

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: P1526856

Luminaire Tested: 24CGTX-20-A125-L840

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1526856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CGTX-20-A125-L840  
Description: CGTX with A125 Lens Option  
  
Light Source:  
Ballast/Driver: -

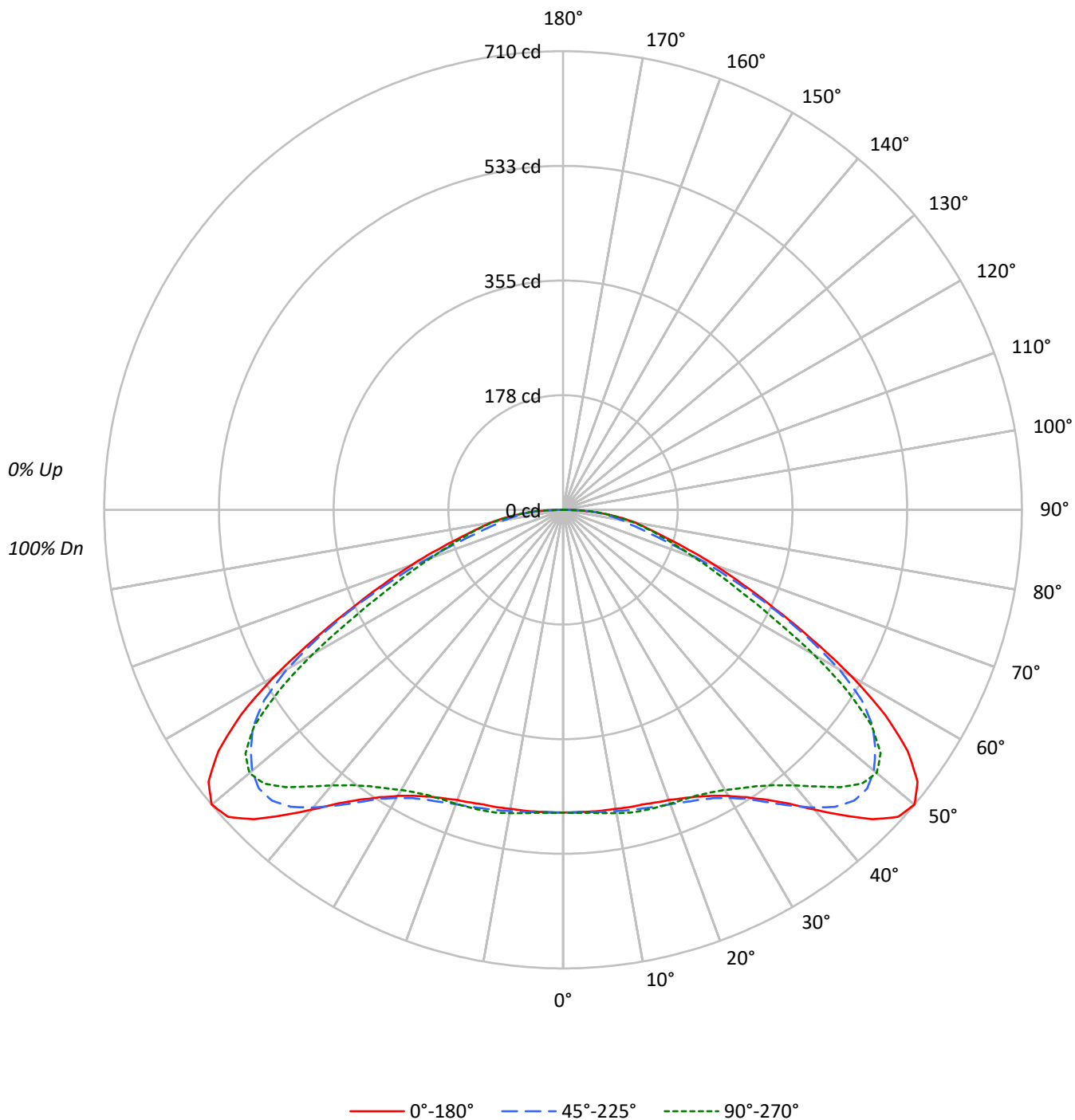
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2339.8 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.7  
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 | 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  | 80  | 74  | 94  | 86  | 79  | 73  | 82  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 68  | 66  |    |    |   |  |  |  |
| 3   | 87  | 76  | 67  | 60  | 85  | 74  | 66  | 59  | 71  | 64  | 58  | 68  | 62  | 57  | 66  | 60  | 56  | 54  |    |    |   |  |  |  |
| 4   | 79  | 66  | 56  | 49  | 77  | 65  | 56  | 49  | 62  | 54  | 48  | 60  | 53  | 47  | 57  | 51  | 47  | 44  |    |    |   |  |  |  |
| 5   | 72  | 58  | 48  | 41  | 70  | 57  | 48  | 41  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 37  |    |    |   |  |  |  |
| 6   | 66  | 51  | 42  | 35  | 64  | 50  | 41  | 35  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 39  | 34  | 31  |    |    |   |  |  |  |
| 7   | 61  | 46  | 36  | 30  | 59  | 45  | 36  | 30  | 43  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 27  |    |    |   |  |  |  |
| 8   | 56  | 41  | 32  | 26  | 54  | 41  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 25  | 37  | 30  | 25  | 23  |    |    |   |  |  |  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |   |  |  |  |
| 10  | 48  | 34  | 26  | 20  | 47  | 34  | 26  | 20  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 18  |    |    |   |  |  |  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 631  | 631  | 631  |
| 5°  | 634  | 635  | 636  |
| 10° | 642  | 647  | 651  |
| 15° | 658  | 666  | 671  |
| 20° | 684  | 694  | 693  |
| 25° | 727  | 736  | 725  |
| 30° | 794  | 800  | 778  |
| 35° | 900  | 908  | 858  |
| 40° | 1064 | 1057 | 978  |
| 45° | 1289 | 1212 | 1155 |
| 50° | 1486 | 1314 | 1326 |
| 55° | 1527 | 1373 | 1369 |
| 60° | 1388 | 1327 | 1205 |
| 65° | 1148 | 1127 | 983  |
| 70° | 980  | 883  | 854  |
| 75° | 849  | 703  | 809  |
| 80° | 879  | 713  | 851  |
| 85° | 888  | 857  | 945  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $52.5^\circ$

Luminance: 1528 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.0   | 1.9       |
| 10°-20°   | 135.7  | 5.8       |
| 20°-30°   | 229.2  | 9.8       |
| 30°-40°   | 345.0  | 14.7      |
| 40°-50°   | 490.5  | 21.0      |
| 50°-60°   | 526.4  | 22.5      |
| 60°-70°   | 343.1  | 14.7      |
| 70°-80°   | 165.0  | 7.0       |
| 80°-90°   | 60.0   | 2.6       |
| 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°    | 409.8  | 17.5      |
| 0°-40°    | 754.8  | 32.3      |
| 0°-60°    | 1771.7 | 75.7      |
| 0°-90°    | 2339.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2339.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 469 | 469   | 469 | 469   | 469 |      |
| 5°  | 469 | 470   | 470 | 472   | 471 | 45   |
| 15° | 472 | 475   | 478 | 481   | 482 | 134  |
| 25° | 490 | 494   | 496 | 491   | 488 | 228  |
| 35° | 548 | 558   | 553 | 534   | 522 | 348  |
| 45° | 677 | 661   | 637 | 620   | 607 | 520  |
| 55° | 651 | 634   | 585 | 568   | 583 | 570  |
| 65° | 361 | 358   | 354 | 316   | 309 | 365  |
| 75° | 163 | 154   | 135 | 154   | 156 | 179  |
| 85° | 58  | 54    | 56  | 57    | 61  | 63   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 468.7 | 468.7 | 468.7 | 468.7 | 468.7 |
| 2.5°  | 468.3 | 468.7 | 469.1 | 469.5 | 469.5 |
| 5°    | 469.1 | 469.5 | 469.9 | 471.6 | 470.7 |
| 7.5°  | 469.5 | 469.9 | 471.2 | 473.6 | 473.6 |
| 10°   | 469.9 | 471.2 | 473.6 | 476.0 | 476.8 |
| 12.5° | 471.6 | 472.8 | 476.0 | 479.3 | 480.1 |
| 15°   | 472.4 | 474.8 | 478.4 | 481.3 | 481.7 |
| 17.5° | 475.2 | 477.6 | 481.7 | 482.9 | 482.9 |
| 20°   | 478.0 | 481.3 | 484.9 | 484.9 | 484.1 |
| 22.5° | 483.3 | 487.0 | 489.8 | 487.4 | 485.7 |
| 25°   | 489.8 | 494.2 | 495.5 | 491.0 | 488.2 |
| 27.5° | 499.1 | 504.8 | 503.2 | 497.1 | 493.4 |
| 30°   | 511.3 | 518.6 | 514.9 | 506.0 | 500.7 |
| 32.5° | 527.5 | 536.4 | 530.3 | 519.0 | 510.9 |
| 35°   | 547.7 | 558.3 | 552.6 | 533.9 | 522.2 |
| 37.5° | 572.8 | 583.8 | 576.9 | 553.0 | 537.2 |
| 40°   | 605.7 | 611.3 | 601.6 | 575.7 | 556.6 |
| 42.5° | 641.3 | 638.5 | 623.5 | 599.6 | 580.9 |
| 45°   | 677.4 | 660.8 | 636.8 | 620.2 | 606.9 |
| 47.5° | 703.3 | 672.5 | 638.5 | 630.0 | 627.5 |
| 50°   | 709.8 | 670.1 | 627.9 | 624.7 | 633.6 |
| 52.5° | 691.5 | 657.1 | 608.9 | 603.2 | 619.4 |
| 55°   | 651.0 | 634.4 | 585.4 | 568.4 | 583.4 |
| 57.5° | 591.5 | 590.3 | 548.1 | 517.7 | 521.8 |
| 60°   | 515.7 | 520.6 | 493.0 | 450.1 | 447.7 |
| 62.5° | 433.9 | 436.7 | 424.6 | 380.0 | 371.5 |
| 65°   | 360.6 | 357.7 | 354.1 | 316.0 | 308.7 |
| 67.5° | 300.2 | 291.7 | 286.0 | 262.9 | 259.3 |
| 70°   | 249.1 | 235.8 | 224.4 | 220.8 | 217.1 |
| 72.5° | 201.7 | 192.0 | 173.8 | 183.9 | 183.5 |
| 75°   | 163.3 | 154.4 | 135.3 | 153.9 | 155.6 |
| 77.5° | 133.7 | 127.6 | 109.4 | 126.4 | 131.7 |
| 80°   | 113.4 | 100.9 | 92.0  | 102.9 | 109.8 |
| 82.5° | 86.7  | 77.0  | 74.9  | 79.4  | 85.9  |
| 85°   | 57.5  | 53.9  | 55.5  | 57.1  | 61.2  |
| 87.5° | 29.2  | 31.2  | 33.6  | 36.5  | 38.5  |
| 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 | 14.8             | 16.6 | 15.2 | 16.9 | 17.2 | 13.9           | 15.7 | 14.2 | 16.0 | 16.3 |
|                 | 3H   | 15.9             | 17.5 | 16.3 | 17.8 | 18.2 | 15.0           | 16.6 | 15.4 | 17.0 | 17.3 |
|                 | 4H   | 16.3             | 17.8 | 16.7 | 18.2 | 18.5 | 15.5           | 17.0 | 15.9 | 17.4 | 17.7 |
|                 | 6H   | 16.6             | 18.1 | 17.1 | 18.4 | 18.8 | 15.9           | 17.3 | 16.3 | 17.7 | 18.1 |
|                 | 8H   | 16.8             | 18.2 | 17.2 | 18.6 | 18.9 | 16.1           | 17.5 | 16.5 | 17.9 | 18.3 |
|                 | 12H  | 16.9             | 18.2 | 17.4 | 18.6 | 19.0 | 16.3           | 17.6 | 16.7 | 18.0 | 18.4 |
| 4H              | 2H   | 15.2             | 16.7 | 15.6 | 17.1 | 17.4 | 14.4           | 16.0 | 14.8 | 16.3 | 16.7 |
|                 | 3H   | 16.5             | 17.8 | 16.9 | 18.2 | 18.6 | 15.8           | 17.0 | 16.2 | 17.4 | 17.8 |
|                 | 4H   | 17.0             | 18.1 | 17.4 | 18.6 | 19.0 | 16.3           | 17.5 | 16.8 | 17.9 | 18.3 |
|                 | 6H   | 17.5             | 18.5 | 17.9 | 18.9 | 19.4 | 16.9           | 17.9 | 17.4 | 18.4 | 18.8 |
|                 | 8H   | 17.7             | 18.7 | 18.2 | 19.1 | 19.6 | 17.2           | 18.1 | 17.6 | 18.6 | 19.0 |
|                 | 12H  | 17.9             | 18.8 | 18.4 | 19.2 | 19.7 | 17.4           | 18.3 | 17.9 | 18.8 | 19.2 |
| 8H              | 4H   | 17.1             | 18.1 | 17.6 | 18.5 | 19.0 | 16.6           | 17.5 | 17.0 | 18.0 | 18.4 |
|                 | 6H   | 17.7             | 18.6 | 18.2 | 19.0 | 19.5 | 17.3           | 18.1 | 17.8 | 18.5 | 19.0 |
|                 | 8H   | 18.0             | 18.8 | 18.6 | 19.3 | 19.8 | 17.6           | 18.3 | 18.1 | 18.8 | 19.3 |
|                 | 12H  | 18.3             | 19.0 | 18.8 | 19.5 | 20.0 | 18.0           | 18.6 | 18.5 | 19.1 | 19.7 |
| 12H             | 4H   | 17.2             | 18.0 | 17.7 | 18.5 | 19.0 | 16.6           | 17.5 | 17.1 | 17.9 | 18.4 |
|                 | 6H   | 17.8             | 18.5 | 18.3 | 19.0 | 19.5 | 17.3           | 18.1 | 17.8 | 18.5 | 19.0 |
|                 | 8H   | 18.2             | 18.8 | 18.7 | 19.3 | 19.8 | 17.7           | 18.4 | 18.2 | 18.9 | 19.4 |













(END OF REPORT)