

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: P1526991

Luminaire Tested: 14CGTX-70HE-F125-L835

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1526991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CGTX-70HE-F125-L835  
Description: CGTX with F125 Lens Option  
  
Light Source:  
Ballast/Driver: -

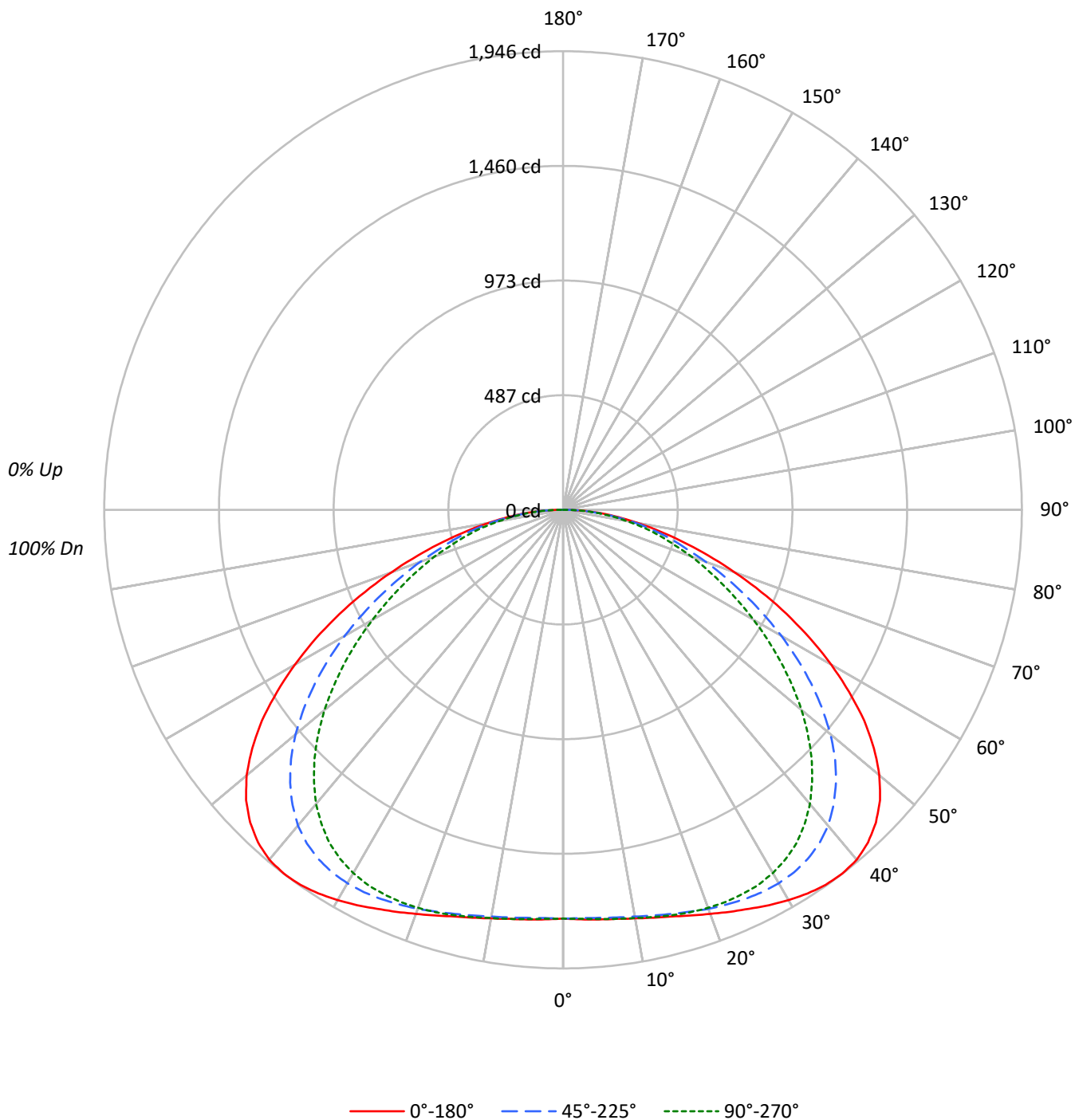
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6646.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.5  
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  |     |     |     |
| 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 | 103 | 99  | 94  | 105 | 101 | 97  | 93  | 96  | 93  | 90  |  | 93  | 90  | 87  |  | 89  | 87  | 85  | 82  |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  |  | 80  | 76  | 71  |  | 77  | 73  | 70  | 68  |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  |  | 70  | 64  | 59  |  | 68  | 63  | 58  | 56  |
| 4   | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 52  | 64  | 57  | 51  |  | 62  | 56  | 50  |  | 60  | 54  | 50  | 47  |
| 5   | 74  | 61  | 51  | 44  | 72  | 59  | 51  | 44  | 57  | 50  | 44  |  | 55  | 48  | 43  |  | 53  | 47  | 43  | 40  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 44  | 38  |  | 50  | 43  | 37  |  | 48  | 42  | 37  | 35  |
| 7   | 63  | 49  | 40  | 33  | 61  | 48  | 39  | 33  | 46  | 39  | 33  |  | 45  | 38  | 33  |  | 44  | 37  | 32  | 30  |
| 8   | 58  | 44  | 36  | 29  | 57  | 44  | 35  | 29  | 42  | 35  | 29  |  | 41  | 34  | 29  |  | 40  | 34  | 29  | 27  |
| 9   | 54  | 41  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  |  | 38  | 31  | 26  |  | 37  | 30  | 26  | 24  |
| 10  | 51  | 37  | 29  | 24  | 50  | 37  | 29  | 24  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 28  | 23  | 21  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4667 | 4667 | 4667 |
| 5°  | 4713 | 4694 | 4708 |
| 10° | 4810 | 4789 | 4805 |
| 15° | 4976 | 4945 | 4962 |
| 20° | 5224 | 5160 | 5148 |
| 25° | 5546 | 5412 | 5342 |
| 30° | 5941 | 5685 | 5529 |
| 35° | 6381 | 5942 | 5672 |
| 40° | 6808 | 6144 | 5723 |
| 45° | 7141 | 6230 | 5673 |
| 50° | 7333 | 6197 | 5529 |
| 55° | 7315 | 6025 | 5297 |
| 60° | 7070 | 5750 | 5021 |
| 65° | 6659 | 5400 | 4748 |
| 70° | 6092 | 5055 | 4564 |
| 75° | 5481 | 4869 | 4408 |
| 80° | 5012 | 4730 | 4260 |
| 85° | 4820 | 4523 | 4258 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 7348 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.7  | 2.5       |
| 10°-20°   | 505.4  | 7.6       |
| 20°-30°   | 845.7  | 12.7      |
| 30°-40°   | 1139.4 | 17.1      |
| 40°-50°   | 1278.1 | 19.2      |
| 50°-60°   | 1172.8 | 17.6      |
| 60°-70°   | 867.4  | 13.1      |
| 70°-80°   | 504.6  | 7.6       |
| 80°-90°   | 165.9  | 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°    | 1517.7 | 22.8      |
| 0°-40°    | 2657.1 | 40.0      |
| 0°-60°    | 5108.0 | 76.9      |
| 0°-90°    | 6646.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6646.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1734 | 1734  | 1734 | 1734  | 1734 |      |
| 5°  | 1745 | 1744  | 1738 | 1739  | 1743 | 167  |
| 15° | 1786 | 1783  | 1775 | 1777  | 1781 | 508  |
| 25° | 1868 | 1854  | 1823 | 1803  | 1799 | 866  |
| 35° | 1942 | 1902  | 1809 | 1746  | 1726 | 1216 |
| 45° | 1876 | 1805  | 1637 | 1526  | 1491 | 1442 |
| 55° | 1559 | 1470  | 1284 | 1165  | 1129 | 1385 |
| 65° | 1046 | 982   | 848  | 771   | 746  | 1034 |
| 75° | 527  | 520   | 468  | 431   | 424  | 565  |
| 85° | 156  | 160   | 146  | 148   | 138  | 171  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1734.3 | 1734.3 | 1734.3 | 1734.3 | 1734.3 |
| 2.5°  | 1739.5 | 1739.5 | 1733.4 | 1735.1 | 1736.9 |
| 5°    | 1744.7 | 1743.8 | 1737.7 | 1738.6 | 1742.9 |
| 7.5°  | 1750.7 | 1750.7 | 1744.7 | 1744.7 | 1750.7 |
| 10°   | 1760.3 | 1758.5 | 1752.5 | 1754.2 | 1758.5 |
| 12.5° | 1772.4 | 1769.0 | 1762.9 | 1764.6 | 1769.8 |
| 15°   | 1786.3 | 1782.8 | 1775.0 | 1776.8 | 1781.1 |
| 17.5° | 1804.5 | 1799.3 | 1788.0 | 1788.0 | 1790.6 |
| 20°   | 1824.4 | 1815.8 | 1801.9 | 1795.0 | 1797.6 |
| 22.5° | 1846.1 | 1834.9 | 1812.3 | 1800.2 | 1801.0 |
| 25°   | 1867.8 | 1853.9 | 1822.7 | 1802.8 | 1799.3 |
| 27.5° | 1891.2 | 1871.3 | 1828.8 | 1801.0 | 1794.1 |
| 30°   | 1912.0 | 1886.9 | 1829.7 | 1791.5 | 1779.4 |
| 32.5° | 1930.2 | 1897.3 | 1823.6 | 1773.3 | 1757.7 |
| 35°   | 1942.4 | 1901.6 | 1808.8 | 1745.5 | 1726.5 |
| 37.5° | 1945.8 | 1896.4 | 1784.6 | 1707.4 | 1682.2 |
| 40°   | 1938.0 | 1879.9 | 1749.0 | 1657.1 | 1629.3 |
| 42.5° | 1914.6 | 1850.5 | 1698.7 | 1596.4 | 1563.4 |
| 45°   | 1876.5 | 1805.4 | 1637.1 | 1526.2 | 1490.6 |
| 47.5° | 1823.6 | 1742.9 | 1565.2 | 1445.5 | 1408.2 |
| 50°   | 1751.6 | 1666.6 | 1480.2 | 1357.9 | 1320.6 |
| 52.5° | 1662.3 | 1573.8 | 1385.7 | 1265.1 | 1225.3 |
| 55°   | 1559.1 | 1469.8 | 1284.2 | 1164.6 | 1129.0 |
| 57.5° | 1438.6 | 1356.2 | 1177.6 | 1064.0 | 1030.2 |
| 60°   | 1313.7 | 1235.7 | 1068.3 | 963.4  | 933.0  |
| 62.5° | 1181.9 | 1110.8 | 958.2  | 863.7  | 837.7  |
| 65°   | 1045.8 | 982.5  | 848.1  | 770.9  | 745.7  |
| 67.5° | 909.6  | 861.1  | 743.1  | 674.6  | 660.8  |
| 70°   | 774.3  | 737.9  | 642.5  | 597.5  | 580.1  |
| 72.5° | 646.0  | 626.9  | 547.2  | 516.8  | 493.4  |
| 75°   | 527.2  | 520.3  | 468.3  | 431.0  | 424.0  |
| 77.5° | 419.7  | 430.1  | 385.0  | 358.1  | 352.1  |
| 80°   | 323.4  | 333.8  | 305.2  | 282.7  | 274.9  |
| 82.5° | 235.9  | 249.7  | 221.1  | 215.9  | 208.1  |
| 85°   | 156.1  | 160.4  | 146.5  | 148.3  | 137.9  |
| 87.5° | 76.3   | 85.0   | 77.2   | 79.8   | 74.6   |
| 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 | 19.6             | 21.3 | 19.9 | 21.6 | 21.9 | 17.7           | 19.4 | 18.1 | 19.8 | 20.1 |
|                 | 3H   | 21.3             | 22.8 | 21.7 | 23.2 | 23.5 | 19.5           | 21.0 | 19.8 | 21.3 | 21.7 |
|                 | 4H   | 21.9             | 23.4 | 22.3 | 23.7 | 24.1 | 20.2           | 21.6 | 20.6 | 22.0 | 22.3 |
|                 | 6H   | 22.4             | 23.8 | 22.8 | 24.1 | 24.5 | 20.7           | 22.1 | 21.2 | 22.5 | 22.8 |
|                 | 8H   | 22.6             | 23.9 | 23.0 | 24.3 | 24.7 | 21.0           | 22.3 | 21.4 | 22.6 | 23.0 |
|                 | 12H  | 22.7             | 24.0 | 23.2 | 24.4 | 24.8 | 21.1           | 22.4 | 21.6 | 22.8 | 23.2 |
| 4H              | 2H   | 20.0             | 21.4 | 20.4 | 21.8 | 22.1 | 18.5           | 20.0 | 18.9 | 20.3 | 20.7 |
|                 | 3H   | 22.0             | 23.2 | 22.4 | 23.6 | 24.0 | 20.5           | 21.7 | 20.9 | 22.1 | 22.5 |
|                 | 4H   | 22.8             | 23.9 | 23.2 | 24.3 | 24.7 | 21.3           | 22.4 | 21.7 | 22.8 | 23.2 |
|                 | 6H   | 23.4             | 24.4 | 23.9 | 24.8 | 25.3 | 22.0           | 23.0 | 22.4 | 23.4 | 23.9 |
|                 | 8H   | 23.7             | 24.6 | 24.1 | 25.0 | 25.5 | 22.3           | 23.2 | 22.7 | 23.6 | 24.1 |
|                 | 12H  | 23.9             | 24.7 | 24.3 | 25.2 | 25.6 | 22.5           | 23.3 | 23.0 | 23.8 | 24.3 |
| 8H              | 4H   | 23.0             | 23.9 | 23.5 | 24.4 | 24.8 | 21.7           | 22.6 | 22.2 | 23.0 | 23.5 |
|                 | 6H   | 23.8             | 24.6 | 24.3 | 25.1 | 25.5 | 22.6           | 23.3 | 23.0 | 23.8 | 24.3 |
|                 | 8H   | 24.1             | 24.8 | 24.7 | 25.3 | 25.8 | 22.9           | 23.6 | 23.4 | 24.1 | 24.6 |
|                 | 12H  | 24.4             | 25.0 | 24.9 | 25.5 | 26.1 | 23.3           | 23.9 | 23.8 | 24.4 | 24.9 |
| 12H             | 4H   | 23.0             | 23.9 | 23.5 | 24.3 | 24.8 | 21.8           | 22.6 | 22.2 | 23.1 | 23.5 |
|                 | 6H   | 23.9             | 24.6 | 24.4 | 25.0 | 25.6 | 22.7           | 23.4 | 23.2 | 23.8 | 24.4 |
|                 | 8H   | 24.3             | 24.9 | 24.8 | 25.4 | 25.9 | 23.1           | 23.7 | 23.6 | 24.2 | 24.8 |













(END OF REPORT)