

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: P895304

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P895304  
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-HI-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC  
HI lumen setting  
Light Source: -  
Ballast/Driver: -

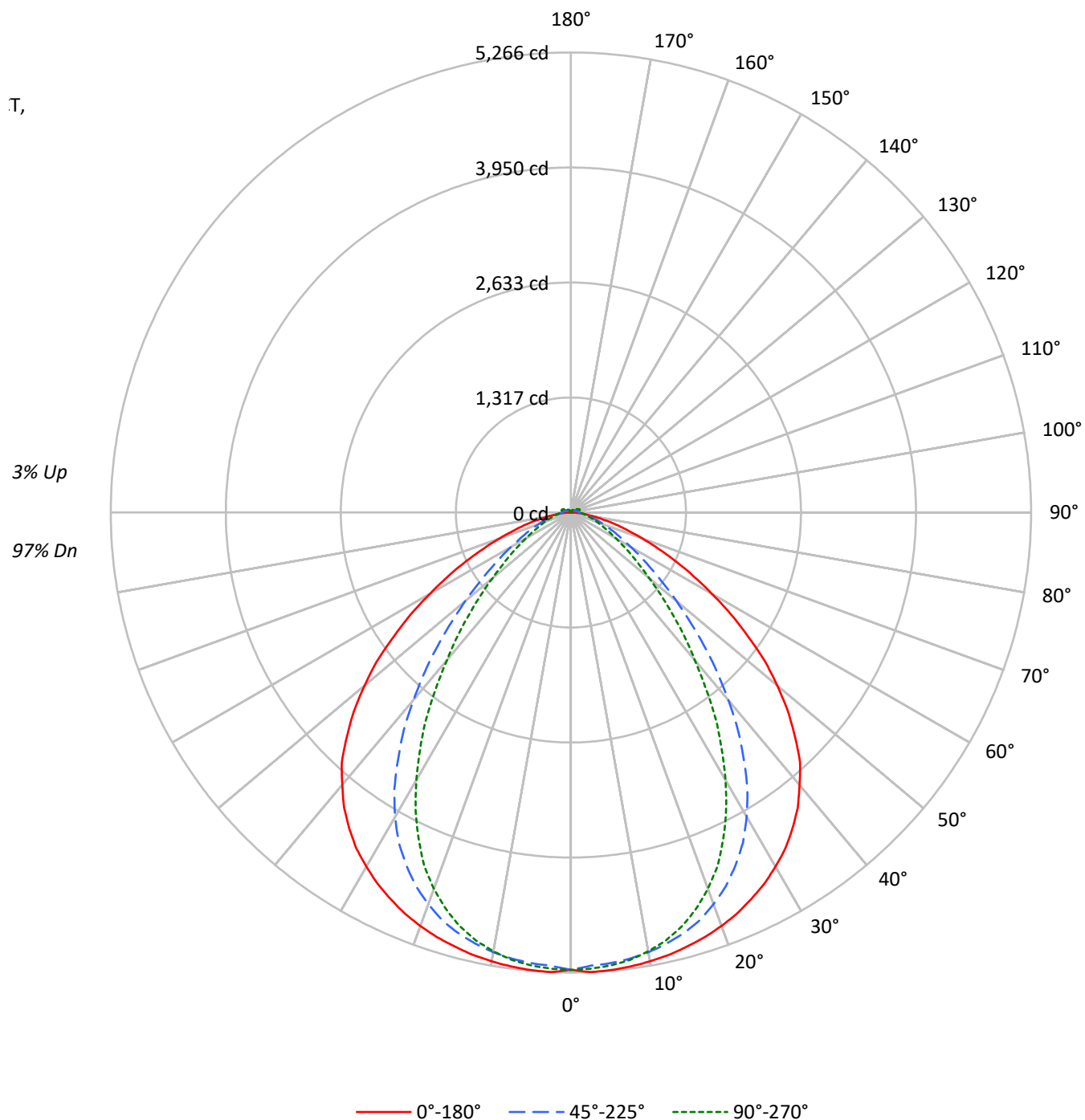
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10740.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 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): 101.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 |  | 104 | 104 | 104 |  | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 103 | 100 | 97  | 99  | 96  | 93  |  | 94  | 92  | 90  |  | 90  |
| 2   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 82  | 88  | 84  | 80  |  | 85  | 81  | 78  |  | 82  |
| 3   | 94  | 85  | 77  | 72  | 91  | 83  | 76  | 71  | 80  | 74  | 69  |  | 77  | 72  | 68  |  | 74  |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 62  | 72  | 66  | 61  |  | 69  | 64  | 60  |  | 67  |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 55  | 65  | 59  | 54  |  | 63  | 58  | 53  |  | 61  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  |  | 58  | 52  | 47  |  | 56  |
| 7   | 70  | 57  | 50  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  |  | 53  | 47  | 43  |  | 52  |
| 8   | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  |  | 49  | 43  | 39  |  | 48  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  |  | 46  | 40  | 35  |  | 45  |
| 10  | 58  | 45  | 38  | 33  | 56  | 45  | 38  | 33  | 44  | 37  | 33  |  | 43  | 37  | 32  |  | 42  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26590 | 26590 | 26590 |
| 5°  | 26783 | 25884 | 25827 |
| 10° | 26856 | 25338 | 24921 |
| 15° | 26962 | 24694 | 23786 |
| 20° | 27120 | 23802 | 22233 |
| 25° | 27229 | 22555 | 20167 |
| 30° | 27287 | 20835 | 17571 |
| 35° | 27204 | 18425 | 14697 |
| 40° | 26760 | 15575 | 11567 |
| 45° | 25772 | 12583 | 8969  |
| 50° | 24040 | 9772  | 6729  |
| 55° | 21572 | 7489  | 5146  |
| 60° | 18590 | 5764  | 3920  |
| 65° | 15564 | 4553  | 3116  |
| 70° | 12522 | 3660  | 2546  |
| 75° | 10067 | 2956  | 2168  |
| 80° | 7508  | 2447  | 1897  |
| 85° | 5409  | 2090  | 1748  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25772 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 495.9   | 4.6       |
| 10°-20°   | 1412.7  | 13.2      |
| 20°-30°   | 2059.6  | 19.2      |
| 30°-40°   | 2212.8  | 20.6      |
| 40°-50°   | 1841.7  | 17.1      |
| 50°-60°   | 1231.7  | 11.5      |
| 60°-70°   | 705.1   | 6.6       |
| 70°-80°   | 350.6   | 3.3       |
| 80°-90°   | 143.5   | 1.3       |
| 90°-100°  | 83.3    | 0.8       |
| 100°-110° | 73.4    | 0.7       |
| 110°-120° | 53.9    | 0.5       |
| 120°-130° | 34.7    | 0.3       |
| 130°-140° | 20.6    | 0.2       |
| 140°-150° | 11.6    | 0.1       |
| 150°-160° | 5.8     | 0.1       |
| 160°-170° | 2.5     | 0.0       |
| 170°-180° | 0.6     | 0.0       |
| 0°-30°    | 3968.2  | 36.9      |
| 0°-40°    | 6181.0  | 57.6      |
| 0°-60°    | 9254.4  | 86.2      |
| 0°-90°    | 10453.6 | 97.3      |
| 90°-120°  | 210.6   | 2.0       |
| 90°-150°  | 277.6   | 2.6       |
| 90°-180°  | 286.0   | 2.7       |
| 0°-180°   | 10740.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5236 | 5236  | 5236 | 5236  | 5236 |      |
| 5°   | 5258 | 5242  | 5179 | 5222  | 5205 | 501  |
| 15°  | 5142 | 5107  | 4985 | 4948  | 4904 | 1454 |
| 25°  | 4883 | 4767  | 4455 | 4230  | 4125 | 2252 |
| 35°  | 4420 | 4099  | 3449 | 3024  | 2891 | 2760 |
| 45°  | 3626 | 3013  | 2153 | 1743  | 1640 | 2787 |
| 55°  | 2473 | 1784  | 1122 | 887   | 842  | 2215 |
| 65°  | 1324 | 898   | 565  | 458   | 434  | 1324 |
| 75°  | 533  | 388   | 280  | 247   | 240  | 572  |
| 85°  | 104  | 116   | 130  | 136   | 138  | 121  |
| 90°  | 15   | 49    | 89   | 105   | 108  | 15   |
| 95°  | 23   | 49    | 87   | 105   | 108  | 18   |
| 105° | 15   | 40    | 78   | 102   | 107  | 16   |
| 115° | 8    | 23    | 61   | 84    | 92   | 8    |
| 125° | 5    | 15    | 41   | 61    | 67   | 4    |
| 135° | 3    | 12    | 28   | 41    | 46   | 2    |
| 145° | 3    | 9     | 18   | 28    | 32   | 2    |
| 155° | 3    | 8     | 12   | 17    | 21   | 2    |
| 165° | 5    | 6     | 9    | 11    | 14   | 1    |
| 175° | 5    | 5     | 6    | 6     | 6    | 0    |
| 180° | 5    | 5     | 5    | 5     | 5    |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5235.5 | 5235.5 | 5235.5 | 5235.5 | 5235.5 |
| 2.5°   | 5266.0 | 5252.3 | 5192.7 | 5240.1 | 5226.3 |
| 5°     | 5258.4 | 5241.6 | 5179.0 | 5221.7 | 5204.9 |
| 7.5°   | 5241.6 | 5223.3 | 5151.5 | 5185.1 | 5166.8 |
| 10°    | 5217.2 | 5194.2 | 5111.8 | 5128.6 | 5099.6 |
| 12.5°  | 5186.6 | 5157.6 | 5055.3 | 5050.7 | 5018.6 |
| 15°    | 5142.3 | 5107.2 | 4985.0 | 4948.4 | 4904.1 |
| 17.5°  | 5096.5 | 5044.6 | 4894.9 | 4820.1 | 4759.0 |
| 20°    | 5036.9 | 4968.2 | 4771.2 | 4659.7 | 4583.3 |
| 22.5°  | 4968.2 | 4875.0 | 4632.2 | 4461.2 | 4381.7 |
| 25°    | 4882.7 | 4766.6 | 4455.0 | 4230.5 | 4125.2 |
| 27.5°  | 4791.0 | 4636.8 | 4262.6 | 3967.8 | 3847.2 |
| 30°    | 4681.1 | 4490.2 | 4022.8 | 3668.5 | 3538.7 |
| 32.5°  | 4565.0 | 4303.8 | 3760.1 | 3353.9 | 3211.8 |
| 35°    | 4419.9 | 4099.2 | 3448.6 | 3024.0 | 2891.1 |
| 37.5°  | 4262.6 | 3854.8 | 3140.1 | 2686.5 | 2536.8 |
| 40°    | 4071.7 | 3596.7 | 2801.0 | 2352.0 | 2203.8 |
| 42.5°  | 3882.3 | 3315.7 | 2475.7 | 2049.6 | 1921.3 |
| 45°    | 3625.7 | 3013.3 | 2153.4 | 1742.6 | 1640.3 |
| 47.5°  | 3367.6 | 2689.5 | 1844.9 | 1493.7 | 1392.9 |
| 50°    | 3080.5 | 2371.8 | 1574.6 | 1253.9 | 1169.9 |
| 52.5°  | 2801.0 | 2075.6 | 1328.7 | 1059.9 | 988.1  |
| 55°    | 2472.6 | 1783.8 | 1122.5 | 887.3  | 841.5  |
| 57.5°  | 2176.4 | 1513.5 | 946.9  | 751.4  | 708.7  |
| 60°    | 1863.3 | 1282.9 | 792.7  | 635.3  | 595.6  |
| 62.5°  | 1588.4 | 1078.3 | 667.4  | 539.1  | 511.6  |
| 65°    | 1324.1 | 898.0  | 565.1  | 458.2  | 433.7  |
| 67.5°  | 1081.3 | 749.9  | 476.5  | 391.0  | 371.1  |
| 70°    | 867.5  | 607.9  | 401.7  | 332.9  | 319.2  |
| 72.5°  | 682.7  | 488.7  | 334.5  | 287.1  | 274.9  |
| 75°    | 533.0  | 387.9  | 279.5  | 247.4  | 239.8  |
| 77.5°  | 384.9  | 302.4  | 233.7  | 212.3  | 207.7  |
| 80°    | 271.9  | 229.1  | 192.4  | 183.3  | 180.2  |
| 82.5°  | 180.2  | 166.5  | 158.8  | 158.8  | 157.3  |
| 85°    | 103.9  | 116.1  | 129.8  | 135.9  | 137.5  |
| 87.5°  | 53.5   | 77.9   | 103.9  | 116.1  | 117.6  |
| 90°    | 15.3   | 48.9   | 88.6   | 105.4  | 108.4  |
| 92.5°  | 22.9   | 48.9   | 87.1   | 105.4  | 108.4  |
| 95°    | 22.9   | 48.9   | 87.1   | 105.4  | 108.4  |
| 97.5°  | 21.4   | 47.3   | 87.1   | 105.4  | 108.4  |
| 100°   | 19.9   | 44.3   | 85.5   | 105.4  | 108.4  |
| 102.5° | 16.8   | 42.8   | 82.5   | 103.9  | 108.4  |
| 105°   | 15.3   | 39.7   | 77.9   | 102.3  | 106.9  |
| 107.5° | 13.7   | 33.6   | 73.3   | 97.7   | 103.9  |
| 110°   | 10.7   | 29.0   | 70.3   | 93.2   | 100.8  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 9.2 | 26.0  | 65.7 | 88.6  | 96.2 |
| 115°   | 7.6 | 22.9  | 61.1 | 84.0  | 91.6 |
| 117.5° | 6.1 | 21.4  | 55.0 | 77.9  | 85.5 |
| 120°   | 4.6 | 19.9  | 50.4 | 73.3  | 79.4 |
| 122.5° | 4.6 | 18.3  | 44.3 | 67.2  | 73.3 |
| 125°   | 4.6 | 15.3  | 41.2 | 61.1  | 67.2 |
| 127.5° | 3.1 | 13.7  | 36.7 | 55.0  | 61.1 |
| 130°   | 3.1 | 13.7  | 33.6 | 50.4  | 55.0 |
| 132.5° | 3.1 | 12.2  | 30.5 | 45.8  | 50.4 |
| 135°   | 3.1 | 12.2  | 27.5 | 41.2  | 45.8 |
| 137.5° | 3.1 | 10.7  | 24.4 | 38.2  | 42.8 |
| 140°   | 3.1 | 10.7  | 22.9 | 33.6  | 38.2 |
| 142.5° | 3.1 | 9.2   | 19.9 | 32.1  | 35.1 |
| 145°   | 3.1 | 9.2   | 18.3 | 27.5  | 32.1 |
| 147.5° | 3.1 | 9.2   | 16.8 | 26.0  | 29.0 |
| 150°   | 3.1 | 7.6   | 15.3 | 21.4  | 26.0 |
| 152.5° | 3.1 | 7.6   | 13.7 | 19.9  | 24.4 |
| 155°   | 3.1 | 7.6   | 12.2 | 16.8  | 21.4 |
| 157.5° | 3.1 | 7.6   | 12.2 | 15.3  | 18.3 |
| 160°   | 4.6 | 6.1   | 10.7 | 13.7  | 16.8 |
| 162.5° | 4.6 | 6.1   | 9.2  | 12.2  | 15.3 |
| 165°   | 4.6 | 6.1   | 9.2  | 10.7  | 13.7 |
| 167.5° | 4.6 | 6.1   | 7.6  | 9.2   | 10.7 |
| 170°   | 4.6 | 4.6   | 7.6  | 7.6   | 7.6  |
| 172.5° | 4.6 | 4.6   | 6.1  | 7.6   | 6.1  |
| 175°   | 4.6 | 4.6   | 6.1  | 6.1   | 6.1  |
| 177.5° | 4.6 | 4.6   | 6.1  | 6.1   | 6.1  |
| 180°   | 4.6 | 4.6   | 4.6  | 4.6   | 4.6  |

(END OF REPORT)