

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: P568427

Luminaire Tested: **24CGTX-65HE-L830**

Issue Date: 9/19/2022

**Test Information**

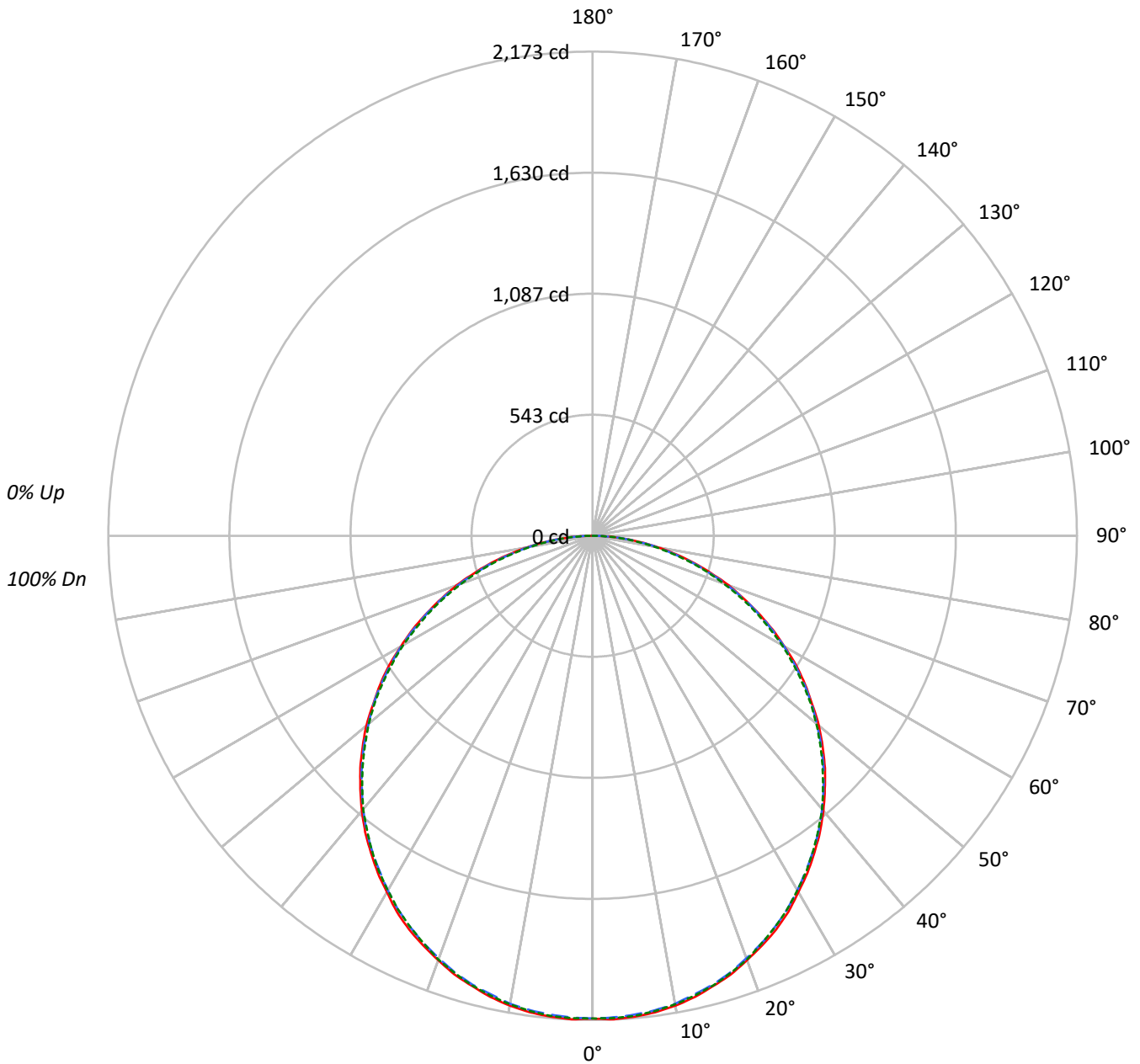
Test Method: LM-79-08  
Report Number: P568427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-65HE-L830  
Description: 2X4 6500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6366.1 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.3  
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  | 94  | 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  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2915 | 2915 | 2915 |
| 5°  | 2926 | 2913 | 2922 |
| 10° | 2926 | 2913 | 2917 |
| 15° | 2914 | 2905 | 2910 |
| 20° | 2902 | 2889 | 2897 |
| 25° | 2894 | 2875 | 2875 |
| 30° | 2869 | 2855 | 2855 |
| 35° | 2850 | 2835 | 2835 |
| 40° | 2829 | 2813 | 2813 |
| 45° | 2805 | 2788 | 2776 |
| 50° | 2774 | 2748 | 2742 |
| 55° | 2730 | 2716 | 2694 |
| 60° | 2673 | 2664 | 2639 |
| 65° | 2609 | 2599 | 2559 |
| 70° | 2552 | 2503 | 2454 |
| 75° | 2453 | 2388 | 2339 |
| 80° | 2309 | 2261 | 2164 |
| 85° | 2109 | 2061 | 1965 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.3  | 3.2       |
| 10°-20°   | 588.6  | 9.2       |
| 20°-30°   | 893.3  | 14.0      |
| 30°-40°   | 1080.8 | 17.0      |
| 40°-50°   | 1129.1 | 17.7      |
| 50°-60°   | 1032.8 | 16.2      |
| 60°-70°   | 803.9  | 12.6      |
| 70°-80°   | 484.5  | 7.6       |
| 80°-90°   | 147.7  | 2.3       |
| 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°    | 1687.2 | 26.5      |
| 0°-40°    | 2768.0 | 43.5      |
| 0°-60°    | 4929.9 | 77.4      |
| 0°-90°    | 6366.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6366.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2166 | 2166  | 2166 | 2166  | 2166 |      |
| 5°  | 2166 | 2160  | 2157 | 2157  | 2163 | 206  |
| 15° | 2092 | 2086  | 2086 | 2083  | 2089 | 591  |
| 25° | 1949 | 1940  | 1937 | 1934  | 1937 | 898  |
| 35° | 1735 | 1729  | 1726 | 1726  | 1726 | 1086 |
| 45° | 1474 | 1465  | 1465 | 1459  | 1459 | 1136 |
| 55° | 1164 | 1161  | 1158 | 1148  | 1148 | 1040 |
| 65° | 819  | 819   | 816  | 804   | 804  | 812  |
| 75° | 472  | 466   | 459  | 450   | 450  | 497  |
| 85° | 137  | 134   | 134  | 127   | 127  | 152  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2166.4 | 2166.4 | 2166.4 | 2166.4 | 2166.4 |
| 2.5°  | 2172.6 | 2166.4 | 2163.3 | 2163.3 | 2166.4 |
| 5°    | 2166.4 | 2160.2 | 2157.1 | 2157.1 | 2163.3 |
| 7.5°  | 2157.1 | 2147.8 | 2147.8 | 2144.7 | 2150.9 |
| 10°   | 2141.6 | 2132.3 | 2132.3 | 2129.2 | 2135.4 |
| 12.5° | 2119.9 | 2110.6 | 2107.4 | 2107.4 | 2113.7 |
| 15°   | 2091.9 | 2085.7 | 2085.7 | 2082.6 | 2088.8 |
| 17.5° | 2064.0 | 2054.7 | 2054.7 | 2051.6 | 2057.8 |
| 20°   | 2026.8 | 2020.5 | 2017.4 | 2017.4 | 2023.6 |
| 22.5° | 1989.5 | 1983.3 | 1980.2 | 1980.2 | 1980.2 |
| 25°   | 1949.2 | 1939.8 | 1936.7 | 1933.6 | 1936.7 |
| 27.5° | 1902.6 | 1890.2 | 1890.2 | 1887.1 | 1890.2 |
| 30°   | 1846.7 | 1840.5 | 1837.4 | 1834.3 | 1837.4 |
| 32.5° | 1794.0 | 1784.7 | 1781.6 | 1784.7 | 1784.7 |
| 35°   | 1735.0 | 1728.8 | 1725.7 | 1725.7 | 1725.7 |
| 37.5° | 1676.0 | 1666.7 | 1666.7 | 1663.6 | 1663.6 |
| 40°   | 1610.8 | 1604.6 | 1601.5 | 1601.5 | 1601.5 |
| 42.5° | 1542.6 | 1536.4 | 1533.3 | 1530.2 | 1530.2 |
| 45°   | 1474.3 | 1465.0 | 1465.0 | 1458.8 | 1458.8 |
| 47.5° | 1399.8 | 1393.6 | 1390.5 | 1384.3 | 1384.3 |
| 50°   | 1325.3 | 1319.1 | 1312.9 | 1312.9 | 1309.8 |
| 52.5° | 1241.5 | 1241.5 | 1238.4 | 1232.2 | 1232.2 |
| 55°   | 1163.9 | 1160.8 | 1157.7 | 1148.4 | 1148.4 |
| 57.5° | 1083.2 | 1080.1 | 1073.9 | 1064.6 | 1064.6 |
| 60°   | 993.2  | 993.2  | 990.1  | 977.7  | 980.8  |
| 62.5° | 909.4  | 906.3  | 903.2  | 893.9  | 890.8  |
| 65°   | 819.4  | 819.4  | 816.3  | 803.9  | 803.9  |
| 67.5° | 732.5  | 732.5  | 726.3  | 713.9  | 713.9  |
| 70°   | 648.7  | 639.4  | 636.3  | 627.0  | 623.9  |
| 72.5° | 555.6  | 552.5  | 546.3  | 536.9  | 536.9  |
| 75°   | 471.8  | 465.6  | 459.4  | 450.0  | 450.0  |
| 77.5° | 381.8  | 375.6  | 369.3  | 366.2  | 360.0  |
| 80°   | 298.0  | 294.9  | 291.8  | 282.4  | 279.3  |
| 82.5° | 214.2  | 211.1  | 208.0  | 204.8  | 201.7  |
| 85°   | 136.6  | 133.5  | 133.5  | 127.3  | 127.3  |
| 87.5° | 59.0   | 62.1   | 55.9   | 59.0   | 55.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)