

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: P895790

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-MID-5000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC93-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

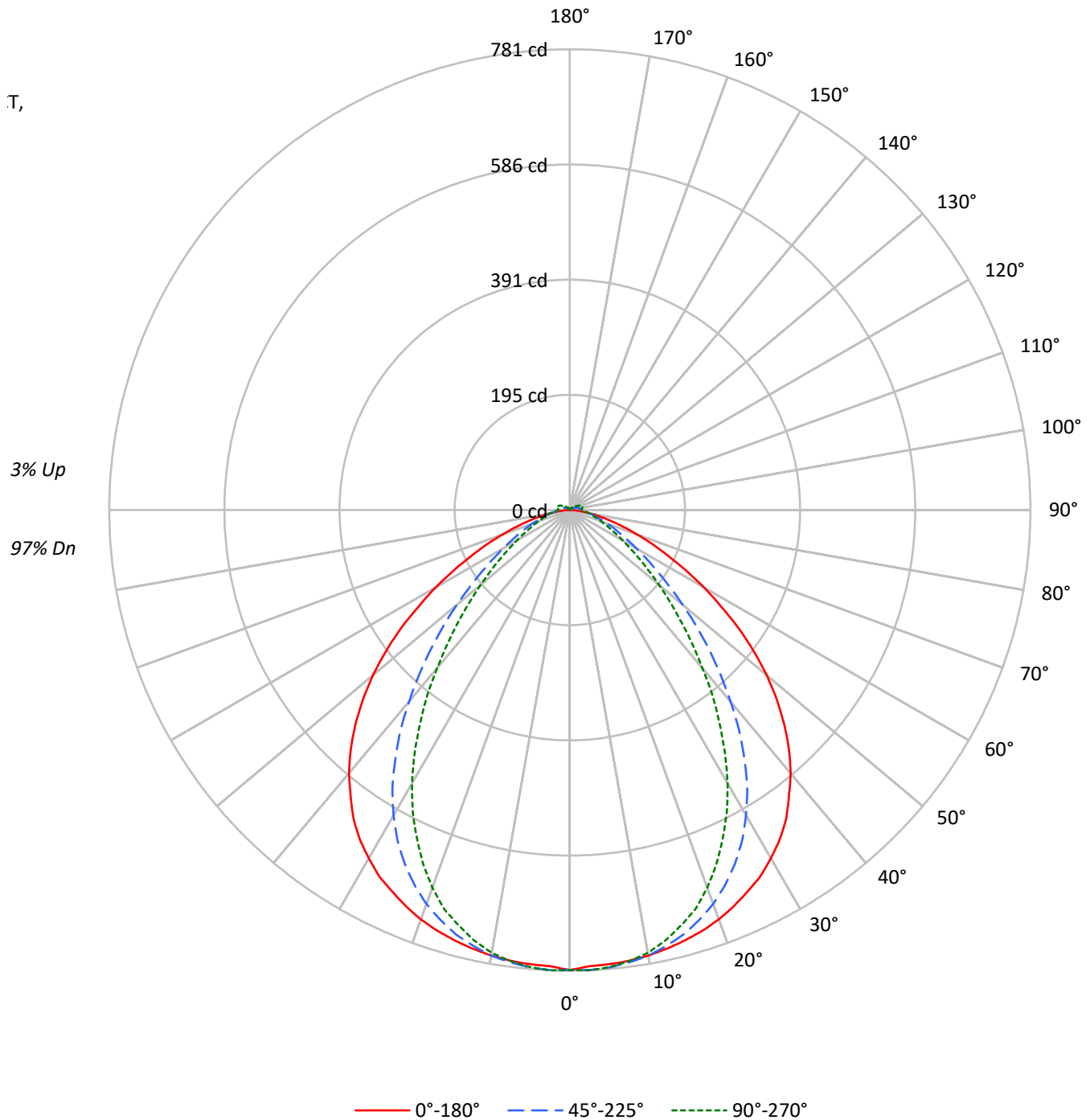
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1625.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (Ain): 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

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Luminous Intensity Polar Plot





TEST NUMBER: P895790

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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 97 | 98 | 96 | 93 | 94 | 92 | 90 | 90 | 88 | 87 | 87 | 87 | 87 | 84 |
| 2 | 101 | 94 | 88 | 83 | 98 | 92 | 86 | 82 | 88 | 83 | 80 | 84 | 81 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 93 | 84 | 77 | 71 | 91 | 82 | 76 | 70 | 79 | 73 | 69 | 76 | 71 | 67 | 73 | 69 | 66 | 66 | 66 | 66 | 64 |
| 4 | 86 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 71 | 65 | 60 | 69 | 63 | 59 | 66 | 62 | 58 | 58 | 58 | 58 | 56 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 52 | 52 | 52 | 50 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 54 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 50 | 46 | 46 | 46 | 46 | 44 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 51 | 46 | 42 | 42 | 42 | 42 | 40 |
| 8 | 65 | 52 | 45 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 47 | 42 | 38 | 38 | 38 | 38 | 36 |
| 9 | 61 | 48 | 41 | 36 | 59 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 35 | 35 | 35 | 33 |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15970 | 15970 | 15970 |
| 5° | 15828 | 15653 | 15559 |
| 10° | 15830 | 15271 | 15018 |
| 15° | 15831 | 14796 | 14254 |
| 20° | 15852 | 14188 | 13323 |
| 25° | 15808 | 13387 | 12097 |
| 30° | 15738 | 12338 | 10708 |
| 35° | 15526 | 10971 | 9074 |
| 40° | 15042 | 9359 | 7396 |
| 45° | 14283 | 7703 | 5862 |
| 50° | 13220 | 6122 | 4573 |
| 55° | 11770 | 4759 | 3541 |
| 60° | 10023 | 3714 | 2773 |
| 65° | 8195 | 2952 | 2205 |
| 70° | 6499 | 2390 | 1811 |
| 75° | 5019 | 1947 | 1582 |
| 80° | 3570 | 1643 | 1434 |
| 85° | 2046 | 1431 | 1291 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14283 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.9 | 4.5 |
| 10°-20° | 209.6 | 12.9 |
| 20°-30° | 304.6 | 18.7 |
| 30°-40° | 329.3 | 20.3 |
| 40°-50° | 277.8 | 17.1 |
| 50°-60° | 190.4 | 11.7 |
| 60°-70° | 111.0 | 6.8 |
| 70°-80° | 56.7 | 3.5 |
| 80°-90° | 24.4 | 1.5 |
| 90°-100° | 14.8 | 0.9 |
| 100°-110° | 13.3 | 0.8 |
| 110°-120° | 9.0 | 0.6 |
| 120°-130° | 5.0 | 0.3 |
| 130°-140° | 2.8 | 0.2 |
| 140°-150° | 1.5 | 0.1 |
| 150°-160° | 0.8 | 0.0 |
| 160°-170° | 0.3 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 588.1 | 36.2 |
| 0°-40° | 917.3 | 56.5 |
| 0°-60° | 1385.5 | 85.3 |
| 0°-90° | 1577.5 | 97.1 |
| 90°-120° | 37.1 | 2.3 |
| 90°-150° | 46.3 | 2.9 |
| 90°-180° | 47.0 | 2.9 |
| 0°-180° | 1625.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 780 | 780 | 780 | 780 | 780 | |
| 5° | 773 | 778 | 778 | 780 | 778 | 74 |
| 15° | 755 | 755 | 745 | 736 | 729 | 213 |
| 25° | 713 | 700 | 662 | 629 | 614 | 329 |
| 35° | 639 | 598 | 516 | 461 | 443 | 398 |
| 45° | 514 | 435 | 333 | 281 | 266 | 395 |
| 55° | 350 | 265 | 181 | 152 | 144 | 311 |
| 65° | 184 | 136 | 94 | 80 | 76 | 185 |
| 75° | 73 | 60 | 48 | 44 | 43 | 79 |
| 85° | 13 | 18 | 24 | 25 | 25 | 16 |
| 90° | 0 | 8 | 17 | 19 | 19 | 1 |
| 95° | 0 | 8 | 17 | 20 | 20 | 0 |
| 105° | 0 | 4 | 14 | 21 | 22 | 0 |
| 115° | 0 | 3 | 9 | 16 | 18 | 0 |
| 125° | 0 | 2 | 5 | 9 | 11 | 0 |
| 135° | 0 | 2 | 4 | 5 | 6 | 0 |
| 145° | 0 | 1 | 3 | 3 | 4 | 0 |
| 155° | 0 | 1 | 2 | 2 | 3 | 0 |
| 165° | 0 | 0 | 1 | 2 | 2 | 0 |
| 175° | 0 | 0 | 1 | 1 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P895790

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 779.9 | 779.9 | 779.9 | 779.9 | 779.9 |
| 2.5° | 774.0 | 778.8 | 780.4 | 782.5 | 780.9 |
| 5° | 772.9 | 777.7 | 778.3 | 779.9 | 777.7 |
| 7.5° | 770.8 | 774.5 | 773.4 | 773.4 | 771.3 |
| 10° | 767.0 | 769.1 | 767.0 | 764.3 | 762.2 |
| 12.5° | 761.6 | 763.3 | 756.8 | 753.1 | 747.7 |
| 15° | 755.2 | 754.7 | 745.0 | 735.9 | 728.9 |
| 17.5° | 747.7 | 744.0 | 728.9 | 715.0 | 709.1 |
| 20° | 738.6 | 731.6 | 710.7 | 690.4 | 681.2 |
| 22.5° | 726.8 | 717.2 | 688.2 | 662.0 | 649.6 |
| 25° | 713.4 | 699.5 | 662.0 | 629.3 | 613.7 |
| 27.5° | 700.0 | 679.1 | 632.5 | 591.7 | 576.7 |
| 30° | 681.8 | 655.5 | 597.6 | 551.5 | 534.9 |
| 32.5° | 662.5 | 629.3 | 560.1 | 506.5 | 489.9 |
| 35° | 639.4 | 598.2 | 516.2 | 461.0 | 442.7 |
| 37.5° | 610.5 | 561.7 | 471.7 | 413.8 | 398.2 |
| 40° | 582.6 | 522.1 | 424.0 | 366.6 | 349.5 |
| 42.5° | 549.9 | 479.2 | 377.9 | 322.1 | 306.6 |
| 45° | 514.0 | 434.7 | 332.9 | 281.4 | 265.9 |
| 47.5° | 476.0 | 392.3 | 290.0 | 242.3 | 229.9 |
| 50° | 435.8 | 348.9 | 249.8 | 208.5 | 197.2 |
| 52.5° | 392.9 | 305.5 | 212.8 | 178.5 | 168.3 |
| 55° | 349.5 | 264.8 | 181.2 | 151.7 | 143.6 |
| 57.5° | 303.9 | 225.7 | 154.4 | 129.2 | 121.7 |
| 60° | 262.6 | 193.0 | 130.2 | 110.4 | 104.5 |
| 62.5° | 221.9 | 162.9 | 111.0 | 93.8 | 89.0 |
| 65° | 184.4 | 135.6 | 93.8 | 79.9 | 76.1 |
| 67.5° | 151.7 | 113.6 | 80.4 | 68.6 | 65.9 |
| 70° | 121.1 | 92.7 | 67.5 | 59.0 | 56.3 |
| 72.5° | 95.4 | 75.0 | 56.8 | 50.9 | 49.3 |
| 75° | 73.4 | 60.0 | 47.7 | 44.5 | 43.4 |
| 77.5° | 53.6 | 46.1 | 40.2 | 38.6 | 38.1 |
| 80° | 37.5 | 34.8 | 33.8 | 33.8 | 33.8 |
| 82.5° | 23.6 | 25.7 | 28.4 | 29.5 | 29.5 |
| 85° | 12.9 | 17.7 | 23.6 | 25.2 | 25.2 |
| 87.5° | 5.4 | 12.3 | 19.8 | 21.4 | 20.9 |
| 90° | 0.5 | 8.0 | 17.2 | 19.3 | 19.3 |
| 92.5° | 0.0 | 8.0 | 17.2 | 19.3 | 19.3 |
| 95° | 0.0 | 7.5 | 16.6 | 19.8 | 20.4 |
| 97.5° | 0.0 | 7.0 | 16.6 | 20.4 | 20.9 |
| 100° | 0.5 | 6.4 | 16.6 | 20.9 | 21.4 |
| 102.5° | 0.0 | 5.4 | 15.5 | 20.9 | 22.0 |
| 105° | 0.0 | 4.3 | 14.5 | 20.9 | 22.0 |
| 107.5° | 0.0 | 3.2 | 13.4 | 19.8 | 21.4 |
| 110° | 0.0 | 3.2 | 12.3 | 18.8 | 20.4 |



TEST NUMBER: P895790

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 2.7 | 10.7 | 17.2 | 19.3 |
| 115° | 0.0 | 2.7 | 9.1 | 15.5 | 17.7 |
| 117.5° | 0.0 | 2.1 | 8.0 | 13.9 | 15.5 |
| 120° | 0.0 | 2.1 | 7.0 | 12.3 | 13.9 |
| 122.5° | 0.0 | 2.1 | 6.4 | 10.7 | 12.3 |
| 125° | 0.0 | 1.6 | 5.4 | 9.1 | 10.7 |
| 127.5° | 0.5 | 1.6 | 4.8 | 8.0 | 9.6 |
| 130° | 0.5 | 1.6 | 4.3 | 7.0 | 8.6 |
| 132.5° | 0.5 | 1.6 | 3.8 | 6.4 | 7.5 |
| 135° | 0.5 | 1.6 | 3.8 | 5.4 | 6.4 |
| 137.5° | 0.5 | 1.6 | 3.2 | 4.8 | 5.4 |
| 140° | 0.5 | 1.6 | 2.7 | 4.3 | 4.8 |
| 142.5° | 0.5 | 1.1 | 2.7 | 3.8 | 4.3 |
| 145° | 0.5 | 1.1 | 2.7 | 3.2 | 3.8 |
| 147.5° | 0.5 | 1.1 | 2.1 | 3.2 | 3.2 |
| 150° | 0.5 | 1.1 | 2.1 | 2.7 | 3.2 |
| 152.5° | 0.5 | 1.1 | 1.6 | 2.7 | 2.7 |
| 155° | 0.5 | 1.1 | 1.6 | 2.1 | 2.7 |
| 157.5° | 0.5 | 1.1 | 1.6 | 2.1 | 2.1 |
| 160° | 0.5 | 1.1 | 1.1 | 1.6 | 2.1 |
| 162.5° | 0.5 | 0.5 | 1.1 | 1.6 | 1.6 |
| 165° | 0.5 | 0.5 | 1.1 | 1.6 | 1.6 |
| 167.5° | 0.5 | 0.5 | 1.1 | 1.1 | 1.6 |
| 170° | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 |
| 172.5° | 0.5 | 0.5 | 1.1 | 1.1 | 0.5 |
| 175° | 0.5 | 0.5 | 1.1 | 1.1 | 0.5 |
| 177.5° | 0.5 | 0.5 | 1.1 | 0.5 | 0.5 |
| 180° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |



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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 | 18.16 | 19.56 | 18.57 | 19.94 | 20.33 | 14.48 | 15.88 | 14.90 | 16.26 | 16.65 |
| | 3H | 19.23 | 20.48 | 19.65 | 20.87 | 21.30 | 15.66 | 16.92 | 16.09 | 17.31 | 17.74 |
| | 4H | 19.52 | 20.69 | 19.97 | 21.10 | 21.55 | 16.19 | 17.36 | 16.64 | 17.77 | 18.22 |
| | 6H | 19.65 | 20.73 | 20.11 | 21.16 | 21.63 | 16.73 | 17.81 | 17.19 | 18.24 | 18.70 |
| | 8H | 19.66 | 20.69 | 20.14 | 21.14 | 21.62 | 17.01 | 18.03 | 17.48 | 18.48 | 18.96 |
| | 12H | 19.65 | 20.64 | 20.13 | 21.08 | 21.58 | 17.30 | 18.28 | 17.78 | 18.72 | 19.22 |
| 4H | 2H | 18.19 | 19.36 | 18.64 | 19.77 | 20.23 | 14.94 | 16.11 | 15.39 | 16.52 | 16.98 |
| | 3H | 19.41 | 20.38 | 19.88 | 20.84 | 21.32 | 16.30 | 17.27 | 16.77 | 17.73 | 18.21 |
| | 4H | 19.79 | 20.67 | 20.27 | 21.14 | 21.65 | 16.94 | 17.81 | 17.42 | 18.28 | 18.79 |
| | 6H | 20.01 | 20.77 | 20.52 | 21.27 | 21.80 | 17.61 | 18.37 | 18.11 | 18.86 | 19.39 |
| | 8H | 20.04 | 20.75 | 20.56 | 21.25 | 21.79 | 17.95 | 18.66 | 18.47 | 19.16 | 19.70 |
| | 12H | 20.05 | 20.68 | 20.58 | 21.21 | 21.76 | 18.33 | 18.96 | 18.86 | 19.50 | 20.04 |
| 8H | 4H | 19.81 | 20.52 | 20.32 | 21.02 | 21.56 | 17.15 | 17.86 | 17.67 | 18.36 | 18.90 |
| | 6H | 20.09 | 20.67 | 20.63 | 21.22 | 21.76 | 17.94 | 18.53 | 18.48 | 19.07 | 19.62 |
| | 8H | 20.15 | 20.68 | 20.72 | 21.24 | 21.80 | 18.38 | 18.90 | 18.94 | 19.47 | 20.02 |
| | 12H | 20.19 | 20.66 | 20.75 | 21.20 | 21.83 | 18.88 | 19.35 | 19.44 | 19.89 | 20.52 |
| 12H | 4H | 19.80 | 20.43 | 20.33 | 20.96 | 21.50 | 17.16 | 17.79 | 17.69 | 18.33 | 18.87 |
| | 6H | 20.08 | 20.61 | 20.64 | 21.17 | 21.73 | 17.97 | 18.50 | 18.53 | 19.06 | 19.62 |
| | 8H | 20.19 | 20.65 | 20.74 | 21.20 | 21.83 | 18.47 | 18.94 | 19.03 | 19.48 | 20.11 |