

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: P895316

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-AOL-UNV-CC83-LOW-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800  
3500K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

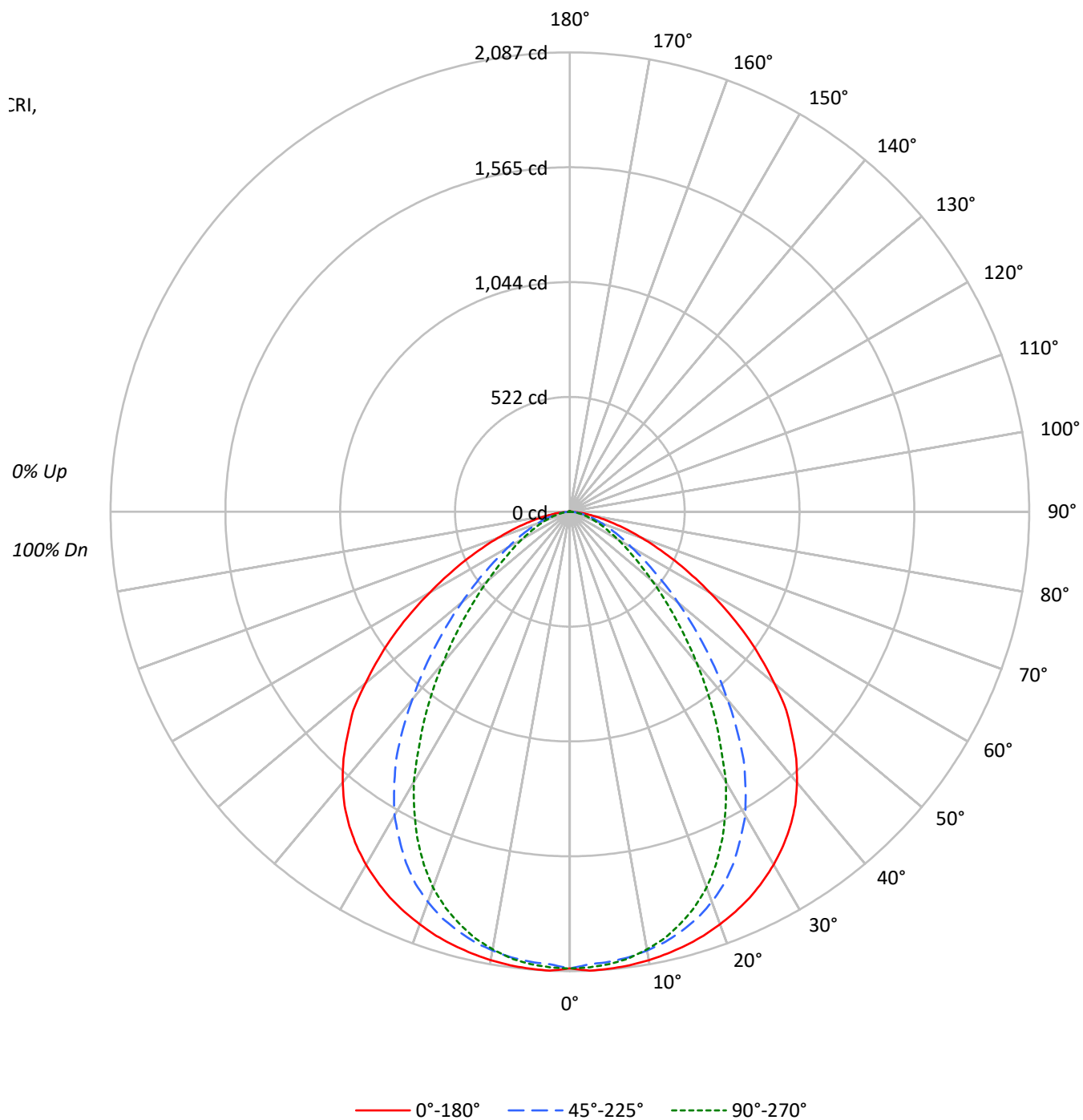
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4145.1 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16  
Luminous Opening: Rectangular (W 0.27' 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  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  |  | 96  | 94  | 92  |  | 93  |
| 2   | 102 | 95  | 89  | 85  | 100 | 93  | 88  | 84  | 90  | 85  | 82  |  | 87  | 83  | 80  |  | 84  |
| 3   | 94  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  |  | 78  | 73  | 70  |  | 76  |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  |  | 71  | 66  | 61  |  | 69  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 55  | 66  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  |  | 59  | 53  | 49  |  | 58  |
| 7   | 70  | 58  | 50  | 45  | 69  | 57  | 50  | 44  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 53  |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  |  | 50  | 44  | 40  |  | 49  |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  |  | 47  | 41  | 36  |  | 46  |
| 10  | 58  | 46  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  |  | 43  | 37  | 33  |  | 43  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10538 | 10538 | 10538 |
| 5°  | 10624 | 10463 | 10518 |
| 10° | 10667 | 10437 | 10409 |
| 15° | 10722 | 10362 | 10190 |
| 20° | 10780 | 10195 | 9819  |
| 25° | 10840 | 9863  | 9183  |
| 30° | 10860 | 9344  | 8315  |
| 35° | 10824 | 8536  | 7152  |
| 40° | 10643 | 7388  | 5943  |
| 45° | 10248 | 6208  | 4809  |
| 50° | 9590  | 5056  | 3852  |
| 55° | 8665  | 4063  | 3088  |
| 60° | 7473  | 3307  | 2558  |
| 65° | 6323  | 2754  | 2103  |
| 70° | 5162  | 2342  | 1785  |
| 75° | 4134  | 1974  | 1519  |
| 80° | 3220  | 1688  | 1304  |
| 85° | 2500  | 1492  | 1177  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10248 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.5  | 4.7       |
| 10°-20°   | 559.1  | 13.5      |
| 20°-30°   | 815.0  | 19.7      |
| 30°-40°   | 878.5  | 21.2      |
| 40°-50°   | 736.5  | 17.8      |
| 50°-60°   | 498.6  | 12.0      |
| 60°-70°   | 284.3  | 6.9       |
| 70°-80°   | 130.0  | 3.1       |
| 80°-90°   | 34.0   | 0.8       |
| 90°-100°  | 4.2    | 0.1       |
| 100°-110° | 2.9    | 0.1       |
| 110°-120° | 1.6    | 0.0       |
| 120°-130° | 0.9    | 0.0       |
| 130°-140° | 0.9    | 0.0       |
| 140°-150° | 0.8    | 0.0       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.5    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 1570.6 | 37.9      |
| 0°-40°    | 2449.1 | 59.1      |
| 0°-60°    | 3684.2 | 88.9      |
| 0°-90°    | 4132.6 | 99.7      |
| 90°-120°  | 8.7    | 0.2       |
| 90°-150°  | 11.2   | 0.3       |
| 90°-180°  | 12.0   | 0.3       |
| 0°-180°   | 4145.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2075 | 2075  | 2075 | 2075  | 2075 |      |
| 5°   | 2084 | 2077  | 2052 | 2069  | 2063 | 198  |
| 15°  | 2039 | 2021  | 1971 | 1958  | 1938 | 576  |
| 25°  | 1934 | 1883  | 1760 | 1679  | 1639 | 891  |
| 35°  | 1746 | 1614  | 1377 | 1208  | 1154 | 1090 |
| 45°  | 1427 | 1190  | 864  | 712   | 670  | 1098 |
| 55°  | 979  | 716   | 459  | 372   | 349  | 871  |
| 65°  | 526  | 366   | 229  | 186   | 175  | 525  |
| 75°  | 211  | 155   | 101  | 82    | 77   | 230  |
| 85°  | 43   | 36    | 26   | 21    | 20   | 50   |
| 90°  | 6    | 6     | 4    | 3     | 2    | 6    |
| 95°  | 9    | 5     | 3    | 2     | 2    | 7    |
| 105° | 6    | 4     | 2    | 1     | 1    | 6    |
| 115° | 3    | 2     | 1    | 1     | 1    | 3    |
| 125° | 1    | 1     | 1    | 1     | 1    | 1    |
| 135° | 1    | 1     | 1    | 1     | 1    | 1    |
| 145° | 1    | 1     | 1    | 1     | 1    | 1    |
| 155° | 1    | 1     | 1    | 2     | 2    | 1    |
| 165° | 1    | 2     | 2    | 2     | 2    | 0    |
| 175° | 2    | 2     | 2    | 2     | 2    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2075.0 | 2075.0 | 2075.0 | 2075.0 | 2075.0 |
| 2.5°   | 2086.9 | 2081.5 | 2057.7 | 2077.4 | 2071.4 |
| 5°     | 2083.9 | 2077.4 | 2052.4 | 2069.0 | 2063.1 |
| 7.5°   | 2078.0 | 2069.6 | 2041.7 | 2054.2 | 2046.4 |
| 10°    | 2068.4 | 2058.3 | 2023.8 | 2030.9 | 2018.4 |
| 12.5°  | 2055.3 | 2042.8 | 2001.8 | 2000.0 | 1985.1 |
| 15°    | 2039.3 | 2021.4 | 1970.8 | 1957.7 | 1938.1 |
| 17.5°  | 2019.6 | 1997.0 | 1933.9 | 1907.7 | 1883.9 |
| 20°    | 1994.6 | 1965.5 | 1886.3 | 1844.6 | 1816.7 |
| 22.5°  | 1966.1 | 1926.8 | 1830.9 | 1764.3 | 1733.9 |
| 25°    | 1934.5 | 1883.3 | 1760.1 | 1679.2 | 1638.7 |
| 27.5°  | 1895.2 | 1830.9 | 1678.0 | 1573.2 | 1531.5 |
| 30°    | 1851.8 | 1770.2 | 1593.4 | 1459.5 | 1417.8 |
| 32.5°  | 1802.4 | 1700.6 | 1485.7 | 1336.9 | 1278.6 |
| 35°    | 1745.8 | 1614.3 | 1376.8 | 1208.3 | 1153.6 |
| 37.5°  | 1682.1 | 1524.4 | 1246.4 | 1078.6 | 1023.2 |
| 40°    | 1605.3 | 1417.8 | 1114.3 | 948.2  | 896.4  |
| 42.5°  | 1522.6 | 1309.5 | 987.5  | 824.4  | 779.8  |
| 45°    | 1426.8 | 1190.5 | 864.3  | 712.5  | 669.6  |
| 47.5°  | 1334.5 | 1070.2 | 748.8  | 610.1  | 575.0  |
| 50°    | 1213.7 | 942.3  | 639.9  | 516.7  | 487.5  |
| 52.5°  | 1095.8 | 823.8  | 547.0  | 441.7  | 414.3  |
| 55°    | 978.6  | 716.1  | 458.9  | 372.0  | 348.8  |
| 57.5°  | 854.8  | 610.7  | 386.3  | 314.9  | 299.4  |
| 60°    | 735.7  | 519.6  | 325.6  | 264.3  | 251.8  |
| 62.5°  | 626.8  | 435.7  | 275.6  | 223.2  | 211.3  |
| 65°    | 526.2  | 366.1  | 229.2  | 185.7  | 175.0  |
| 67.5°  | 431.0  | 301.2  | 191.1  | 154.8  | 147.0  |
| 70°    | 347.6  | 244.0  | 157.7  | 127.4  | 120.2  |
| 72.5°  | 275.6  | 195.2  | 126.2  | 104.2  | 96.4   |
| 75°    | 210.7  | 154.8  | 100.6  | 82.1   | 77.4   |
| 77.5°  | 157.1  | 116.7  | 77.4   | 63.1   | 59.5   |
| 80°    | 110.1  | 84.5   | 57.7   | 47.6   | 44.6   |
| 82.5°  | 75.0   | 58.3   | 40.5   | 33.3   | 31.5   |
| 85°    | 42.9   | 36.3   | 25.6   | 21.4   | 20.2   |
| 87.5°  | 22.0   | 19.0   | 13.7   | 10.1   | 8.9    |
| 90°    | 6.0    | 6.0    | 3.6    | 3.0    | 2.4    |
| 92.5°  | 9.5    | 5.4    | 3.6    | 2.4    | 1.8    |
| 95°    | 8.9    | 5.4    | 3.0    | 1.8    | 1.8    |
| 97.5°  | 8.3    | 5.4    | 2.4    | 1.8    | 1.2    |
| 100°   | 7.7    | 4.8    | 2.4    | 1.2    | 1.2    |
| 102.5° | 7.1    | 4.8    | 2.4    | 1.2    | 1.2    |
| 105°   | 6.0    | 4.2    | 1.8    | 1.2    | 0.6    |
| 107.5° | 5.4    | 3.6    | 1.8    | 1.2    | 0.6    |
| 110°   | 4.2    | 3.0    | 1.8    | 1.2    | 0.6    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 3.6 | 3.0   | 1.2 | 1.2   | 0.6 |
| 115°   | 3.0 | 2.4   | 1.2 | 0.6   | 0.6 |
| 117.5° | 2.4 | 1.8   | 1.2 | 0.6   | 0.6 |
| 120°   | 1.8 | 1.8   | 1.2 | 0.6   | 0.6 |
| 122.5° | 1.8 | 1.2   | 1.2 | 0.6   | 0.6 |
| 125°   | 1.2 | 1.2   | 1.2 | 0.6   | 0.6 |
| 127.5° | 1.2 | 1.2   | 1.2 | 0.6   | 0.6 |
| 130°   | 1.2 | 1.2   | 1.2 | 0.6   | 0.6 |
| 132.5° | 1.2 | 1.2   | 1.2 | 1.2   | 0.6 |
| 135°   | 0.6 | 1.2   | 1.2 | 1.2   | 0.6 |
| 137.5° | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 140°   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 142.5° | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 145°   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 147.5° | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 150°   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 152.5° | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 155°   | 1.2 | 1.2   | 1.2 | 1.8   | 1.8 |
| 157.5° | 1.2 | 1.2   | 1.8 | 1.8   | 1.8 |
| 160°   | 1.2 | 1.2   | 1.8 | 1.8   | 1.8 |
| 162.5° | 1.2 | 1.2   | 1.8 | 1.8   | 1.8 |
| 165°   | 1.2 | 1.8   | 1.8 | 1.8   | 1.8 |
| 167.5° | 1.2 | 1.8   | 1.8 | 1.8   | 2.4 |
| 170°   | 1.2 | 1.8   | 1.8 | 2.4   | 2.4 |
| 172.5° | 1.2 | 1.8   | 1.8 | 2.4   | 2.4 |
| 175°   | 1.8 | 1.8   | 1.8 | 2.4   | 2.4 |
| 177.5° | 1.8 | 1.8   | 1.8 | 2.4   | 2.4 |
| 180°   | 1.8 | 1.8   | 1.8 | 1.8   | 1.8 |

(END OF REPORT)