

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: P895131

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L940

Issue Date: 11/11/2024

**Test Information**

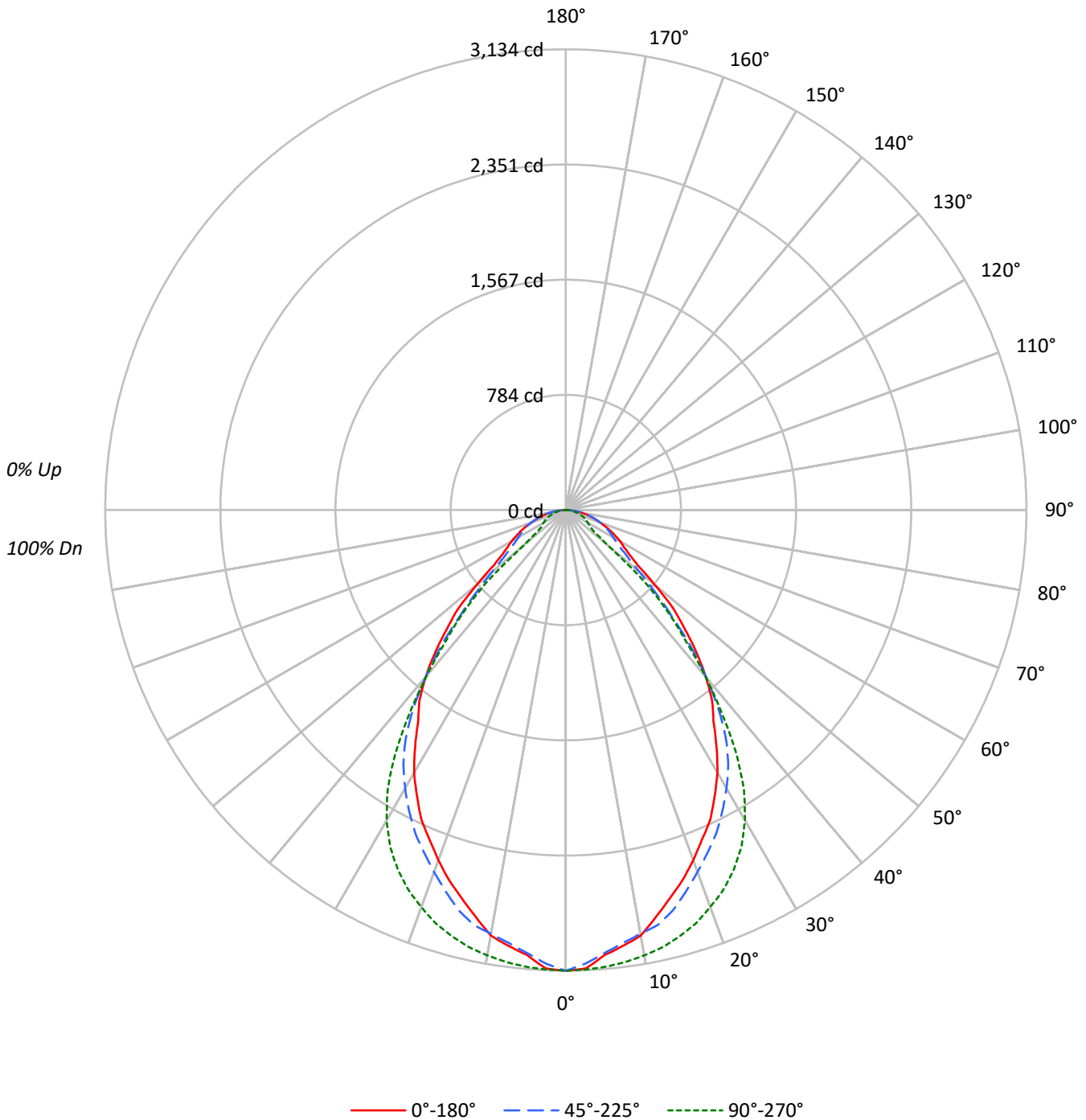
Test Method: LM-79-2019  
Report Number: P895131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVRA-UNV-L940  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5087.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  | 78  |
| 3   | 96  | 87  | 80  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 35  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11121 | 11121 | 11121 |
| 5°  | 10821 | 10772 | 11109 |
| 10° | 10591 | 10545 | 11083 |
| 15° | 10045 | 10353 | 11021 |
| 20° | 9569  | 9892  | 10853 |
| 25° | 9102  | 9491  | 10576 |
| 30° | 8456  | 8959  | 9985  |
| 35° | 7583  | 8233  | 8758  |
| 40° | 6870  | 6885  | 6847  |
| 45° | 5744  | 5087  | 4962  |
| 50° | 4339  | 3581  | 2029  |
| 55° | 3263  | 2863  | 1279  |
| 60° | 3032  | 2637  | 1233  |
| 65° | 2822  | 2631  | 1234  |
| 70° | 2581  | 2581  | 1215  |
| 75° | 2447  | 2514  | 1173  |
| 80° | 2262  | 2376  | 1206  |
| 85° | 1974  | 2072  | 1315  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5878 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 289.5  | 5.7       |
| 10°-20°   | 797.8  | 15.7      |
| 20°-30°   | 1131.3 | 22.2      |
| 30°-40°   | 1165.4 | 22.9      |
| 40°-50°   | 814.0  | 16.0      |
| 50°-60°   | 390.6  | 7.7       |
| 60°-70°   | 274.0  | 5.4       |
| 70°-80°   | 171.3  | 3.4       |
| 80°-90°   | 53.0   | 1.0       |
| 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°    | 2218.6 | 43.6      |
| 0°-40°    | 3384.0 | 66.5      |
| 0°-60°    | 4588.6 | 90.2      |
| 0°-90°    | 5087.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5087.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3134 | 3134  | 3134 | 3134  | 3134 |      |
| 5°  | 3038 | 3034  | 3024 | 3104  | 3119 | 288  |
| 15° | 2734 | 2755  | 2818 | 2899  | 3000 | 770  |
| 25° | 2325 | 2348  | 2424 | 2588  | 2701 | 1063 |
| 35° | 1751 | 1798  | 1901 | 1940  | 2022 | 1103 |
| 45° | 1145 | 1171  | 1014 | 962   | 989  | 882  |
| 55° | 528  | 502   | 463  | 296   | 207  | 494  |
| 65° | 336  | 314   | 313  | 238   | 147  | 333  |
| 75° | 178  | 176   | 183  | 158   | 86   | 188  |
| 85° | 48   | 48    | 51   | 50    | 32   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3134.4 | 3134.4 | 3134.4 | 3134.4 | 3134.4 |
| 2.5°  | 3122.3 | 3112.6 | 3089.2 | 3132.0 | 3128.7 |
| 5°    | 3038.3 | 3034.2 | 3024.5 | 3103.7 | 3119.0 |
| 7.5°  | 2990.6 | 2982.5 | 2971.2 | 3058.5 | 3101.3 |
| 10°   | 2939.7 | 2949.4 | 2926.8 | 3006.8 | 3076.2 |
| 12.5° | 2834.7 | 2860.5 | 2891.2 | 2953.4 | 3045.5 |
| 15°   | 2734.5 | 2754.7 | 2818.5 | 2899.3 | 3000.3 |
| 17.5° | 2640.8 | 2664.2 | 2719.2 | 2840.3 | 2947.8 |
| 20°   | 2534.2 | 2566.5 | 2619.8 | 2774.9 | 2874.3 |
| 22.5° | 2424.3 | 2454.2 | 2521.2 | 2687.7 | 2798.3 |
| 25°   | 2324.9 | 2348.4 | 2424.3 | 2588.3 | 2701.4 |
| 27.5° | 2193.3 | 2236.9 | 2308.8 | 2467.1 | 2585.9 |
| 30°   | 2064.0 | 2101.2 | 2186.8 | 2320.1 | 2437.2 |
| 32.5° | 1908.1 | 1962.2 | 2056.7 | 2158.5 | 2256.3 |
| 35°   | 1750.6 | 1798.2 | 1900.8 | 1940.4 | 2022.0 |
| 37.5° | 1635.9 | 1648.8 | 1707.0 | 1702.1 | 1748.2 |
| 40°   | 1483.2 | 1509.0 | 1486.4 | 1425.8 | 1478.3 |
| 42.5° | 1318.4 | 1349.1 | 1257.8 | 1187.5 | 1206.1 |
| 45°   | 1144.7 | 1171.4 | 1013.8 | 962.1  | 988.8  |
| 47.5° | 994.4  | 992.0  | 817.5  | 782.8  | 745.6  |
| 50°   | 786.0  | 811.9  | 648.7  | 584.1  | 367.6  |
| 52.5° | 614.0  | 623.6  | 534.8  | 373.2  | 241.5  |
| 55°   | 527.5  | 501.7  | 462.9  | 296.5  | 206.8  |
| 57.5° | 468.5  | 436.2  | 410.4  | 275.5  | 189.0  |
| 60°   | 427.3  | 391.0  | 371.6  | 261.7  | 173.7  |
| 62.5° | 380.5  | 352.2  | 344.9  | 249.6  | 160.0  |
| 65°   | 336.1  | 314.2  | 313.4  | 238.3  | 147.0  |
| 67.5° | 291.6  | 279.5  | 282.7  | 224.6  | 132.5  |
| 70°   | 248.8  | 246.4  | 248.8  | 206.8  | 117.1  |
| 72.5° | 212.5  | 210.0  | 216.5  | 184.2  | 100.2  |
| 75°   | 178.5  | 176.1  | 183.4  | 158.3  | 85.6   |
| 77.5° | 142.2  | 143.8  | 148.6  | 131.7  | 71.9   |
| 80°   | 110.7  | 110.7  | 116.3  | 103.4  | 59.0   |
| 82.5° | 79.2   | 80.0   | 83.2   | 75.9   | 46.0   |
| 85°   | 48.5   | 48.5   | 50.9   | 50.1   | 32.3   |
| 87.5° | 16.2   | 18.6   | 21.8   | 23.4   | 16.2   |
| 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 | 14.02            | 15.37 | 14.38 | 15.68 | 16.00 | 10.35          | 11.70 | 10.71 | 12.01 | 12.33 |
|                 | 3H   | 15.75            | 16.96 | 16.13 | 17.29 | 17.65 | 12.32          | 13.53 | 12.70 | 13.86 | 14.23 |
|                 | 4H   | 16.43            | 17.55 | 16.83 | 17.90 | 18.29 | 13.03          | 14.16 | 13.43 | 14.51 | 14.89 |
|                 | 6H   | 16.93            | 17.97 | 17.35 | 18.34 | 18.73 | 13.55          | 14.59 | 13.97 | 14.96 | 15.35 |
|                 | 8H   | 17.10            | 18.09 | 17.53 | 18.48 | 18.88 | 13.74          | 14.72 | 14.17 | 15.11 | 15.52 |
|                 | 12H  | 17.21            | 18.16 | 17.65 | 18.54 | 18.97 | 13.88          | 14.82 | 14.31 | 15.20 | 15.63 |
| 4H              | 2H   | 14.55            | 15.67 | 14.95 | 16.02 | 16.41 | 11.97          | 13.10 | 12.37 | 13.45 | 13.83 |
|                 | 3H   | 16.52            | 17.45 | 16.94 | 17.86 | 18.26 | 14.15          | 15.08 | 14.56 | 15.48 | 15.88 |
|                 | 4H   | 17.33            | 18.16 | 17.76 | 18.58 | 19.02 | 15.03          | 15.86 | 15.46 | 16.28 | 16.72 |
|                 | 6H   | 17.97            | 18.69 | 18.43 | 19.14 | 19.60 | 15.67          | 16.40 | 16.13 | 16.84 | 17.31 |
|                 | 8H   | 18.19            | 18.87 | 18.66 | 19.31 | 19.78 | 15.88          | 16.56 | 16.35 | 17.00 | 17.47 |
|                 | 12H  | 18.34            | 18.94 | 18.83 | 19.43 | 19.90 | 16.04          | 16.64 | 16.52 | 17.12 | 17.59 |
| 8H              | 4H   | 17.61            | 18.29 | 18.08 | 18.73 | 19.20 | 15.68          | 16.35 | 16.14 | 16.80 | 17.27 |
|                 | 6H   | 18.39            | 18.95 | 18.89 | 19.44 | 19.92 | 16.54          | 17.09 | 17.04 | 17.59 | 18.07 |
|                 | 8H   | 18.70            | 19.19 | 19.21 | 19.71 | 20.20 | 16.87          | 17.36 | 17.39 | 17.88 | 18.37 |
|                 | 12H  | 18.93            | 19.37 | 19.44 | 19.86 | 20.43 | 17.13          | 17.57 | 17.64 | 18.06 | 18.63 |
| 12H             | 4H   | 17.63            | 18.23 | 18.11 | 18.71 | 19.18 | 15.75          | 16.35 | 16.23 | 16.83 | 17.30 |
|                 | 6H   | 18.45            | 18.94 | 18.97 | 19.46 | 19.95 | 16.68          | 17.17 | 17.20 | 17.69 | 18.18 |
|                 | 8H   | 18.81            | 19.25 | 19.32 | 19.74 | 20.31 | 17.09          | 17.53 | 17.60 | 18.02 | 18.59 |