

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: P1527040

Luminaire Tested: 22CGTX-45-F125-L840

Issue Date: 8/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1527040  
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-45-F125-L840  
Description: CGTX with F125 Lens Option  
  
Light Source:  
Ballast/Driver: -

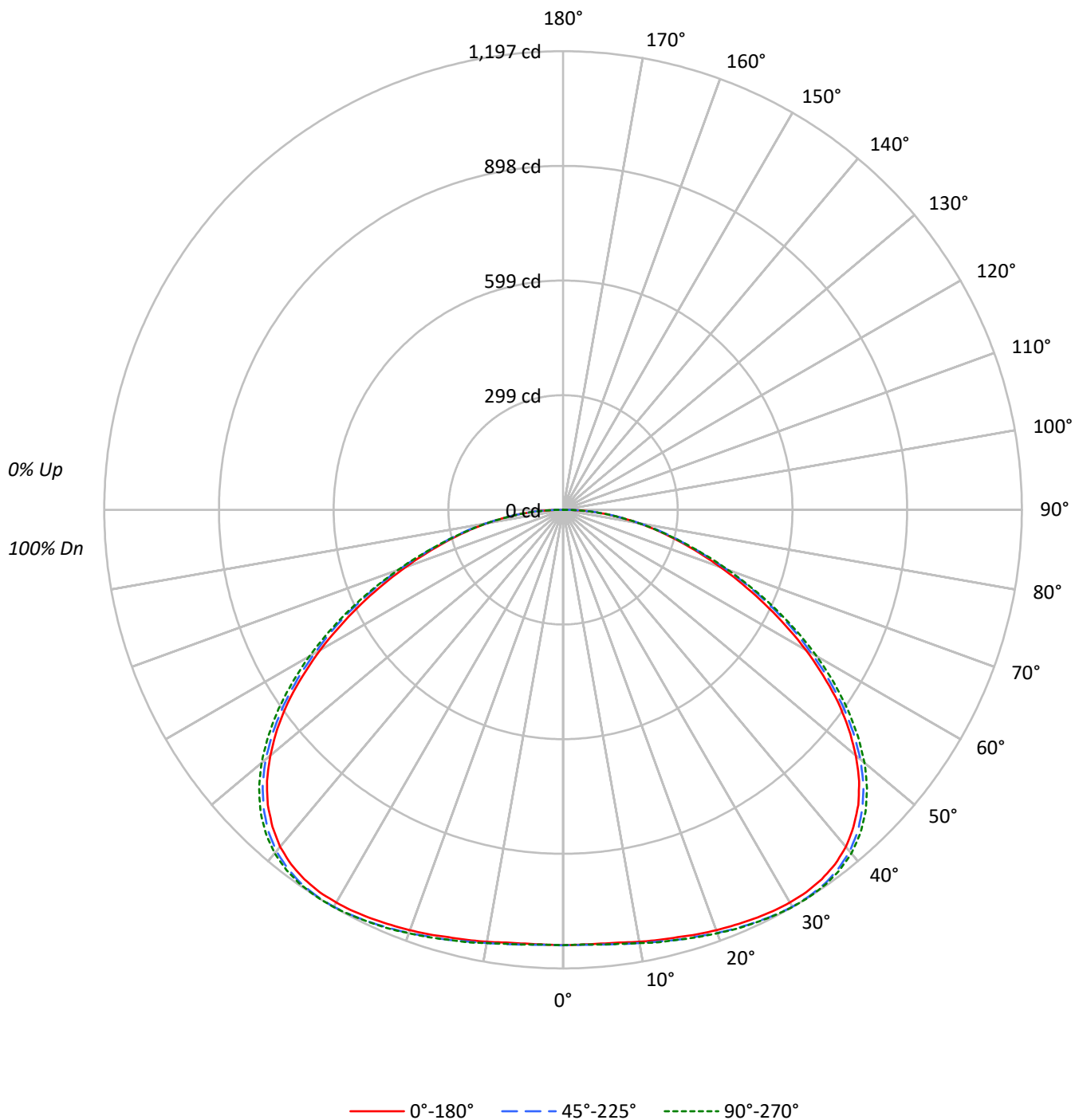
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4411.0 lumens  
Efficiency: N/A  
Efficacy: 122.2 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): 36.1  
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  |     |     |     |
| 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°  | 3058 | 3058 | 3058 |
| 5°  | 3070 | 3076 | 3076 |
| 10° | 3128 | 3137 | 3137 |
| 15° | 3217 | 3236 | 3236 |
| 20° | 3344 | 3365 | 3368 |
| 25° | 3497 | 3527 | 3529 |
| 30° | 3678 | 3717 | 3720 |
| 35° | 3866 | 3913 | 3922 |
| 40° | 4033 | 4087 | 4110 |
| 45° | 4145 | 4203 | 4247 |
| 50° | 4174 | 4238 | 4298 |
| 55° | 4111 | 4175 | 4250 |
| 60° | 3940 | 4026 | 4112 |
| 65° | 3693 | 3827 | 3892 |
| 70° | 3434 | 3560 | 3600 |
| 75° | 3221 | 3309 | 3309 |
| 80° | 3113 | 3154 | 3127 |
| 85° | 3023 | 3128 | 3023 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 50°

Luminance: 4298 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.0  | 2.5       |
| 10°-20°   | 329.3  | 7.5       |
| 20°-30°   | 548.8  | 12.4      |
| 30°-40°   | 743.5  | 16.9      |
| 40°-50°   | 848.0  | 19.2      |
| 50°-60°   | 792.7  | 18.0      |
| 60°-70°   | 592.0  | 13.4      |
| 70°-80°   | 338.0  | 7.7       |
| 80°-90°   | 109.7  | 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       |
| <hr/>     |        |           |
| 0°-30°    | 987.1  | 22.4      |
| 0°-40°    | 1730.6 | 39.2      |
| 0°-60°    | 3371.3 | 76.4      |
| 0°-90°    | 4411.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4411.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1136 | 1136  | 1136 | 1136  | 1136 |      |
| 5°  | 1136 | 1138  | 1139 | 1140  | 1139 | 109  |
| 15° | 1155 | 1158  | 1162 | 1162  | 1162 | 328  |
| 25° | 1178 | 1182  | 1188 | 1190  | 1189 | 545  |
| 35° | 1177 | 1183  | 1191 | 1195  | 1194 | 736  |
| 45° | 1089 | 1094  | 1104 | 1112  | 1116 | 837  |
| 55° | 876  | 879   | 890  | 900   | 906  | 779  |
| 65° | 580  | 588   | 601  | 604   | 611  | 575  |
| 75° | 310  | 315   | 318  | 319   | 318  | 331  |
| 85° | 98   | 102   | 101  | 100   | 98   | 107  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1136.4 | 1136.4 | 1136.4 | 1136.4 | 1136.4 |
| 2.5°  | 1135.5 | 1136.4 | 1136.4 | 1138.0 | 1135.5 |
| 5°    | 1136.4 | 1138.0 | 1138.9 | 1139.7 | 1138.9 |
| 7.5°  | 1138.9 | 1141.4 | 1143.1 | 1144.0 | 1142.3 |
| 10°   | 1144.8 | 1146.5 | 1148.2 | 1149.9 | 1148.2 |
| 12.5° | 1149.9 | 1152.4 | 1154.1 | 1156.6 | 1155.8 |
| 15°   | 1154.9 | 1158.3 | 1161.7 | 1162.5 | 1161.7 |
| 17.5° | 1161.7 | 1164.2 | 1167.6 | 1169.3 | 1169.3 |
| 20°   | 1167.6 | 1171.0 | 1175.2 | 1176.9 | 1176.0 |
| 22.5° | 1172.7 | 1176.9 | 1181.9 | 1184.5 | 1183.6 |
| 25°   | 1177.7 | 1181.9 | 1187.9 | 1189.5 | 1188.7 |
| 27.5° | 1181.9 | 1187.0 | 1192.9 | 1195.5 | 1193.8 |
| 30°   | 1183.6 | 1188.7 | 1196.3 | 1198.0 | 1197.1 |
| 32.5° | 1182.8 | 1187.9 | 1195.5 | 1198.0 | 1197.1 |
| 35°   | 1176.9 | 1182.8 | 1191.2 | 1194.6 | 1193.8 |
| 37.5° | 1165.9 | 1171.8 | 1180.3 | 1184.5 | 1185.3 |
| 40°   | 1148.2 | 1154.1 | 1163.4 | 1169.3 | 1170.1 |
| 42.5° | 1122.0 | 1127.9 | 1138.0 | 1144.8 | 1147.3 |
| 45°   | 1089.1 | 1094.1 | 1104.3 | 1111.9 | 1116.1 |
| 47.5° | 1047.7 | 1051.9 | 1062.9 | 1071.4 | 1075.6 |
| 50°   | 997.1  | 1001.3 | 1012.3 | 1020.7 | 1026.6 |
| 52.5° | 939.6  | 943.0  | 954.0  | 964.1  | 969.2  |
| 55°   | 876.3  | 878.9  | 889.8  | 900.0  | 905.9  |
| 57.5° | 804.6  | 812.2  | 820.6  | 829.9  | 836.7  |
| 60°   | 732.0  | 737.9  | 748.0  | 757.3  | 764.0  |
| 62.5° | 654.3  | 665.3  | 677.1  | 682.2  | 688.1  |
| 65°   | 580.0  | 588.4  | 601.1  | 604.5  | 611.2  |
| 67.5° | 506.5  | 515.8  | 526.8  | 529.3  | 533.6  |
| 70°   | 436.5  | 444.1  | 452.5  | 455.9  | 457.6  |
| 72.5° | 370.6  | 376.5  | 382.4  | 385.0  | 385.0  |
| 75°   | 309.8  | 314.9  | 318.3  | 319.1  | 318.3  |
| 77.5° | 255.0  | 255.8  | 263.4  | 258.3  | 257.5  |
| 80°   | 200.9  | 200.9  | 203.5  | 203.5  | 201.8  |
| 82.5° | 148.6  | 152.0  | 151.1  | 150.3  | 147.7  |
| 85°   | 97.9   | 102.2  | 101.3  | 99.6   | 97.9   |
| 87.5° | 48.1   | 53.2   | 50.7   | 53.2   | 49.0   |
| 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 | 17.3             | 19.0 | 17.7 | 19.3 | 19.7 | 17.5           | 19.2 | 17.9 | 19.5 | 19.8 |
|                 | 3H   | 19.0             | 20.6 | 19.4 | 20.9 | 21.2 | 19.2           | 20.8 | 19.6 | 21.1 | 21.5 |
|                 | 4H   | 19.7             | 21.1 | 20.0 | 21.5 | 21.8 | 19.9           | 21.3 | 20.3 | 21.7 | 22.0 |
|                 | 6H   | 20.2             | 21.5 | 20.6 | 21.9 | 22.3 | 20.4           | 21.7 | 20.8 | 22.1 | 22.5 |
|                 | 8H   | 20.4             | 21.7 | 20.8 | 22.1 | 22.5 | 20.5           | 21.8 | 21.0 | 22.2 | 22.6 |
|                 | 12H  | 20.5             | 21.8 | 21.0 | 22.2 | 22.6 | 20.7           | 21.9 | 21.1 | 22.3 | 22.7 |
| 4H              | 2H   | 18.0             | 19.4 | 18.4 | 19.8 | 20.1 | 18.1           | 19.6 | 18.5 | 19.9 | 20.3 |
|                 | 3H   | 19.9             | 21.1 | 20.3 | 21.5 | 21.9 | 20.0           | 21.3 | 20.5 | 21.7 | 22.1 |
|                 | 4H   | 20.7             | 21.8 | 21.1 | 22.2 | 22.6 | 20.8           | 21.9 | 21.3 | 22.3 | 22.8 |
|                 | 6H   | 21.3             | 22.3 | 21.8 | 22.7 | 23.2 | 21.5           | 22.4 | 21.9 | 22.9 | 23.3 |
|                 | 8H   | 21.6             | 22.5 | 22.0 | 22.9 | 23.4 | 21.7           | 22.6 | 22.2 | 23.1 | 23.5 |
|                 | 12H  | 21.8             | 22.6 | 22.3 | 23.1 | 23.6 | 21.9           | 22.7 | 22.4 | 23.2 | 23.7 |
| 8H              | 4H   | 21.0             | 21.9 | 21.5 | 22.4 | 22.8 | 21.1           | 22.1 | 21.6 | 22.5 | 23.0 |
|                 | 6H   | 21.8             | 22.6 | 22.3 | 23.0 | 23.5 | 21.9           | 22.7 | 22.4 | 23.2 | 23.6 |
|                 | 8H   | 22.1             | 22.8 | 22.7 | 23.3 | 23.8 | 22.3           | 22.9 | 22.8 | 23.4 | 23.9 |
|                 | 12H  | 22.5             | 23.1 | 23.0 | 23.6 | 24.1 | 22.5           | 23.2 | 23.1 | 23.6 | 24.2 |
| 12H             | 4H   | 21.0             | 21.9 | 21.5 | 22.3 | 22.8 | 21.2           | 22.0 | 21.7 | 22.5 | 23.0 |
|                 | 6H   | 21.9             | 22.6 | 22.4 | 23.0 | 23.6 | 22.0           | 22.7 | 22.5 | 23.2 | 23.7 |
|                 | 8H   | 22.3             | 22.9 | 22.8 | 23.4 | 23.9 | 22.4           | 23.0 | 22.9 | 23.5 | 24.1 |















(END OF REPORT)