

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: P1527337

Luminaire Tested: 24CGSB-40-A125-L830

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1527337  
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: 24CGSB-40-A125-L830  
Description: CGTX with A125 Lens Option  
  
Light Source:  
Ballast/Driver: -

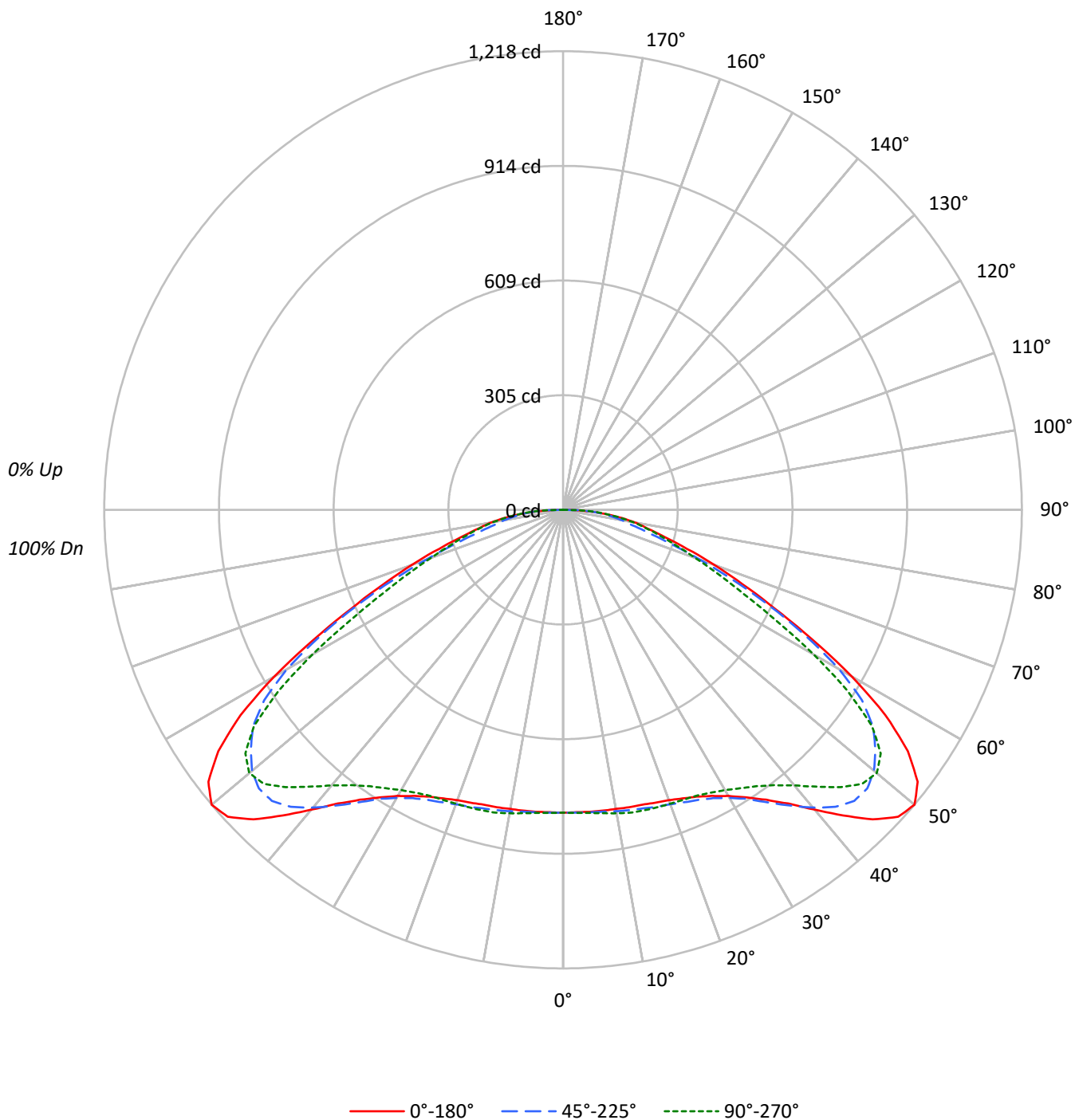
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4015.2 lumens  
Efficiency: N/A  
Efficacy: 125.1 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): 32.1  
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  | 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°  | 1082 | 1082 | 1082 |
| 5°  | 1087 | 1089 | 1091 |
| 10° | 1102 | 1110 | 1118 |
| 15° | 1129 | 1144 | 1151 |
| 20° | 1175 | 1192 | 1190 |
| 25° | 1248 | 1262 | 1244 |
| 30° | 1363 | 1373 | 1335 |
| 35° | 1544 | 1558 | 1472 |
| 40° | 1825 | 1813 | 1678 |
| 45° | 2212 | 2080 | 1982 |
| 50° | 2550 | 2256 | 2276 |
| 55° | 2621 | 2357 | 2348 |
| 60° | 2382 | 2277 | 2067 |
| 65° | 1970 | 1934 | 1686 |
| 70° | 1682 | 1515 | 1466 |
| 75° | 1457 | 1207 | 1388 |
| 80° | 1509 | 1223 | 1460 |
| 85° | 1524 | 1470 | 1621 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2623 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.2   | 1.9       |
| 10°-20°   | 232.8  | 5.8       |
| 20°-30°   | 393.2  | 9.8       |
| 30°-40°   | 592.0  | 14.7      |
| 40°-50°   | 841.8  | 21.0      |
| 50°-60°   | 903.4  | 22.5      |
| 60°-70°   | 588.7  | 14.7      |
| 70°-80°   | 283.1  | 7.0       |
| 80°-90°   | 103.0  | 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°    | 703.2  | 17.5      |
| 0°-40°    | 1295.2 | 32.3      |
| 0°-60°    | 3040.4 | 75.7      |
| 0°-90°    | 4015.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4015.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 804  | 804   | 804  | 804   | 804  |      |
| 5°  | 805  | 806   | 806  | 809   | 808  | 77   |
| 15° | 811  | 815   | 821  | 826   | 827  | 230  |
| 25° | 840  | 848   | 850  | 843   | 838  | 391  |
| 35° | 940  | 958   | 948  | 916   | 896  | 597  |
| 45° | 1162 | 1134  | 1093 | 1064  | 1041 | 892  |
| 55° | 1117 | 1089  | 1005 | 975   | 1001 | 977  |
| 65° | 619  | 614   | 608  | 542   | 530  | 626  |
| 75° | 280  | 265   | 232  | 264   | 267  | 308  |
| 85° | 99   | 92    | 95   | 98    | 105  | 107  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 804.3  | 804.3  | 804.3  | 804.3  | 804.3  |
| 2.5°  | 803.7  | 804.3  | 805.0  | 805.7  | 805.7  |
| 5°    | 805.0  | 805.7  | 806.4  | 809.2  | 807.8  |
| 7.5°  | 805.7  | 806.4  | 808.5  | 812.7  | 812.7  |
| 10°   | 806.4  | 808.5  | 812.7  | 816.9  | 818.3  |
| 12.5° | 809.2  | 811.3  | 816.9  | 822.4  | 823.8  |
| 15°   | 810.6  | 814.8  | 821.0  | 825.9  | 826.6  |
| 17.5° | 815.5  | 819.6  | 826.6  | 828.7  | 828.7  |
| 20°   | 820.3  | 825.9  | 832.2  | 832.2  | 830.8  |
| 22.5° | 829.4  | 835.6  | 840.5  | 836.3  | 833.5  |
| 25°   | 840.5  | 848.1  | 850.2  | 842.6  | 837.7  |
| 27.5° | 856.5  | 866.2  | 863.4  | 853.0  | 846.8  |
| 30°   | 877.3  | 889.9  | 883.6  | 868.3  | 859.3  |
| 32.5° | 905.2  | 920.4  | 910.0  | 890.6  | 876.6  |
| 35°   | 939.9  | 958.0  | 948.3  | 916.3  | 896.1  |
| 37.5° | 983.0  | 1001.8 | 990.0  | 949.0  | 921.8  |
| 40°   | 1039.3 | 1049.1 | 1032.4 | 987.9  | 955.2  |
| 42.5° | 1100.5 | 1095.6 | 1069.9 | 1028.9 | 996.9  |
| 45°   | 1162.4 | 1133.9 | 1092.9 | 1064.4 | 1041.4 |
| 47.5° | 1206.9 | 1154.0 | 1095.6 | 1081.0 | 1076.9 |
| 50°   | 1218.0 | 1149.9 | 1077.6 | 1072.0 | 1087.3 |
| 52.5° | 1186.7 | 1127.6 | 1044.9 | 1035.2 | 1063.0 |
| 55°   | 1117.2 | 1088.7 | 1004.6 | 975.4  | 1001.1 |
| 57.5° | 1015.0 | 1012.9 | 940.6  | 888.5  | 895.4  |
| 60°   | 885.0  | 893.3  | 846.1  | 772.4  | 768.2  |
| 62.5° | 744.6  | 749.4  | 728.6  | 652.1  | 637.5  |
| 65°   | 618.7  | 613.9  | 607.6  | 542.3  | 529.7  |
| 67.5° | 515.1  | 500.5  | 490.8  | 451.2  | 444.9  |
| 70°   | 427.5  | 404.6  | 385.1  | 378.9  | 372.6  |
| 72.5° | 346.2  | 329.5  | 298.2  | 315.6  | 314.9  |
| 75°   | 280.2  | 264.9  | 232.2  | 264.2  | 267.0  |
| 77.5° | 229.4  | 219.0  | 187.7  | 216.9  | 225.9  |
| 80°   | 194.7  | 173.1  | 157.8  | 176.6  | 188.4  |
| 82.5° | 148.8  | 132.1  | 128.6  | 136.3  | 147.4  |
| 85°   | 98.7   | 92.5   | 95.2   | 98.0   | 105.0  |
| 87.5° | 50.1   | 53.5   | 57.7   | 62.6   | 66.0   |
| 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 | 16.7             | 18.5 | 17.0 | 18.8 | 19.1 | 15.8           | 17.5 | 16.1 | 17.9 | 18.2 |
|                 | 3H   | 17.8             | 19.4 | 18.1 | 19.7 | 20.1 | 16.9           | 18.5 | 17.3 | 18.8 | 19.2 |
|                 | 4H   | 18.2             | 19.7 | 18.6 | 20.0 | 20.4 | 17.4           | 18.9 | 17.8 | 19.2 | 19.6 |
|                 | 6H   | 18.5             | 19.9 | 18.9 | 20.3 | 20.7 | 17.8           | 19.2 | 18.2 | 19.6 | 20.0 |
|                 | 8H   | 18.7             | 20.0 | 19.1 | 20.4 | 20.8 | 18.0           | 19.4 | 18.4 | 19.7 | 20.1 |
|                 | 12H  | 18.8             | 20.1 | 19.2 | 20.5 | 20.9 | 18.2           | 19.5 | 18.6 | 19.9 | 20.3 |
| 4H              | 2H   | 17.1             | 18.6 | 17.5 | 19.0 | 19.3 | 16.3           | 17.8 | 16.7 | 18.2 | 18.6 |
|                 | 3H   | 18.4             | 19.6 | 18.8 | 20.0 | 20.4 | 17.6           | 18.9 | 18.0 | 19.3 | 19.7 |
|                 | 4H   | 18.9             | 20.0 | 19.3 | 20.4 | 20.9 | 18.2           | 19.4 | 18.7 | 19.8 | 20.2 |
|                 | 6H   | 19.4             | 20.4 | 19.8 | 20.8 | 21.3 | 18.8           | 19.8 | 19.3 | 20.3 | 20.7 |
|                 | 8H   | 19.6             | 20.5 | 20.0 | 21.0 | 21.4 | 19.1           | 20.0 | 19.5 | 20.5 | 20.9 |
|                 | 12H  | 19.8             | 20.6 | 20.2 | 21.1 | 21.6 | 19.3           | 20.2 | 19.8 | 20.6 | 21.1 |
| 8H              | 4H   | 19.0             | 20.0 | 19.5 | 20.4 | 20.9 | 18.4           | 19.4 | 18.9 | 19.8 | 20.3 |
|                 | 6H   | 19.6             | 20.4 | 20.1 | 20.9 | 21.4 | 19.1           | 19.9 | 19.6 | 20.4 | 20.9 |
|                 | 8H   | 19.9             | 20.6 | 20.4 | 21.1 | 21.6 | 19.5           | 20.2 | 20.0 | 20.7 | 21.2 |
|                 | 12H  | 20.2             | 20.9 | 20.7 | 21.3 | 21.9 | 19.8           | 20.5 | 20.3 | 21.0 | 21.5 |
| 12H             | 4H   | 19.1             | 19.9 | 19.5 | 20.4 | 20.9 | 18.5           | 19.3 | 18.9 | 19.8 | 20.3 |
|                 | 6H   | 19.7             | 20.4 | 20.2 | 20.9 | 21.4 | 19.2           | 19.9 | 19.7 | 20.4 | 20.9 |
|                 | 8H   | 20.0             | 20.7 | 20.5 | 21.2 | 21.7 | 19.6           | 20.3 | 20.1 | 20.7 | 21.3 |













(END OF REPORT)