

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1053671

Luminaire Tested: 24CGTS-L3C3-3500K-LOW

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-301-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTS-L3C3-3500K-LOW
Description: 2x4 Selectable Lumens and CCT LED Backlit Panel at 3500K CCT and LOW lumen settings
Light Source: -
Ballast/Driver: -

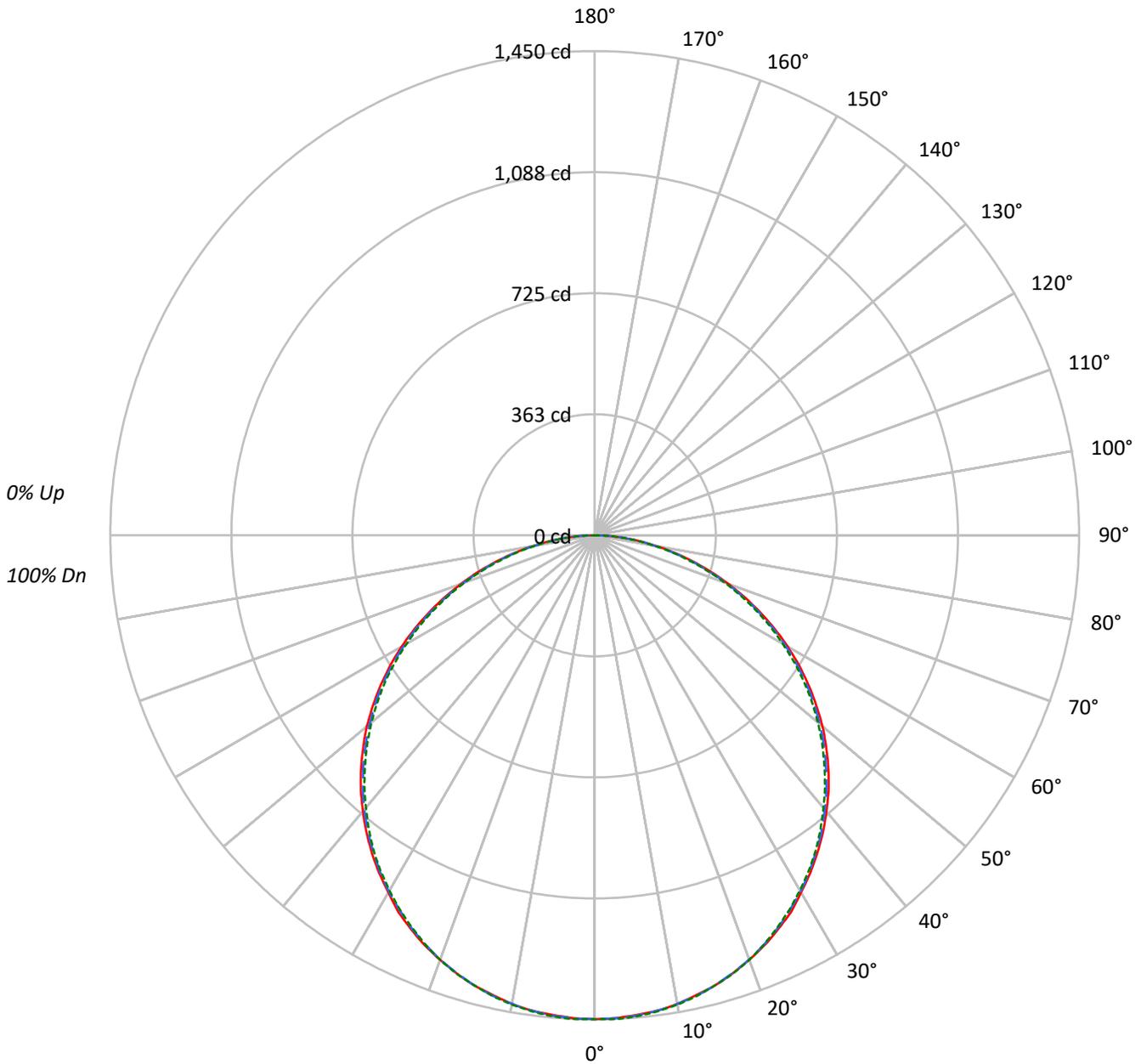
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4243.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ···· 90°-270°



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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 | 102 | 102 | 102 | 100 |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 85 | 85 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 71 | 71 | 71 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 60 | 60 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 51 | 51 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 45 | 45 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 39 | 39 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 35 | 35 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 28 | 28 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 25 | 25 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2257 | 2257 | 2257 |
| 5° | 2255 | 2258 | 2261 |
| 10° | 2254 | 2254 | 2257 |
| 15° | 2250 | 2250 | 2250 |
| 20° | 2243 | 2241 | 2243 |
| 25° | 2236 | 2229 | 2226 |
| 30° | 2222 | 2216 | 2209 |
| 35° | 2210 | 2198 | 2193 |
| 40° | 2194 | 2180 | 2166 |
| 45° | 2179 | 2157 | 2141 |
| 50° | 2157 | 2130 | 2113 |
| 55° | 2121 | 2100 | 2078 |
| 60° | 2078 | 2050 | 2025 |
| 65° | 2017 | 1991 | 1965 |
| 70° | 1940 | 1908 | 1886 |
| 75° | 1842 | 1806 | 1775 |
| 80° | 1695 | 1660 | 1633 |
| 85° | 1537 | 1501 | 1466 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2179 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.4 | 3.2 |
| 10°-20° | 394.1 | 9.3 |
| 20°-30° | 598.4 | 14.1 |
| 30°-40° | 723.5 | 17.1 |
| 40°-50° | 755.2 | 17.8 |
| 50°-60° | 689.5 | 16.2 |
| 60°-70° | 533.4 | 12.6 |
| 70°-80° | 316.7 | 7.5 |
| 80°-90° | 94.8 | 2.2 |
| 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° | 1129.9 | 26.6 |
| 0°-40° | 1853.4 | 43.7 |
| 0°-60° | 3298.0 | 77.7 |
| 0°-90° | 4243.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4243.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1449 | 1449 | 1449 | 1449 | 1449 | |
| 5° | 1442 | 1447 | 1444 | 1446 | 1446 | 137 |
| 15° | 1395 | 1397 | 1395 | 1398 | 1395 | 394 |
| 25° | 1301 | 1299 | 1297 | 1297 | 1295 | 600 |
| 35° | 1162 | 1159 | 1156 | 1152 | 1153 | 727 |
| 45° | 989 | 983 | 979 | 973 | 972 | 763 |
| 55° | 781 | 775 | 773 | 768 | 765 | 698 |
| 65° | 547 | 541 | 540 | 535 | 533 | 542 |
| 75° | 306 | 300 | 300 | 295 | 295 | 323 |
| 85° | 86 | 83 | 84 | 85 | 82 | 97 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1053671

CATALOG NUMBER: 24CGTS-L3C3-3500K-LOW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1449.2 | 1449.2 | 1449.2 | 1449.2 | 1449.2 |
| 2.5° | 1447.2 | 1450.2 | 1447.2 | 1451.2 | 1450.2 |
| 5° | 1442.2 | 1447.2 | 1444.2 | 1446.2 | 1446.2 |
| 7.5° | 1436.2 | 1438.2 | 1436.2 | 1440.2 | 1438.2 |
| 10° | 1425.2 | 1429.2 | 1425.2 | 1430.2 | 1427.2 |
| 12.5° | 1410.2 | 1414.2 | 1412.2 | 1415.2 | 1413.2 |
| 15° | 1395.2 | 1397.2 | 1395.2 | 1398.2 | 1395.2 |
| 17.5° | 1375.2 | 1377.2 | 1374.2 | 1377.2 | 1376.2 |
| 20° | 1353.2 | 1355.2 | 1352.1 | 1354.2 | 1353.2 |
| 22.5° | 1329.1 | 1331.1 | 1326.1 | 1327.1 | 1326.1 |
| 25° | 1301.1 | 1299.1 | 1297.1 | 1297.1 | 1295.1 |
| 27.5° | 1272.1 | 1269.1 | 1265.1 | 1265.1 | 1263.1 |
| 30° | 1235.1 | 1235.1 | 1232.1 | 1229.1 | 1228.1 |
| 32.5° | 1200.1 | 1198.1 | 1195.1 | 1194.1 | 1192.1 |
| 35° | 1162.1 | 1159.1 | 1156.1 | 1152.1 | 1153.1 |
| 37.5° | 1122.1 | 1118.1 | 1116.1 | 1111.1 | 1110.1 |
| 40° | 1079.1 | 1076.1 | 1072.1 | 1066.1 | 1065.1 |
| 42.5° | 1036.1 | 1031.1 | 1027.1 | 1021.1 | 1020.1 |
| 45° | 989.1 | 983.1 | 979.1 | 973.1 | 972.1 |
| 47.5° | 940.1 | 933.1 | 930.1 | 925.1 | 923.1 |
| 50° | 890.1 | 882.1 | 879.1 | 873.1 | 872.1 |
| 52.5° | 836.1 | 830.1 | 827.1 | 820.1 | 819.1 |
| 55° | 781.1 | 775.1 | 773.1 | 768.1 | 765.1 |
| 57.5° | 725.1 | 719.1 | 716.1 | 711.1 | 708.1 |
| 60° | 667.1 | 661.1 | 658.1 | 652.1 | 650.1 |
| 62.5° | 608.1 | 601.1 | 600.1 | 595.1 | 593.1 |
| 65° | 547.1 | 541.1 | 540.1 | 535.1 | 533.1 |
| 67.5° | 487.1 | 481.1 | 480.1 | 476.1 | 474.1 |
| 70° | 426.0 | 419.0 | 419.0 | 415.0 | 414.0 |
| 72.5° | 366.0 | 359.0 | 359.0 | 355.0 | 354.0 |
| 75° | 306.0 | 300.0 | 300.0 | 295.0 | 295.0 |
| 77.5° | 247.0 | 242.0 | 243.0 | 241.0 | 238.0 |
| 80° | 189.0 | 185.0 | 185.0 | 184.0 | 182.0 |
| 82.5° | 136.0 | 132.0 | 133.0 | 134.0 | 130.0 |
| 85° | 86.0 | 83.0 | 84.0 | 85.0 | 82.0 |
| 87.5° | 40.0 | 37.0 | 39.0 | 41.0 | 39.0 |
| 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 | 14.80 | 16.46 | 15.16 | 16.77 | 17.08 | 14.70 | 16.36 | 15.07 | 16.68 | 16.99 |
| | 3H | 16.68 | 18.19 | 17.06 | 18.51 | 18.87 | 16.57 | 18.08 | 16.95 | 18.40 | 18.76 |
| | 4H | 17.41 | 18.83 | 17.81 | 19.18 | 19.55 | 17.29 | 18.70 | 17.68 | 19.05 | 19.42 |
| | 6H | 17.97 | 19.28 | 18.38 | 19.65 | 20.04 | 17.83 | 19.14 | 18.24 | 19.51 | 19.90 |
| | 8H | 18.16 | 19.41 | 18.58 | 19.80 | 20.20 | 18.01 | 19.27 | 18.44 | 19.66 | 20.06 |
| | 12H | 18.29 | 19.50 | 18.72 | 19.88 | 20.31 | 18.14 | 19.35 | 18.57 | 19.73 | 20.16 |
| 4H | 2H | 15.45 | 16.86 | 15.85 | 17.21 | 17.59 | 15.37 | 16.79 | 15.77 | 17.14 | 17.51 |
| | 3H | 17.55 | 18.74 | 17.96 | 19.14 | 19.54 | 17.46 | 18.66 | 17.87 | 19.05 | 19.45 |
| | 4H | 18.41 | 19.49 | 18.84 | 19.90 | 20.34 | 18.31 | 19.39 | 18.74 | 19.80 | 20.23 |
| | 6H | 19.10 | 20.05 | 19.55 | 20.49 | 20.94 | 18.99 | 19.93 | 19.44 | 20.37 | 20.83 |
| | 8H | 19.34 | 20.23 | 19.80 | 20.67 | 21.13 | 19.22 | 20.11 | 19.68 | 20.55 | 21.02 |
| | 12H | 19.53 | 20.32 | 20.01 | 20.80 | 21.27 | 19.40 | 20.20 | 19.88 | 20.68 | 21.14 |
| 8H | 4H | 18.75 | 19.63 | 19.21 | 20.07 | 20.54 | 18.65 | 19.54 | 19.11 | 19.98 | 20.45 |
| | 6H | 19.56 | 20.30 | 20.06 | 20.79 | 21.26 | 19.47 | 20.21 | 19.96 | 20.69 | 21.17 |
| | 8H | 19.88 | 20.55 | 20.39 | 21.05 | 21.54 | 19.79 | 20.45 | 20.30 | 20.96 | 21.44 |
| | 12H | 20.15 | 20.74 | 20.66 | 21.23 | 21.79 | 20.05 | 20.64 | 20.56 | 21.13 | 21.69 |
| 12H | 4H | 18.79 | 19.58 | 19.27 | 20.06 | 20.53 | 18.70 | 19.49 | 19.18 | 19.97 | 20.44 |
| | 6H | 19.63 | 20.29 | 20.14 | 20.80 | 21.28 | 19.54 | 20.20 | 20.04 | 20.71 | 21.19 |
| | 8H | 20.01 | 20.60 | 20.52 | 21.09 | 21.65 | 19.92 | 20.51 | 20.43 | 21.00 | 21.56 |