

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: P895308

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-ACL-UNV-CC93-LOW-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

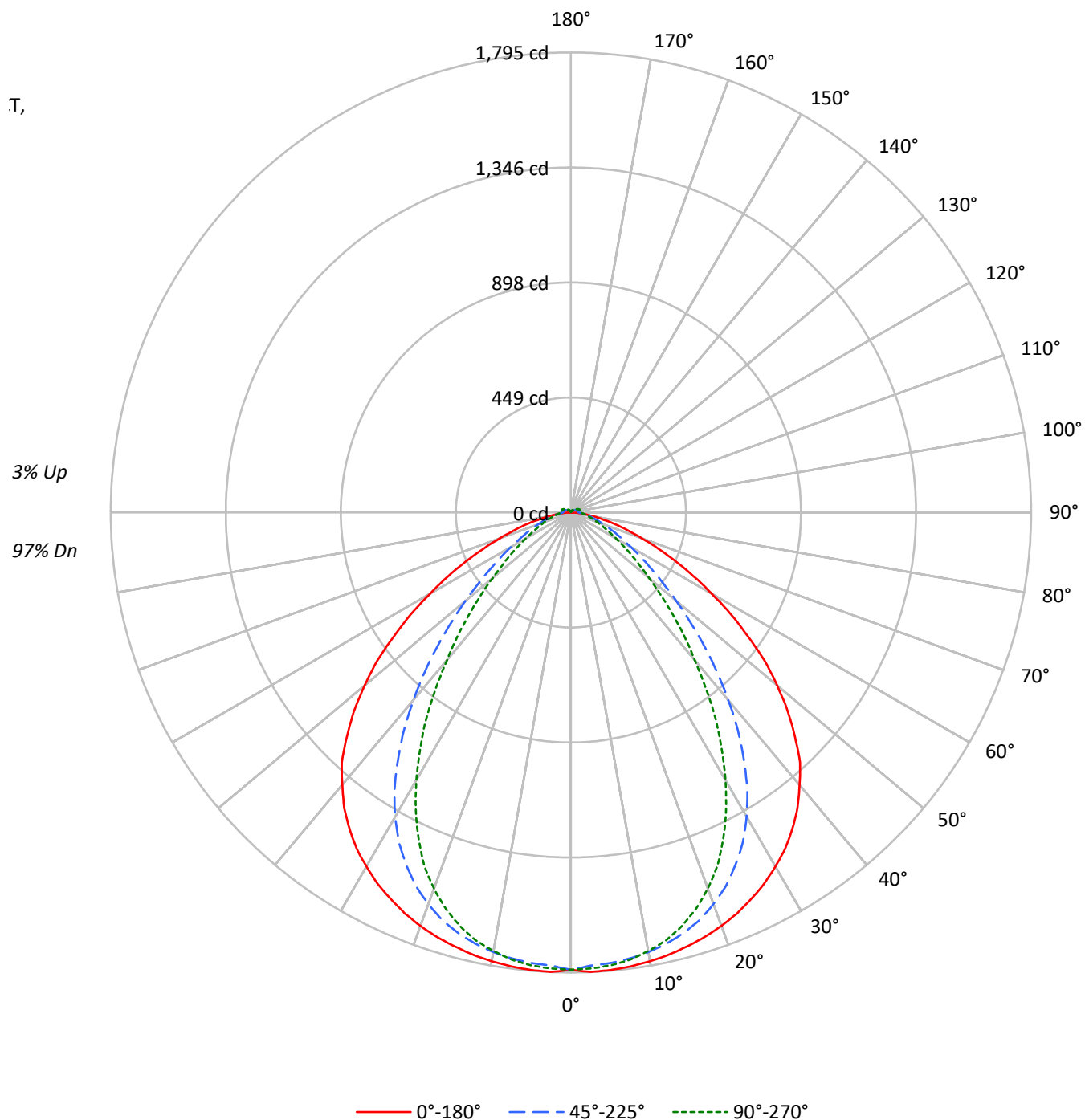
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3660.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')  
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  |     |     | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 |  | 104 | 104 | 104 |  | 100 | 100 | 100 | 97 |
| 1   | 110 | 106 | 102 | 99  | 107 | 103 | 100 | 97  | 99  | 96  | 93  |  | 94  | 92  | 90  |  | 90  | 89  | 87  | 85 |
| 2   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 82  | 88  | 84  | 80  |  | 85  | 81  | 78  |  | 82  | 79  | 76  | 74 |
| 3   | 94  | 85  | 77  | 72  | 91  | 83  | 76  | 71  | 80  | 74  | 69  |  | 77  | 72  | 68  |  | 74  | 70  | 66  | 64 |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 62  | 72  | 66  | 61  |  | 69  | 64  | 60  |  | 67  | 62  | 59  | 57 |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 55  | 65  | 59  | 54  |  | 63  | 58  | 53  |  | 61  | 56  | 52  | 50 |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  |  | 58  | 52  | 47  |  | 56  | 51  | 47  | 45 |
| 7   | 70  | 57  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  |  | 53  | 47  | 43  |  | 52  | 46  | 42  | 40 |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  |  | 49  | 43  | 39  |  | 48  | 42  | 38  | 37 |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  |  | 46  | 40  | 35  |  | 45  | 39  | 35  | 33 |
| 10  | 58  | 45  | 38  | 33  | 56  | 45  | 38  | 33  | 44  | 37  | 33  |  | 43  | 37  | 32  |  | 42  | 36  | 32  | 31 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9061 | 9061 | 9061 |
| 5°  | 9127 | 8821 | 8801 |
| 10° | 9152 | 8635 | 8492 |
| 15° | 9188 | 8415 | 8106 |
| 20° | 9242 | 8111 | 7577 |
| 25° | 9279 | 7686 | 6873 |
| 30° | 9299 | 7100 | 5988 |
| 35° | 9271 | 6279 | 5008 |
| 40° | 9120 | 5308 | 3942 |
| 45° | 8783 | 4289 | 3056 |
| 50° | 8193 | 3330 | 2293 |
| 55° | 7351 | 2552 | 1754 |
| 60° | 6335 | 1964 | 1336 |
| 65° | 5303 | 1552 | 1062 |
| 70° | 4267 | 1248 | 868  |
| 75° | 3430 | 1007 | 739  |
| 80° | 2557 | 834  | 646  |
| 85° | 1843 | 712  | 595  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8783 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 169.0  | 4.6       |
| 10°-20°   | 481.4  | 13.2      |
| 20°-30°   | 701.9  | 19.2      |
| 30°-40°   | 754.1  | 20.6      |
| 40°-50°   | 627.6  | 17.1      |
| 50°-60°   | 419.8  | 11.5      |
| 60°-70°   | 240.3  | 6.6       |
| 70°-80°   | 119.5  | 3.3       |
| 80°-90°   | 48.9   | 1.3       |
| 90°-100°  | 28.4   | 0.8       |
| 100°-110° | 25.0   | 0.7       |
| 110°-120° | 18.4   | 0.5       |
| 120°-130° | 11.8   | 0.3       |
| 130°-140° | 7.0    | 0.2       |
| 140°-150° | 4.0    | 0.1       |
| 150°-160° | 2.0    | 0.1       |
| 160°-170° | 0.8    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 1352.3 | 36.9      |
| 0°-40°    | 2106.4 | 57.6      |
| 0°-60°    | 3153.7 | 86.2      |
| 0°-90°    | 3562.4 | 97.3      |
| 90°-120°  | 71.8   | 2.0       |
| 90°-150°  | 94.6   | 2.6       |
| 90°-180°  | 98.0   | 2.7       |
| 0°-180°   | 3660.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1784 | 1784  | 1784 | 1784  | 1784 |      |
| 5°   | 1792 | 1786  | 1765 | 1780  | 1774 | 171  |
| 15°  | 1752 | 1740  | 1699 | 1686  | 1671 | 495  |
| 25°  | 1664 | 1624  | 1518 | 1442  | 1406 | 767  |
| 35°  | 1506 | 1397  | 1175 | 1030  | 985  | 941  |
| 45°  | 1236 | 1027  | 734  | 594   | 559  | 950  |
| 55°  | 843  | 608   | 382  | 302   | 287  | 755  |
| 65°  | 451  | 306   | 193  | 156   | 148  | 451  |
| 75°  | 182  | 132   | 95   | 84    | 82   | 195  |
| 85°  | 35   | 40    | 44   | 46    | 47   | 41   |
| 90°  | 5    | 17    | 30   | 36    | 37   | 5    |
| 95°  | 8    | 17    | 30   | 36    | 37   | 6    |
| 105° | 5    | 14    | 26   | 35    | 36   | 6    |
| 115° | 3    | 8     | 21   | 29    | 31   | 3    |
| 125° | 2    | 5     | 14   | 21    | 23   | 1    |
| 135° | 1    | 4     | 9    | 14    | 16   | 1    |
| 145° | 1    | 3     | 6    | 9     | 11   | 1    |
| 155° | 1    | 3     | 4    | 6     | 7    | 0    |
| 165° | 2    | 2     | 3    | 4     | 5    | 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°     | 1784.2 | 1784.2 | 1784.2 | 1784.2 | 1784.2 |
| 2.5°   | 1794.6 | 1789.9 | 1769.6 | 1785.7 | 1781.0 |
| 5°     | 1792.0 | 1786.2 | 1764.9 | 1779.5 | 1773.7 |
| 7.5°   | 1786.2 | 1780.0 | 1755.5 | 1767.0 | 1760.7 |
| 10°    | 1777.9 | 1770.1 | 1742.0 | 1747.7 | 1737.8 |
| 12.5°  | 1767.5 | 1757.6 | 1722.7 | 1721.2 | 1710.3 |
| 15°    | 1752.4 | 1740.4 | 1698.8 | 1686.3 | 1671.2 |
| 17.5°  | 1736.8 | 1719.1 | 1668.1 | 1642.6 | 1621.8 |
| 20°    | 1716.5 | 1693.1 | 1625.9 | 1587.9 | 1561.9 |
| 22.5°  | 1693.1 | 1661.3 | 1578.6 | 1520.3 | 1493.2 |
| 25°    | 1663.9 | 1624.4 | 1518.2 | 1441.7 | 1405.8 |
| 27.5°  | 1632.7 | 1580.1 | 1452.6 | 1352.2 | 1311.1 |
| 30°    | 1595.2 | 1530.2 | 1370.9 | 1250.2 | 1205.9 |
| 32.5°  | 1555.7 | 1466.7 | 1281.4 | 1142.9 | 1094.5 |
| 35°    | 1506.2 | 1396.9 | 1175.2 | 1030.5 | 985.2  |
| 37.5°  | 1452.6 | 1313.7 | 1070.1 | 915.5  | 864.5  |
| 40°    | 1387.6 | 1225.7 | 954.5  | 801.5  | 751.0  |
| 42.5°  | 1323.0 | 1129.9 | 843.7  | 698.5  | 654.7  |
| 45°    | 1235.6 | 1026.9 | 733.9  | 593.9  | 559.0  |
| 47.5°  | 1147.6 | 916.5  | 628.7  | 509.0  | 474.7  |
| 50°    | 1049.8 | 808.3  | 536.6  | 427.3  | 398.7  |
| 52.5°  | 954.5  | 707.3  | 452.8  | 361.2  | 336.7  |
| 55°    | 842.6  | 607.9  | 382.5  | 302.4  | 286.8  |
| 57.5°  | 741.7  | 515.8  | 322.7  | 256.1  | 241.5  |
| 60°    | 635.0  | 437.2  | 270.1  | 216.5  | 203.0  |
| 62.5°  | 541.3  | 367.4  | 227.4  | 183.7  | 174.4  |
| 65°    | 451.2  | 306.0  | 192.6  | 156.1  | 147.8  |
| 67.5°  | 368.5  | 255.5  | 162.4  | 133.2  | 126.5  |
| 70°    | 295.6  | 207.1  | 136.9  | 113.5  | 108.8  |
| 72.5°  | 232.6  | 166.5  | 114.0  | 97.8   | 93.7   |
| 75°    | 181.6  | 132.2  | 95.2   | 84.3   | 81.7   |
| 77.5°  | 131.2  | 103.1  | 79.6   | 72.3   | 70.8   |
| 80°    | 92.6   | 78.1   | 65.6   | 62.5   | 61.4   |
| 82.5°  | 61.4   | 56.7   | 54.1   | 54.1   | 53.6   |
| 85°    | 35.4   | 39.6   | 44.2   | 46.3   | 46.8   |
| 87.5°  | 18.2   | 26.5   | 35.4   | 39.6   | 40.1   |
| 90°    | 5.2    | 16.7   | 30.2   | 35.9   | 37.0   |
| 92.5°  | 7.8    | 16.7   | 29.7   | 35.9   | 37.0   |
| 95°    | 7.8    | 16.7   | 29.7   | 35.9   | 37.0   |
| 97.5°  | 7.3    | 16.1   | 29.7   | 35.9   | 37.0   |
| 100°   | 6.8    | 15.1   | 29.1   | 35.9   | 37.0   |
| 102.5° | 5.7    | 14.6   | 28.1   | 35.4   | 37.0   |
| 105°   | 5.2    | 13.5   | 26.5   | 34.9   | 36.4   |
| 107.5° | 4.7    | 11.5   | 25.0   | 33.3   | 35.4   |
| 110°   | 3.6    | 9.9    | 23.9   | 31.7   | 34.4   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.1 | 8.8   | 22.4 | 30.2  | 32.8 |
| 115°   | 2.6 | 7.8   | 20.8 | 28.6  | 31.2 |
| 117.5° | 2.1 | 7.3   | 18.7 | 26.5  | 29.1 |
| 120°   | 1.6 | 6.8   | 17.2 | 25.0  | 27.1 |
| 122.5° | 1.6 | 6.2   | 15.1 | 22.9  | 25.0 |
| 125°   | 1.6 | 5.2   | 14.1 | 20.8  | 22.9 |
| 127.5° | 1.0 | 4.7   | 12.5 | 18.7  | 20.8 |
| 130°   | 1.0 | 4.7   | 11.5 | 17.2  | 18.7 |
| 132.5° | 1.0 | 4.2   | 10.4 | 15.6  | 17.2 |
| 135°   | 1.0 | 4.2   | 9.4  | 14.1  | 15.6 |
| 137.5° | 1.0 | 3.6   | 8.3  | 13.0  | 14.6 |
| 140°   | 1.0 | 3.6   | 7.8  | 11.5  | 13.0 |
| 142.5° | 1.0 | 3.1   | 6.8  | 10.9  | 12.0 |
| 145°   | 1.0 | 3.1   | 6.2  | 9.4   | 10.9 |
| 147.5° | 1.0 | 3.1   | 5.7  | 8.8   | 9.9  |
| 150°   | 1.0 | 2.6   | 5.2  | 7.3   | 8.8  |
| 152.5° | 1.0 | 2.6   | 4.7  | 6.8   | 8.3  |
| 155°   | 1.0 | 2.6   | 4.2  | 5.7   | 7.3  |
| 157.5° | 1.0 | 2.6   | 4.2  | 5.2   | 6.2  |
| 160°   | 1.6 | 2.1   | 3.6  | 4.7   | 5.7  |
| 162.5° | 1.6 | 2.1   | 3.1  | 4.2   | 5.2  |
| 165°   | 1.6 | 2.1   | 3.1  | 3.6   | 4.7  |
| 167.5° | 1.6 | 2.1   | 2.6  | 3.1   | 3.6  |
| 170°   | 1.6 | 1.6   | 2.6  | 2.6   | 2.6  |
| 172.5° | 1.6 | 1.6   | 2.1  | 2.6   | 2.1  |
| 175°   | 1.6 | 1.6   | 2.1  | 2.1   | 2.1  |
| 177.5° | 1.6 | 1.6   | 2.1  | 2.1   | 2.1  |
| 180°   | 1.6 | 1.6   | 1.6  | 1.6   | 1.6  |

(END OF REPORT)