

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: P895442

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

**Test Information**

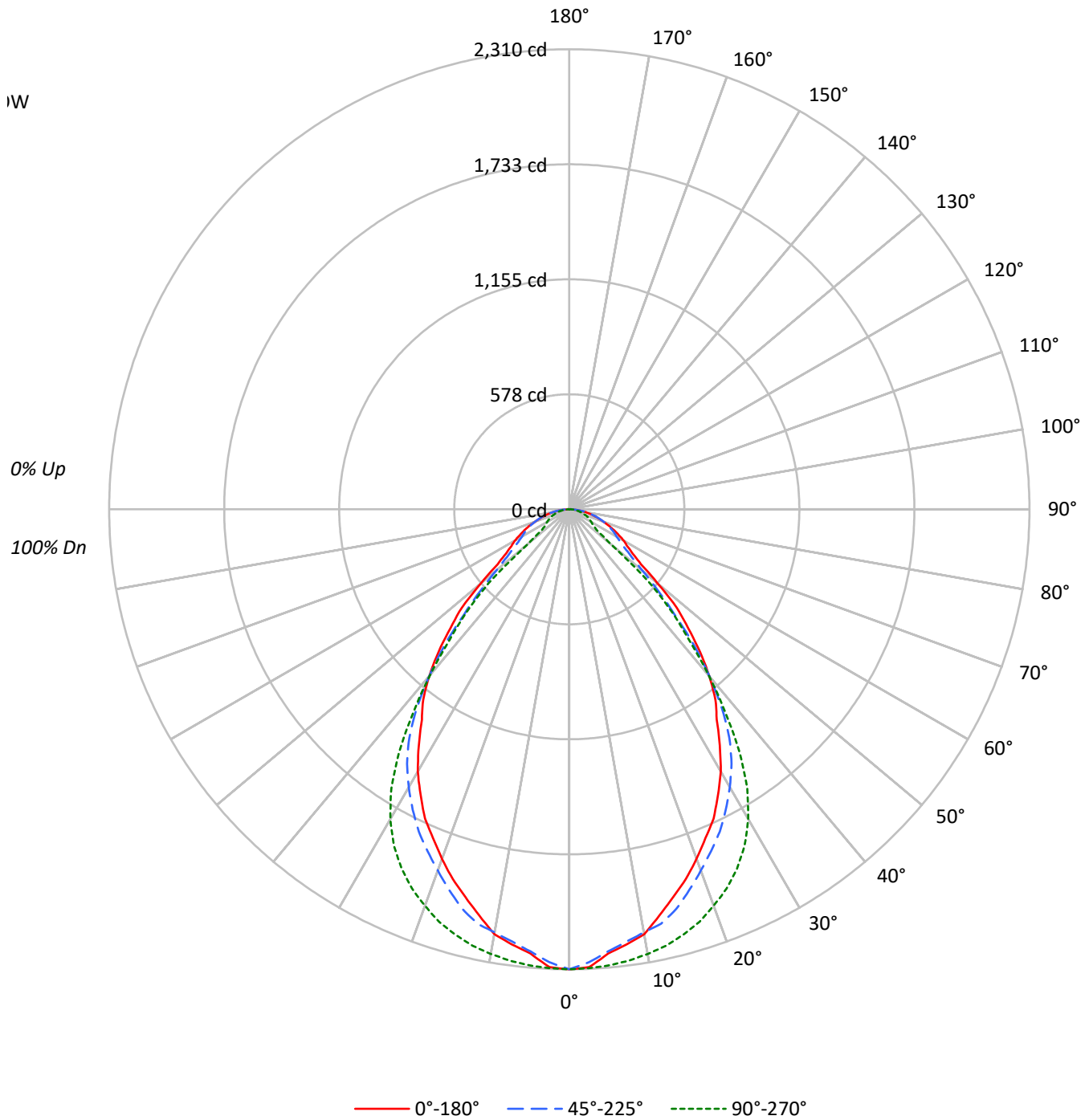
Test Method: LM-79-2019  
Report Number: P895442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-LOW-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, LO lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3749.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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  |     |     |     | 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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 90  | 90  | 90  | 88  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 85  | 82  | 80  | 80  | 80  | 80  | 78  |
| 3   | 96  | 87  | 80  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 71  | 71  | 71  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 63  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 57  | 57  | 57  | 55  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 52  | 52  | 52  | 50  |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 47  | 47  | 47  | 45  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 43  | 43  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 40  | 40  | 40  | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 37  | 37  | 37  | 35  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8196 | 8196 | 8196 |
| 5°  | 7975 | 7939 | 8187 |
| 10° | 7806 | 7771 | 8168 |
| 15° | 7403 | 7630 | 8122 |
| 20° | 7052 | 7290 | 7998 |
| 25° | 6708 | 6995 | 7794 |
| 30° | 6232 | 6603 | 7359 |
| 35° | 5588 | 6068 | 6455 |
| 40° | 5063 | 5074 | 5046 |
| 45° | 4233 | 3749 | 3656 |
| 50° | 3198 | 2639 | 1495 |
| 55° | 2405 | 2110 | 943  |
| 60° | 2235 | 1944 | 908  |
| 65° | 2080 | 1939 | 910  |
| 70° | 1903 | 1903 | 895  |
| 75° | 1804 | 1852 | 865  |
| 80° | 1667 | 1751 | 889  |
| 85° | 1453 | 1527 | 969  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4332 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 213.4  | 5.7       |
| 10°-20°   | 587.9  | 15.7      |
| 20°-30°   | 833.7  | 22.2      |
| 30°-40°   | 858.9  | 22.9      |
| 40°-50°   | 599.9  | 16.0      |
| 50°-60°   | 287.9  | 7.7       |
| 60°-70°   | 202.0  | 5.4       |
| 70°-80°   | 126.3  | 3.4       |
| 80°-90°   | 39.1   | 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°    | 1635.0 | 43.6      |
| 0°-40°    | 2493.9 | 66.5      |
| 0°-60°    | 3381.7 | 90.2      |
| 0°-90°    | 3749.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3749.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2310 | 2310  | 2310 | 2310  | 2310 |      |
| 5°  | 2239 | 2236  | 2229 | 2287  | 2299 | 212  |
| 15° | 2015 | 2030  | 2077 | 2137  | 2211 | 567  |
| 25° | 1713 | 1731  | 1787 | 1908  | 1991 | 783  |
| 35° | 1290 | 1325  | 1401 | 1430  | 1490 | 813  |
| 45° | 844  | 863   | 747  | 709   | 729  | 650  |
| 55° | 389  | 370   | 341  | 218   | 152  | 364  |
| 65° | 248  | 232   | 231  | 176   | 108  | 245  |
| 75° | 132  | 130   | 135  | 117   | 63   | 139  |
| 85° | 36   | 36    | 38   | 37    | 24   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2310.0 | 2310.0 | 2310.0 | 2310.0 | 2310.0 |
| 2.5°  | 2301.0 | 2293.9 | 2276.6 | 2308.2 | 2305.8 |
| 5°    | 2239.1 | 2236.2 | 2229.0 | 2287.4 | 2298.7 |
| 7.5°  | 2204.0 | 2198.0 | 2189.7 | 2254.0 | 2285.6 |
| 10°   | 2166.5 | 2173.6 | 2157.0 | 2215.9 | 2267.1 |
| 12.5° | 2089.1 | 2108.1 | 2130.8 | 2176.6 | 2244.5 |
| 15°   | 2015.3 | 2030.2 | 2077.2 | 2136.7 | 2211.1 |
| 17.5° | 1946.2 | 1963.5 | 2004.0 | 2093.3 | 2172.4 |
| 20°   | 1867.6 | 1891.4 | 1930.7 | 2045.0 | 2118.3 |
| 22.5° | 1786.7 | 1808.7 | 1858.1 | 1980.7 | 2062.3 |
| 25°   | 1713.4 | 1730.7 | 1786.7 | 1907.5 | 1990.9 |
| 27.5° | 1616.4 | 1648.5 | 1701.5 | 1818.2 | 1905.7 |
| 30°   | 1521.1 | 1548.5 | 1611.6 | 1709.9 | 1796.2 |
| 32.5° | 1406.2 | 1446.1 | 1515.8 | 1590.8 | 1662.8 |
| 35°   | 1290.1 | 1325.3 | 1400.9 | 1430.0 | 1490.2 |
| 37.5° | 1205.6 | 1215.1 | 1258.0 | 1254.4 | 1288.3 |
| 40°   | 1093.1 | 1112.1 | 1095.5 | 1050.8 | 1089.5 |
| 42.5° | 971.6  | 994.2  | 927.0  | 875.2  | 888.9  |
| 45°   | 843.6  | 863.3  | 747.2  | 709.1  | 728.7  |
| 47.5° | 732.9  | 731.1  | 602.5  | 576.9  | 549.5  |
| 50°   | 579.3  | 598.3  | 478.1  | 430.4  | 270.9  |
| 52.5° | 452.5  | 459.6  | 394.1  | 275.1  | 178.0  |
| 55°   | 388.8  | 369.7  | 341.1  | 218.5  | 152.4  |
| 57.5° | 345.3  | 321.5  | 302.4  | 203.0  | 139.3  |
| 60°   | 314.9  | 288.2  | 273.9  | 192.9  | 128.0  |
| 62.5° | 280.4  | 259.6  | 254.2  | 184.0  | 117.9  |
| 65°   | 247.7  | 231.6  | 231.0  | 175.6  | 108.4  |
| 67.5° | 214.9  | 206.0  | 208.4  | 165.5  | 97.6   |
| 70°   | 183.4  | 181.6  | 183.4  | 152.4  | 86.3   |
| 72.5° | 156.6  | 154.8  | 159.6  | 135.7  | 73.8   |
| 75°   | 131.6  | 129.8  | 135.1  | 116.7  | 63.1   |
| 77.5° | 104.8  | 106.0  | 109.5  | 97.0   | 53.0   |
| 80°   | 81.6   | 81.6   | 85.7   | 76.2   | 43.5   |
| 82.5° | 58.3   | 58.9   | 61.3   | 56.0   | 33.9   |
| 85°   | 35.7   | 35.7   | 37.5   | 36.9   | 23.8   |
| 87.5° | 11.9   | 13.7   | 16.1   | 17.3   | 11.9   |
| 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 | 12.96            | 14.31 | 13.32 | 14.62 | 14.94 | 9.29           | 10.64 | 9.65  | 10.95 | 11.27 |
|                 | 3H   | 14.69            | 15.90 | 15.07 | 16.23 | 16.60 | 11.26          | 12.47 | 11.64 | 12.80 | 13.16 |
|                 | 4H   | 15.37            | 16.49 | 15.77 | 16.84 | 17.23 | 11.97          | 13.10 | 12.37 | 13.45 | 13.83 |
|                 | 6H   | 15.87            | 16.91 | 16.29 | 17.28 | 17.67 | 12.49          | 13.53 | 12.91 | 13.90 | 14.29 |
|                 | 8H   | 16.04            | 17.03 | 16.47 | 17.42 | 17.82 | 12.68          | 13.66 | 13.11 | 14.05 | 14.46 |
|                 | 12H  | 16.15            | 17.10 | 16.59 | 17.48 | 17.91 | 12.82          | 13.76 | 13.25 | 14.14 | 14.57 |
| 4H              | 2H   | 13.49            | 14.61 | 13.89 | 14.96 | 15.35 | 10.91          | 12.04 | 11.31 | 12.39 | 12.77 |
|                 | 3H   | 15.46            | 16.39 | 15.88 | 16.80 | 17.20 | 13.09          | 14.02 | 13.50 | 14.42 | 14.82 |
|                 | 4H   | 16.27            | 17.10 | 16.70 | 17.52 | 17.96 | 13.97          | 14.80 | 14.40 | 15.22 | 15.66 |
|                 | 6H   | 16.91            | 17.63 | 17.37 | 18.08 | 18.54 | 14.61          | 15.33 | 15.07 | 15.78 | 16.24 |
|                 | 8H   | 17.13            | 17.81 | 17.60 | 18.25 | 18.72 | 14.82          | 15.50 | 15.29 | 15.94 | 16.41 |
|                 | 12H  | 17.28            | 17.88 | 17.77 | 18.36 | 18.84 | 14.98          | 15.58 | 15.46 | 16.06 | 16.53 |
| 8H              | 4H   | 16.55            | 17.23 | 17.02 | 17.67 | 18.14 | 14.62          | 15.29 | 15.08 | 15.74 | 16.21 |
|                 | 6H   | 17.33            | 17.89 | 17.83 | 18.38 | 18.86 | 15.48          | 16.03 | 15.98 | 16.53 | 17.01 |
|                 | 8H   | 17.63            | 18.13 | 18.15 | 18.65 | 19.14 | 15.81          | 16.30 | 16.33 | 16.82 | 17.31 |
|                 | 12H  | 17.87            | 18.31 | 18.38 | 18.80 | 19.37 | 16.07          | 16.51 | 16.58 | 17.00 | 17.57 |
| 12H             | 4H   | 16.57            | 17.17 | 17.05 | 17.65 | 18.12 | 14.69          | 15.29 | 15.17 | 15.77 | 16.24 |
|                 | 6H   | 17.39            | 17.89 | 17.91 | 18.40 | 18.89 | 15.61          | 16.11 | 16.13 | 16.63 | 17.12 |
|                 | 8H   | 17.75            | 18.19 | 18.26 | 18.68 | 19.25 | 16.03          | 16.47 | 16.54 | 16.96 | 17.53 |