

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: P732387

Luminaire Tested: **24CZ2-65HE-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65HE-B2750-W2D-3000K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

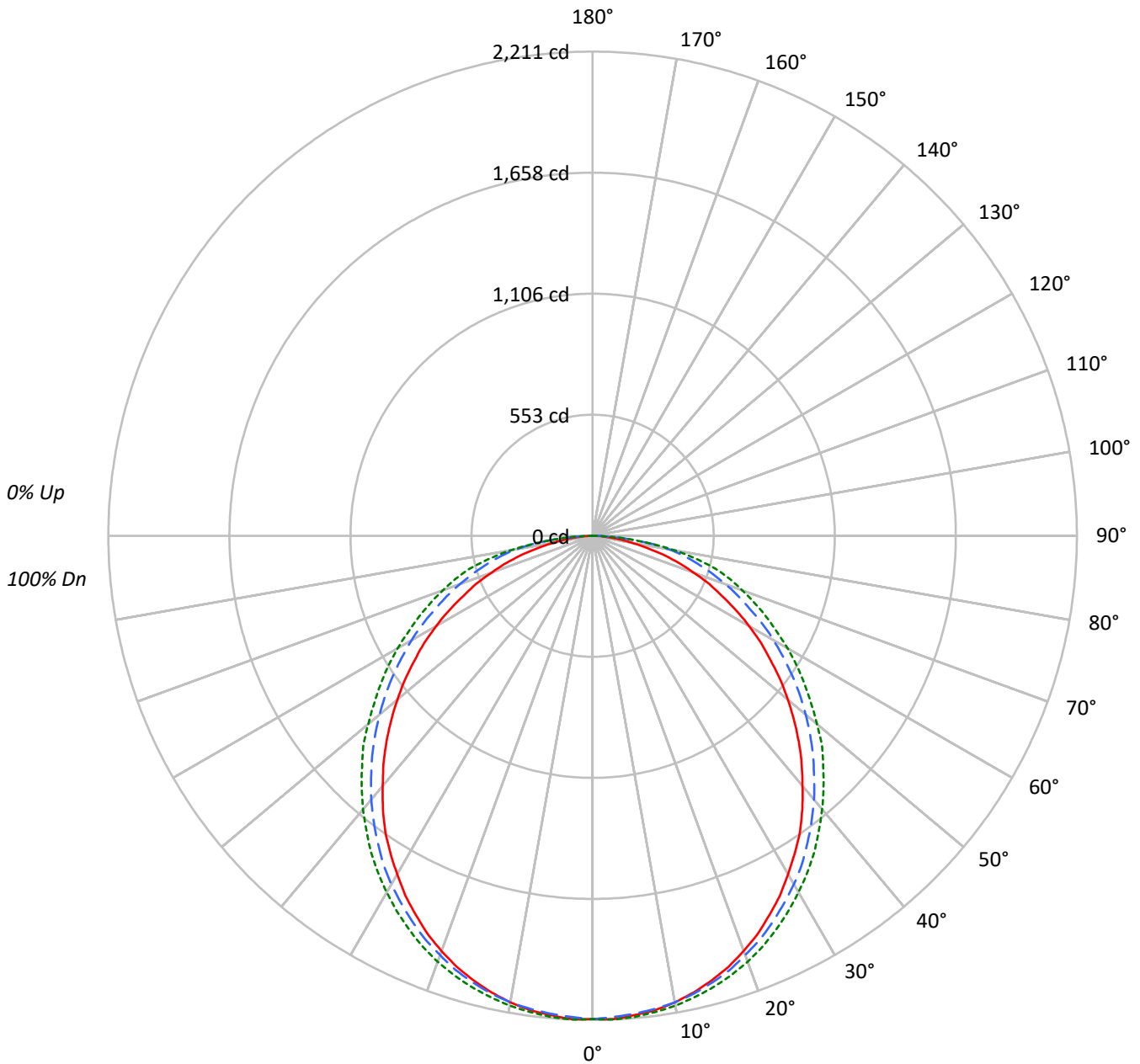
Lumens per Lamp: N/A  
Luminaire Lumens: 6283.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 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  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 70  | 56  | 47  | 40  | 68  | 55  | 47  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3115 | 3115 | 3115 |
| 5°  | 3113 | 3104 | 3124 |
| 10° | 3100 | 3100 | 3123 |
| 15° | 3071 | 3085 | 3117 |
| 20° | 3030 | 3060 | 3108 |
| 25° | 2974 | 3030 | 3089 |
| 30° | 2908 | 2995 | 3064 |
| 35° | 2844 | 2947 | 3040 |
| 40° | 2747 | 2897 | 3004 |
| 45° | 2657 | 2840 | 2972 |
| 50° | 2555 | 2787 | 2936 |
| 55° | 2441 | 2735 | 2907 |
| 60° | 2327 | 2693 | 2901 |
| 65° | 2179 | 2646 | 2919 |
| 70° | 2017 | 2660 | 2997 |
| 75° | 1807 | 2710 | 3167 |
| 80° | 1460 | 2871 | 3097 |
| 85° | 1098 | 2520 | 2457 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 209.0  | 3.3       |
| 10°-20°   | 597.1  | 9.5       |
| 20°-30°   | 897.5  | 14.3      |
| 30°-40°   | 1069.1 | 17.0      |
| 40°-50°   | 1094.2 | 17.4      |
| 50°-60°   | 985.1  | 15.7      |
| 60°-70°   | 773.6  | 12.3      |
| 70°-80°   | 502.1  | 8.0       |
| 80°-90°   | 155.3  | 2.5       |
| 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°    | 1703.6 | 27.1      |
| 0°-40°    | 2772.7 | 44.1      |
| 0°-60°    | 4852.0 | 77.2      |
| 0°-90°    | 6283.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6283.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2207 | 2207  | 2207 | 2207  | 2207 |      |
| 5°  | 2197 | 2201  | 2191 | 2203  | 2205 | 209  |
| 15° | 2102 | 2108  | 2111 | 2130  | 2134 | 593  |
| 25° | 1910 | 1926  | 1946 | 1978  | 1984 | 880  |
| 35° | 1650 | 1670  | 1710 | 1752  | 1764 | 1030 |
| 45° | 1331 | 1363  | 1423 | 1477  | 1489 | 1026 |
| 55° | 992  | 1036  | 1112 | 1170  | 1182 | 889  |
| 65° | 653  | 703   | 792  | 858   | 874  | 650  |
| 75° | 331  | 395   | 497  | 565   | 581  | 351  |
| 85° | 68   | 126   | 156  | 152   | 152  | 82   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2207.4 | 2207.4 | 2207.4 | 2207.4 | 2207.4 |
| 2.5°  | 2209.3 | 2209.3 | 2199.2 | 2209.3 | 2211.2 |
| 5°    | 2197.3 | 2201.4 | 2191.3 | 2203.3 | 2205.2 |
| 7.5°  | 2185.2 | 2185.2 | 2179.2 | 2191.3 | 2193.4 |
| 10°   | 2163.4 | 2165.3 | 2163.4 | 2177.3 | 2179.2 |
| 12.5° | 2135.5 | 2139.3 | 2141.5 | 2155.4 | 2157.3 |
| 15°   | 2101.6 | 2107.6 | 2111.4 | 2129.5 | 2133.5 |
| 17.5° | 2063.6 | 2069.6 | 2079.4 | 2099.4 | 2103.5 |
| 20°   | 2017.6 | 2025.6 | 2037.6 | 2063.6 | 2069.6 |
| 22.5° | 1967.9 | 1975.8 | 1995.8 | 2019.6 | 2029.7 |
| 25°   | 1909.9 | 1925.8 | 1945.7 | 1977.7 | 1983.7 |
| 27.5° | 1852.0 | 1865.9 | 1891.9 | 1925.8 | 1934.0 |
| 30°   | 1784.2 | 1806.0 | 1838.0 | 1871.9 | 1879.9 |
| 32.5° | 1718.3 | 1740.2 | 1778.2 | 1814.2 | 1824.1 |
| 35°   | 1650.5 | 1670.4 | 1710.3 | 1752.2 | 1764.2 |
| 37.5° | 1572.6 | 1598.5 | 1642.5 | 1684.4 | 1696.4 |
| 40°   | 1490.8 | 1522.8 | 1572.6 | 1616.6 | 1630.5 |
| 42.5° | 1412.9 | 1446.8 | 1496.8 | 1544.7 | 1560.5 |
| 45°   | 1331.1 | 1363.1 | 1423.0 | 1476.9 | 1488.9 |
| 47.5° | 1247.2 | 1283.3 | 1347.0 | 1400.9 | 1420.8 |
| 50°   | 1163.6 | 1201.5 | 1269.4 | 1325.1 | 1337.2 |
| 52.5° | 1079.6 | 1119.6 | 1191.4 | 1251.3 | 1257.3 |
| 55°   | 991.9  | 1035.9 | 1111.6 | 1169.6 | 1181.6 |
| 57.5° | 912.0  | 950.0  | 1031.8 | 1091.7 | 1105.6 |
| 60°   | 824.3  | 866.1  | 953.9  | 1009.9 | 1027.7 |
| 62.5° | 740.4  | 784.4  | 876.2  | 932.0  | 947.9  |
| 65°   | 652.6  | 702.6  | 792.3  | 858.2  | 874.0  |
| 67.5° | 576.8  | 624.7  | 720.4  | 784.4  | 800.2  |
| 70°   | 488.8  | 542.9  | 644.7  | 710.5  | 726.4  |
| 72.5° | 413.1  | 468.9  | 570.8  | 634.6  | 658.6  |
| 75°   | 331.3  | 395.1  | 497.0  | 564.8  | 580.7  |
| 77.5° | 251.5  | 325.3  | 429.0  | 480.9  | 480.9  |
| 80°   | 179.6  | 257.5  | 353.2  | 377.3  | 381.1  |
| 82.5° | 117.8  | 193.6  | 261.4  | 259.4  | 259.4  |
| 85°   | 67.8   | 125.8  | 155.6  | 151.7  | 151.7  |
| 87.5° | 26.0   | 51.9   | 55.8   | 55.8   | 53.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)