

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: P895142

Luminaire Tested: 8TMB-6SL-RFLW-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-RFLW-UNV-L835
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

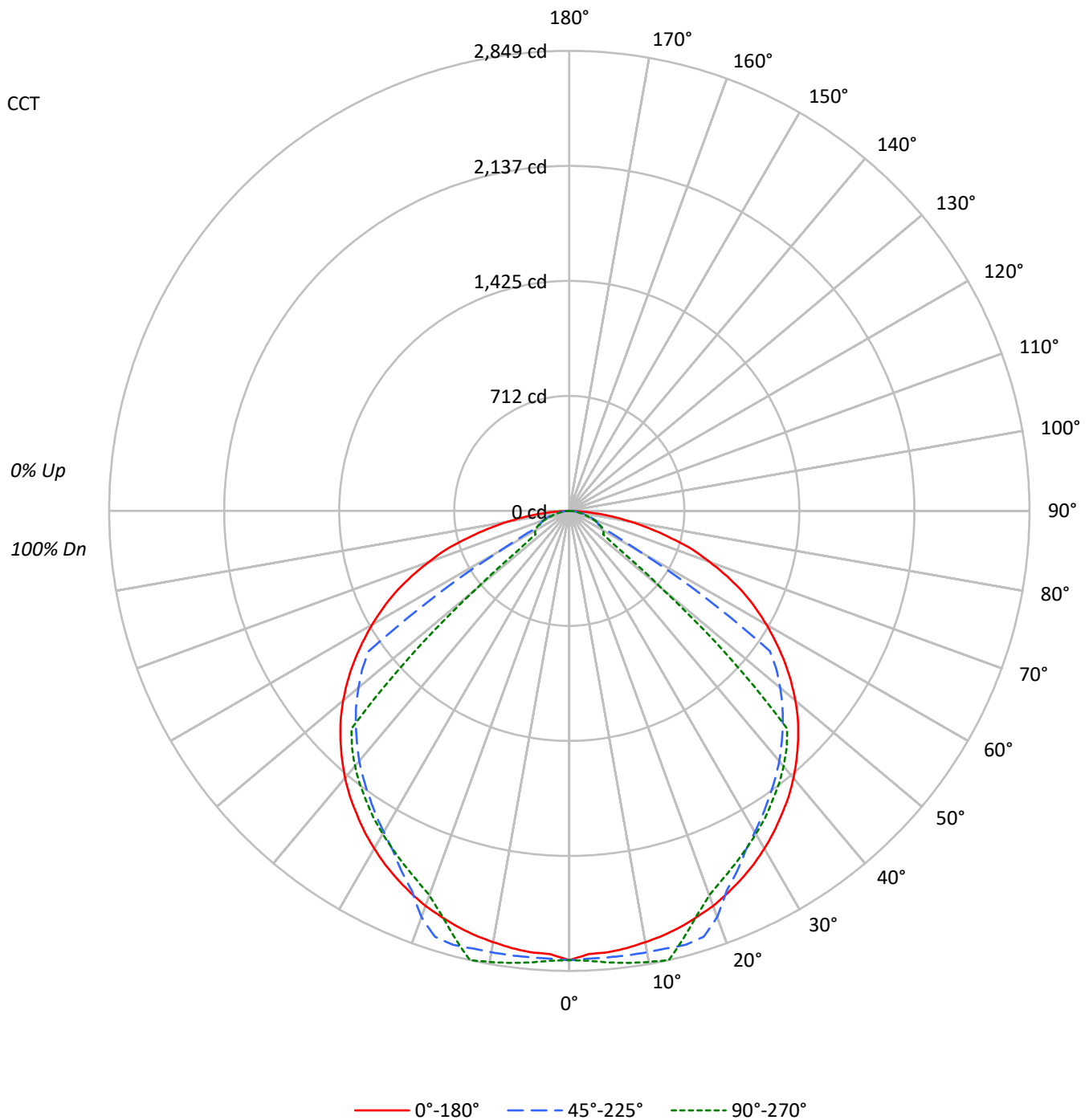
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6785.0 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.51
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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | 87 | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 75 | 75 | |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 67 | 74 | 70 | 66 | 64 | 64 | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 60 | 71 | 65 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 56 | 56 | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 61 | 55 | 51 | 49 | 49 | |
| 6 | 73 | 61 | 53 | 47 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 45 | 43 | 43 | |
| 7 | 68 | 55 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 38 | 38 | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 35 | 35 | |
| 9 | 60 | 47 | 39 | 33 | 58 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | 31 | |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | 28 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18014 | 18014 | 18014 |
| 5° | 17834 | 18041 | 18249 |
| 10° | 17830 | 18250 | 18648 |
| 15° | 17880 | 18650 | 18350 |
| 20° | 17939 | 18445 | 17456 |
| 25° | 17984 | 17574 | 17278 |
| 30° | 18057 | 17175 | 17270 |
| 35° | 18133 | 17073 | 17326 |
| 40° | 18257 | 17097 | 17448 |
| 45° | 18347 | 17120 | 17471 |
| 50° | 18415 | 17162 | 7552 |
| 55° | 18368 | 17108 | 2881 |
| 60° | 18262 | 6529 | 3141 |
| 65° | 18135 | 3031 | 3227 |
| 70° | 17517 | 3262 | 3020 |
| 75° | 16363 | 3112 | 2635 |
| 80° | 14394 | 2737 | 2260 |
| 85° | 11375 | 2370 | 1895 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 18415 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 265.7 | 3.9 |
| 10°-20° | 771.4 | 11.4 |
| 20°-30° | 1151.0 | 17.0 |
| 30°-40° | 1395.2 | 20.6 |
| 40°-50° | 1428.6 | 21.1 |
| 50°-60° | 950.0 | 14.0 |
| 60°-70° | 541.5 | 8.0 |
| 70°-80° | 227.5 | 3.4 |
| 80°-90° | 54.2 | 0.8 |
| 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° | 2188.1 | 32.2 |
| 0°-40° | 3583.3 | 52.8 |
| 0°-60° | 5961.8 | 87.9 |
| 0°-90° | 6785.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6785.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2782 | 2782 | 2782 | 2782 | 2782 | |
| 5° | 2744 | 2798 | 2776 | 2782 | 2807 | 261 |
| 15° | 2667 | 2740 | 2782 | 2772 | 2737 | 753 |
| 25° | 2517 | 2638 | 2460 | 2406 | 2418 | 1161 |
| 35° | 2294 | 2335 | 2160 | 2169 | 2192 | 1437 |
| 45° | 2004 | 1882 | 1870 | 1892 | 1908 | 1546 |
| 55° | 1627 | 1490 | 1515 | 332 | 255 | 1453 |
| 65° | 1184 | 1059 | 198 | 211 | 211 | 1165 |
| 75° | 654 | 137 | 124 | 108 | 105 | 694 |
| 85° | 153 | 38 | 32 | 26 | 26 | 184 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P895142

CATALOG NUMBER: 8TMB-6SL-RFLW-UNV-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2781.9 | 2781.9 | 2781.9 | 2781.9 | 2781.9 |
| 2.5° | 2746.8 | 2804.2 | 2775.5 | 2778.7 | 2788.3 |
| 5° | 2743.6 | 2797.9 | 2775.5 | 2781.9 | 2807.4 |
| 7.5° | 2730.9 | 2788.3 | 2775.5 | 2794.7 | 2823.4 |
| 10° | 2711.7 | 2778.7 | 2775.5 | 2807.4 | 2836.1 |
| 12.5° | 2692.6 | 2759.6 | 2775.5 | 2823.4 | 2848.9 |
| 15° | 2667.1 | 2740.4 | 2781.9 | 2772.3 | 2737.2 |
| 17.5° | 2635.2 | 2721.3 | 2766.0 | 2628.8 | 2625.6 |
| 20° | 2603.2 | 2695.8 | 2676.6 | 2545.8 | 2533.1 |
| 22.5° | 2561.8 | 2670.2 | 2545.8 | 2456.5 | 2472.4 |
| 25° | 2517.1 | 2638.3 | 2459.7 | 2405.5 | 2418.2 |
| 27.5° | 2469.3 | 2606.4 | 2367.2 | 2348.0 | 2364.0 |
| 30° | 2415.0 | 2561.8 | 2297.0 | 2290.6 | 2309.7 |
| 32.5° | 2357.6 | 2475.6 | 2230.0 | 2233.2 | 2255.5 |
| 35° | 2293.8 | 2335.3 | 2159.8 | 2169.4 | 2191.7 |
| 37.5° | 2230.0 | 2204.5 | 2092.8 | 2108.8 | 2131.1 |
| 40° | 2159.8 | 2102.4 | 2022.6 | 2038.6 | 2064.1 |
| 42.5° | 2083.2 | 1993.9 | 1946.1 | 1968.4 | 1990.7 |
| 45° | 2003.5 | 1882.3 | 1869.5 | 1891.8 | 1907.8 |
| 47.5° | 1920.5 | 1786.5 | 1789.7 | 1805.7 | 1352.7 |
| 50° | 1828.0 | 1690.8 | 1703.6 | 1180.4 | 749.7 |
| 52.5° | 1729.1 | 1591.9 | 1617.5 | 657.2 | 379.6 |
| 55° | 1627.0 | 1489.8 | 1515.4 | 331.8 | 255.2 |
| 57.5° | 1518.6 | 1387.8 | 989.0 | 239.3 | 252.0 |
| 60° | 1410.1 | 1279.3 | 504.1 | 236.1 | 242.5 |
| 62.5° | 1298.4 | 1170.8 | 239.3 | 226.5 | 229.7 |
| 65° | 1183.6 | 1059.2 | 197.8 | 210.6 | 210.6 |
| 67.5° | 1056.0 | 941.1 | 188.2 | 188.2 | 185.0 |
| 70° | 925.2 | 781.6 | 172.3 | 162.7 | 159.5 |
| 72.5° | 803.9 | 299.9 | 149.9 | 134.0 | 130.8 |
| 75° | 654.0 | 137.2 | 124.4 | 108.5 | 105.3 |
| 77.5° | 520.0 | 114.8 | 98.9 | 86.1 | 82.9 |
| 80° | 386.0 | 89.3 | 73.4 | 63.8 | 60.6 |
| 82.5° | 268.0 | 60.6 | 51.0 | 41.5 | 41.5 |
| 85° | 153.1 | 38.3 | 31.9 | 25.5 | 25.5 |
| 87.5° | 60.6 | 19.1 | 16.0 | 9.6 | 9.6 |
| 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 | 22.97 | 24.49 | 23.34 | 24.81 | 25.12 | 10.74 | 12.26 | 11.10 | 12.57 | 12.89 |
| | 3H | 24.99 | 26.35 | 25.37 | 26.68 | 27.04 | 13.05 | 14.41 | 13.43 | 14.74 | 15.10 |
| | 4H | 25.45 | 26.72 | 25.85 | 27.07 | 27.45 | 13.76 | 15.04 | 14.16 | 15.38 | 15.76 |
| | 6H | 25.86 | 27.03 | 26.27 | 27.40 | 27.79 | 14.25 | 15.42 | 14.66 | 15.79 | 16.18 |
| | 8H | 26.01 | 27.12 | 26.44 | 27.51 | 27.92 | 14.39 | 15.50 | 14.81 | 15.89 | 16.29 |
| | 12H | 26.11 | 27.17 | 26.54 | 27.56 | 27.99 | 14.47 | 15.54 | 14.90 | 15.92 | 16.35 |
| 4H | 2H | 22.81 | 24.08 | 23.21 | 24.43 | 24.81 | 11.54 | 12.81 | 11.93 | 13.16 | 13.53 |
| | 3H | 25.02 | 26.06 | 25.43 | 26.46 | 26.86 | 14.05 | 15.09 | 14.46 | 15.49 | 15.89 |
| | 4H | 25.46 | 26.40 | 25.90 | 26.82 | 27.26 | 14.87 | 15.80 | 15.30 | 16.22 | 16.66 |
| | 6H | 25.93 | 26.74 | 26.39 | 27.19 | 27.65 | 15.46 | 16.27 | 15.92 | 16.72 | 17.18 |
| | 8H | 26.12 | 26.88 | 26.58 | 27.33 | 27.79 | 15.63 | 16.39 | 16.09 | 16.83 | 17.30 |
| | 12H | 26.27 | 26.95 | 26.75 | 27.43 | 27.90 | 15.75 | 16.42 | 16.23 | 16.90 | 17.37 |
| 8H | 4H | 25.38 | 26.14 | 25.85 | 26.59 | 27.05 | 15.70 | 16.47 | 16.17 | 16.91 | 17.38 |
| | 6H | 25.84 | 26.47 | 26.34 | 26.96 | 27.44 | 16.33 | 16.96 | 16.82 | 17.45 | 17.92 |
| | 8H | 26.04 | 26.61 | 26.56 | 27.12 | 27.60 | 16.53 | 17.09 | 17.04 | 17.60 | 18.09 |
| | 12H | 26.23 | 26.73 | 26.74 | 27.22 | 27.78 | 16.68 | 17.19 | 17.19 | 17.68 | 18.24 |
| 12H | 4H | 25.35 | 26.03 | 25.83 | 26.51 | 26.98 | 15.78 | 16.45 | 16.26 | 16.93 | 17.40 |
| | 6H | 25.79 | 26.36 | 26.31 | 26.87 | 27.36 | 16.42 | 16.99 | 16.93 | 17.50 | 17.98 |
| | 8H | 26.02 | 26.52 | 26.53 | 27.01 | 27.58 | 16.67 | 17.17 | 17.18 | 17.67 | 18.23 |