

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: P892902

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

Issue Date: 11/11/2024

**Test Information**

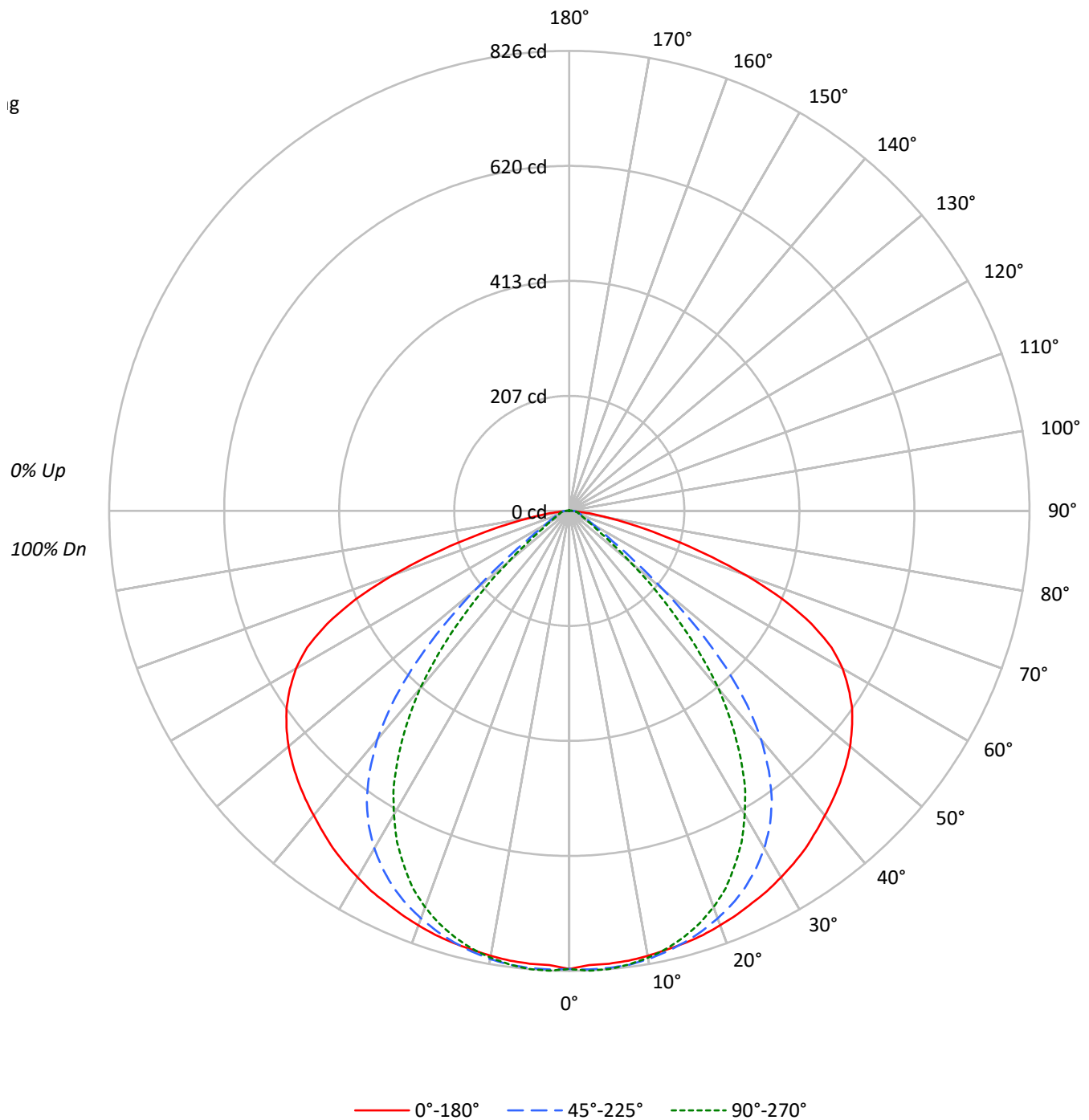
Test Method: LM-79-2019  
Report Number: P892902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC93-MID-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1724.9 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25  
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')  
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





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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   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 94  | 93  | 93  | 91  | 90  | 93  | 91  | 90  | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 84  | 81  | 79  | 77  |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 76  | 73  | 69  | 67  |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 70  | 65  | 61  | 59  |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 63  | 59  | 55  | 63  | 59  | 55  | 53  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 58  | 53  | 49  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 54  | 48  | 44  | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 50  | 44  | 40  | 38  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 36  | 46  | 40  | 36  | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 32  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16842 | 16842 | 16842 |
| 5°  | 16775 | 16929 | 16972 |
| 10° | 16867 | 16989 | 16935 |
| 15° | 17027 | 16993 | 16800 |
| 20° | 17256 | 16964 | 16498 |
| 25° | 17553 | 16864 | 15870 |
| 30° | 17965 | 16544 | 14884 |
| 35° | 18483 | 15843 | 13336 |
| 40° | 19077 | 14333 | 11152 |
| 45° | 19920 | 11491 | 7949  |
| 50° | 20958 | 6986  | 4562  |
| 55° | 22127 | 3370  | 2449  |
| 60° | 23208 | 2064  | 1667  |
| 65° | 23252 | 1662  | 1376  |
| 70° | 20128 | 1509  | 1281  |
| 75° | 14170 | 1527  | 1400  |
| 80° | 8349  | 1828  | 1769  |
| 85° | 3900  | 2772  | 2655  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 23539 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.4   | 4.5       |
| 10°-20°   | 226.2  | 13.1      |
| 20°-30°   | 342.3  | 19.8      |
| 30°-40°   | 395.3  | 22.9      |
| 40°-50°   | 338.0  | 19.6      |
| 50°-60°   | 184.6  | 10.7      |
| 60°-70°   | 93.3   | 5.4       |
| 70°-80°   | 45.3   | 2.6       |
| 80°-90°   | 15.6   | 0.9       |
| 90°-100°  | 3.8    | 0.2       |
| 100°-110° | 0.6    | 0.0       |
| 110°-120° | 0.2    | 0.0       |
| 120°-130° | 0.2    | 0.0       |
| 130°-140° | 0.3    | 0.0       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 646.8  | 37.5      |
| 0°-40°    | 1042.1 | 60.4      |
| 0°-60°    | 1564.8 | 90.7      |
| 0°-90°    | 1718.9 | 99.7      |
| 90°-120°  | 4.6    | 0.3       |
| 90°-150°  | 5.4    | 0.3       |
| 90°-180°  | 6.0    | 0.3       |
| 0°-180°   | 1724.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 822 | 822   | 822 | 822   | 822 |      |
| 5°   | 816 | 822   | 824 | 827   | 826 | 78   |
| 15°  | 803 | 808   | 802 | 798   | 792 | 227  |
| 25°  | 777 | 773   | 746 | 717   | 702 | 359  |
| 35°  | 739 | 714   | 634 | 560   | 534 | 463  |
| 45°  | 688 | 600   | 397 | 295   | 274 | 532  |
| 55°  | 620 | 285   | 94  | 74    | 69  | 552  |
| 65°  | 480 | 53    | 34  | 31    | 28  | 464  |
| 75°  | 179 | 30    | 19  | 19    | 18  | 198  |
| 85°  | 17  | 17    | 12  | 12    | 11  | 26   |
| 90°  | 0   | 10    | 8   | 8     | 7   | 1    |
| 95°  | 0   | 1     | 3   | 5     | 4   | 0    |
| 105° | 0   | 0     | 0   | 1     | 0   | 0    |
| 115° | 0   | 0     | 0   | 0     | 0   | 0    |
| 125° | 0   | 0     | 0   | 0     | 0   | 0    |
| 135° | 0   | 0     | 0   | 0     | 0   | 0    |
| 145° | 0   | 0     | 0   | 0     | 0   | 0    |
| 155° | 0   | 0     | 0   | 1     | 0   | 0    |
| 165° | 0   | 0     | 1   | 1     | 1   | 0    |
| 175° | 0   | 0     | 1   | 1     | 1   | 0    |
| 180° | 1   | 1     | 1   | 1     | 1   |      |



TEST NUMBER: P892902

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 822.5 | 822.5 | 822.5 | 822.5 | 822.5 |
| 2.5°   | 816.1 | 822.0 | 824.1 | 827.9 | 826.3 |
| 5°     | 816.1 | 822.5 | 823.6 | 826.8 | 825.7 |
| 7.5°   | 814.5 | 820.4 | 822.0 | 823.6 | 821.4 |
| 10°    | 811.2 | 817.1 | 817.1 | 817.1 | 814.5 |
| 12.5°  | 807.0 | 813.4 | 810.2 | 808.0 | 805.3 |
| 15°    | 803.2 | 808.0 | 801.6 | 797.8 | 792.5 |
| 17.5°  | 798.4 | 802.1 | 791.4 | 783.9 | 776.9 |
| 20°    | 791.9 | 793.6 | 778.5 | 764.6 | 757.1 |
| 22.5°  | 785.0 | 783.4 | 764.1 | 743.7 | 733.5 |
| 25°    | 776.9 | 772.6 | 746.4 | 717.4 | 702.4 |
| 27.5°  | 769.4 | 760.3 | 724.9 | 685.8 | 670.2 |
| 30°    | 759.8 | 747.4 | 699.7 | 650.4 | 629.5 |
| 32.5°  | 750.1 | 731.9 | 670.2 | 610.2 | 587.1 |
| 35°    | 739.4 | 714.2 | 633.8 | 559.8 | 533.5 |
| 37.5°  | 726.5 | 692.2 | 588.2 | 505.1 | 477.2 |
| 40°    | 713.7 | 666.5 | 536.2 | 441.8 | 417.2 |
| 42.5°  | 701.3 | 637.5 | 472.4 | 371.0 | 346.9 |
| 45°    | 687.9 | 600.5 | 396.8 | 294.9 | 274.5 |
| 47.5°  | 673.4 | 549.6 | 309.4 | 223.6 | 206.4 |
| 50°    | 657.9 | 483.6 | 219.3 | 156.6 | 143.2 |
| 52.5°  | 639.7 | 392.5 | 144.8 | 105.6 | 97.0  |
| 55°    | 619.8 | 284.7 | 94.4  | 73.5  | 68.6  |
| 57.5°  | 594.6 | 185.5 | 66.5  | 54.7  | 50.9  |
| 60°    | 566.7 | 111.0 | 50.4  | 43.4  | 40.7  |
| 62.5°  | 530.8 | 71.8  | 40.7  | 36.5  | 33.2  |
| 65°    | 479.9 | 53.1  | 34.3  | 30.6  | 28.4  |
| 67.5°  | 415.5 | 44.0  | 29.0  | 26.3  | 24.1  |
| 70°    | 336.2 | 38.6  | 25.2  | 23.1  | 21.4  |
| 72.5°  | 254.2 | 33.8  | 22.0  | 20.4  | 19.3  |
| 75°    | 179.1 | 29.5  | 19.3  | 18.8  | 17.7  |
| 77.5°  | 117.4 | 25.7  | 17.7  | 17.2  | 16.6  |
| 80°    | 70.8  | 22.0  | 15.5  | 15.5  | 15.0  |
| 82.5°  | 39.7  | 19.3  | 13.9  | 13.9  | 12.9  |
| 85°    | 16.6  | 16.6  | 11.8  | 11.8  | 11.3  |
| 87.5°  | 4.8   | 12.9  | 9.7   | 9.7   | 8.6   |
| 90°    | 0.0   | 9.7   | 7.5   | 7.5   | 7.0   |
| 92.5°  | 0.0   | 5.4   | 5.4   | 5.9   | 5.4   |
| 95°    | 0.0   | 1.1   | 3.2   | 4.8   | 4.3   |
| 97.5°  | 0.0   | 0.5   | 2.1   | 3.8   | 3.2   |
| 100°   | 0.0   | 0.0   | 1.1   | 2.7   | 2.1   |
| 102.5° | 0.0   | 0.0   | 0.5   | 1.6   | 1.6   |
| 105°   | 0.0   | 0.0   | 0.5   | 1.1   | 0.5   |
| 107.5° | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |
| 110°   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 115°   | 0.0 | 0.0   | 0.0 | 0.5   | 0.5 |
| 117.5° | 0.0 | 0.0   | 0.0 | 0.5   | 0.0 |
| 120°   | 0.0 | 0.0   | 0.0 | 0.5   | 0.0 |
| 122.5° | 0.0 | 0.0   | 0.0 | 0.5   | 0.0 |
| 125°   | 0.0 | 0.0   | 0.5 | 0.5   | 0.0 |
| 127.5° | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 130°   | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 |
| 132.5° | 0.5 | 0.0   | 0.5 | 0.5   | 0.5 |
| 135°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 137.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 140°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 142.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 145°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 147.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 150°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 152.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 155°   | 0.5 | 0.5   | 0.5 | 1.1   | 0.5 |
| 157.5° | 0.5 | 0.5   | 0.5 | 1.1   | 0.5 |
| 160°   | 0.5 | 0.5   | 0.5 | 1.1   | 0.5 |
| 162.5° | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 165°   | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 167.5° | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 170°   | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 172.5° | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 175°   | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 177.5° | 0.5 | 0.5   | 1.1 | 1.1   | 1.1 |
| 180°   | 1.1 | 1.1   | 1.1 | 1.1   | 1.1 |



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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 | 19.98            | 21.39 | 20.35 | 21.71 | 22.04 | 9.10           | 10.51 | 9.47  | 10.83 | 11.16 |
|                 | 3H   | 22.76            | 24.02 | 23.15 | 24.35 | 24.73 | 10.11          | 11.36 | 10.49 | 11.70 | 12.07 |
|                 | 4H   | 23.59            | 24.77 | 24.00 | 25.12 | 25.51 | 10.66          | 11.84 | 11.07 | 12.19 | 12.58 |
|                 | 6H   | 23.99            | 25.07 | 24.41 | 25.44 | 25.85 | 11.36          | 12.44 | 11.78 | 12.82 | 13.22 |
|                 | 8H   | 24.06            | 25.09 | 24.50 | 25.48 | 25.90 | 11.73          | 12.76 | 12.17 | 13.16 | 13.57 |
|                 | 12H  | 24.08            | 25.06 | 24.52 | 25.45 | 25.89 | 12.16          | 13.14 | 12.59 | 13.53 | 13.96 |
| 4H              | 2H   | 19.80            | 20.97 | 20.21 | 21.33 | 21.72 | 9.53           | 10.71 | 9.94  | 11.06 | 11.45 |
|                 | 3H   | 22.59            | 23.56 | 23.01 | 23.97 | 24.38 | 10.81          | 11.77 | 11.23 | 12.18 | 12.59 |
|                 | 4H   | 23.43            | 24.29 | 23.87 | 24.71 | 25.16 | 11.55          | 12.41 | 11.99 | 12.83 | 13.28 |
|                 | 6H   | 23.90            | 24.65 | 24.37 | 25.10 | 25.57 | 12.46          | 13.20 | 12.92 | 13.66 | 14.13 |
|                 | 8H   | 24.01            | 24.71 | 24.48 | 25.16 | 25.64 | 12.94          | 13.64 | 13.41 | 14.09 | 14.57 |
|                 | 12H  | 24.06            | 24.68 | 24.55 | 25.17 | 25.65 | 13.49          | 14.11 | 13.98 | 14.60 | 15.08 |
| 8H              | 4H   | 23.32            | 24.02 | 23.79 | 24.47 | 24.95 | 11.99          | 12.68 | 12.46 | 13.14 | 13.61 |
|                 | 6H   | 23.79            | 24.37 | 24.30 | 24.87 | 25.36 | 13.10          | 13.67 | 13.60 | 14.18 | 14.66 |
|                 | 8H   | 23.93            | 24.44 | 24.45 | 24.96 | 25.46 | 13.74          | 14.26 | 14.27 | 14.78 | 15.28 |
|                 | 12H  | 24.02            | 24.48 | 24.54 | 24.98 | 25.56 | 14.48          | 14.95 | 15.00 | 15.45 | 16.02 |
| 12H             | 4H   | 23.28            | 23.90 | 23.77 | 24.39 | 24.87 | 12.15          | 12.77 | 12.64 | 13.26 | 13.74 |
|                 | 6H   | 23.74            | 24.26 | 24.27 | 24.78 | 25.28 | 13.31          | 13.83 | 13.84 | 14.35 | 14.85 |
|                 | 8H   | 23.90            | 24.36 | 24.42 | 24.86 | 25.44 | 14.05          | 14.51 | 14.57 | 15.01 | 15.58 |