

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: P1053672

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

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053672
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-MEDIUM
Description: 2x4 Selectable Lumens and CCT LED Backlit Panel at 3500K CCT and MEDIUM lumen settings
Light Source: -
Ballast/Driver: -

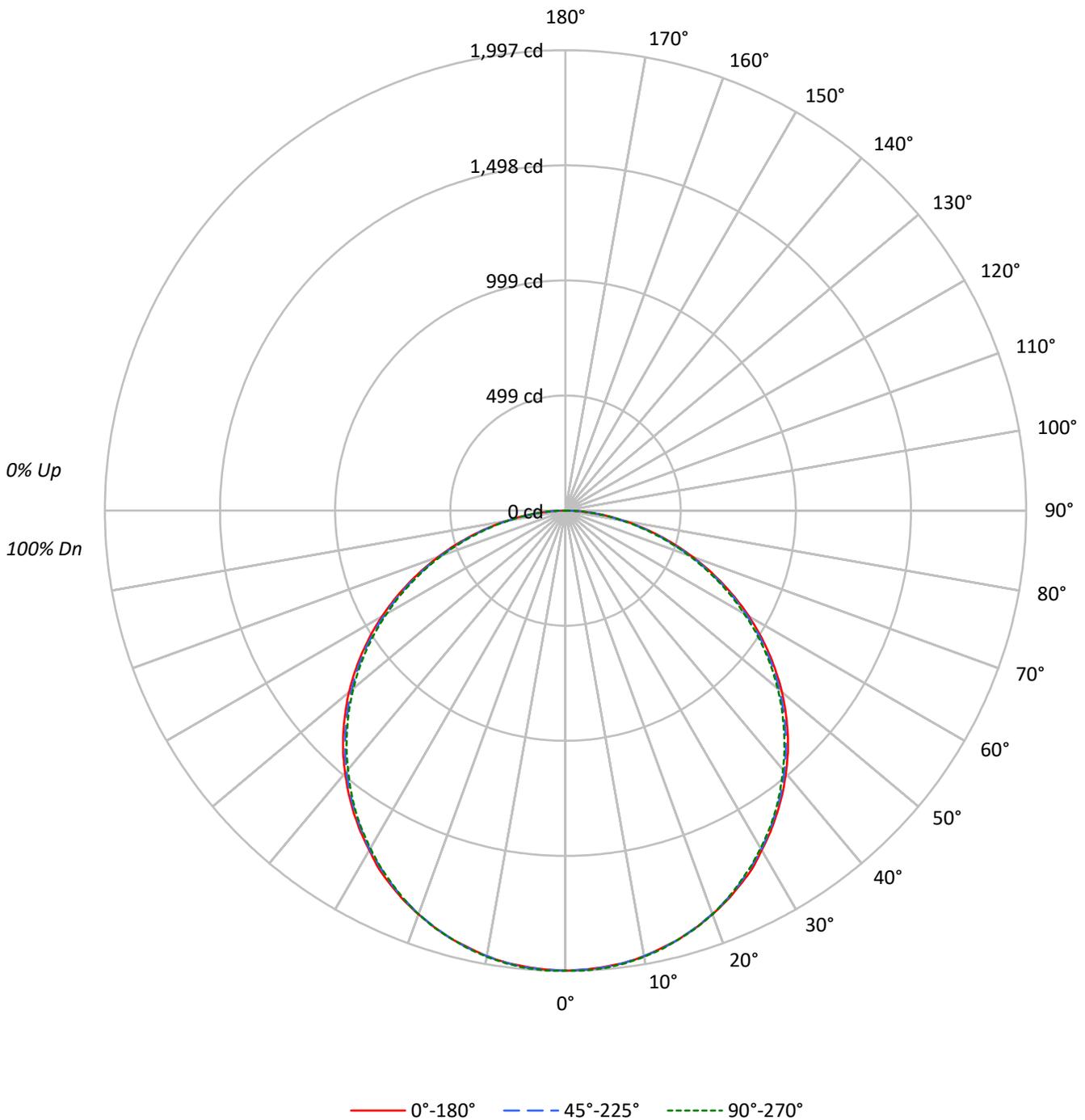
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5843.0 lumens
Efficiency: N/A
Efficacy: 140.5 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): 41.6
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

TEST NUMBER: P1053672
CATALOG NUMBER: 24CGTS-L3C3-3500K-MEDIUM

Luminous Intensity Polar Plot





TEST NUMBER: P1053672
 CATALOG NUMBER: 24CGTS-L3C3-3500K-MEDIUM

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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | 83 | 83 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | 69 | 69 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | 58 | 58 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | 49 | 49 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | 42 | 42 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | 37 | 37 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | 33 | 33 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | 29 | 29 | 29 |
| 9 | 56 | 42 | 34 | 28 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 | 26 | 26 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | 24 | 24 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3109 | 3109 | 3109 |
| 5° | 3105 | 3110 | 3114 |
| 10° | 3104 | 3104 | 3109 |
| 15° | 3098 | 3098 | 3098 |
| 20° | 3089 | 3087 | 3089 |
| 25° | 3080 | 3070 | 3065 |
| 30° | 3059 | 3052 | 3042 |
| 35° | 3043 | 3028 | 3020 |
| 40° | 3022 | 3002 | 2983 |
| 45° | 3001 | 2970 | 2949 |
| 50° | 2970 | 2934 | 2910 |
| 55° | 2921 | 2891 | 2861 |
| 60° | 2862 | 2823 | 2789 |
| 65° | 2777 | 2741 | 2706 |
| 70° | 2672 | 2628 | 2597 |
| 75° | 2536 | 2487 | 2445 |
| 80° | 2335 | 2286 | 2249 |
| 85° | 2116 | 2068 | 2018 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3001 cd/sqm



TEST NUMBER: P1053672
 CATALOG NUMBER: 24CGTS-L3C3-3500K-MEDIUM

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 189.2 | 3.2 |
| 10°-20° | 542.7 | 9.3 |
| 20°-30° | 824.0 | 14.1 |
| 30°-40° | 996.3 | 17.1 |
| 40°-50° | 1040.0 | 17.8 |
| 50°-60° | 949.4 | 16.2 |
| 60°-70° | 734.5 | 12.6 |
| 70°-80° | 436.2 | 7.5 |
| 80°-90° | 130.6 | 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° | 1556.0 | 26.6 |
| 0°-40° | 2552.3 | 43.7 |
| 0°-60° | 4541.7 | 77.7 |
| 0°-90° | 5843.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5843.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1996 | 1996 | 1996 | 1996 | 1996 | |
| 5° | 1986 | 1993 | 1989 | 1992 | 1992 | 189 |
| 15° | 1921 | 1924 | 1921 | 1925 | 1921 | 542 |
| 25° | 1792 | 1789 | 1786 | 1786 | 1784 | 826 |
| 35° | 1600 | 1596 | 1592 | 1587 | 1588 | 1001 |
| 45° | 1362 | 1354 | 1348 | 1340 | 1339 | 1050 |
| 55° | 1076 | 1067 | 1065 | 1058 | 1054 | 961 |
| 65° | 753 | 745 | 744 | 737 | 734 | 746 |
| 75° | 421 | 413 | 413 | 406 | 406 | 445 |
| 85° | 118 | 114 | 116 | 117 | 113 | 134 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1053672

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1995.6 | 1995.6 | 1995.6 | 1995.6 | 1995.6 |
| 2.5° | 1992.9 | 1997.0 | 1992.9 | 1998.4 | 1997.0 |
| 5° | 1986.0 | 1992.9 | 1988.7 | 1991.5 | 1991.5 |
| 7.5° | 1977.7 | 1980.5 | 1977.7 | 1983.2 | 1980.5 |
| 10° | 1962.6 | 1968.1 | 1962.6 | 1969.5 | 1965.3 |
| 12.5° | 1941.9 | 1947.4 | 1944.7 | 1948.8 | 1946.0 |
| 15° | 1921.3 | 1924.0 | 1921.3 | 1925.4 | 1921.3 |
| 17.5° | 1893.7 | 1896.5 | 1892.3 | 1896.5 | 1895.1 |
| 20° | 1863.4 | 1866.2 | 1862.0 | 1864.8 | 1863.4 |
| 22.5° | 1830.4 | 1833.1 | 1826.2 | 1827.6 | 1826.2 |
| 25° | 1791.8 | 1789.0 | 1786.3 | 1786.3 | 1783.5 |
| 27.5° | 1751.9 | 1747.7 | 1742.2 | 1742.2 | 1739.5 |
| 30° | 1700.9 | 1700.9 | 1696.8 | 1692.6 | 1691.3 |
| 32.5° | 1652.7 | 1649.9 | 1645.8 | 1644.4 | 1641.7 |
| 35° | 1600.4 | 1596.2 | 1592.1 | 1586.6 | 1588.0 |
| 37.5° | 1545.3 | 1539.8 | 1537.0 | 1530.1 | 1528.7 |
| 40° | 1486.0 | 1481.9 | 1476.4 | 1468.1 | 1466.8 |
| 42.5° | 1426.8 | 1419.9 | 1414.4 | 1406.2 | 1404.8 |
| 45° | 1362.1 | 1353.8 | 1348.3 | 1340.1 | 1338.7 |
| 47.5° | 1294.6 | 1285.0 | 1280.8 | 1274.0 | 1271.2 |
| 50° | 1225.7 | 1214.7 | 1210.6 | 1202.3 | 1201.0 |
| 52.5° | 1151.4 | 1143.1 | 1139.0 | 1129.3 | 1128.0 |
| 55° | 1075.6 | 1067.4 | 1064.6 | 1057.7 | 1053.6 |
| 57.5° | 998.5 | 990.2 | 986.1 | 979.2 | 975.1 |
| 60° | 918.6 | 910.4 | 906.2 | 898.0 | 895.2 |
| 62.5° | 837.4 | 827.7 | 826.3 | 819.5 | 816.7 |
| 65° | 753.4 | 745.1 | 743.7 | 736.8 | 734.1 |
| 67.5° | 670.7 | 662.5 | 661.1 | 655.6 | 652.8 |
| 70° | 586.7 | 577.1 | 577.1 | 571.6 | 570.2 |
| 72.5° | 504.1 | 494.4 | 494.4 | 488.9 | 487.5 |
| 75° | 421.4 | 413.2 | 413.2 | 406.3 | 406.3 |
| 77.5° | 340.2 | 333.3 | 334.7 | 331.9 | 327.8 |
| 80° | 260.3 | 254.8 | 254.8 | 253.4 | 250.7 |
| 82.5° | 187.3 | 181.8 | 183.2 | 184.6 | 179.0 |
| 85° | 118.4 | 114.3 | 115.7 | 117.1 | 112.9 |
| 87.5° | 55.1 | 51.0 | 53.7 | 56.5 | 53.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P1053672
 CATALOG NUMBER: 24CGTS-L3C3-3500K-MEDIUM

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 | 15.91 | 17.57 | 16.27 | 17.88 | 18.20 | 15.82 | 17.47 | 16.18 | 17.79 | 18.10 |
| | 3H | 17.80 | 19.30 | 18.17 | 19.62 | 19.98 | 17.69 | 19.19 | 18.06 | 19.51 | 19.87 |
| | 4H | 18.52 | 19.94 | 18.92 | 20.29 | 20.66 | 18.40 | 19.81 | 18.80 | 20.16 | 20.54 |
| | 6H | 19.08 | 20.40 | 19.49 | 20.76 | 21.15 | 18.94 | 20.26 | 19.35 | 20.62 | 21.01 |
| | 8H | 19.27 | 20.53 | 19.69 | 20.92 | 21.31 | 19.13 | 20.38 | 19.55 | 20.77 | 21.17 |
| | 12H | 19.41 | 20.61 | 19.83 | 20.99 | 21.42 | 19.26 | 20.46 | 19.68 | 20.84 | 21.27 |
| 4H | 2H | 16.56 | 17.98 | 16.96 | 18.32 | 18.70 | 16.49 | 17.90 | 16.88 | 18.25 | 18.62 |
| | 3H | 18.66 | 19.86 | 19.07 | 20.25 | 20.65 | 18.58 | 19.77 | 18.99 | 20.16 | 20.56 |
| | 4H | 19.52 | 20.60 | 19.95 | 21.02 | 21.45 | 19.42 | 20.50 | 19.85 | 20.91 | 21.35 |
| | 6H | 20.21 | 21.16 | 20.67 | 21.60 | 22.05 | 20.10 | 21.04 | 20.55 | 21.48 | 21.94 |
| | 8H | 20.45 | 21.34 | 20.91 | 21.78 | 22.25 | 20.34 | 21.22 | 20.80 | 21.66 | 22.13 |
| | 12H | 20.64 | 21.44 | 21.12 | 21.91 | 22.38 | 20.52 | 21.31 | 21.00 | 21.79 | 22.26 |
| 8H | 4H | 19.86 | 20.74 | 20.32 | 21.18 | 21.65 | 19.77 | 20.65 | 20.23 | 21.09 | 21.56 |
| | 6H | 20.68 | 21.41 | 21.17 | 21.90 | 22.37 | 20.58 | 21.32 | 21.07 | 21.80 | 22.28 |
| | 8H | 21.00 | 21.66 | 21.50 | 22.16 | 22.65 | 20.90 | 21.56 | 21.41 | 22.07 | 22.55 |
| | 12H | 21.26 | 21.85 | 21.77 | 22.34 | 22.90 | 21.17 | 21.75 | 21.67 | 22.24 | 22.80 |
| 12H | 4H | 19.90 | 20.70 | 20.38 | 21.17 | 21.64 | 19.81 | 20.61 | 20.29 | 21.08 | 21.55 |
| | 6H | 20.74 | 21.41 | 21.25 | 21.91 | 22.40 | 20.65 | 21.31 | 21.16 | 21.82 | 22.30 |
| | 8H | 21.12 | 21.71 | 21.63 | 22.20 | 22.76 | 21.03 | 21.62 | 21.54 | 22.11 | 22.67 |