

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: P895121

Luminaire Tested: 8TMB-6SL-LVR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

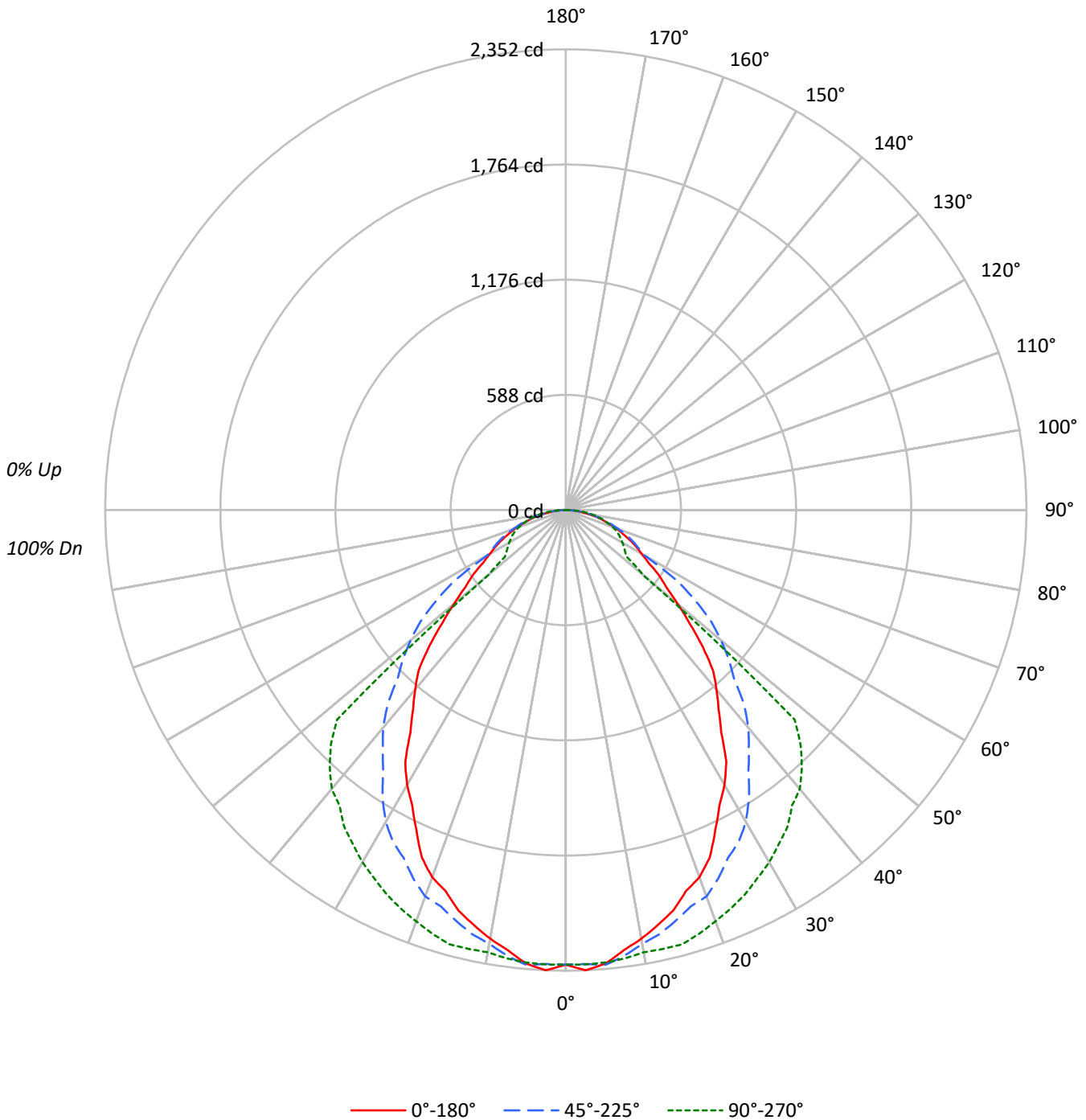
Test Method: LM-79-2019  
Report Number: P895121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-6SL-LVR-UNV-L930  
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4953.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 87  | 87  |
| 2   | 102 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 77  | 77  | 75  | 75  |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 67  | 65  | 65  |
| 4   | 87  | 76  | 68  | 62  | 84  | 74  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 59  | 57  | 57  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 53  | 63  | 58  | 53  | 62  | 57  | 52  | 52  | 50  | 50  |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 47  | 45  | 45  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 42  | 40  | 40  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 38  | 36  | 36  |
| 9   | 61  | 48  | 40  | 35  | 59  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 35  | 33  | 33  |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 32  | 30  | 30  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8235 | 8235 | 8235 |
| 5°  | 8279 | 8301 | 8258 |
| 10° | 8008 | 8102 | 8260 |
| 15° | 7777 | 7973 | 8430 |
| 20° | 7533 | 7927 | 8437 |
| 25° | 7068 | 7671 | 8474 |
| 30° | 6639 | 7532 | 8509 |
| 35° | 5987 | 7044 | 8549 |
| 40° | 5545 | 6720 | 8609 |
| 45° | 4961 | 6091 | 8512 |
| 50° | 4116 | 5706 | 2859 |
| 55° | 3586 | 5008 | 2288 |
| 60° | 3171 | 3264 | 2372 |
| 65° | 3016 | 3174 | 2518 |
| 70° | 2828 | 3000 | 2656 |
| 75° | 2632 | 2828 | 2729 |
| 80° | 2399 | 2664 | 2859 |
| 85° | 2125 | 2268 | 3090 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8512 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 220.1  | 4.4       |
| 10°-20°   | 619.3  | 12.5      |
| 20°-30°   | 911.0  | 18.4      |
| 30°-40°   | 1041.8 | 21.0      |
| 40°-50°   | 986.5  | 19.9      |
| 50°-60°   | 543.5  | 11.0      |
| 60°-70°   | 349.0  | 7.0       |
| 70°-80°   | 215.4  | 4.3       |
| 80°-90°   | 66.3   | 1.3       |
| 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°    | 1750.5 | 35.3      |
| 0°-40°    | 2792.3 | 56.4      |
| 0°-60°    | 4322.4 | 87.3      |
| 0°-90°    | 4953.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4953.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2321 | 2321  | 2321 | 2321  | 2321 |      |
| 5°  | 2324 | 2344  | 2330 | 2330  | 2319 | 218  |
| 15° | 2117 | 2143  | 2170 | 2284  | 2295 | 594  |
| 25° | 1805 | 1886  | 1959 | 2088  | 2164 | 831  |
| 35° | 1382 | 1501  | 1626 | 1862  | 1974 | 874  |
| 45° | 989  | 1082  | 1214 | 1558  | 1696 | 756  |
| 55° | 580  | 608   | 810  | 417   | 370  | 518  |
| 65° | 359  | 371   | 378  | 337   | 300  | 356  |
| 75° | 192  | 196   | 206  | 217   | 199  | 204  |
| 85° | 52   | 52    | 56   | 64    | 76   | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2321.0 | 2321.0 | 2321.0 | 2321.0 | 2321.0 |
| 2.5°  | 2351.8 | 2357.7 | 2319.8 | 2318.6 | 2322.2 |
| 5°    | 2324.5 | 2343.5 | 2330.5 | 2330.5 | 2318.6 |
| 7.5°  | 2266.5 | 2298.5 | 2294.9 | 2322.2 | 2309.1 |
| 10°   | 2222.6 | 2248.7 | 2248.7 | 2319.8 | 2292.5 |
| 12.5° | 2170.4 | 2200.1 | 2216.7 | 2291.3 | 2294.9 |
| 15°   | 2117.1 | 2143.2 | 2170.4 | 2284.2 | 2294.9 |
| 17.5° | 2040.0 | 2087.5 | 2121.8 | 2233.3 | 2267.6 |
| 20°   | 1995.0 | 2023.5 | 2099.3 | 2189.4 | 2234.5 |
| 22.5° | 1920.3 | 1961.8 | 2035.3 | 2136.1 | 2202.4 |
| 25°   | 1805.3 | 1885.9 | 1959.4 | 2087.5 | 2164.5 |
| 27.5° | 1698.7 | 1759.1 | 1910.8 | 2046.0 | 2119.5 |
| 30°   | 1620.4 | 1667.8 | 1838.5 | 1985.5 | 2076.8 |
| 32.5° | 1525.6 | 1602.6 | 1741.3 | 1926.3 | 2023.5 |
| 35°   | 1382.2 | 1500.7 | 1626.3 | 1862.2 | 1973.7 |
| 37.5° | 1281.4 | 1363.2 | 1533.9 | 1795.9 | 1899.0 |
| 40°   | 1197.2 | 1271.9 | 1450.9 | 1712.9 | 1858.7 |
| 42.5° | 1113.1 | 1173.5 | 1346.6 | 1651.2 | 1784.0 |
| 45°   | 988.6  | 1082.3 | 1213.8 | 1557.6 | 1696.3 |
| 47.5° | 858.2  | 957.8  | 1127.3 | 1478.2 | 1584.9 |
| 50°   | 745.6  | 825.0  | 1033.7 | 1320.5 | 518.0  |
| 52.5° | 647.2  | 720.7  | 934.1  | 477.7  | 391.2  |
| 55°   | 579.7  | 608.1  | 809.6  | 417.3  | 369.8  |
| 57.5° | 499.0  | 545.3  | 679.2  | 397.1  | 350.9  |
| 60°   | 446.9  | 467.0  | 459.9  | 377.0  | 334.3  |
| 62.5° | 405.4  | 419.6  | 417.3  | 356.8  | 315.3  |
| 65°   | 359.2  | 371.0  | 378.1  | 336.6  | 299.9  |
| 67.5° | 312.9  | 323.6  | 334.3  | 311.8  | 278.6  |
| 70°   | 272.6  | 279.8  | 289.2  | 282.1  | 256.0  |
| 72.5° | 231.2  | 239.4  | 245.4  | 251.3  | 226.4  |
| 75°   | 192.0  | 195.6  | 206.3  | 216.9  | 199.1  |
| 77.5° | 156.5  | 160.0  | 167.1  | 179.0  | 169.5  |
| 80°   | 117.4  | 120.9  | 130.4  | 139.9  | 139.9  |
| 82.5° | 83.0   | 85.3   | 91.3   | 104.3  | 110.2  |
| 85°   | 52.2   | 52.2   | 55.7   | 64.0   | 75.9   |
| 87.5° | 20.2   | 20.2   | 23.7   | 28.4   | 37.9   |
| 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 | 15.28            | 16.76 | 15.64 | 17.07 | 17.39 | 13.08          | 14.56 | 13.44 | 14.87 | 15.19 |
|                 | 3H   | 16.80            | 18.13 | 17.18 | 18.46 | 18.82 | 15.41          | 16.74 | 15.79 | 17.06 | 17.43 |
|                 | 4H   | 17.39            | 18.64 | 17.79 | 18.99 | 19.37 | 16.36          | 17.60 | 16.76 | 17.95 | 18.33 |
|                 | 6H   | 17.85            | 19.00 | 18.26 | 19.37 | 19.76 | 17.14          | 18.29 | 17.56 | 18.66 | 19.05 |
|                 | 8H   | 18.00            | 19.09 | 18.42 | 19.48 | 19.88 | 17.45          | 18.55 | 17.88 | 18.94 | 19.34 |
|                 | 12H  | 18.09            | 19.14 | 18.52 | 19.52 | 19.95 | 17.70          | 18.75 | 18.13 | 19.13 | 19.56 |
| 4H              | 2H   | 15.83            | 17.07 | 16.23 | 17.42 | 17.80 | 14.18          | 15.43 | 14.58 | 15.77 | 16.15 |
|                 | 3H   | 17.60            | 18.63 | 18.01 | 19.03 | 19.43 | 16.63          | 17.66 | 17.04 | 18.06 | 18.46 |
|                 | 4H   | 18.32            | 19.24 | 18.75 | 19.66 | 20.10 | 17.69          | 18.62 | 18.13 | 19.04 | 19.47 |
|                 | 6H   | 18.90            | 19.71 | 19.36 | 20.15 | 20.61 | 18.58          | 19.39 | 19.04 | 19.83 | 20.29 |
|                 | 8H   | 19.09            | 19.85 | 19.56 | 20.29 | 20.76 | 18.93          | 19.69 | 19.40 | 20.13 | 20.60 |
|                 | 12H  | 19.23            | 19.90 | 19.71 | 20.38 | 20.85 | 19.22          | 19.89 | 19.70 | 20.37 | 20.85 |
| 8H              | 4H   | 18.62            | 19.38 | 19.09 | 19.82 | 20.29 | 18.08          | 18.83 | 18.54 | 19.28 | 19.75 |
|                 | 6H   | 19.34            | 19.96 | 19.83 | 20.45 | 20.93 | 19.12          | 19.74 | 19.61 | 20.23 | 20.71 |
|                 | 8H   | 19.60            | 20.16 | 20.11 | 20.67 | 21.16 | 19.56          | 20.12 | 20.08 | 20.63 | 21.12 |
|                 | 12H  | 19.81            | 20.31 | 20.32 | 20.80 | 21.36 | 19.95          | 20.44 | 20.46 | 20.94 | 21.50 |
| 12H             | 4H   | 18.66            | 19.33 | 19.14 | 19.81 | 20.28 | 18.12          | 18.79 | 18.60 | 19.27 | 19.74 |
|                 | 6H   | 19.40            | 19.96 | 19.92 | 20.47 | 20.96 | 19.18          | 19.74 | 19.69 | 20.25 | 20.74 |
|                 | 8H   | 19.72            | 20.22 | 20.23 | 20.71 | 21.28 | 19.69          | 20.19 | 20.20 | 20.68 | 21.24 |