

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: P893088

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-RFLW-UNV-CC83-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

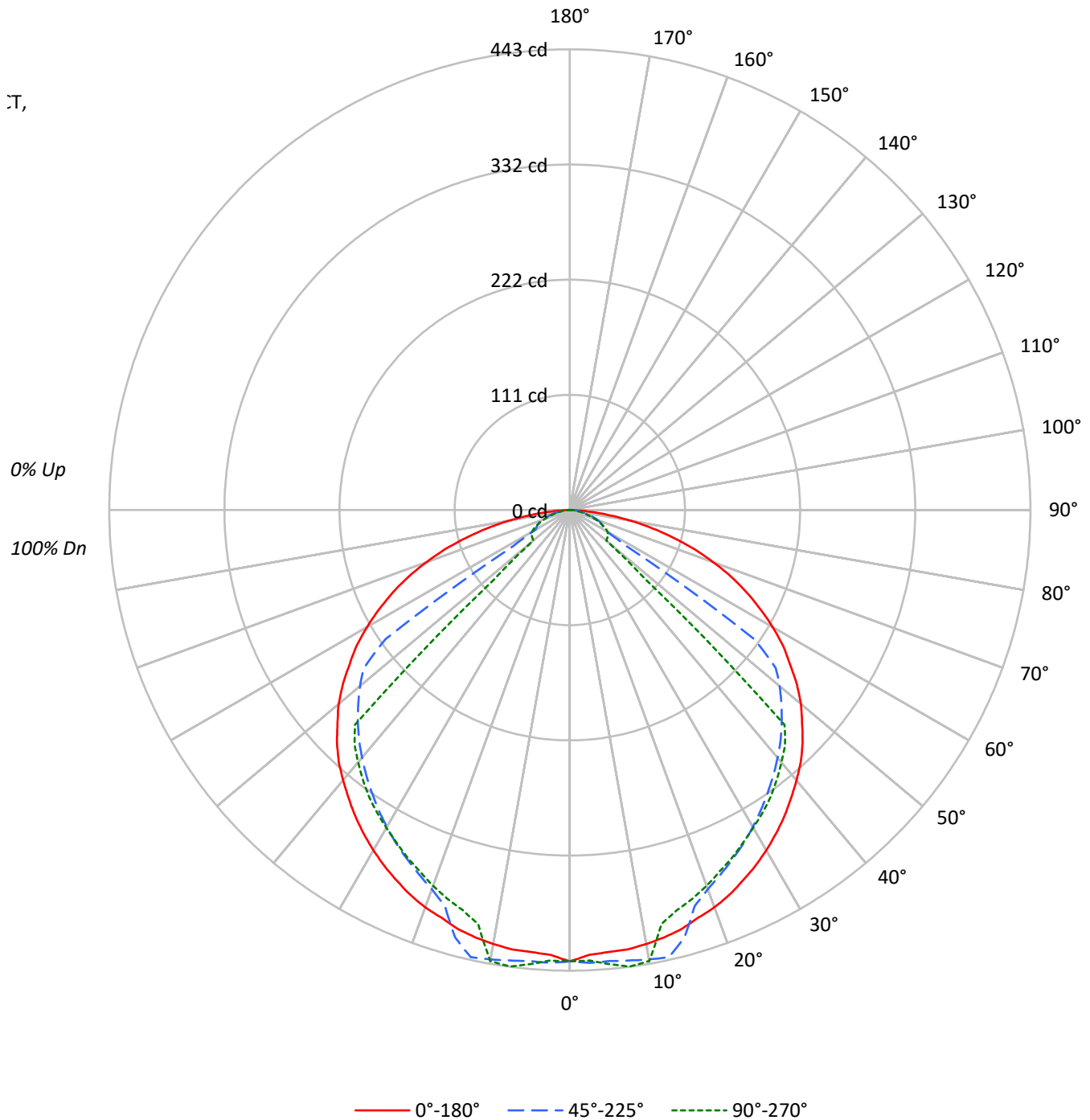
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1019.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
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 | 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 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 80 | 77 | 77 | 77 | 77 | 75 |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 67 | 67 | 67 | 67 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 60 | 71 | 65 | 60 | 69 | 63 | 59 | 67 | 62 | 58 | 58 | 58 | 58 | 56 |
| 5 | 80 | 68 | 59 | 53 | 77 | 67 | 59 | 53 | 64 | 58 | 52 | 63 | 57 | 52 | 61 | 55 | 51 | 51 | 51 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 46 | 46 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 41 | 41 | 41 | 39 |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 37 | 37 | 37 | 35 |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 33 | 33 | 33 | 32 |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 30 | 30 | 30 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11331 | 11331 | 11331 |
| 5° | 11180 | 11411 | 11489 |
| 10° | 11233 | 11633 | 11673 |
| 15° | 11268 | 11506 | 10766 |
| 20° | 11297 | 10780 | 10686 |
| 25° | 11333 | 10670 | 10630 |
| 30° | 11389 | 10609 | 10636 |
| 35° | 11464 | 10575 | 10731 |
| 40° | 11560 | 10593 | 10794 |
| 45° | 11693 | 10645 | 10789 |
| 50° | 11791 | 10698 | 1864 |
| 55° | 11766 | 9855 | 2026 |
| 60° | 11764 | 1989 | 2193 |
| 65° | 11620 | 2113 | 2175 |
| 70° | 11229 | 2198 | 2015 |
| 75° | 10450 | 2068 | 1775 |
| 80° | 8961 | 1834 | 1549 |
| 85° | 5991 | 1767 | 1318 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 11827 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.6 | 4.1 |
| 10°-20° | 117.3 | 11.5 |
| 20°-30° | 175.5 | 17.2 |
| 30°-40° | 211.6 | 20.8 |
| 40°-50° | 213.0 | 20.9 |
| 50°-60° | 132.9 | 13.0 |
| 60°-70° | 83.6 | 8.2 |
| 70°-80° | 34.7 | 3.4 |
| 80°-90° | 8.9 | 0.9 |
| 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° | 334.3 | 32.8 |
| 0°-40° | 545.9 | 53.6 |
| 0°-60° | 891.8 | 87.5 |
| 0°-90° | 1019.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1019.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 434 | 434 | 434 | 434 | 434 | |
| 5° | 427 | 435 | 435 | 436 | 438 | 41 |
| 15° | 417 | 430 | 426 | 398 | 398 | 118 |
| 25° | 393 | 408 | 370 | 368 | 369 | 182 |
| 35° | 360 | 337 | 332 | 334 | 337 | 225 |
| 45° | 317 | 286 | 288 | 292 | 292 | 244 |
| 55° | 258 | 228 | 216 | 42 | 44 | 232 |
| 65° | 188 | 163 | 34 | 36 | 35 | 185 |
| 75° | 104 | 25 | 20 | 18 | 18 | 109 |
| 85° | 20 | 7 | 6 | 4 | 4 | 26 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P893088

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 434.0 | 434.0 | 434.0 | 434.0 | 434.0 |
| 2.5° | 428.1 | 435.9 | 435.9 | 434.0 | 433.5 |
| 5° | 426.6 | 435.4 | 435.4 | 435.9 | 438.4 |
| 7.5° | 426.1 | 434.4 | 436.9 | 439.8 | 442.8 |
| 10° | 423.7 | 433.5 | 438.8 | 442.8 | 440.3 |
| 12.5° | 420.8 | 431.5 | 440.3 | 415.4 | 407.6 |
| 15° | 416.9 | 429.6 | 425.7 | 398.3 | 398.3 |
| 17.5° | 411.0 | 426.6 | 399.3 | 391.4 | 391.9 |
| 20° | 406.6 | 424.2 | 388.0 | 383.6 | 384.6 |
| 22.5° | 400.7 | 419.3 | 379.2 | 375.3 | 376.3 |
| 25° | 393.4 | 408.5 | 370.4 | 367.5 | 369.0 |
| 27.5° | 386.1 | 386.6 | 361.6 | 359.7 | 360.7 |
| 30° | 377.8 | 365.5 | 351.9 | 351.4 | 352.8 |
| 32.5° | 369.0 | 349.9 | 342.1 | 343.1 | 345.0 |
| 35° | 359.7 | 336.7 | 331.8 | 333.8 | 336.7 |
| 37.5° | 349.4 | 324.5 | 321.6 | 325.0 | 326.9 |
| 40° | 339.2 | 311.8 | 310.8 | 314.2 | 316.7 |
| 42.5° | 328.9 | 299.6 | 300.1 | 303.5 | 306.4 |
| 45° | 316.7 | 286.4 | 288.3 | 292.2 | 292.2 |
| 47.5° | 303.0 | 272.2 | 276.1 | 267.8 | 99.2 |
| 50° | 290.3 | 258.0 | 263.4 | 79.2 | 45.9 |
| 52.5° | 275.1 | 242.9 | 249.7 | 43.5 | 45.0 |
| 55° | 258.5 | 227.7 | 216.5 | 42.5 | 44.5 |
| 57.5° | 243.4 | 212.1 | 64.5 | 42.0 | 43.5 |
| 60° | 225.3 | 196.5 | 38.1 | 41.1 | 42.0 |
| 62.5° | 206.7 | 179.8 | 36.2 | 39.1 | 39.1 |
| 65° | 188.1 | 162.7 | 34.2 | 35.7 | 35.2 |
| 67.5° | 168.1 | 145.1 | 32.3 | 31.3 | 30.8 |
| 70° | 147.1 | 89.4 | 28.8 | 26.9 | 26.4 |
| 72.5° | 126.1 | 30.8 | 24.9 | 22.5 | 22.0 |
| 75° | 103.6 | 24.9 | 20.5 | 18.1 | 17.6 |
| 77.5° | 81.6 | 20.5 | 16.1 | 14.2 | 13.7 |
| 80° | 59.6 | 15.6 | 12.2 | 10.8 | 10.3 |
| 82.5° | 38.6 | 11.2 | 9.3 | 7.3 | 6.8 |
| 85° | 20.0 | 7.3 | 5.9 | 4.4 | 4.4 |
| 87.5° | 7.8 | 4.4 | 2.9 | 2.0 | 1.5 |
| 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 | 21.43 | 22.94 | 21.79 | 23.25 | 23.57 | 10.06 | 11.58 | 10.43 | 11.89 | 12.20 |
| | 3H | 23.35 | 24.70 | 23.72 | 25.03 | 25.39 | 12.20 | 13.55 | 12.57 | 13.88 | 14.24 |
| | 4H | 23.83 | 25.10 | 24.23 | 25.45 | 25.82 | 12.88 | 14.15 | 13.28 | 14.50 | 14.88 |
| | 6H | 24.27 | 25.43 | 24.68 | 25.80 | 26.19 | 13.35 | 14.51 | 13.76 | 14.88 | 15.27 |
| | 8H | 24.41 | 25.52 | 24.83 | 25.91 | 26.31 | 13.48 | 14.59 | 13.91 | 14.98 | 15.38 |
| | 12H | 24.48 | 25.54 | 24.91 | 25.93 | 26.36 | 13.57 | 14.63 | 14.00 | 15.01 | 15.44 |
| 4H | 2H | 21.27 | 22.54 | 21.67 | 22.89 | 23.27 | 10.81 | 12.08 | 11.21 | 12.43 | 12.81 |
| | 3H | 23.30 | 24.34 | 23.71 | 24.74 | 25.15 | 13.16 | 14.20 | 13.57 | 14.60 | 15.00 |
| | 4H | 23.79 | 24.72 | 24.22 | 25.14 | 25.58 | 13.95 | 14.89 | 14.39 | 15.31 | 15.75 |
| | 6H | 24.30 | 25.11 | 24.76 | 25.56 | 26.02 | 14.53 | 15.34 | 14.99 | 15.78 | 16.24 |
| | 8H | 24.49 | 25.24 | 24.95 | 25.69 | 26.16 | 14.70 | 15.46 | 15.16 | 15.90 | 16.37 |
| | 12H | 24.61 | 25.29 | 25.09 | 25.77 | 26.24 | 14.82 | 15.49 | 15.30 | 15.97 | 16.45 |
| 8H | 4H | 23.71 | 24.47 | 24.18 | 24.92 | 25.38 | 14.54 | 15.30 | 15.00 | 15.74 | 16.21 |
| | 6H | 24.22 | 24.85 | 24.72 | 25.34 | 25.82 | 15.20 | 15.82 | 15.69 | 16.31 | 16.79 |
| | 8H | 24.42 | 24.98 | 24.94 | 25.49 | 25.98 | 15.42 | 15.98 | 15.93 | 16.49 | 16.98 |
| | 12H | 24.58 | 25.08 | 25.09 | 25.57 | 26.14 | 15.59 | 16.09 | 16.10 | 16.58 | 17.15 |
| 12H | 4H | 23.68 | 24.36 | 24.16 | 24.84 | 25.31 | 14.62 | 15.30 | 15.10 | 15.78 | 16.25 |
| | 6H | 24.18 | 24.74 | 24.69 | 25.25 | 25.74 | 15.31 | 15.87 | 15.82 | 16.38 | 16.87 |
| | 8H | 24.40 | 24.90 | 24.91 | 25.39 | 25.96 | 15.59 | 16.09 | 16.10 | 16.58 | 17.14 |