

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: P893063

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

**Test Information**

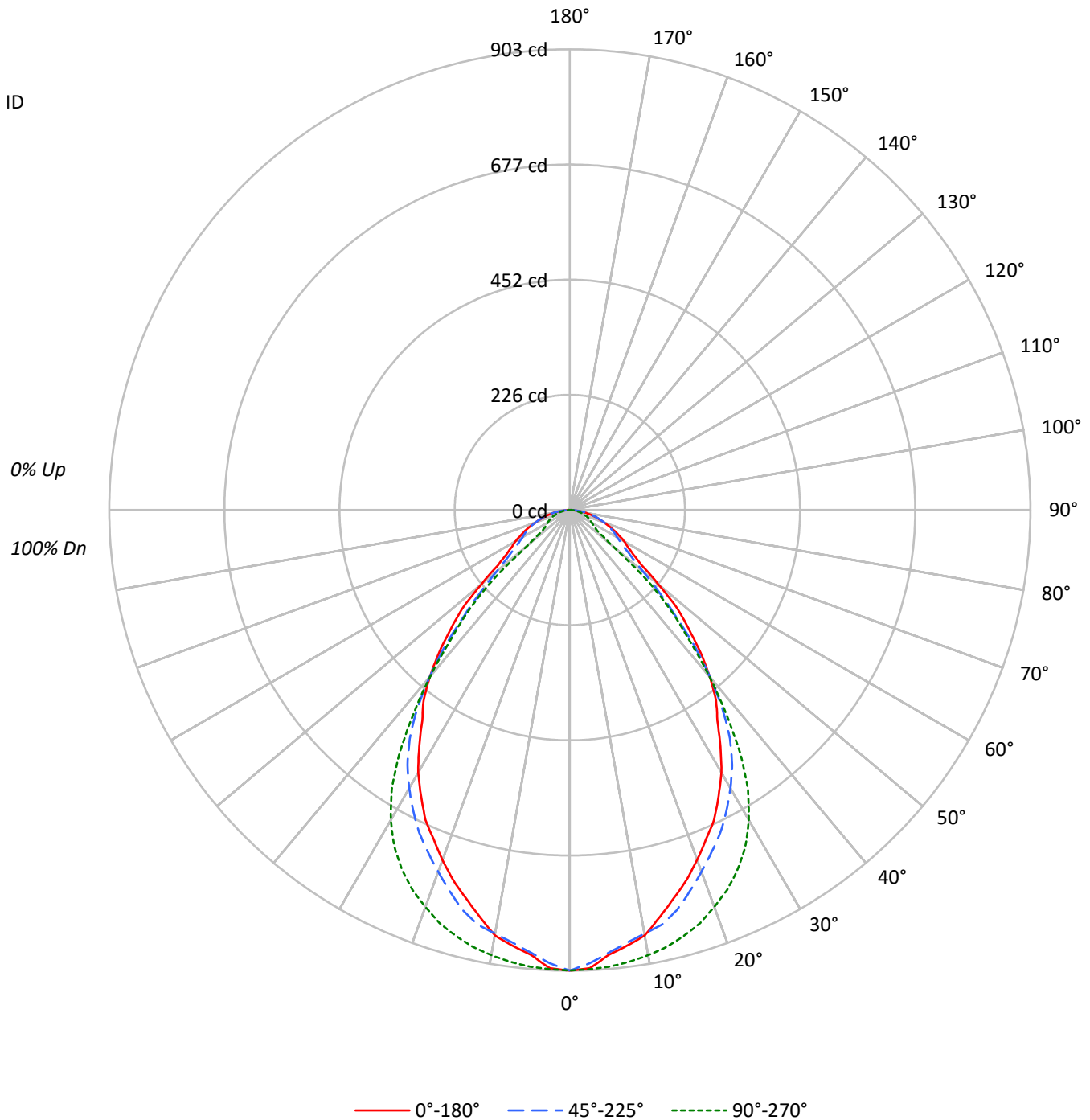
Test Method: LM-79-2019  
Report Number: P893063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRA-UNV-CC93-MID-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, MI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1465.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
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 | 100 | 100 | 100 | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  | 88  | 88  | 88  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  | 78  | 78  | 78  | 78  |
| 3   | 96  | 87  | 80  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  | 69  | 69  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 62  | 62  | 62  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 55  | 55  | 55  | 55  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  | 50  | 50  | 50  |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 45  | 45  | 45  | 45  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 41  | 41  | 41  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  | 38  | 38  | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 35  | 35  | 35  | 35  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12914 | 12914 | 12914 |
| 5°  | 12565 | 12508 | 12900 |
| 10° | 12298 | 12244 | 12869 |
| 15° | 11663 | 12021 | 12797 |
| 20° | 11110 | 11486 | 12602 |
| 25° | 10569 | 11021 | 12280 |
| 30° | 9819  | 10403 | 11594 |
| 35° | 8803  | 9560  | 10169 |
| 40° | 7976  | 7995  | 7950  |
| 45° | 6670  | 5907  | 5762  |
| 50° | 5039  | 4157  | 2357  |
| 55° | 3789  | 3325  | 1486  |
| 60° | 3522  | 3061  | 1431  |
| 65° | 3277  | 3057  | 1432  |
| 70° | 2999  | 2999  | 1410  |
| 75° | 2841  | 2918  | 1365  |
| 80° | 2628  | 2760  | 1400  |
| 85° | 2298  | 2413  | 1526  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6824 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.4   | 5.7       |
| 10°-20°   | 229.8  | 15.7      |
| 20°-30°   | 325.8  | 22.2      |
| 30°-40°   | 335.6  | 22.9      |
| 40°-50°   | 234.4  | 16.0      |
| 50°-60°   | 112.5  | 7.7       |
| 60°-70°   | 78.9   | 5.4       |
| 70°-80°   | 49.3   | 3.4       |
| 80°-90°   | 15.3   | 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°    | 638.9  | 43.6      |
| 0°-40°    | 974.6  | 66.5      |
| 0°-60°    | 1321.5 | 90.2      |
| 0°-90°    | 1465.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1465.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 903 | 903   | 903 | 903   | 903 |      |
| 5°  | 875 | 874   | 871 | 894   | 898 | 83   |
| 15° | 788 | 793   | 812 | 835   | 864 | 222  |
| 25° | 670 | 676   | 698 | 745   | 778 | 306  |
| 35° | 504 | 518   | 547 | 559   | 582 | 318  |
| 45° | 330 | 337   | 292 | 277   | 285 | 254  |
| 55° | 152 | 144   | 133 | 85    | 60  | 142  |
| 65° | 97  | 90    | 90  | 69    | 42  | 96   |
| 75° | 51  | 51    | 53  | 46    | 25  | 54   |
| 85° | 14  | 14    | 15  | 14    | 9   | 16   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 |
| 2.5°  | 899.2 | 896.4 | 889.6 | 902.0 | 901.0 |
| 5°    | 875.0 | 873.8 | 871.0 | 893.8 | 898.3 |
| 7.5°  | 861.3 | 858.9 | 855.7 | 880.8 | 893.1 |
| 10°   | 846.6 | 849.4 | 842.9 | 865.9 | 885.9 |
| 12.5° | 816.4 | 823.8 | 832.6 | 850.6 | 877.1 |
| 15°   | 787.5 | 793.3 | 811.7 | 835.0 | 864.1 |
| 17.5° | 760.5 | 767.3 | 783.1 | 818.0 | 848.9 |
| 20°   | 729.8 | 739.1 | 754.5 | 799.1 | 827.8 |
| 22.5° | 698.2 | 706.8 | 726.1 | 774.0 | 805.9 |
| 25°   | 669.6 | 676.3 | 698.2 | 745.4 | 778.0 |
| 27.5° | 631.6 | 644.2 | 664.9 | 710.5 | 744.7 |
| 30°   | 594.4 | 605.1 | 629.8 | 668.2 | 701.9 |
| 32.5° | 549.5 | 565.1 | 592.3 | 621.6 | 649.8 |
| 35°   | 504.1 | 517.9 | 547.4 | 558.8 | 582.3 |
| 37.5° | 471.1 | 474.8 | 491.6 | 490.2 | 503.4 |
| 40°   | 427.1 | 434.6 | 428.1 | 410.6 | 425.7 |
| 42.5° | 379.7 | 388.5 | 362.2 | 342.0 | 347.3 |
| 45°   | 329.7 | 337.3 | 292.0 | 277.1 | 284.8 |
| 47.5° | 286.4 | 285.7 | 235.4 | 225.4 | 214.7 |
| 50°   | 226.4 | 233.8 | 186.8 | 168.2 | 105.9 |
| 52.5° | 176.8 | 179.6 | 154.0 | 107.5 | 69.6  |
| 55°   | 151.9 | 144.5 | 133.3 | 85.4  | 59.6  |
| 57.5° | 134.9 | 125.6 | 118.2 | 79.3  | 54.4  |
| 60°   | 123.1 | 112.6 | 107.0 | 75.4  | 50.0  |
| 62.5° | 109.6 | 101.4 | 99.3  | 71.9  | 46.1  |
| 65°   | 96.8  | 90.5  | 90.3  | 68.6  | 42.3  |
| 67.5° | 84.0  | 80.5  | 81.4  | 64.7  | 38.2  |
| 70°   | 71.7  | 71.0  | 71.7  | 59.6  | 33.7  |
| 72.5° | 61.2  | 60.5  | 62.3  | 53.0  | 28.8  |
| 75°   | 51.4  | 50.7  | 52.8  | 45.6  | 24.7  |
| 77.5° | 40.9  | 41.4  | 42.8  | 37.9  | 20.7  |
| 80°   | 31.9  | 31.9  | 33.5  | 29.8  | 17.0  |
| 82.5° | 22.8  | 23.0  | 24.0  | 21.9  | 13.3  |
| 85°   | 14.0  | 14.0  | 14.7  | 14.4  | 9.3   |
| 87.5° | 4.7   | 5.4   | 6.3   | 6.7   | 4.7   |
| 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 | 14.53            | 15.89 | 14.90 | 16.20 | 16.51 | 10.86          | 12.22 | 11.23 | 12.53 | 12.85 |
|                 | 3H   | 16.27            | 17.48 | 16.65 | 17.81 | 18.17 | 12.84          | 14.05 | 13.22 | 14.38 | 14.74 |
|                 | 4H   | 16.94            | 18.07 | 17.35 | 18.42 | 18.80 | 13.55          | 14.68 | 13.95 | 15.03 | 15.41 |
|                 | 6H   | 17.45            | 18.49 | 17.87 | 18.86 | 19.25 | 14.07          | 15.11 | 14.48 | 15.48 | 15.87 |
|                 | 8H   | 17.62            | 18.61 | 18.05 | 19.00 | 19.40 | 14.26          | 15.24 | 14.69 | 15.63 | 16.04 |
|                 | 12H  | 17.73            | 18.68 | 18.16 | 19.06 | 19.49 | 14.40          | 15.34 | 14.83 | 15.72 | 16.15 |
| 4H              | 2H   | 15.06            | 16.19 | 15.47 | 16.54 | 16.92 | 12.49          | 13.62 | 12.89 | 13.97 | 14.35 |
|                 | 3H   | 17.04            | 17.97 | 17.46 | 18.38 | 18.78 | 14.67          | 15.60 | 15.08 | 16.00 | 16.40 |
|                 | 4H   | 17.84            | 18.68 | 18.28 | 19.10 | 19.54 | 15.55          | 16.38 | 15.98 | 16.80 | 17.24 |
|                 | 6H   | 18.49            | 19.21 | 18.95 | 19.66 | 20.12 | 16.19          | 16.91 | 16.65 | 17.36 | 17.82 |
|                 | 8H   | 18.71            | 19.38 | 19.18 | 19.83 | 20.30 | 16.40          | 17.08 | 16.87 | 17.52 | 17.99 |
|                 | 12H  | 18.86            | 19.46 | 19.35 | 19.94 | 20.42 | 16.56          | 17.16 | 17.04 | 17.64 | 18.11 |
| 8H              | 4H   | 18.13            | 18.81 | 18.60 | 19.25 | 19.72 | 16.20          | 16.87 | 16.66 | 17.32 | 17.79 |
|                 | 6H   | 18.91            | 19.47 | 19.41 | 19.96 | 20.44 | 17.06          | 17.61 | 17.56 | 18.11 | 18.59 |
|                 | 8H   | 19.21            | 19.71 | 19.73 | 20.23 | 20.72 | 17.39          | 17.89 | 17.91 | 18.40 | 18.89 |
|                 | 12H  | 19.45            | 19.89 | 19.96 | 20.38 | 20.95 | 17.65          | 18.09 | 18.16 | 18.58 | 19.15 |
| 12H             | 4H   | 18.15            | 18.75 | 18.63 | 19.23 | 19.70 | 16.27          | 16.87 | 16.75 | 17.35 | 17.82 |
|                 | 6H   | 18.96            | 19.46 | 19.48 | 19.98 | 20.47 | 17.20          | 17.69 | 17.71 | 18.21 | 18.70 |
|                 | 8H   | 19.33            | 19.77 | 19.84 | 20.26 | 20.83 | 17.61          | 18.05 | 18.12 | 18.54 | 19.11 |