

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: P798204

Luminaire Tested: 22GRSCT3-A125-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292356)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A125-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

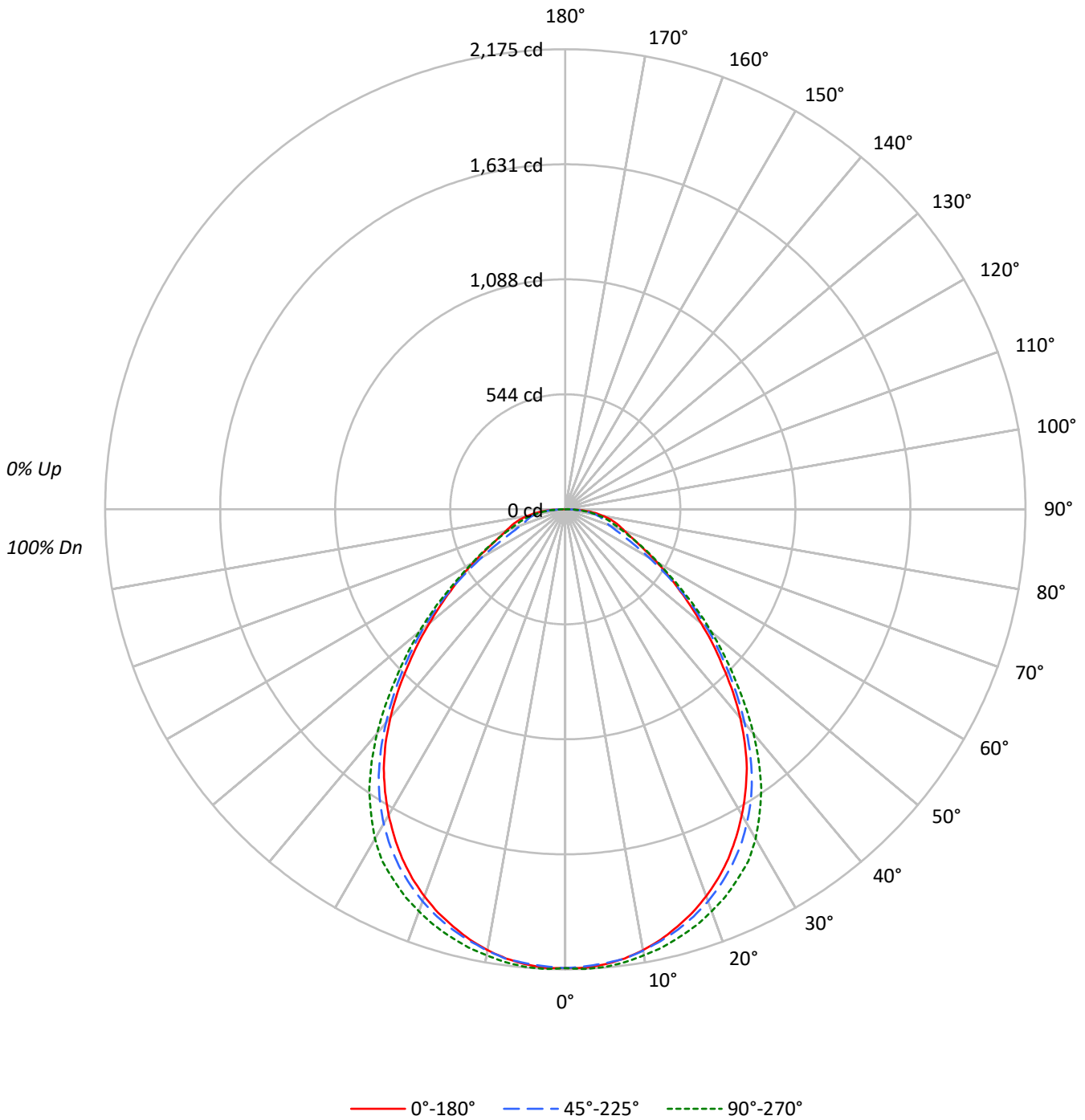
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (Ain): 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





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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 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 101 | 94 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 76 | 76 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 91 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 66 | 66 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 58 | 58 | 58 | 56 |
| 5 | 80 | 68 | 59 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 51 | 51 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 46 | 46 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 51 | 46 | 41 | 41 | 41 | 41 | 39 |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 37 | 37 | 37 | 36 |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 34 | 34 | 34 | 32 |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 31 | 31 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5839 | 5839 | 5839 |
| 5° | 5834 | 5819 | 5867 |
| 10° | 5784 | 5790 | 5851 |
| 15° | 5693 | 5732 | 5830 |
| 20° | 5576 | 5647 | 5792 |
| 25° | 5412 | 5523 | 5725 |
| 30° | 5187 | 5333 | 5589 |
| 35° | 4914 | 5051 | 5307 |
| 40° | 4518 | 4630 | 4861 |
| 45° | 4014 | 4160 | 4310 |
| 50° | 3506 | 3666 | 3777 |
| 55° | 3049 | 3089 | 3203 |
| 60° | 2681 | 2457 | 2735 |
| 65° | 2383 | 1964 | 2397 |
| 70° | 2339 | 1744 | 2211 |
| 75° | 2556 | 1916 | 2258 |
| 80° | 2805 | 2280 | 2413 |
| 85° | 3353 | 2643 | 2711 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4310 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 205.1 | 4.4 |
| 10°-20° | 581.5 | 12.4 |
| 20°-30° | 858.5 | 18.2 |
| 30°-40° | 960.6 | 20.4 |
| 40°-50° | 843.6 | 17.9 |
| 50°-60° | 596.9 | 12.7 |
| 60°-70° | 347.5 | 7.4 |
| 70°-80° | 216.5 | 4.6 |
| 80°-90° | 96.9 | 2.1 |
| 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° | 1645.0 | 34.9 |
| 0°-40° | 2605.7 | 55.4 |
| 0°-60° | 4046.2 | 86.0 |
| 0°-90° | 4707.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4707.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2170 | 2170 | 2170 | 2170 | 2170 | |
| 5° | 2160 | 2154 | 2154 | 2165 | 2172 | 205 |
| 15° | 2044 | 2048 | 2058 | 2080 | 2093 | 576 |
| 25° | 1823 | 1830 | 1860 | 1904 | 1928 | 837 |
| 35° | 1496 | 1502 | 1538 | 1584 | 1615 | 930 |
| 45° | 1055 | 1067 | 1093 | 1120 | 1133 | 816 |
| 55° | 650 | 663 | 658 | 671 | 683 | 587 |
| 65° | 374 | 345 | 308 | 336 | 376 | 380 |
| 75° | 246 | 212 | 184 | 189 | 217 | 257 |
| 85° | 109 | 113 | 86 | 83 | 88 | 110 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P798204

CATALOG NUMBER: 22GRSCT3-A125-UNV-MID-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2169.7 | 2169.7 | 2169.7 | 2169.7 | 2169.7 |
| 2.5° | 2169.7 | 2165.3 | 2163.0 | 2170.7 | 2175.2 |
| 5° | 2159.8 | 2154.3 | 2154.3 | 2165.3 | 2172.0 |
| 7.5° | 2142.2 | 2136.7 | 2143.4 | 2153.1 | 2159.8 |
| 10° | 2116.9 | 2114.9 | 2119.1 | 2132.3 | 2141.2 |
| 12.5° | 2084.2 | 2085.2 | 2089.6 | 2110.4 | 2121.4 |
| 15° | 2043.5 | 2048.0 | 2057.6 | 2079.7 | 2092.8 |
| 17.5° | 1999.6 | 2002.8 | 2018.2 | 2043.5 | 2062.1 |
| 20° | 1947.0 | 1953.5 | 1972.1 | 2004.1 | 2022.7 |
| 22.5° | 1888.7 | 1896.4 | 1919.5 | 1957.9 | 1981.0 |
| 25° | 1822.8 | 1830.5 | 1860.2 | 1904.1 | 1928.2 |
| 27.5° | 1748.4 | 1760.3 | 1793.3 | 1841.6 | 1874.4 |
| 30° | 1669.3 | 1679.2 | 1716.4 | 1771.2 | 1798.7 |
| 32.5° | 1584.7 | 1596.8 | 1631.8 | 1684.6 | 1708.7 |
| 35° | 1495.9 | 1502.4 | 1537.6 | 1583.7 | 1615.4 |
| 37.5° | 1395.0 | 1398.2 | 1431.2 | 1473.8 | 1502.4 |
| 40° | 1286.1 | 1288.3 | 1318.1 | 1358.8 | 1383.8 |
| 42.5° | 1173.3 | 1174.3 | 1206.0 | 1236.8 | 1258.8 |
| 45° | 1054.7 | 1066.6 | 1093.2 | 1119.5 | 1132.6 |
| 47.5° | 948.1 | 957.0 | 981.1 | 1004.1 | 1016.3 |
| 50° | 837.5 | 859.3 | 875.7 | 887.8 | 902.2 |
| 52.5° | 742.0 | 760.6 | 764.8 | 779.2 | 791.4 |
| 55° | 649.8 | 662.9 | 658.4 | 670.6 | 682.7 |
| 57.5° | 571.9 | 565.2 | 551.0 | 571.9 | 587.3 |
| 60° | 498.2 | 480.6 | 456.6 | 485.1 | 508.1 |
| 62.5° | 432.5 | 404.0 | 374.2 | 402.7 | 441.2 |
| 65° | 374.2 | 344.7 | 308.5 | 335.8 | 376.5 |
| 67.5° | 330.3 | 299.6 | 256.9 | 284.2 | 324.9 |
| 70° | 297.3 | 265.6 | 221.7 | 244.8 | 281.0 |
| 72.5° | 271.1 | 237.1 | 198.6 | 214.0 | 244.8 |
| 75° | 245.8 | 211.8 | 184.3 | 188.7 | 217.2 |
| 77.5° | 216.3 | 191.0 | 168.9 | 166.9 | 188.7 |
| 80° | 181.0 | 173.3 | 147.1 | 143.8 | 155.7 |
| 82.5° | 149.3 | 146.1 | 120.8 | 117.6 | 121.8 |
| 85° | 108.6 | 113.1 | 85.6 | 83.3 | 87.8 |
| 87.5° | 57.0 | 62.5 | 44.9 | 47.1 | 48.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)