

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: P893036

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

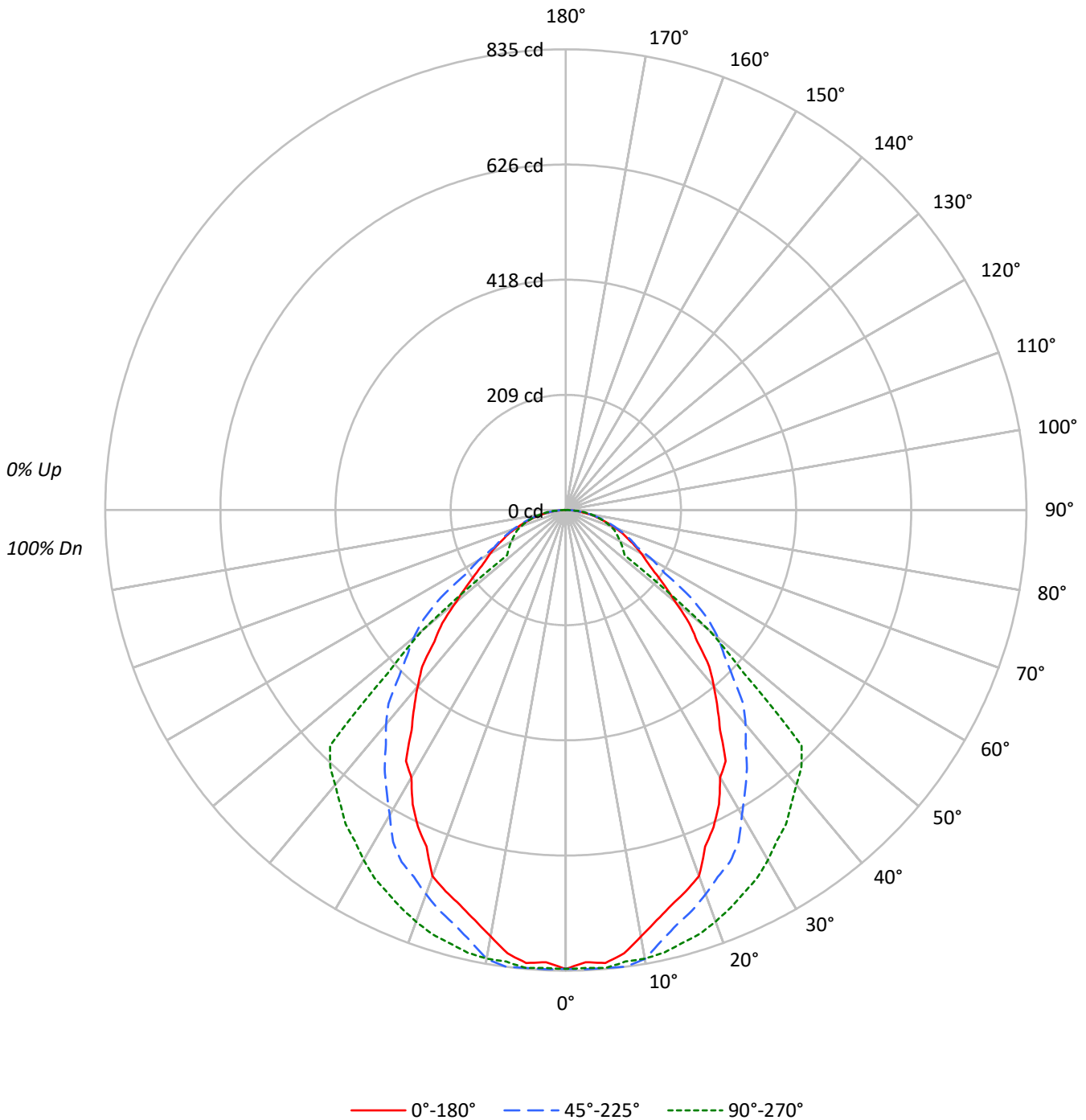
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1735.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893036
CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P893036

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-4000K

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 | 100 | 97 | 100 | 97 | 94 | 96 | 94 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 77 | 77 | 77 | 75 |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 67 | 67 | 67 | 65 |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 59 | 59 | 59 | 57 |
| 5 | 80 | 69 | 60 | 54 | 78 | 68 | 60 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 53 | 53 | 53 | 51 |
| 6 | 75 | 62 | 54 | 48 | 73 | 62 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 47 | 47 | 47 | 45 |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 42 | 42 | 42 | 40 |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 38 | 38 | 38 | 37 |
| 9 | 61 | 48 | 41 | 35 | 60 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 35 | 35 | 35 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 42 | 36 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11896 | 11896 | 11896 |
| 5° | 11834 | 11963 | 11963 |
| 10° | 11400 | 12003 | 11993 |
| 15° | 10974 | 11522 | 12036 |
| 20° | 10751 | 11281 | 12084 |
| 25° | 10003 | 11112 | 12077 |
| 30° | 9245 | 10542 | 12103 |
| 35° | 8508 | 9998 | 12148 |
| 40° | 7800 | 9464 | 12144 |
| 45° | 6816 | 8649 | 12226 |
| 50° | 5766 | 8019 | 7565 |
| 55° | 4898 | 6894 | 3165 |
| 60° | 4538 | 5230 | 3265 |
| 65° | 4218 | 4448 | 3426 |
| 70° | 3982 | 4204 | 3601 |
| 75° | 3676 | 3969 | 3714 |
| 80° | 3361 | 3674 | 3921 |
| 85° | 2971 | 3348 | 4218 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12226 cd/sqm



TEST NUMBER: P893036

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.8 | 4.5 |
| 10°-20° | 220.8 | 12.7 |
| 20°-30° | 320.9 | 18.5 |
| 30°-40° | 363.3 | 20.9 |
| 40°-50° | 339.4 | 19.6 |
| 50°-60° | 192.8 | 11.1 |
| 60°-70° | 121.2 | 7.0 |
| 70°-80° | 74.4 | 4.3 |
| 80°-90° | 23.4 | 1.3 |
| 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° | 620.5 | 35.8 |
| 0°-40° | 983.9 | 56.7 |
| 0°-60° | 1516.1 | 87.4 |
| 0°-90° | 1735.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1735.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 832 | 832 | 832 | 832 | 832 | |
| 5° | 824 | 832 | 833 | 830 | 833 | 77 |
| 15° | 741 | 754 | 778 | 820 | 813 | 210 |
| 25° | 634 | 646 | 704 | 736 | 765 | 291 |
| 35° | 487 | 520 | 572 | 647 | 696 | 307 |
| 45° | 337 | 372 | 428 | 543 | 604 | 262 |
| 55° | 196 | 214 | 276 | 145 | 127 | 180 |
| 65° | 125 | 129 | 131 | 114 | 101 | 125 |
| 75° | 66 | 69 | 72 | 73 | 67 | 71 |
| 85° | 18 | 19 | 20 | 23 | 26 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P893036

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 831.6 | 831.6 | 831.6 | 831.6 | 831.6 |
| 2.5° | 820.3 | 829.3 | 833.1 | 832.4 | 830.9 |
| 5° | 824.1 | 832.4 | 833.1 | 830.1 | 833.1 |
| 7.5° | 810.5 | 830.1 | 834.6 | 827.1 | 825.6 |
| 10° | 784.8 | 796.1 | 826.3 | 829.3 | 825.6 |
| 12.5° | 761.4 | 775.0 | 799.9 | 829.3 | 821.8 |
| 15° | 741.0 | 753.8 | 778.0 | 820.3 | 812.7 |
| 17.5° | 724.4 | 728.9 | 761.4 | 810.5 | 805.9 |
| 20° | 706.2 | 715.3 | 741.0 | 786.3 | 793.8 |
| 22.5° | 660.1 | 685.1 | 719.8 | 765.1 | 780.2 |
| 25° | 633.7 | 645.8 | 704.0 | 735.7 | 765.1 |
| 27.5° | 601.2 | 623.1 | 678.3 | 713.0 | 751.5 |
| 30° | 559.7 | 584.6 | 638.2 | 689.6 | 732.7 |
| 32.5° | 539.3 | 548.4 | 604.3 | 670.7 | 711.5 |
| 35° | 487.2 | 519.7 | 572.5 | 647.3 | 695.6 |
| 37.5° | 451.7 | 471.3 | 535.5 | 624.6 | 671.5 |
| 40° | 417.7 | 440.4 | 506.8 | 599.7 | 650.3 |
| 42.5° | 385.2 | 405.6 | 475.9 | 574.8 | 632.2 |
| 45° | 336.9 | 371.6 | 427.5 | 543.1 | 604.3 |
| 47.5° | 303.6 | 325.5 | 389.7 | 504.6 | 438.1 |
| 50° | 259.1 | 285.5 | 360.3 | 345.9 | 339.9 |
| 52.5° | 226.6 | 240.9 | 324.8 | 292.3 | 134.4 |
| 55° | 196.4 | 214.5 | 276.4 | 145.0 | 126.9 |
| 57.5° | 173.7 | 185.8 | 212.2 | 134.4 | 120.9 |
| 60° | 158.6 | 161.6 | 182.8 | 128.4 | 114.1 |
| 62.5° | 142.0 | 145.0 | 145.8 | 121.6 | 107.3 |
| 65° | 124.6 | 129.2 | 131.4 | 114.1 | 101.2 |
| 67.5° | 111.8 | 112.5 | 115.6 | 105.7 | 95.2 |
| 70° | 95.2 | 96.7 | 100.5 | 96.7 | 86.1 |
| 72.5° | 80.8 | 83.1 | 85.4 | 86.1 | 77.0 |
| 75° | 66.5 | 68.7 | 71.8 | 73.3 | 67.2 |
| 77.5° | 54.4 | 55.1 | 58.2 | 61.9 | 57.4 |
| 80° | 40.8 | 43.1 | 44.6 | 48.3 | 47.6 |
| 82.5° | 29.5 | 30.2 | 32.5 | 35.5 | 37.0 |
| 85° | 18.1 | 18.9 | 20.4 | 22.7 | 25.7 |
| 87.5° | 7.6 | 8.3 | 9.1 | 10.6 | 12.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P893036
 CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-4000K

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 | 16.32 | 17.80 | 16.69 | 18.11 | 18.43 | 14.07 | 15.54 | 14.43 | 15.86 | 16.17 |
| | 3H | 17.91 | 19.23 | 18.29 | 19.56 | 19.92 | 16.40 | 17.72 | 16.78 | 18.05 | 18.41 |
| | 4H | 18.51 | 19.75 | 18.91 | 20.10 | 20.48 | 17.35 | 18.58 | 17.75 | 18.93 | 19.31 |
| | 6H | 18.97 | 20.12 | 19.38 | 20.48 | 20.88 | 18.14 | 19.28 | 18.55 | 19.65 | 20.04 |
| | 8H | 19.12 | 20.21 | 19.55 | 20.60 | 21.00 | 18.44 | 19.53 | 18.87 | 19.92 | 20.32 |
| | 12H | 19.22 | 20.27 | 19.65 | 20.65 | 21.08 | 18.69 | 19.73 | 19.12 | 20.11 | 20.54 |
| 4H | 2H | 16.89 | 18.13 | 17.29 | 18.48 | 18.86 | 15.22 | 16.46 | 15.62 | 16.81 | 17.19 |
| | 3H | 18.71 | 19.74 | 19.12 | 20.14 | 20.54 | 17.66 | 18.69 | 18.07 | 19.09 | 19.49 |
| | 4H | 19.45 | 20.37 | 19.88 | 20.79 | 21.22 | 18.71 | 19.63 | 19.14 | 20.05 | 20.49 |
| | 6H | 20.04 | 20.84 | 20.50 | 21.28 | 21.74 | 19.61 | 20.41 | 20.06 | 20.85 | 21.31 |
| | 8H | 20.24 | 20.99 | 20.70 | 21.43 | 21.90 | 19.95 | 20.70 | 20.41 | 21.15 | 21.61 |
| | 12H | 20.38 | 21.05 | 20.86 | 21.53 | 22.00 | 20.24 | 20.91 | 20.72 | 21.39 | 21.86 |
| 8H | 4H | 19.75 | 20.50 | 20.22 | 20.95 | 21.42 | 19.11 | 19.86 | 19.58 | 20.31 | 20.78 |
| | 6H | 20.47 | 21.10 | 20.97 | 21.59 | 22.07 | 20.16 | 20.78 | 20.65 | 21.27 | 21.75 |
| | 8H | 20.75 | 21.31 | 21.26 | 21.82 | 22.31 | 20.59 | 21.15 | 21.11 | 21.66 | 22.15 |
| | 12H | 20.97 | 21.46 | 21.48 | 21.96 | 22.52 | 20.98 | 21.48 | 21.49 | 21.97 | 22.53 |
| 12H | 4H | 19.79 | 20.46 | 20.27 | 20.94 | 21.41 | 19.15 | 19.82 | 19.63 | 20.30 | 20.77 |
| | 6H | 20.54 | 21.10 | 21.05 | 21.61 | 22.10 | 20.22 | 20.78 | 20.74 | 21.30 | 21.78 |
| | 8H | 20.87 | 21.37 | 21.38 | 21.86 | 22.43 | 20.73 | 21.23 | 21.24 | 21.72 | 22.28 |