

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1527154

Luminaire Tested: 24CGTX-72HE-F125-L840

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1527154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CGTX-72HE-F125-L840  
Description: CGTX with F125 Lens Option  
  
Light Source:  
Ballast/Driver: -

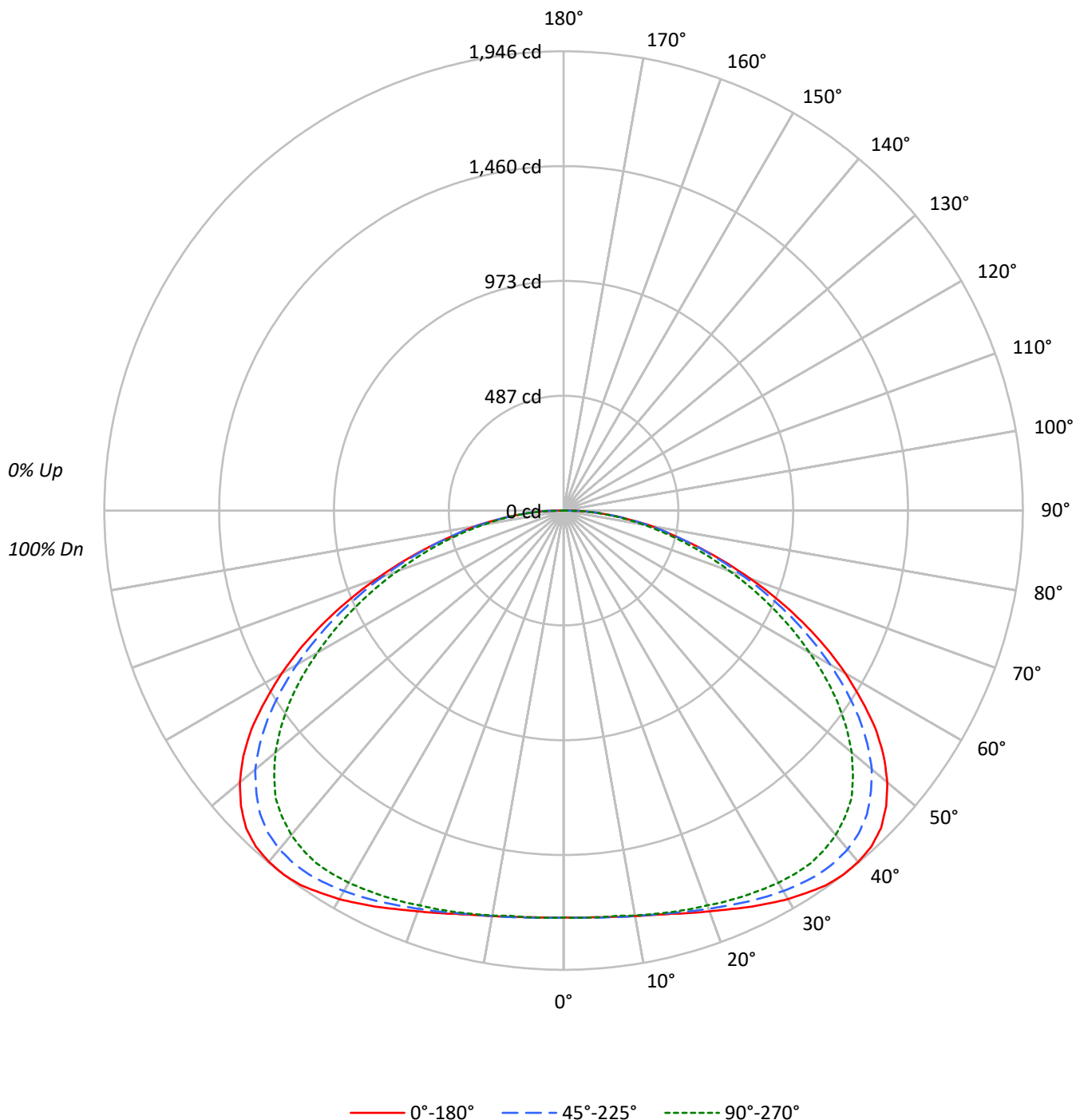
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7292.0 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 53.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 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  |     |     |  | 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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |  | 100 |
| 1   | 108 | 102 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  |  | 92  | 89  | 86  |  | 88  | 86  | 84  |  | 82  |
| 2   | 97  | 88  | 81  | 74  | 94  | 86  | 79  | 74  | 83  | 77  | 72  |  | 79  | 74  | 70  |  | 76  | 72  | 69  |  | 66  |
| 3   | 88  | 76  | 68  | 61  | 85  | 75  | 67  | 60  | 72  | 65  | 59  |  | 69  | 63  | 58  |  | 66  | 61  | 57  |  | 54  |
| 4   | 80  | 67  | 57  | 50  | 77  | 66  | 57  | 50  | 63  | 55  | 49  |  | 61  | 54  | 48  |  | 58  | 53  | 48  |  | 45  |
| 5   | 73  | 59  | 50  | 43  | 71  | 58  | 49  | 42  | 56  | 48  | 42  |  | 54  | 47  | 41  |  | 52  | 46  | 41  |  | 39  |
| 6   | 67  | 53  | 43  | 36  | 65  | 52  | 43  | 36  | 50  | 42  | 36  |  | 48  | 41  | 36  |  | 47  | 40  | 35  |  | 33  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  | 36  | 31  |  | 29  |
| 8   | 57  | 43  | 34  | 28  | 56  | 42  | 34  | 28  | 41  | 33  | 28  |  | 40  | 33  | 27  |  | 38  | 32  | 27  |  | 25  |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 37  | 30  | 25  |  | 36  | 29  | 24  |  | 35  | 29  | 24  |  | 22  |
| 10  | 50  | 36  | 28  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 22  |  | 33  | 27  | 22  |  | 33  | 26  | 22  |  | 20  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2320 | 2320 | 2320 |
| 5°  | 2336 | 2338 | 2336 |
| 10° | 2384 | 2384 | 2380 |
| 15° | 2464 | 2459 | 2453 |
| 20° | 2587 | 2571 | 2549 |
| 25° | 2753 | 2717 | 2677 |
| 30° | 2954 | 2892 | 2829 |
| 35° | 3183 | 3091 | 2997 |
| 40° | 3413 | 3290 | 3152 |
| 45° | 3620 | 3460 | 3284 |
| 50° | 3748 | 3570 | 3335 |
| 55° | 3788 | 3583 | 3326 |
| 60° | 3710 | 3511 | 3241 |
| 65° | 3551 | 3380 | 3113 |
| 70° | 3307 | 3197 | 2947 |
| 75° | 3028 | 3008 | 2790 |
| 80° | 2937 | 2877 | 2670 |
| 85° | 2729 | 2847 | 2669 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3788 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.6  | 2.3       |
| 10°-20°   | 501.6  | 6.9       |
| 20°-30°   | 847.2  | 11.6      |
| 30°-40°   | 1178.6 | 16.2      |
| 40°-50°   | 1395.1 | 19.1      |
| 50°-60°   | 1353.6 | 18.6      |
| 60°-70°   | 1042.9 | 14.3      |
| 70°-80°   | 608.5  | 8.3       |
| 80°-90°   | 198.9  | 2.7       |
| 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°    | 1514.5 | 20.8      |
| 0°-40°    | 2693.0 | 36.9      |
| 0°-60°    | 5441.7 | 74.6      |
| 0°-90°    | 7292.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7292.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1724 | 1724  | 1724 | 1724  | 1724 |      |
| 5°  | 1730 | 1731  | 1731 | 1731  | 1730 | 166  |
| 15° | 1769 | 1769  | 1765 | 1761  | 1761 | 503  |
| 25° | 1854 | 1846  | 1830 | 1811  | 1803 | 859  |
| 35° | 1938 | 1922  | 1882 | 1843  | 1825 | 1214 |
| 45° | 1902 | 1877  | 1818 | 1756  | 1726 | 1461 |
| 55° | 1615 | 1587  | 1527 | 1456  | 1418 | 1434 |
| 65° | 1115 | 1102  | 1062 | 1007  | 978  | 1102 |
| 75° | 582  | 596   | 579  | 552   | 537  | 624  |
| 85° | 177  | 186   | 184  | 181   | 173  | 198  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1724.4 | 1724.4 | 1724.4 | 1724.4 | 1724.4 |
| 2.5°  | 1725.7 | 1726.9 | 1726.9 | 1726.9 | 1726.9 |
| 5°    | 1729.5 | 1730.7 | 1730.7 | 1730.7 | 1729.5 |
| 7.5°  | 1735.8 | 1735.8 | 1737.1 | 1735.8 | 1732.0 |
| 10°   | 1744.7 | 1744.7 | 1744.7 | 1743.5 | 1742.2 |
| 12.5° | 1754.9 | 1756.2 | 1753.6 | 1752.4 | 1751.1 |
| 15°   | 1768.9 | 1768.9 | 1765.1 | 1761.3 | 1761.3 |
| 17.5° | 1788.0 | 1785.4 | 1780.3 | 1774.0 | 1771.4 |
| 20°   | 1807.0 | 1804.5 | 1795.6 | 1785.4 | 1780.3 |
| 22.5° | 1828.7 | 1823.6 | 1812.1 | 1798.1 | 1793.1 |
| 25°   | 1854.1 | 1846.5 | 1829.9 | 1810.9 | 1803.2 |
| 27.5° | 1877.0 | 1866.8 | 1846.5 | 1824.8 | 1812.1 |
| 30°   | 1901.1 | 1888.4 | 1861.7 | 1833.7 | 1821.0 |
| 32.5° | 1920.2 | 1907.5 | 1873.2 | 1841.4 | 1824.8 |
| 35°   | 1938.0 | 1921.5 | 1882.1 | 1842.7 | 1824.8 |
| 37.5° | 1945.7 | 1927.9 | 1882.1 | 1836.3 | 1813.4 |
| 40°   | 1943.1 | 1924.0 | 1873.2 | 1821.0 | 1794.3 |
| 42.5° | 1930.4 | 1907.5 | 1852.8 | 1794.3 | 1763.8 |
| 45°   | 1902.4 | 1877.0 | 1818.5 | 1756.2 | 1725.7 |
| 47.5° | 1854.1 | 1828.7 | 1766.4 | 1700.2 | 1663.3 |
| 50°   | 1790.5 | 1763.8 | 1705.3 | 1631.6 | 1593.4 |
| 52.5° | 1710.4 | 1683.7 | 1622.7 | 1547.6 | 1510.7 |
| 55°   | 1615.0 | 1587.0 | 1527.3 | 1456.1 | 1417.9 |
| 57.5° | 1498.0 | 1477.7 | 1419.2 | 1351.8 | 1314.9 |
| 60°   | 1378.5 | 1358.1 | 1304.7 | 1241.2 | 1204.3 |
| 62.5° | 1250.1 | 1233.5 | 1185.2 | 1125.4 | 1093.6 |
| 65°   | 1115.3 | 1102.5 | 1061.8 | 1007.2 | 977.9  |
| 67.5° | 977.9  | 972.8  | 935.9  | 888.9  | 863.5  |
| 70°   | 840.6  | 843.1  | 812.6  | 770.6  | 749.0  |
| 72.5° | 707.0  | 716.0  | 691.8  | 657.5  | 642.2  |
| 75°   | 582.4  | 596.4  | 578.6  | 551.9  | 536.6  |
| 77.5° | 466.7  | 485.8  | 470.5  | 450.2  | 437.5  |
| 80°   | 379.0  | 377.7  | 371.3  | 356.1  | 344.6  |
| 82.5° | 272.1  | 277.2  | 273.4  | 264.5  | 258.1  |
| 85°   | 176.8  | 185.7  | 184.4  | 180.6  | 172.9  |
| 87.5° | 87.7   | 97.9   | 99.2   | 96.6   | 92.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 17.3             | 19.1 | 17.7 | 19.4 | 19.7 | 16.6           | 18.4 | 17.0 | 18.7 | 19.0 |
|                 | 3H   | 19.1             | 20.7 | 19.5 | 21.0 | 21.4 | 18.4           | 20.0 | 18.8 | 20.3 | 20.7 |
|                 | 4H   | 19.8             | 21.3 | 20.2 | 21.6 | 22.0 | 19.1           | 20.6 | 19.5 | 21.0 | 21.3 |
|                 | 6H   | 20.3             | 21.7 | 20.7 | 22.1 | 22.5 | 19.7           | 21.1 | 20.1 | 21.4 | 21.8 |
|                 | 8H   | 20.5             | 21.8 | 20.9 | 22.2 | 22.6 | 19.9           | 21.2 | 20.3 | 21.6 | 22.0 |
|                 | 12H  | 20.7             | 21.9 | 21.1 | 22.3 | 22.8 | 20.0           | 21.3 | 20.5 | 21.7 | 22.1 |
| 4H              | 2H   | 17.9             | 19.4 | 18.3 | 19.7 | 20.1 | 17.4           | 18.9 | 17.8 | 19.2 | 19.6 |
|                 | 3H   | 20.0             | 21.2 | 20.4 | 21.6 | 22.0 | 19.4           | 20.7 | 19.8 | 21.0 | 21.4 |
|                 | 4H   | 20.8             | 21.9 | 21.2 | 22.3 | 22.8 | 20.2           | 21.4 | 20.6 | 21.8 | 22.2 |
|                 | 6H   | 21.5             | 22.5 | 21.9 | 22.9 | 23.3 | 20.9           | 21.9 | 21.3 | 22.3 | 22.8 |
|                 | 8H   | 21.7             | 22.7 | 22.2 | 23.1 | 23.6 | 21.2           | 22.1 | 21.6 | 22.5 | 23.0 |
|                 | 12H  | 21.9             | 22.8 | 22.4 | 23.2 | 23.7 | 21.4           | 22.2 | 21.9 | 22.7 | 23.2 |
| 8H              | 4H   | 21.1             | 22.0 | 21.6 | 22.5 | 22.9 | 20.6           | 21.5 | 21.1 | 22.0 | 22.4 |
|                 | 6H   | 21.9             | 22.7 | 22.4 | 23.2 | 23.7 | 21.4           | 22.2 | 21.9 | 22.7 | 23.2 |
|                 | 8H   | 22.3             | 23.0 | 22.8 | 23.5 | 24.0 | 21.8           | 22.5 | 22.3 | 23.0 | 23.5 |
|                 | 12H  | 22.6             | 23.2 | 23.1 | 23.7 | 24.2 | 22.1           | 22.7 | 22.6 | 23.2 | 23.8 |
| 12H             | 4H   | 21.1             | 22.0 | 21.6 | 22.5 | 22.9 | 20.7           | 21.5 | 21.1 | 22.0 | 22.4 |
|                 | 6H   | 22.0             | 22.7 | 22.5 | 23.2 | 23.7 | 21.5           | 22.3 | 22.1 | 22.7 | 23.2 |
|                 | 8H   | 22.4             | 23.0 | 22.9 | 23.5 | 24.1 | 21.9           | 22.6 | 22.4 | 23.1 | 23.6 |













(END OF REPORT)