

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: P895473

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

**Test Information**

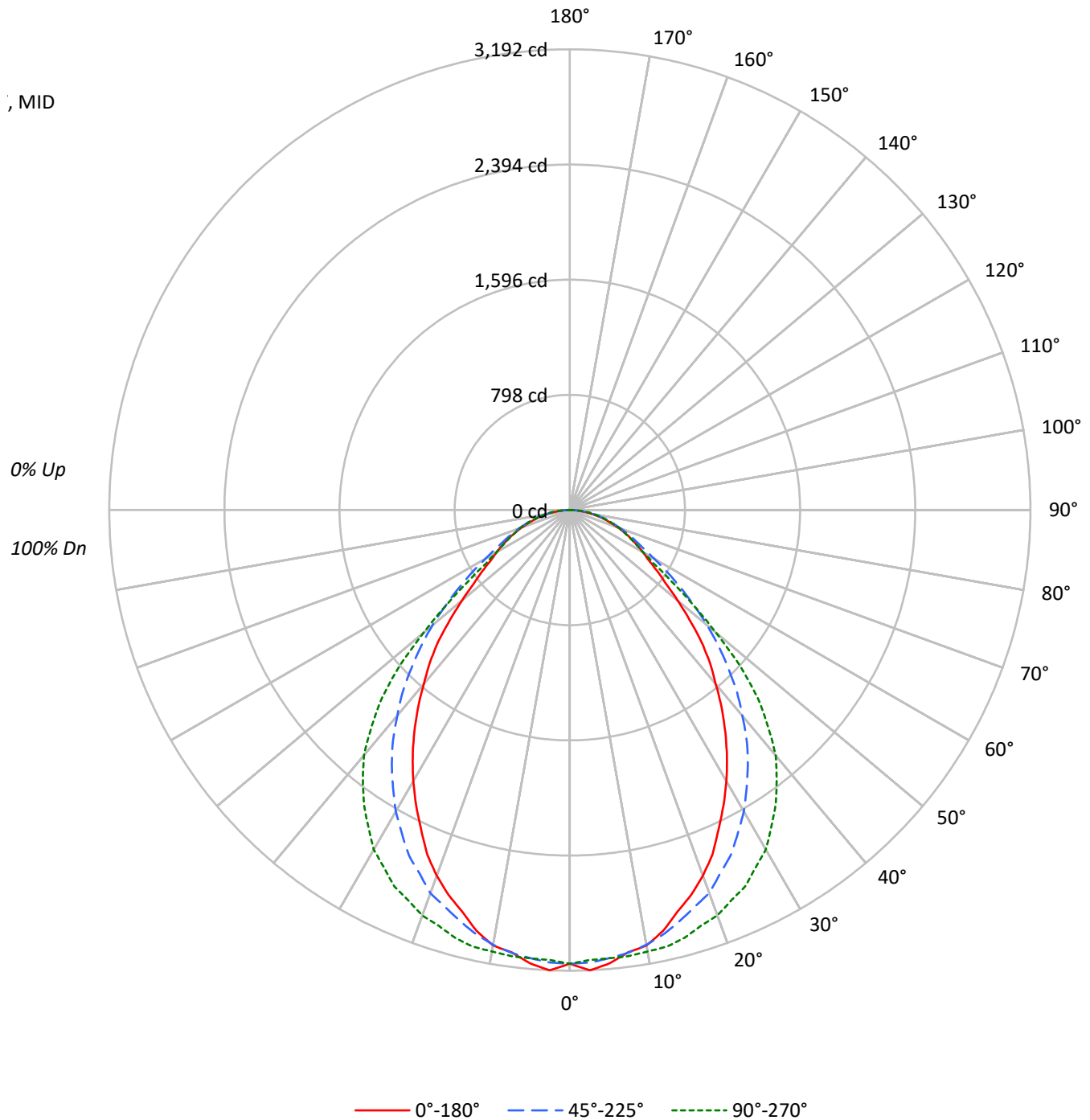
Test Method: LM-79-2019  
Report Number: P895473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC93-MID-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6533.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 66.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 89  | 87  |
| 2   | 102 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 77  | 77  | 77  | 77  | 75  |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 70  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 67  | 67  | 67  | 65  |
| 4   | 87  | 76  | 68  | 62  | 84  | 74  | 67  | 61  | 72  | 66  | 60  | 70  | 64  | 60  | 68  | 63  | 59  | 59  | 59  | 59  | 57  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 53  | 63  | 58  | 53  | 62  | 56  | 52  | 52  | 52  | 52  | 50  |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 47  | 47  | 47  | 45  |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 42  | 42  | 42  | 40  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 38  | 38  | 38  | 36  |
| 9   | 61  | 48  | 41  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 35  | 35  | 35  | 33  |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 42  | 36  | 32  | 32  | 32  | 32  | 30  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11153 | 11153 | 11153 |
| 5°  | 11231 | 11102 | 11102 |
| 10° | 11037 | 11019 | 11190 |
| 15° | 10580 | 10826 | 11270 |
| 20° | 10178 | 10665 | 11289 |
| 25° | 9548  | 10335 | 11263 |
| 30° | 8887  | 9878  | 11130 |
| 35° | 8135  | 9318  | 10776 |
| 40° | 7283  | 8616  | 10282 |
| 45° | 6463  | 7800  | 9244  |
| 50° | 5378  | 6866  | 7291  |
| 55° | 4581  | 5784  | 5298  |
| 60° | 4153  | 4779  | 4188  |
| 65° | 3912  | 4186  | 3897  |
| 70° | 3680  | 3883  | 3799  |
| 75° | 3429  | 3697  | 3630  |
| 80° | 3141  | 3406  | 3506  |
| 85° | 2728  | 2996  | 3924  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9244 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 297.6  | 4.6       |
| 10°-20°   | 837.4  | 12.8      |
| 20°-30°   | 1216.1 | 18.6      |
| 30°-40°   | 1354.2 | 20.7      |
| 40°-50°   | 1196.4 | 18.3      |
| 50°-60°   | 785.1  | 12.0      |
| 60°-70°   | 480.7  | 7.4       |
| 70°-80°   | 279.7  | 4.3       |
| 80°-90°   | 85.7   | 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°    | 2351.2 | 36.0      |
| 0°-40°    | 3705.4 | 56.7      |
| 0°-60°    | 5686.8 | 87.0      |
| 0°-90°    | 6533.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6533.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3143 | 3143  | 3143 | 3143  | 3143 |      |
| 5°  | 3153 | 3155  | 3117 | 3148  | 3117 | 297  |
| 15° | 2880 | 2913  | 2947 | 3063  | 3068 | 813  |
| 25° | 2439 | 2498  | 2640 | 2808  | 2877 | 1122 |
| 35° | 1878 | 1980  | 2151 | 2378  | 2488 | 1171 |
| 45° | 1288 | 1366  | 1554 | 1764  | 1842 | 985  |
| 55° | 740  | 793   | 935  | 927   | 856  | 672  |
| 65° | 466  | 474   | 499  | 484   | 464  | 463  |
| 75° | 250  | 253   | 270  | 275   | 265  | 265  |
| 85° | 67   | 70    | 74   | 83    | 96   | 76   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3143.4 | 3143.4 | 3143.4 | 3143.4 | 3143.4 |
| 2.5°  | 3192.4 | 3153.2 | 3138.5 | 3153.2 | 3120.5 |
| 5°    | 3153.2 | 3154.8 | 3117.2 | 3148.3 | 3117.2 |
| 7.5°  | 3091.1 | 3112.3 | 3094.3 | 3141.7 | 3117.2 |
| 10°   | 3063.3 | 3064.9 | 3058.4 | 3107.4 | 3105.8 |
| 12.5° | 2986.5 | 2991.4 | 3009.3 | 3082.9 | 3099.2 |
| 15°   | 2880.2 | 2912.9 | 2947.2 | 3063.3 | 3068.2 |
| 17.5° | 2796.8 | 2836.1 | 2881.8 | 3006.1 | 3020.8 |
| 20°   | 2695.5 | 2711.8 | 2824.6 | 2934.1 | 2989.7 |
| 22.5° | 2582.7 | 2613.8 | 2723.3 | 2870.4 | 2926.0 |
| 25°   | 2438.9 | 2497.7 | 2639.9 | 2808.3 | 2876.9 |
| 27.5° | 2306.5 | 2375.1 | 2522.2 | 2710.2 | 2790.3 |
| 30°   | 2169.1 | 2247.6 | 2411.1 | 2595.8 | 2716.7 |
| 32.5° | 2026.9 | 2125.0 | 2280.3 | 2492.8 | 2599.1 |
| 35°   | 1878.2 | 1979.5 | 2151.2 | 2378.4 | 2487.9 |
| 37.5° | 1729.4 | 1827.5 | 2013.9 | 2257.4 | 2355.5 |
| 40°   | 1572.5 | 1669.0 | 1860.2 | 2107.0 | 2219.8 |
| 42.5° | 1436.8 | 1520.2 | 1716.4 | 1927.2 | 2031.8 |
| 45°   | 1288.1 | 1366.5 | 1554.5 | 1763.8 | 1842.2 |
| 47.5° | 1124.6 | 1216.2 | 1399.2 | 1570.9 | 1601.9 |
| 50°   | 974.2  | 1069.0 | 1243.9 | 1343.7 | 1320.8 |
| 52.5° | 841.8  | 921.9  | 1082.1 | 1124.6 | 1070.7 |
| 55°   | 740.5  | 792.8  | 935.0  | 926.8  | 856.5  |
| 57.5° | 647.3  | 680.0  | 801.0  | 755.2  | 688.2  |
| 60°   | 585.2  | 599.9  | 673.5  | 631.0  | 590.1  |
| 62.5° | 526.3  | 532.9  | 572.1  | 549.2  | 518.2  |
| 65°   | 465.9  | 474.0  | 498.6  | 483.8  | 464.2  |
| 67.5° | 410.3  | 413.6  | 436.4  | 433.2  | 408.7  |
| 70°   | 354.7  | 359.6  | 374.3  | 380.9  | 366.2  |
| 72.5° | 300.8  | 305.7  | 320.4  | 326.9  | 313.8  |
| 75°   | 250.1  | 253.4  | 269.7  | 274.6  | 264.8  |
| 77.5° | 201.1  | 207.6  | 217.4  | 225.6  | 214.1  |
| 80°   | 153.7  | 156.9  | 166.7  | 176.5  | 171.6  |
| 82.5° | 107.9  | 112.8  | 119.3  | 132.4  | 135.7  |
| 85°   | 67.0   | 70.3   | 73.6   | 83.4   | 96.4   |
| 87.5° | 26.2   | 27.8   | 32.7   | 36.0   | 47.4   |
| 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 | 15.91            | 17.39 | 16.27 | 17.70 | 18.02 | 16.56          | 18.04 | 16.93 | 18.36 | 18.67 |
|                 | 3H   | 17.51            | 18.84 | 17.89 | 19.16 | 19.53 | 18.00          | 19.32 | 18.37 | 19.65 | 20.01 |
|                 | 4H   | 18.13            | 19.37 | 18.53 | 19.72 | 20.10 | 18.60          | 19.84 | 19.00 | 20.19 | 20.57 |
|                 | 6H   | 18.60            | 19.74 | 19.01 | 20.11 | 20.50 | 19.09          | 20.23 | 19.50 | 20.60 | 20.99 |
|                 | 8H   | 18.75            | 19.84 | 19.18 | 20.23 | 20.63 | 19.29          | 20.38 | 19.71 | 20.77 | 21.17 |
|                 | 12H  | 18.85            | 19.89 | 19.28 | 20.28 | 20.71 | 19.45          | 20.50 | 19.88 | 20.88 | 21.31 |
| 4H              | 2H   | 16.53            | 17.77 | 16.93 | 18.12 | 18.50 | 17.05          | 18.30 | 17.45 | 18.65 | 19.03 |
|                 | 3H   | 18.35            | 19.38 | 18.76 | 19.78 | 20.18 | 18.75          | 19.78 | 19.16 | 20.18 | 20.58 |
|                 | 4H   | 19.09            | 20.02 | 19.52 | 20.43 | 20.87 | 19.51          | 20.43 | 19.94 | 20.85 | 21.29 |
|                 | 6H   | 19.69            | 20.49 | 20.15 | 20.94 | 21.40 | 20.14          | 20.95 | 20.60 | 21.39 | 21.85 |
|                 | 8H   | 19.88            | 20.64 | 20.35 | 21.08 | 21.55 | 20.40          | 21.15 | 20.86 | 21.59 | 22.06 |
|                 | 12H  | 20.03            | 20.70 | 20.51 | 21.18 | 21.65 | 20.62          | 21.29 | 21.10 | 21.77 | 22.24 |
| 8H              | 4H   | 19.41            | 20.16 | 19.87 | 20.61 | 21.07 | 19.78          | 20.53 | 20.24 | 20.97 | 21.44 |
|                 | 6H   | 20.13            | 20.76 | 20.63 | 21.25 | 21.73 | 20.55          | 21.17 | 21.05 | 21.66 | 22.14 |
|                 | 8H   | 20.40            | 20.97 | 20.92 | 21.48 | 21.96 | 20.89          | 21.46 | 21.41 | 21.97 | 22.45 |
|                 | 12H  | 20.62            | 21.12 | 21.13 | 21.61 | 22.18 | 21.21          | 21.71 | 21.72 | 22.20 | 22.77 |
| 12H             | 4H   | 19.44            | 20.11 | 19.93 | 20.59 | 21.07 | 19.79          | 20.47 | 20.28 | 20.95 | 21.42 |
|                 | 6H   | 20.20            | 20.76 | 20.71 | 21.27 | 21.76 | 20.60          | 21.16 | 21.11 | 21.67 | 22.16 |
|                 | 8H   | 20.53            | 21.03 | 21.04 | 21.52 | 22.08 | 21.00          | 21.50 | 21.51 | 21.99 | 22.56 |