

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: P893067

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

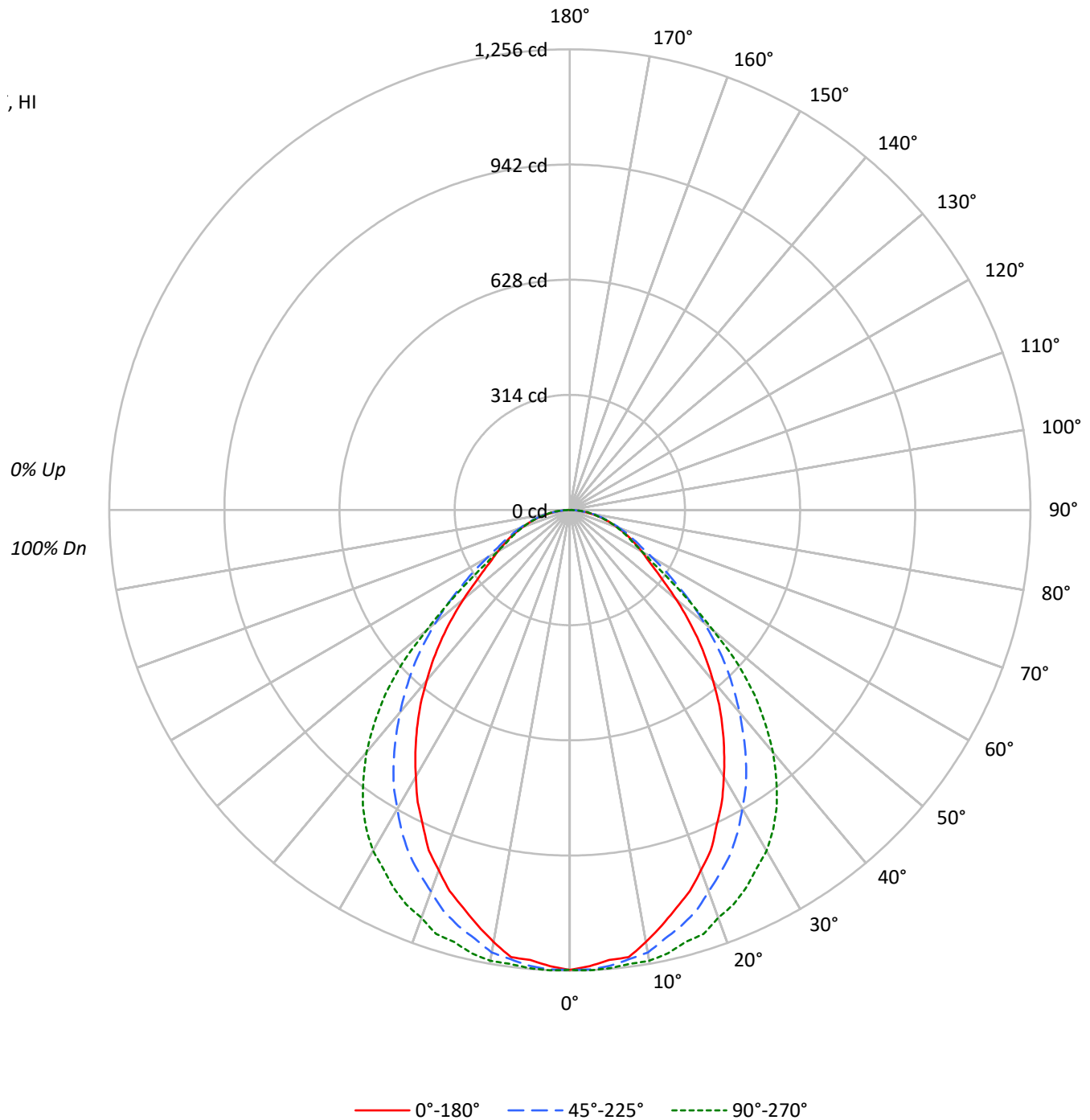
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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 | | | | 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 | 61 | 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 | 54 | 47 | 43 | 52 | 47 | 42 | 42 | 42 | 42 | 41 |
| 8 | 65 | 53 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 38 | 38 | 38 | 37 |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 35 | 35 | 35 | 33 |
| 10 | 57 | 45 | 38 | 33 | 56 | 45 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 32 | 32 | 32 | 31 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17935 | 17935 | 17935 |
| 5° | 17687 | 17920 | 18003 |
| 10° | 17370 | 17792 | 18127 |
| 15° | 16629 | 17384 | 18054 |
| 20° | 15912 | 16846 | 18011 |
| 25° | 14960 | 16351 | 17942 |
| 30° | 13877 | 15542 | 17724 |
| 35° | 12687 | 14631 | 17181 |
| 40° | 11339 | 13438 | 16099 |
| 45° | 9940 | 12189 | 14394 |
| 50° | 8406 | 10625 | 11321 |
| 55° | 7108 | 8929 | 8295 |
| 60° | 6498 | 7459 | 6532 |
| 65° | 6157 | 6550 | 5924 |
| 70° | 5768 | 6056 | 5672 |
| 75° | 5378 | 5699 | 5444 |
| 80° | 4968 | 5347 | 5248 |
| 85° | 4382 | 4760 | 5712 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14394 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.3 | 4.7 |
| 10°-20° | 331.0 | 13.0 |
| 20°-30° | 477.1 | 18.8 |
| 30°-40° | 526.2 | 20.7 |
| 40°-50° | 460.6 | 18.1 |
| 50°-60° | 302.7 | 11.9 |
| 60°-70° | 185.0 | 7.3 |
| 70°-80° | 107.0 | 4.2 |
| 80°-90° | 33.2 | 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° | 926.3 | 36.5 |
| 0°-40° | 1452.5 | 57.2 |
| 0°-60° | 2215.8 | 87.2 |
| 0°-90° | 2541.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2541.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1254 | 1254 | 1254 | 1254 | 1254 | |
| 5° | 1232 | 1244 | 1248 | 1255 | 1254 | 117 |
| 15° | 1123 | 1141 | 1174 | 1212 | 1219 | 316 |
| 25° | 948 | 980 | 1036 | 1098 | 1137 | 436 |
| 35° | 726 | 758 | 838 | 930 | 984 | 453 |
| 45° | 491 | 521 | 602 | 677 | 712 | 378 |
| 55° | 285 | 300 | 358 | 359 | 333 | 260 |
| 65° | 182 | 182 | 194 | 185 | 175 | 180 |
| 75° | 97 | 97 | 103 | 105 | 98 | 103 |
| 85° | 27 | 27 | 29 | 31 | 35 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P893067

CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC83-HI-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1253.7 | 1253.7 | 1253.7 | 1253.7 | 1253.7 |
| 2.5° | 1244.5 | 1251.4 | 1253.7 | 1258.4 | 1256.1 |
| 5° | 1231.7 | 1244.5 | 1247.9 | 1254.9 | 1253.7 |
| 7.5° | 1229.4 | 1224.8 | 1235.2 | 1249.1 | 1247.9 |
| 10° | 1195.8 | 1205.1 | 1224.8 | 1245.6 | 1247.9 |
| 12.5° | 1159.9 | 1174.9 | 1197.0 | 1232.9 | 1237.5 |
| 15° | 1122.8 | 1141.3 | 1173.8 | 1212.0 | 1219.0 |
| 17.5° | 1089.2 | 1107.7 | 1146.0 | 1188.8 | 1212.0 |
| 20° | 1045.2 | 1070.7 | 1106.6 | 1159.9 | 1183.1 |
| 22.5° | 1004.6 | 1025.5 | 1071.8 | 1129.8 | 1164.5 |
| 25° | 947.8 | 980.3 | 1035.9 | 1098.5 | 1136.7 |
| 27.5° | 898.0 | 928.1 | 990.7 | 1060.2 | 1101.9 |
| 30° | 840.1 | 873.7 | 940.9 | 1018.5 | 1073.0 |
| 32.5° | 783.3 | 814.6 | 893.4 | 973.3 | 1032.4 |
| 35° | 726.5 | 757.8 | 837.8 | 930.5 | 983.8 |
| 37.5° | 668.6 | 701.0 | 778.7 | 873.7 | 924.7 |
| 40° | 607.2 | 644.2 | 719.6 | 813.4 | 862.1 |
| 42.5° | 549.2 | 584.0 | 660.5 | 752.0 | 789.1 |
| 45° | 491.3 | 521.4 | 602.5 | 676.7 | 711.5 |
| 47.5° | 433.4 | 462.3 | 540.0 | 601.4 | 621.1 |
| 50° | 377.7 | 404.4 | 477.4 | 515.6 | 508.7 |
| 52.5° | 325.6 | 349.9 | 419.5 | 434.5 | 414.8 |
| 55° | 285.0 | 300.1 | 358.0 | 359.2 | 332.6 |
| 57.5° | 251.4 | 263.0 | 308.2 | 296.6 | 267.7 |
| 60° | 227.1 | 230.6 | 260.7 | 248.0 | 228.3 |
| 62.5° | 202.8 | 205.1 | 221.3 | 212.0 | 197.0 |
| 65° | 181.9 | 181.9 | 193.5 | 185.4 | 175.0 |
| 67.5° | 158.7 | 159.9 | 168.0 | 163.4 | 155.3 |
| 70° | 137.9 | 137.9 | 144.8 | 144.8 | 135.6 |
| 72.5° | 117.0 | 117.0 | 122.8 | 124.0 | 118.2 |
| 75° | 97.3 | 97.3 | 103.1 | 105.4 | 98.5 |
| 77.5° | 78.8 | 78.8 | 83.4 | 86.9 | 78.8 |
| 80° | 60.3 | 60.3 | 64.9 | 68.4 | 63.7 |
| 82.5° | 42.9 | 44.0 | 46.3 | 49.8 | 49.8 |
| 85° | 26.7 | 26.7 | 29.0 | 31.3 | 34.8 |
| 87.5° | 11.6 | 12.7 | 13.9 | 15.1 | 17.4 |
| 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 | 17.44 | 18.92 | 17.81 | 19.23 | 19.55 | 18.19 | 19.66 | 18.55 | 19.98 | 20.29 |
| | 3H | 19.04 | 20.36 | 19.42 | 20.69 | 21.05 | 19.53 | 20.85 | 19.91 | 21.18 | 21.54 |
| | 4H | 19.66 | 20.89 | 20.06 | 21.24 | 21.62 | 20.10 | 21.34 | 20.50 | 21.69 | 22.07 |
| | 6H | 20.13 | 21.28 | 20.55 | 21.64 | 22.04 | 20.56 | 21.70 | 20.97 | 22.07 | 22.46 |
| | 8H | 20.29 | 21.38 | 20.72 | 21.77 | 22.17 | 20.74 | 21.83 | 21.17 | 22.21 | 22.62 |
| | 12H | 20.40 | 21.44 | 20.83 | 21.82 | 22.25 | 20.89 | 21.93 | 21.32 | 22.31 | 22.74 |
| 4H | 2H | 18.07 | 19.30 | 18.47 | 19.65 | 20.03 | 18.67 | 19.90 | 19.07 | 20.25 | 20.63 |
| | 3H | 19.88 | 20.90 | 20.29 | 21.30 | 21.70 | 20.27 | 21.30 | 20.68 | 21.70 | 22.10 |
| | 4H | 20.61 | 21.53 | 21.04 | 21.95 | 22.39 | 21.00 | 21.92 | 21.43 | 22.34 | 22.78 |
| | 6H | 21.21 | 22.01 | 21.67 | 22.45 | 22.92 | 21.61 | 22.41 | 22.07 | 22.86 | 23.32 |
| | 8H | 21.41 | 22.16 | 21.88 | 22.61 | 23.08 | 21.85 | 22.60 | 22.31 | 23.04 | 23.51 |
| | 12H | 21.56 | 22.23 | 22.05 | 22.71 | 23.18 | 22.05 | 22.72 | 22.53 | 23.20 | 23.67 |
| 8H | 4H | 20.92 | 21.67 | 21.39 | 22.12 | 22.58 | 21.27 | 22.02 | 21.73 | 22.46 | 22.93 |
| | 6H | 21.65 | 22.27 | 22.15 | 22.76 | 23.24 | 22.02 | 22.64 | 22.52 | 23.13 | 23.61 |
| | 8H | 21.93 | 22.49 | 22.44 | 23.00 | 23.49 | 22.35 | 22.91 | 22.86 | 23.42 | 23.91 |
| | 12H | 22.15 | 22.65 | 22.66 | 23.14 | 23.71 | 22.64 | 23.14 | 23.15 | 23.63 | 24.20 |
| 12H | 4H | 20.96 | 21.62 | 21.44 | 22.10 | 22.58 | 21.29 | 21.96 | 21.77 | 22.43 | 22.91 |
| | 6H | 21.71 | 22.27 | 22.23 | 22.78 | 23.27 | 22.07 | 22.63 | 22.58 | 23.14 | 23.63 |
| | 8H | 22.05 | 22.55 | 22.56 | 23.04 | 23.61 | 22.46 | 22.95 | 22.97 | 23.44 | 24.01 |