

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: P1527045

Luminaire Tested: 22CGTX-45HE-F125-L850

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1527045  
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-45HE-F125-L850  
Description: CGTX with F125 Lens Option  
  
Light Source:  
Ballast/Driver: -

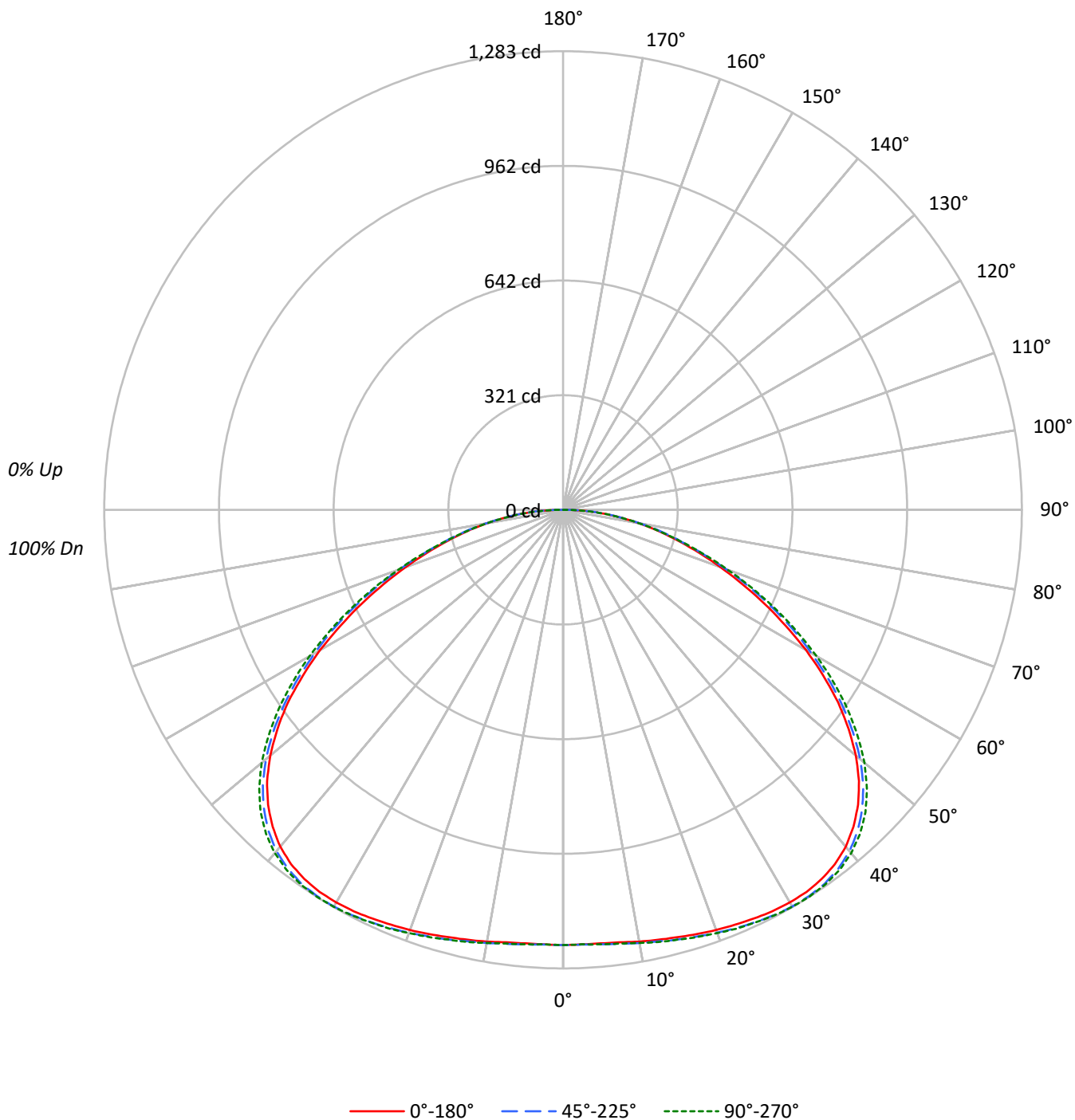
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 130.6 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): 36.2  
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 | 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°  | 3276 | 3276 | 3276 |
| 5°  | 3289 | 3296 | 3296 |
| 10° | 3352 | 3362 | 3362 |
| 15° | 3447 | 3467 | 3467 |
| 20° | 3582 | 3606 | 3608 |
| 25° | 3746 | 3779 | 3782 |
| 30° | 3941 | 3983 | 3985 |
| 35° | 4142 | 4193 | 4202 |
| 40° | 4321 | 4379 | 4404 |
| 45° | 4441 | 4502 | 4551 |
| 50° | 4472 | 4540 | 4605 |
| 55° | 4405 | 4473 | 4554 |
| 60° | 4221 | 4313 | 4406 |
| 65° | 3957 | 4101 | 4170 |
| 70° | 3679 | 3814 | 3858 |
| 75° | 3452 | 3545 | 3545 |
| 80° | 3336 | 3378 | 3350 |
| 85° | 3239 | 3350 | 3239 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4605 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.8  | 2.5       |
| 10°-20°   | 352.8  | 7.5       |
| 20°-30°   | 588.0  | 12.4      |
| 30°-40°   | 796.6  | 16.9      |
| 40°-50°   | 908.6  | 19.2      |
| 50°-60°   | 849.3  | 18.0      |
| 60°-70°   | 634.3  | 13.4      |
| 70°-80°   | 362.1  | 7.7       |
| 80°-90°   | 117.5  | 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°    | 1057.6 | 22.4      |
| 0°-40°    | 1854.2 | 39.2      |
| 0°-60°    | 3612.1 | 76.4      |
| 0°-90°    | 4726.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4726.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1218 | 1218  | 1218 | 1218  | 1218 |      |
| 5°  | 1218 | 1219  | 1220 | 1221  | 1220 | 116  |
| 15° | 1237 | 1241  | 1245 | 1246  | 1245 | 351  |
| 25° | 1262 | 1266  | 1273 | 1274  | 1274 | 584  |
| 35° | 1261 | 1267  | 1276 | 1280  | 1279 | 789  |
| 45° | 1167 | 1172  | 1183 | 1191  | 1196 | 897  |
| 55° | 939  | 942   | 953  | 964   | 971  | 835  |
| 65° | 621  | 630   | 644  | 648   | 655  | 616  |
| 75° | 332  | 337   | 341  | 342   | 341  | 354  |
| 85° | 105  | 109   | 108  | 107   | 105  | 115  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1217.5 | 1217.5 | 1217.5 | 1217.5 | 1217.5 |
| 2.5°  | 1216.6 | 1217.5 | 1217.5 | 1219.3 | 1216.6 |
| 5°    | 1217.5 | 1219.3 | 1220.2 | 1221.1 | 1220.2 |
| 7.5°  | 1220.2 | 1222.9 | 1224.7 | 1225.7 | 1223.8 |
| 10°   | 1226.6 | 1228.4 | 1230.2 | 1232.0 | 1230.2 |
| 12.5° | 1232.0 | 1234.7 | 1236.5 | 1239.2 | 1238.3 |
| 15°   | 1237.4 | 1241.0 | 1244.6 | 1245.6 | 1244.6 |
| 17.5° | 1244.6 | 1247.4 | 1251.0 | 1252.8 | 1252.8 |
| 20°   | 1251.0 | 1254.6 | 1259.1 | 1260.9 | 1260.0 |
| 22.5° | 1256.4 | 1260.9 | 1266.4 | 1269.1 | 1268.2 |
| 25°   | 1261.8 | 1266.4 | 1272.7 | 1274.5 | 1273.6 |
| 27.5° | 1266.4 | 1271.8 | 1278.1 | 1280.8 | 1279.0 |
| 30°   | 1268.2 | 1273.6 | 1281.7 | 1283.5 | 1282.6 |
| 32.5° | 1267.3 | 1272.7 | 1280.8 | 1283.5 | 1282.6 |
| 35°   | 1260.9 | 1267.3 | 1276.3 | 1279.9 | 1279.0 |
| 37.5° | 1249.2 | 1255.5 | 1264.5 | 1269.1 | 1270.0 |
| 40°   | 1230.2 | 1236.5 | 1246.5 | 1252.8 | 1253.7 |
| 42.5° | 1202.1 | 1208.5 | 1219.3 | 1226.6 | 1229.3 |
| 45°   | 1166.9 | 1172.3 | 1183.1 | 1191.3 | 1195.8 |
| 47.5° | 1122.5 | 1127.1 | 1138.8 | 1147.9 | 1152.4 |
| 50°   | 1068.3 | 1072.8 | 1084.5 | 1093.6 | 1099.9 |
| 52.5° | 1006.8 | 1010.4 | 1022.1 | 1033.0 | 1038.4 |
| 55°   | 938.9  | 941.6  | 953.4  | 964.2  | 970.6  |
| 57.5° | 862.0  | 870.2  | 879.2  | 889.2  | 896.4  |
| 60°   | 784.2  | 790.6  | 801.4  | 811.4  | 818.6  |
| 62.5° | 701.0  | 712.8  | 725.4  | 730.9  | 737.2  |
| 65°   | 621.4  | 630.5  | 644.0  | 647.7  | 654.9  |
| 67.5° | 542.7  | 552.7  | 564.4  | 567.1  | 571.7  |
| 70°   | 467.6  | 475.8  | 484.8  | 488.5  | 490.3  |
| 72.5° | 397.1  | 403.4  | 409.8  | 412.5  | 412.5  |
| 75°   | 332.0  | 337.4  | 341.0  | 341.9  | 341.0  |
| 77.5° | 273.2  | 274.1  | 282.2  | 276.8  | 275.9  |
| 80°   | 215.3  | 215.3  | 218.0  | 218.0  | 216.2  |
| 82.5° | 159.2  | 162.8  | 161.9  | 161.0  | 158.3  |
| 85°   | 104.9  | 109.4  | 108.5  | 106.7  | 104.9  |
| 87.5° | 51.6   | 57.0   | 54.3   | 57.0   | 52.5   |
| 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 | 17.6             | 19.3 | 17.9 | 19.6 | 19.9 | 17.7           | 19.4 | 18.1 | 19.8 | 20.1 |
|                 | 3H   | 19.2             | 20.8 | 19.6 | 21.1 | 21.5 | 19.5           | 21.0 | 19.8 | 21.3 | 21.7 |
|                 | 4H   | 19.9             | 21.4 | 20.3 | 21.7 | 22.1 | 20.1           | 21.6 | 20.5 | 21.9 | 22.3 |
|                 | 6H   | 20.4             | 21.8 | 20.8 | 22.1 | 22.5 | 20.6           | 22.0 | 21.0 | 22.3 | 22.7 |
|                 | 8H   | 20.6             | 21.9 | 21.0 | 22.3 | 22.7 | 20.8           | 22.1 | 21.2 | 22.5 | 22.9 |
|                 | 12H  | 20.8             | 22.0 | 21.2 | 22.4 | 22.8 | 20.9           | 22.2 | 21.4 | 22.6 | 23.0 |
| 4H              | 2H   | 18.2             | 19.7 | 18.6 | 20.0 | 20.4 | 18.3           | 19.8 | 18.7 | 20.1 | 20.5 |
|                 | 3H   | 20.1             | 21.3 | 20.5 | 21.7 | 22.1 | 20.3           | 21.5 | 20.7 | 21.9 | 22.3 |
|                 | 4H   | 20.9             | 22.0 | 21.3 | 22.4 | 22.9 | 21.1           | 22.2 | 21.5 | 22.6 | 23.0 |
|                 | 6H   | 21.6             | 22.5 | 22.0 | 23.0 | 23.4 | 21.7           | 22.7 | 22.2 | 23.1 | 23.6 |
|                 | 8H   | 21.8             | 22.7 | 22.3 | 23.2 | 23.6 | 22.0           | 22.9 | 22.4 | 23.3 | 23.8 |
|                 | 12H  | 22.0             | 22.9 | 22.5 | 23.3 | 23.8 | 22.2           | 23.0 | 22.6 | 23.5 | 23.9 |
| 8H              | 4H   | 21.2             | 22.1 | 21.7 | 22.6 | 23.1 | 21.4           | 22.3 | 21.8 | 22.7 | 23.2 |
|                 | 6H   | 22.0             | 22.8 | 22.5 | 23.3 | 23.8 | 22.2           | 22.9 | 22.7 | 23.4 | 23.9 |
|                 | 8H   | 22.4             | 23.1 | 22.9 | 23.6 | 24.1 | 22.5           | 23.2 | 23.0 | 23.7 | 24.2 |
|                 | 12H  | 22.7             | 23.3 | 23.2 | 23.8 | 24.4 | 22.8           | 23.4 | 23.3 | 23.9 | 24.4 |
| 12H             | 4H   | 21.3             | 22.1 | 21.8 | 22.6 | 23.0 | 21.4           | 22.2 | 21.9 | 22.7 | 23.2 |
|                 | 6H   | 22.1             | 22.8 | 22.6 | 23.3 | 23.8 | 22.2           | 22.9 | 22.8 | 23.4 | 23.9 |
|                 | 8H   | 22.5             | 23.1 | 23.0 | 23.6 | 24.2 | 22.6           | 23.2 | 23.1 | 23.7 | 24.3 |















(END OF REPORT)