

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: P732388

Luminaire Tested: **24CZ2-65HE-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732388  
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-3500K  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

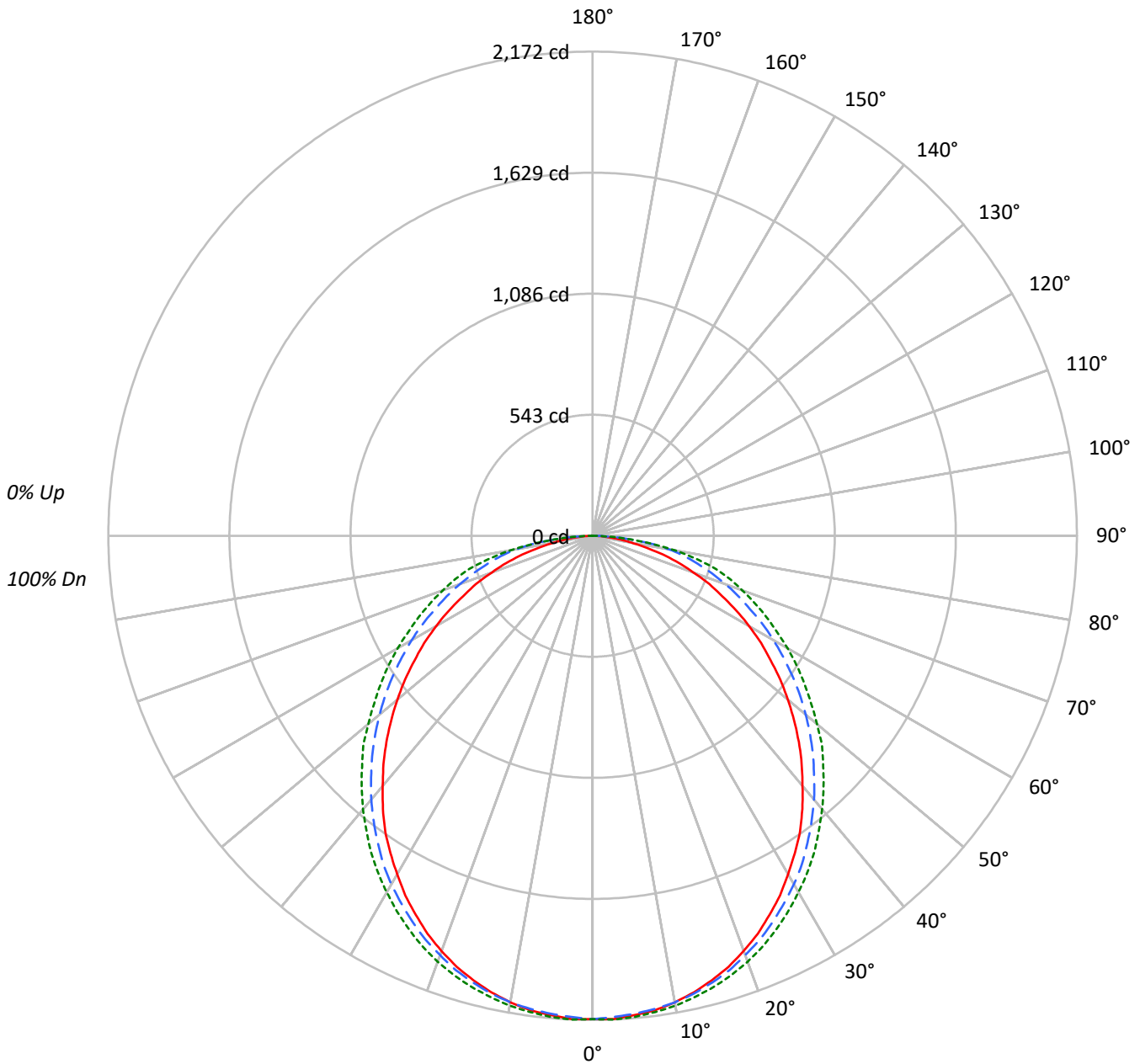
Lumens per Lamp: N/A  
Luminaire Lumens: 6172.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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  |     |     |     | 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 | 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°  | 3060 | 3060 | 3060 |
| 5°  | 3058 | 3050 | 3069 |
| 10° | 3046 | 3046 | 3068 |
| 15° | 3016 | 3031 | 3062 |
| 20° | 2977 | 3006 | 3053 |
| 25° | 2922 | 2977 | 3035 |
| 30° | 2856 | 2943 | 3010 |
| 35° | 2793 | 2895 | 2986 |
| 40° | 2698 | 2846 | 2951 |
| 45° | 2610 | 2790 | 2919 |
| 50° | 2510 | 2738 | 2884 |
| 55° | 2397 | 2687 | 2856 |
| 60° | 2286 | 2645 | 2849 |
| 65° | 2141 | 2599 | 2867 |
| 70° | 1982 | 2613 | 2945 |
| 75° | 1775 | 2662 | 3110 |
| 80° | 1434 | 2820 | 3043 |
| 85° | 1078 | 2474 | 2413 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.3  | 3.3       |
| 10°-20°   | 586.5  | 9.5       |
| 20°-30°   | 881.7  | 14.3      |
| 30°-40°   | 1050.2 | 17.0      |
| 40°-50°   | 1074.9 | 17.4      |
| 50°-60°   | 967.7  | 15.7      |
| 60°-70°   | 760.0  | 12.3      |
| 70°-80°   | 493.2  | 8.0       |
| 80°-90°   | 152.5  | 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°    | 1673.5 | 27.1      |
| 0°-40°    | 2723.7 | 44.1      |
| 0°-60°    | 4766.3 | 77.2      |
| 0°-90°    | 6172.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6172.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2168 | 2168  | 2168 | 2168  | 2168 |      |
| 5°  | 2158 | 2162  | 2152 | 2164  | 2166 | 205  |
| 15° | 2064 | 2070  | 2074 | 2092  | 2096 | 582  |
| 25° | 1876 | 1892  | 1911 | 1943  | 1949 | 864  |
| 35° | 1621 | 1641  | 1680 | 1721  | 1733 | 1011 |
| 45° | 1308 | 1339  | 1398 | 1451  | 1463 | 1008 |
| 55° | 974  | 1018  | 1092 | 1149  | 1161 | 873  |
| 65° | 641  | 690   | 778  | 843   | 859  | 638  |
| 75° | 326  | 388   | 488  | 555   | 570  | 344  |
| 85° | 67   | 124   | 153  | 149   | 149  | 81   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°            | 22.5°         | 45°           | 67.5°         | 90°           |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0°    | 2168.4        | 2168.4        | 2168.4        | 2168.4        | <i>2168.4</i> |
| 2.5°  | <i>2170.3</i> | <i>2170.3</i> | <i>2160.3</i> | <i>2170.3</i> | <i>2172.1</i> |
| 5°    | 2158.4        | 2162.5        | 2152.5        | 2164.3        | <i>2166.2</i> |
| 7.5°  | 2146.6        | 2146.6        | 2140.7        | 2152.5        | <i>2154.7</i> |
| 10°   | 2125.1        | 2127.0        | 2125.1        | 2138.8        | <i>2140.7</i> |
| 12.5° | 2097.7        | 2101.5        | 2103.6        | 2117.3        | <i>2119.2</i> |
| 15°   | 2064.4        | 2070.3        | 2074.1        | 2091.8        | <i>2095.8</i> |
| 17.5° | 2027.1        | 2033.0        | 2042.7        | 2062.3        | <i>2066.3</i> |
| 20°   | 1982.0        | 1989.8        | 2001.6        | 2027.1        | <i>2033.0</i> |
| 22.5° | 1933.1        | 1940.9        | 1960.5        | 1983.9        | <i>1993.8</i> |
| 25°   | 1876.2        | 1891.8        | 1911.4        | 1942.8        | <i>1948.7</i> |
| 27.5° | 1819.3        | 1833.0        | 1858.5        | 1891.8        | <i>1899.8</i> |
| 30°   | 1752.6        | 1774.1        | 1805.6        | 1838.9        | <i>1846.7</i> |
| 32.5° | 1687.9        | 1709.4        | 1746.7        | 1782.2        | <i>1791.9</i> |
| 35°   | 1621.3        | 1640.9        | 1680.1        | 1721.2        | <i>1733.0</i> |
| 37.5° | 1544.8        | 1570.3        | 1613.5        | 1654.6        | <i>1666.4</i> |
| 40°   | 1464.5        | 1495.9        | 1544.8        | 1588.0        | <i>1601.7</i> |
| 42.5° | 1387.9        | 1421.2        | 1470.4        | 1517.4        | <i>1533.0</i> |
| 45°   | 1307.6        | 1339.0        | 1397.9        | 1450.8        | <i>1462.6</i> |
| 47.5° | 1225.2        | 1260.6        | 1323.2        | 1376.1        | <i>1395.7</i> |
| 50°   | 1143.0        | 1180.3        | 1246.9        | 1301.7        | <i>1313.5</i> |
| 52.5° | 1060.6        | 1099.8        | 1170.4        | 1229.2        | <i>1235.1</i> |
| 55°   | 974.3         | 1017.6        | 1092.0        | 1148.9        | <i>1160.7</i> |
| 57.5° | 895.9         | 933.2         | 1013.6        | 1072.4        | <i>1086.1</i> |
| 60°   | 809.7         | 850.8         | 937.0         | 992.1         | <i>1009.5</i> |
| 62.5° | 727.3         | 770.5         | 860.7         | 915.5         | <i>931.1</i>  |
| 65°   | 641.1         | 690.2         | 778.3         | 843.0         | <i>858.6</i>  |
| 67.5° | 566.7         | 613.7         | 707.7         | 770.5         | <i>786.1</i>  |
| 70°   | 480.2         | 533.4         | 633.3         | 698.0         | <i>713.6</i>  |
| 72.5° | 405.8         | 460.6         | 560.8         | 623.3         | <i>647.0</i>  |
| 75°   | 325.5         | 388.1         | 488.2         | 554.8         | <i>570.4</i>  |
| 77.5° | 247.1         | 319.6         | 421.4         | 472.4         | <i>472.4</i>  |
| 80°   | 176.4         | 253.0         | 347.0         | 370.6         | <i>374.4</i>  |
| 82.5° | 115.7         | 190.1         | 256.8         | 254.9         | <i>254.9</i>  |
| 85°   | 66.6          | 123.5         | 152.8         | 149.0         | <i>149.0</i>  |
| 87.5° | 25.5          | 51.0          | 54.8          | 54.8          | <i>52.9</i>   |
| 90°   | 0.0           | 0.0           | 0.0           | 0.0           | <i>0.0</i>    |



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







(END OF REPORT)