

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: P1527016

Luminaire Tested: 22CGTX-25-F125-L830

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1527016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGTX-25-F125-L830  
Description: CGTX with F125 Lens Option  
  
Light Source:  
Ballast/Driver: -

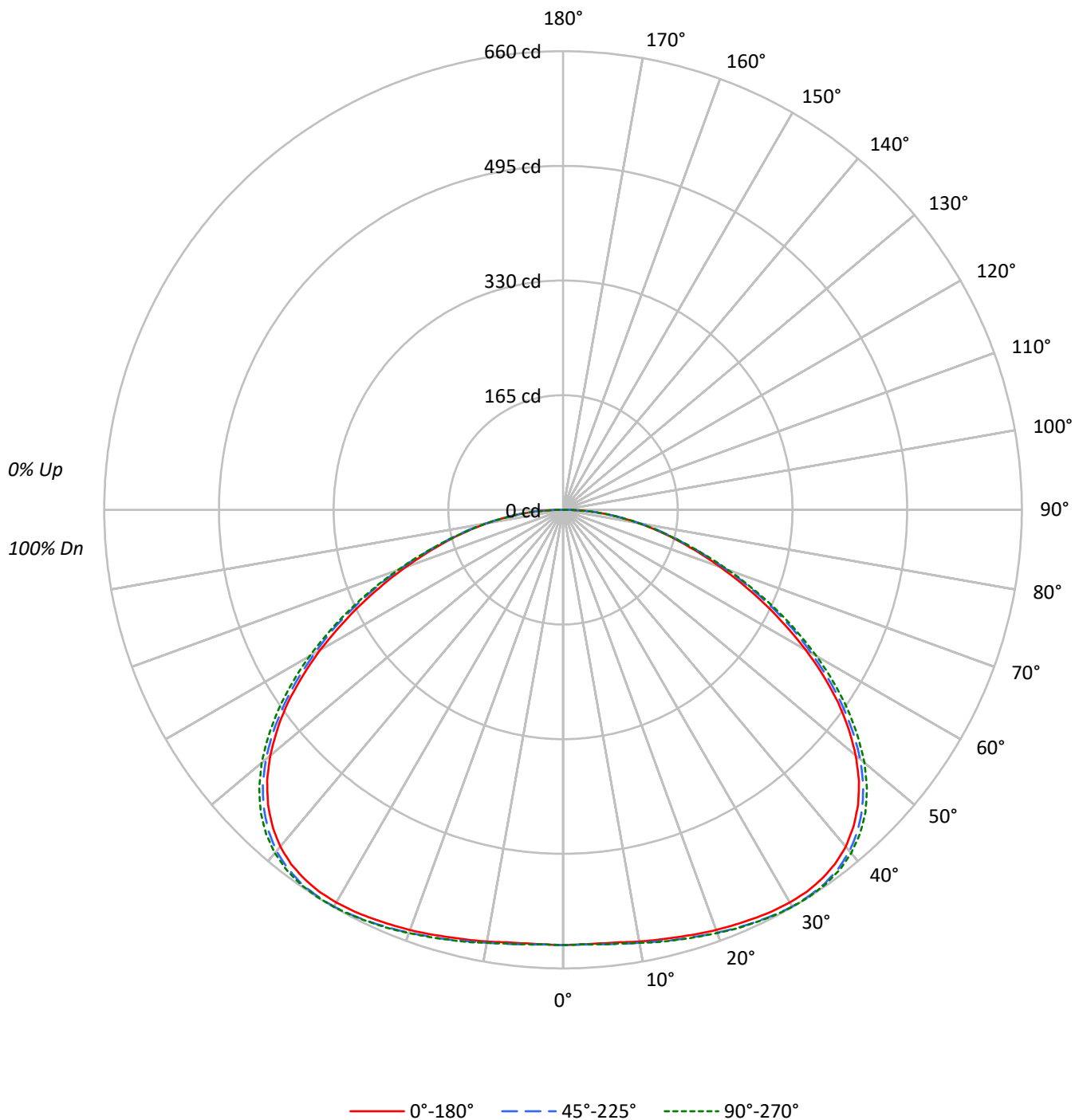
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2431.0 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.56 / 1.58 / 1.65  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 18.9  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.9  
Total Harmonic Distortion (THDi): ≈20%  
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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 108 | 103 | 98  | 94  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 92  | 90  | 87  | 89  | 87  | 84  | 82  |    |    |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 80  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 77  | 73  | 70  | 67  |    |    |
| 3   | 89  | 77  | 69  | 62  | 86  | 76  | 68  | 61  | 73  | 66  | 60  | 70  | 64  | 59  | 67  | 62  | 58  | 56  |    |    |
| 4   | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 51  | 64  | 57  | 51  | 62  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |
| 5   | 74  | 60  | 51  | 44  | 72  | 59  | 50  | 44  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 41  | 37  | 34  |    |    |
| 7   | 63  | 49  | 39  | 33  | 61  | 48  | 39  | 33  | 46  | 38  | 33  | 45  | 38  | 32  | 43  | 37  | 32  | 30  |    |    |
| 8   | 58  | 44  | 35  | 29  | 57  | 43  | 35  | 29  | 42  | 34  | 29  | 41  | 34  | 29  | 39  | 33  | 28  | 26  |    |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  | 24  |    |    |
| 10  | 51  | 37  | 29  | 23  | 49  | 36  | 29  | 23  | 35  | 28  | 23  | 34  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1685 | 1685 | 1685 |
| 5°  | 1692 | 1696 | 1696 |
| 10° | 1724 | 1729 | 1729 |
| 15° | 1773 | 1784 | 1784 |
| 20° | 1843 | 1855 | 1856 |
| 25° | 1927 | 1944 | 1945 |
| 30° | 2027 | 2049 | 2050 |
| 35° | 2131 | 2157 | 2161 |
| 40° | 2223 | 2252 | 2265 |
| 45° | 2284 | 2316 | 2341 |
| 50° | 2300 | 2336 | 2369 |
| 55° | 2266 | 2301 | 2343 |
| 60° | 2171 | 2218 | 2266 |
| 65° | 2036 | 2110 | 2145 |
| 70° | 1893 | 1962 | 1984 |
| 75° | 1776 | 1824 | 1824 |
| 80° | 1715 | 1737 | 1723 |
| 85° | 1667 | 1723 | 1667 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 2369 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.1   | 2.5       |
| 10°-20°   | 181.5  | 7.5       |
| 20°-30°   | 302.5  | 12.4      |
| 30°-40°   | 409.8  | 16.9      |
| 40°-50°   | 467.3  | 19.2      |
| 50°-60°   | 436.9  | 18.0      |
| 60°-70°   | 326.3  | 13.4      |
| 70°-80°   | 186.3  | 7.7       |
| 80°-90°   | 60.5   | 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°    | 544.0  | 22.4      |
| 0°-40°    | 953.8  | 39.2      |
| 0°-60°    | 1858.0 | 76.4      |
| 0°-90°    | 2431.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2431.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 626 | 626   | 626 | 626   | 626 |      |
| 5°  | 626 | 627   | 628 | 628   | 628 | 60   |
| 15° | 636 | 638   | 640 | 641   | 640 | 181  |
| 25° | 649 | 651   | 655 | 656   | 655 | 300  |
| 35° | 649 | 652   | 656 | 658   | 658 | 406  |
| 45° | 600 | 603   | 609 | 613   | 615 | 461  |
| 55° | 483 | 484   | 490 | 496   | 499 | 430  |
| 65° | 320 | 324   | 331 | 333   | 337 | 317  |
| 75° | 171 | 174   | 175 | 176   | 175 | 182  |
| 85° | 54  | 56    | 56  | 55    | 54  | 59   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 626.3 | 626.3 | 626.3 | 626.3 | 626.3 |
| 2.5°  | 625.8 | 626.3 | 626.3 | 627.2 | 625.8 |
| 5°    | 626.3 | 627.2 | 627.7 | 628.1 | 627.7 |
| 7.5°  | 627.7 | 629.1 | 630.0 | 630.5 | 629.5 |
| 10°   | 630.9 | 631.9 | 632.8 | 633.7 | 632.8 |
| 12.5° | 633.7 | 635.1 | 636.0 | 637.4 | 637.0 |
| 15°   | 636.5 | 638.4 | 640.2 | 640.7 | 640.2 |
| 17.5° | 640.2 | 641.6 | 643.5 | 644.4 | 644.4 |
| 20°   | 643.5 | 645.3 | 647.7 | 648.6 | 648.1 |
| 22.5° | 646.3 | 648.6 | 651.4 | 652.8 | 652.3 |
| 25°   | 649.1 | 651.4 | 654.7 | 655.6 | 655.1 |
| 27.5° | 651.4 | 654.2 | 657.4 | 658.8 | 657.9 |
| 30°   | 652.3 | 655.1 | 659.3 | 660.2 | 659.8 |
| 32.5° | 651.9 | 654.7 | 658.8 | 660.2 | 659.8 |
| 35°   | 648.6 | 651.9 | 656.5 | 658.4 | 657.9 |
| 37.5° | 642.6 | 645.8 | 650.5 | 652.8 | 653.3 |
| 40°   | 632.8 | 636.0 | 641.2 | 644.4 | 644.9 |
| 42.5° | 618.4 | 621.6 | 627.2 | 630.9 | 632.3 |
| 45°   | 600.2 | 603.0 | 608.6 | 612.8 | 615.1 |
| 47.5° | 577.4 | 579.7 | 585.8 | 590.4 | 592.8 |
| 50°   | 549.5 | 551.8 | 557.9 | 562.5 | 565.8 |
| 52.5° | 517.9 | 519.7 | 525.8 | 531.4 | 534.1 |
| 55°   | 483.0 | 484.4 | 490.4 | 496.0 | 499.3 |
| 57.5° | 443.4 | 447.6 | 452.3 | 457.4 | 461.1 |
| 60°   | 403.4 | 406.7 | 412.2 | 417.4 | 421.1 |
| 62.5° | 360.6 | 366.6 | 373.2 | 375.9 | 379.2 |
| 65°   | 319.7 | 324.3 | 331.3 | 333.1 | 336.9 |
| 67.5° | 279.2 | 284.3 | 290.3 | 291.7 | 294.1 |
| 70°   | 240.6 | 244.7 | 249.4 | 251.3 | 252.2 |
| 72.5° | 204.3 | 207.5 | 210.8 | 212.2 | 212.2 |
| 75°   | 170.8 | 173.6 | 175.4 | 175.9 | 175.4 |
| 77.5° | 140.5 | 141.0 | 145.2 | 142.4 | 141.9 |
| 80°   | 110.7 | 110.7 | 112.1 | 112.1 | 111.2 |
| 82.5° | 81.9  | 83.8  | 83.3  | 82.8  | 81.4  |
| 85°   | 54.0  | 56.3  | 55.8  | 54.9  | 54.0  |
| 87.5° | 26.5  | 29.3  | 27.9  | 29.3  | 27.0  |
| 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 | 15.2             | 17.0 | 15.6 | 17.3 | 17.6 | 15.4           | 17.1 | 15.8 | 17.4 | 17.8 |
|                 | 3H   | 16.9             | 18.5 | 17.3 | 18.8 | 19.2 | 17.1           | 18.7 | 17.5 | 19.0 | 19.4 |
|                 | 4H   | 17.6             | 19.0 | 18.0 | 19.4 | 19.8 | 17.8           | 19.2 | 18.2 | 19.6 | 20.0 |
|                 | 6H   | 18.1             | 19.5 | 18.5 | 19.8 | 20.2 | 18.3           | 19.7 | 18.7 | 20.0 | 20.4 |
|                 | 8H   | 18.3             | 19.6 | 18.7 | 20.0 | 20.4 | 18.5           | 19.8 | 18.9 | 20.2 | 20.6 |
|                 | 12H  | 18.5             | 19.7 | 18.9 | 20.1 | 20.5 | 18.6           | 19.9 | 19.1 | 20.2 | 20.7 |
| 4H              | 2H   | 15.9             | 17.4 | 16.3 | 17.7 | 18.1 | 16.0           | 17.5 | 16.4 | 17.8 | 18.2 |
|                 | 3H   | 17.8             | 19.0 | 18.2 | 19.4 | 19.8 | 18.0           | 19.2 | 18.4 | 19.6 | 20.0 |
|                 | 4H   | 18.6             | 19.7 | 19.0 | 20.1 | 20.5 | 18.8           | 19.9 | 19.2 | 20.3 | 20.7 |
|                 | 6H   | 19.3             | 20.2 | 19.7 | 20.7 | 21.1 | 19.4           | 20.4 | 19.9 | 20.8 | 21.3 |
|                 | 8H   | 19.5             | 20.4 | 20.0 | 20.9 | 21.3 | 19.6           | 20.6 | 20.1 | 21.0 | 21.5 |
|                 | 12H  | 19.7             | 20.5 | 20.2 | 21.0 | 21.5 | 19.8           | 20.7 | 20.3 | 21.1 | 21.6 |
| 8H              | 4H   | 18.9             | 19.8 | 19.4 | 20.3 | 20.7 | 19.1           | 20.0 | 19.5 | 20.4 | 20.9 |
|                 | 6H   | 19.7             | 20.5 | 20.2 | 21.0 | 21.5 | 19.9           | 20.6 | 20.3 | 21.1 | 21.6 |
|                 | 8H   | 20.1             | 20.8 | 20.6 | 21.3 | 21.8 | 20.2           | 20.9 | 20.7 | 21.4 | 21.9 |
|                 | 12H  | 20.4             | 21.0 | 20.9 | 21.5 | 22.0 | 20.5           | 21.1 | 21.0 | 21.6 | 22.1 |
| 12H             | 4H   | 19.0             | 19.8 | 19.4 | 20.3 | 20.7 | 19.1           | 19.9 | 19.6 | 20.4 | 20.9 |
|                 | 6H   | 19.8             | 20.5 | 20.3 | 21.0 | 21.5 | 19.9           | 20.6 | 20.5 | 21.1 | 21.6 |
|                 | 8H   | 20.2             | 20.8 | 20.7 | 21.3 | 21.9 | 20.3           | 20.9 | 20.8 | 21.4 | 22.0 |















(END OF REPORT)