6  | 713.7  | 738.8  |
| 57.5° | 536.2  | 564.7  | 624.0  | 683.2  | 710.0  |
| 60°   | 489.5  | 516.3  | 588.1  | 652.7  | 679.5  |
| 62.5° | 439.3  | 475.2  | 552.2  | 620.3  | 647.3  |
| 65°   | 387.2  | 426.8  | 514.6  | 582.7  | 609.7  |
| 67.5° | 340.7  | 383.8  | 477.0  | 545.1  | 572.1  |
| 70°   | 285.2  | 338.8  | 435.7  | 503.8  | 530.8  |
| 72.5° | 233.1  | 292.3  | 392.6  | 459.0  | 484.1  |
| 75°   | 182.9  | 249.3  | 347.9  | 407.1  | 419.7  |
| 77.5° | 136.2  | 206.3  | 301.2  | 326.3  | 317.4  |
| 80°   | 96.9   | 165.0  | 234.8  | 222.3  | 227.7  |
| 82.5° | 62.7   | 125.6  | 145.3  | 165.0  | 170.4  |
| 85°   | 35.9   | 73.5   | 89.7   | 96.9   | 100.3  |
| 87.5° | 16.2   | 26.8   | 35.9   | 35.9   | 34.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)