

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: P1053678

Luminaire Tested: 24CGTS-L3C3-5000K-MEDIUM

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053678
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-L3C3-5000K-MEDIUM
Description: 2x4 Selectable Lumens and CCT LED Backlit Panel at 5000K CCT and MEDIUM lumen settings
Light Source: -
Ballast/Driver: -

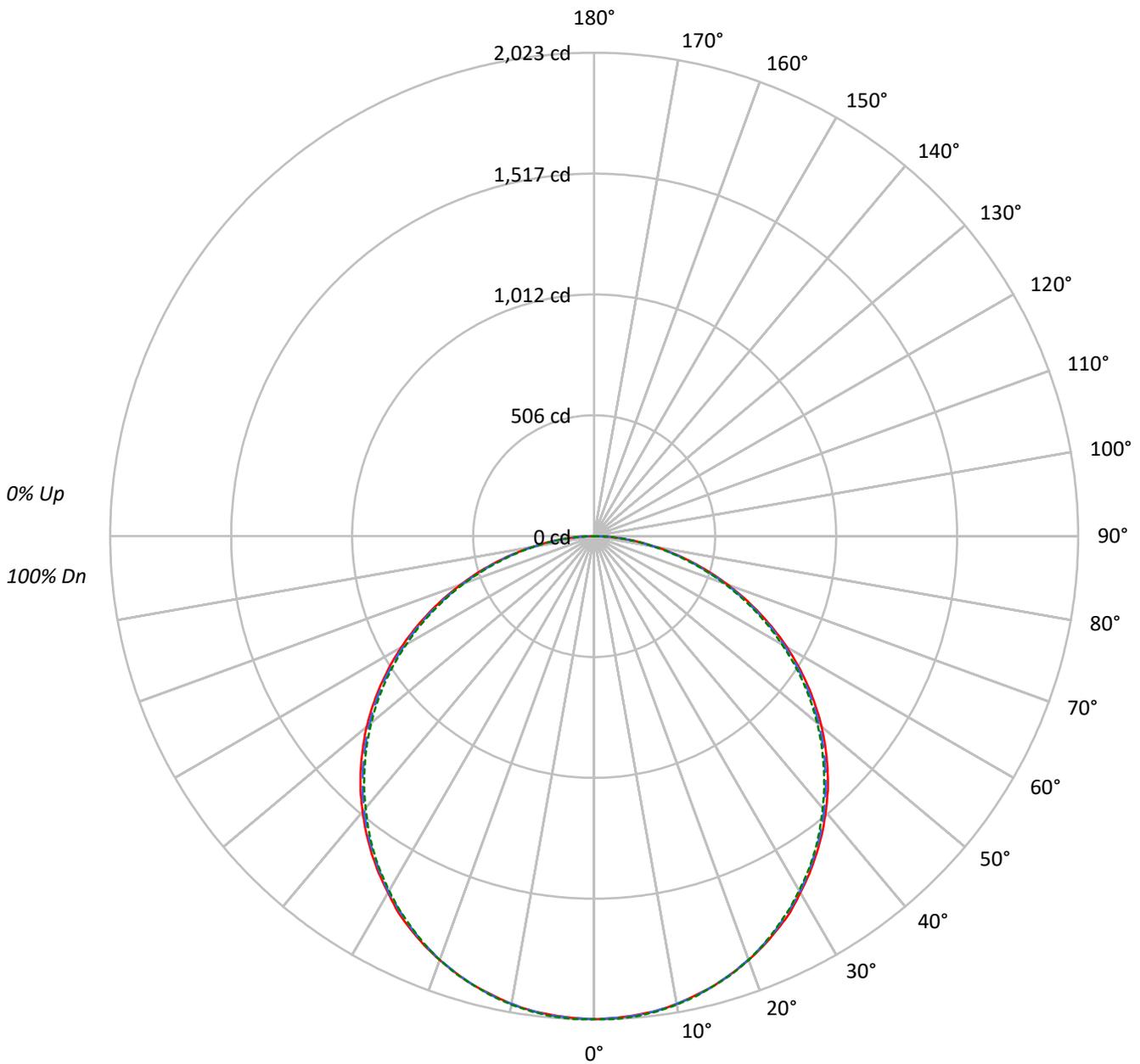
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5919.0 lumens
Efficiency: N/A
Efficacy: 142.3 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): 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

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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° | 3149 | 3149 | 3149 |
| 5° | 3146 | 3150 | 3154 |
| 10° | 3145 | 3145 | 3149 |
| 15° | 3139 | 3139 | 3139 |
| 20° | 3129 | 3127 | 3129 |
| 25° | 3120 | 3110 | 3105 |
| 30° | 3099 | 3092 | 3082 |
| 35° | 3083 | 3067 | 3059 |
| 40° | 3061 | 3041 | 3021 |
| 45° | 3040 | 3009 | 2987 |
| 50° | 3009 | 2972 | 2948 |
| 55° | 2959 | 2929 | 2899 |
| 60° | 2899 | 2860 | 2825 |
| 65° | 2813 | 2777 | 2741 |
| 70° | 2707 | 2662 | 2631 |
| 75° | 2569 | 2519 | 2477 |
| 80° | 2365 | 2315 | 2278 |
| 85° | 2145 | 2095 | 2045 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3040 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.7 | 3.2 |
| 10°-20° | 549.8 | 9.3 |
| 20°-30° | 834.8 | 14.1 |
| 30°-40° | 1009.3 | 17.1 |
| 40°-50° | 1053.5 | 17.8 |
| 50°-60° | 961.8 | 16.2 |
| 60°-70° | 744.1 | 12.6 |
| 70°-80° | 441.8 | 7.5 |
| 80°-90° | 132.3 | 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° | 1576.2 | 26.6 |
| 0°-40° | 2585.5 | 43.7 |
| 0°-60° | 4600.8 | 77.7 |
| 0°-90° | 5919.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5919.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2022 | 2022 | 2022 | 2022 | 2022 | |
| 5° | 2012 | 2019 | 2015 | 2017 | 2017 | 191 |
| 15° | 1946 | 1949 | 1946 | 1950 | 1946 | 549 |
| 25° | 1815 | 1812 | 1810 | 1810 | 1807 | 837 |
| 35° | 1621 | 1617 | 1613 | 1607 | 1609 | 1014 |
| 45° | 1380 | 1371 | 1366 | 1358 | 1356 | 1064 |
| 55° | 1090 | 1081 | 1078 | 1072 | 1067 | 974 |
| 65° | 763 | 755 | 753 | 746 | 744 | 756 |
| 75° | 427 | 418 | 418 | 412 | 412 | 451 |
| 85° | 120 | 116 | 117 | 119 | 114 | 135 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1053678

CATALOG NUMBER: 24CGTS-L3C3-5000K-MEDIUM

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2021.6 | 2021.6 | 2021.6 | 2021.6 | 2021.6 |
| 2.5° | 2018.8 | 2023.0 | 2018.8 | 2024.4 | 2023.0 |
| 5° | 2011.8 | 2018.8 | 2014.6 | 2017.4 | 2017.4 |
| 7.5° | 2003.4 | 2006.2 | 2003.4 | 2009.0 | 2006.2 |
| 10° | 1988.1 | 1993.7 | 1988.1 | 1995.1 | 1990.9 |
| 12.5° | 1967.2 | 1972.8 | 1970.0 | 1974.1 | 1971.4 |
| 15° | 1946.2 | 1949.0 | 1946.2 | 1950.4 | 1946.2 |
| 17.5° | 1918.3 | 1921.1 | 1916.9 | 1921.1 | 1919.7 |
| 20° | 1887.6 | 1890.4 | 1886.3 | 1889.0 | 1887.6 |
| 22.5° | 1854.2 | 1857.0 | 1850.0 | 1851.4 | 1850.0 |
| 25° | 1815.1 | 1812.3 | 1809.5 | 1809.5 | 1806.7 |
| 27.5° | 1774.6 | 1770.5 | 1764.9 | 1764.9 | 1762.1 |
| 30° | 1723.0 | 1723.0 | 1718.8 | 1714.6 | 1713.3 |
| 32.5° | 1674.2 | 1671.4 | 1667.2 | 1665.8 | 1663.0 |
| 35° | 1621.2 | 1617.0 | 1612.8 | 1607.2 | 1608.6 |
| 37.5° | 1565.4 | 1559.8 | 1557.0 | 1550.0 | 1548.6 |
| 40° | 1505.4 | 1501.2 | 1495.6 | 1487.2 | 1485.8 |
| 42.5° | 1445.4 | 1438.4 | 1432.8 | 1424.5 | 1423.1 |
| 45° | 1379.8 | 1371.4 | 1365.9 | 1357.5 | 1356.1 |
| 47.5° | 1311.4 | 1301.7 | 1297.5 | 1290.5 | 1287.7 |
| 50° | 1241.7 | 1230.5 | 1226.3 | 1218.0 | 1216.6 |
| 52.5° | 1166.4 | 1158.0 | 1153.8 | 1144.0 | 1142.6 |
| 55° | 1089.6 | 1081.2 | 1078.5 | 1071.5 | 1067.3 |
| 57.5° | 1011.5 | 1003.1 | 998.9 | 992.0 | 987.8 |
| 60° | 930.6 | 922.2 | 918.0 | 909.6 | 906.9 |
| 62.5° | 848.3 | 838.5 | 837.1 | 830.1 | 827.3 |
| 65° | 763.2 | 754.8 | 753.4 | 746.4 | 743.6 |
| 67.5° | 679.4 | 671.1 | 669.7 | 664.1 | 661.3 |
| 70° | 594.3 | 584.6 | 584.6 | 579.0 | 577.6 |
| 72.5° | 510.6 | 500.9 | 500.9 | 495.3 | 493.9 |
| 75° | 426.9 | 418.5 | 418.5 | 411.6 | 411.6 |
| 77.5° | 344.6 | 337.6 | 339.0 | 336.2 | 332.0 |
| 80° | 263.7 | 258.1 | 258.1 | 256.7 | 253.9 |
| 82.5° | 189.7 | 184.2 | 185.6 | 187.0 | 181.4 |
| 85° | 120.0 | 115.8 | 117.2 | 118.6 | 114.4 |
| 87.5° | 55.8 | 51.6 | 54.4 | 57.2 | 54.4 |
| 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 | 15.95 | 17.61 | 16.32 | 17.93 | 18.24 | 15.86 | 17.52 | 16.23 | 17.83 | 18.15 |
| | 3H | 17.84 | 19.34 | 18.22 | 19.67 | 20.03 | 17.73 | 19.23 | 18.11 | 19.56 | 19.92 |
| | 4H | 18.57 | 19.99 | 18.97 | 20.33 | 20.71 | 18.44 | 19.86 | 18.84 | 20.21 | 20.58 |
| | 6H | 19.13 | 20.44 | 19.54 | 20.80 | 21.19 | 18.99 | 20.30 | 19.40 | 20.66 | 21.06 |
| | 8H | 19.32 | 20.57 | 19.74 | 20.96 | 21.36 | 19.17 | 20.43 | 19.59 | 20.82 | 21.21 |
| | 12H | 19.45 | 20.65 | 19.88 | 21.04 | 21.46 | 19.30 | 20.50 | 19.73 | 20.89 | 21.31 |
| 4H | 2H | 16.60 | 18.02 | 17.00 | 18.37 | 18.74 | 16.53 | 17.95 | 16.93 | 18.29 | 18.67 |
| | 3H | 18.71 | 19.90 | 19.12 | 20.30 | 20.70 | 18.62 | 19.81 | 19.03 | 20.21 | 20.61 |
| | 4H | 19.57 | 20.65 | 20.00 | 21.06 | 21.50 | 19.46 | 20.54 | 19.89 | 20.96 | 21.39 |
| | 6H | 20.26 | 21.20 | 20.71 | 21.64 | 22.10 | 20.14 | 21.09 | 20.60 | 21.53 | 21.98 |
| | 8H | 20.50 | 21.38 | 20.96 | 21.83 | 22.29 | 20.38 | 21.27 | 20.84 | 21.71 | 22.17 |
| | 12H | 20.68 | 21.48 | 21.16 | 21.96 | 22.42 | 20.56 | 21.36 | 21.04 | 21.83 | 22.30 |
| 8H | 4H | 19.90 | 20.79 | 20.36 | 21.23 | 21.69 | 19.81 | 20.70 | 20.27 | 21.14 | 21.60 |
| | 6H | 20.72 | 21.46 | 21.21 | 21.94 | 22.42 | 20.62 | 21.36 | 21.12 | 21.85 | 22.32 |
| | 8H | 21.04 | 21.70 | 21.55 | 22.21 | 22.69 | 20.94 | 21.61 | 21.45 | 22.11 | 22.60 |
| | 12H | 21.31 | 21.89 | 21.81 | 22.38 | 22.94 | 21.21 | 21.80 | 21.72 | 22.29 | 22.85 |
| 12H | 4H | 19.94 | 20.74 | 20.42 | 21.22 | 21.68 | 19.85 | 20.65 | 20.33 | 21.13 | 21.59 |
| | 6H | 20.79 | 21.45 | 21.29 | 21.96 | 22.44 | 20.69 | 21.36 | 21.20 | 21.86 | 22.35 |
| | 8H | 21.17 | 21.76 | 21.67 | 22.25 | 22.80 | 21.08 | 21.67 | 21.58 | 22.16 | 22.71 |