

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: P892923

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

Issue Date: 11/11/2024

**Test Information**

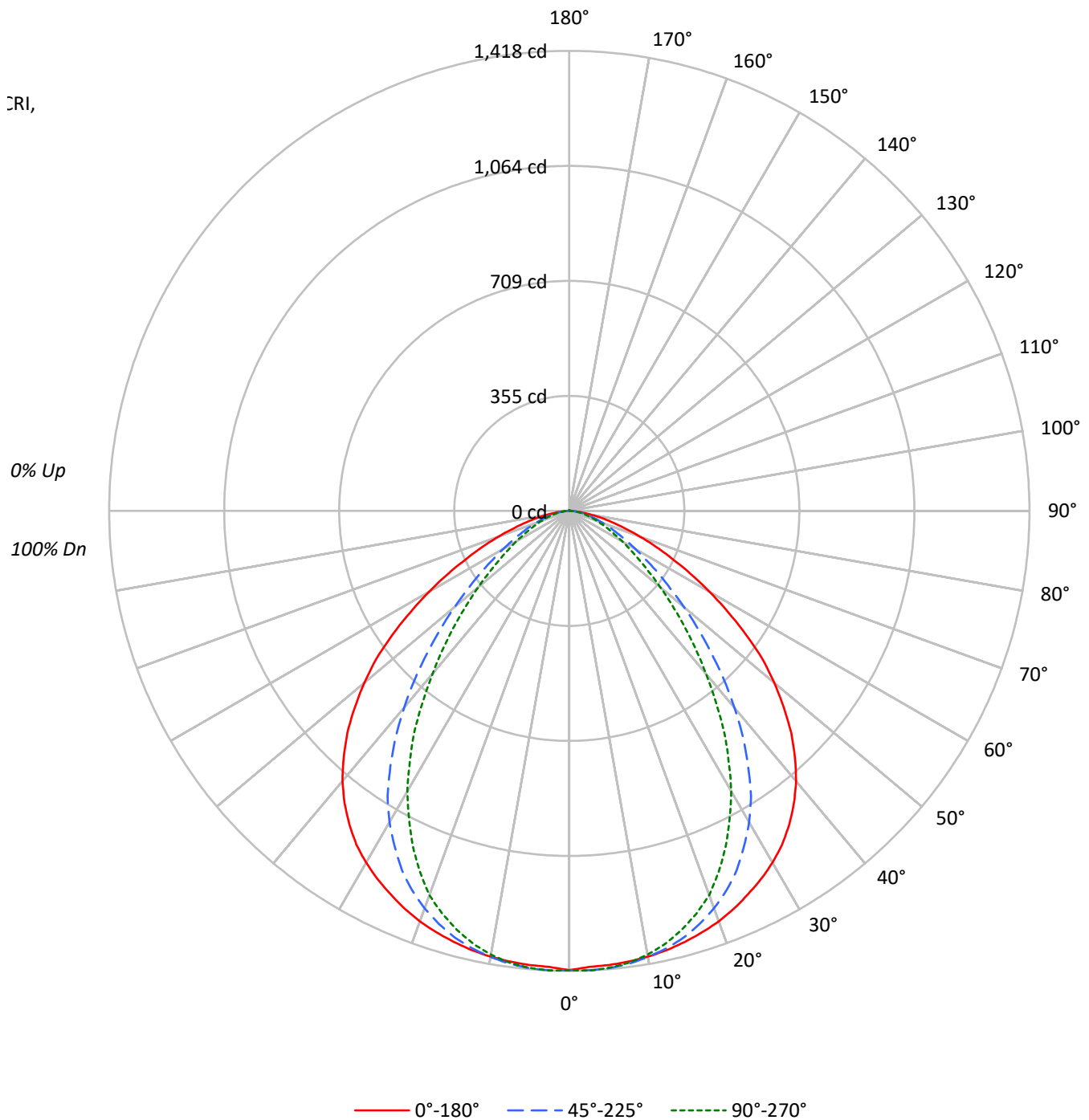
Test Method: LM-79-2019  
Report Number: P892923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-AOL-UNV-CC83-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800  
5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2886.1 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18  
Luminous Opening: Rectangular (W 0.27' 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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CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC83-HI-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P892923

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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 | 100 | 100 | 100 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  | 87  | 87  | 87  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  | 76  | 76  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  | 66  | 66  | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  | 58  | 58  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 52  | 52  | 52  | 52  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  | 46  | 46  | 46  |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 49  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  | 41  | 41  | 41  |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 37  | 37  | 37  | 37  |
| 9   | 62  | 49  | 42  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  | 34  | 34  | 34  |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  | 31  | 31  | 31  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 28984 | 28984 | 28984 |
| 5°  | 28879 | 29077 | 29056 |
| 10° | 29014 | 29034 | 28874 |
| 15° | 29155 | 28871 | 28345 |
| 20° | 29343 | 28406 | 27467 |
| 25° | 29453 | 27591 | 25777 |
| 30° | 29600 | 26205 | 23602 |
| 35° | 29522 | 24020 | 20815 |
| 40° | 29064 | 21157 | 17498 |
| 45° | 27994 | 17876 | 14439 |
| 50° | 26252 | 14695 | 11646 |
| 55° | 23712 | 11924 | 9360  |
| 60° | 20419 | 9603  | 7761  |
| 65° | 16973 | 7932  | 6444  |
| 70° | 13926 | 6645  | 5502  |
| 75° | 11052 | 5680  | 4771  |
| 80° | 8349  | 4858  | 4292  |
| 85° | 5615  | 4487  | 4041  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27994 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.3  | 4.7       |
| 10°-20°   | 383.1  | 13.3      |
| 20°-30°   | 561.1  | 19.4      |
| 30°-40°   | 612.3  | 21.2      |
| 40°-50°   | 519.2  | 18.0      |
| 50°-60°   | 352.9  | 12.2      |
| 60°-70°   | 199.3  | 6.9       |
| 70°-80°   | 91.0   | 3.2       |
| 80°-90°   | 23.7   | 0.8       |
| 90°-100°  | 3.1    | 0.1       |
| 100°-110° | 1.8    | 0.1       |
| 110°-120° | 1.0    | 0.0       |
| 120°-130° | 0.9    | 0.0       |
| 130°-140° | 0.8    | 0.0       |
| 140°-150° | 0.6    | 0.0       |
| 150°-160° | 0.5    | 0.0       |
| 160°-170° | 0.4    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 1078.6 | 37.4      |
| 0°-40°    | 1690.9 | 58.6      |
| 0°-60°    | 2562.9 | 88.8      |
| 0°-90°    | 2877.0 | 99.7      |
| 90°-120°  | 5.9    | 0.2       |
| 90°-150°  | 8.2    | 0.3       |
| 90°-180°  | 9.0    | 0.3       |
| 0°-180°   | 2886.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1416 | 1416  | 1416 | 1416  | 1416 |      |
| 5°   | 1405 | 1413  | 1415 | 1418  | 1414 | 134  |
| 15°  | 1375 | 1374  | 1362 | 1347  | 1337 | 389  |
| 25°  | 1304 | 1282  | 1221 | 1166  | 1141 | 601  |
| 35°  | 1181 | 1105  | 961  | 860   | 833  | 737  |
| 45°  | 967  | 816   | 617  | 524   | 499  | 742  |
| 55°  | 664  | 491   | 334  | 278   | 262  | 593  |
| 65°  | 350  | 249   | 164  | 140   | 133  | 352  |
| 75°  | 140  | 102   | 72   | 63    | 60   | 151  |
| 85°  | 24   | 22    | 19   | 18    | 17   | 30   |
| 90°  | 0    | 3     | 4    | 5     | 5    | 1    |
| 95°  | 0    | 1     | 3    | 5     | 5    | 0    |
| 105° | 0    | 1     | 2    | 3     | 3    | 0    |
| 115° | 0    | 0     | 1    | 2     | 2    | 0    |
| 125° | 0    | 0     | 1    | 2     | 2    | 0    |
| 135° | 1    | 1     | 1    | 1     | 1    | 1    |
| 145° | 1    | 1     | 1    | 1     | 1    | 1    |
| 155° | 1    | 1     | 1    | 1     | 1    | 0    |
| 165° | 1    | 1     | 1    | 2     | 2    | 0    |
| 175° | 1    | 1     | 2    | 2     | 2    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



TEST NUMBER: P892923

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1415.5 | 1415.5 | 1415.5 | 1415.5 | 1415.5 |
| 2.5°   | 1406.9 | 1414.6 | 1417.5 | 1421.3 | 1418.4 |
| 5°     | 1405.0 | 1412.7 | 1414.6 | 1417.5 | 1413.6 |
| 7.5°   | 1401.2 | 1407.9 | 1407.9 | 1407.9 | 1405.0 |
| 10°    | 1395.4 | 1400.2 | 1396.4 | 1392.6 | 1388.7 |
| 12.5°  | 1386.8 | 1388.7 | 1381.1 | 1374.4 | 1366.7 |
| 15°    | 1375.3 | 1374.4 | 1361.9 | 1346.6 | 1337.1 |
| 17.5°  | 1361.9 | 1358.1 | 1335.1 | 1315.0 | 1301.6 |
| 20°    | 1346.6 | 1337.1 | 1303.6 | 1272.0 | 1260.5 |
| 22.5°  | 1326.5 | 1313.1 | 1266.2 | 1222.2 | 1203.1 |
| 25°    | 1303.6 | 1281.5 | 1221.2 | 1165.7 | 1140.9 |
| 27.5°  | 1279.6 | 1247.1 | 1165.7 | 1096.8 | 1070.0 |
| 30°    | 1251.9 | 1206.9 | 1108.3 | 1028.9 | 998.2  |
| 32.5°  | 1220.3 | 1162.9 | 1042.3 | 946.6  | 914.0  |
| 35°    | 1181.0 | 1105.4 | 960.9  | 860.4  | 832.7  |
| 37.5°  | 1137.0 | 1044.2 | 878.6  | 774.3  | 740.8  |
| 40°    | 1087.3 | 974.3  | 791.5  | 687.2  | 654.6  |
| 42.5°  | 1028.9 | 899.7  | 705.4  | 603.9  | 576.2  |
| 45°    | 966.7  | 816.4  | 617.3  | 524.5  | 498.6  |
| 47.5°  | 896.8  | 734.1  | 536.9  | 448.9  | 428.8  |
| 50°    | 824.1  | 651.8  | 461.3  | 385.7  | 365.6  |
| 52.5°  | 750.4  | 569.5  | 391.4  | 327.3  | 310.1  |
| 55°    | 664.2  | 491.0  | 334.0  | 277.6  | 262.2  |
| 57.5°  | 580.0  | 421.1  | 279.5  | 232.6  | 223.0  |
| 60°    | 498.6  | 354.1  | 234.5  | 196.2  | 189.5  |
| 62.5°  | 423.0  | 296.7  | 197.2  | 165.6  | 157.0  |
| 65°    | 350.3  | 248.8  | 163.7  | 139.7  | 133.0  |
| 67.5°  | 288.1  | 202.9  | 136.9  | 115.8  | 110.1  |
| 70°    | 232.6  | 163.7  | 111.0  | 94.8   | 91.9   |
| 72.5°  | 180.9  | 131.1  | 90.9   | 78.5   | 75.6   |
| 75°    | 139.7  | 102.4  | 71.8   | 63.2   | 60.3   |
| 77.5°  | 102.4  | 76.6   | 55.5   | 48.8   | 46.9   |
| 80°    | 70.8   | 54.6   | 41.2   | 37.3   | 36.4   |
| 82.5°  | 45.0   | 35.4   | 29.7   | 26.8   | 26.8   |
| 85°    | 23.9   | 22.0   | 19.1   | 18.2   | 17.2   |
| 87.5°  | 9.6    | 10.5   | 10.5   | 10.5   | 9.6    |
| 90°    | 0.0    | 2.9    | 3.8    | 4.8    | 4.8    |
| 92.5°  | 0.0    | 1.9    | 3.8    | 4.8    | 4.8    |
| 95°    | 0.0    | 1.0    | 2.9    | 4.8    | 4.8    |
| 97.5°  | 0.0    | 1.0    | 2.9    | 3.8    | 3.8    |
| 100°   | 0.0    | 1.0    | 1.9    | 3.8    | 3.8    |
| 102.5° | 0.0    | 1.0    | 1.9    | 2.9    | 3.8    |
| 105°   | 0.0    | 1.0    | 1.9    | 2.9    | 2.9    |
| 107.5° | 0.0    | 0.0    | 1.9    | 2.9    | 2.9    |
| 110°   | 0.0    | 0.0    | 1.0    | 1.9    | 2.9    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0   | 1.0 | 1.9   | 2.9 |
| 115°   | 0.0 | 0.0   | 1.0 | 1.9   | 1.9 |
| 117.5° | 0.0 | 0.0   | 1.0 | 1.9   | 1.9 |
| 120°   | 0.0 | 0.0   | 1.0 | 1.9   | 1.9 |
| 122.5° | 0.0 | 0.0   | 1.0 | 1.9   | 1.9 |
| 125°   | 0.0 | 0.0   | 1.0 | 1.9   | 1.9 |
| 127.5° | 0.0 | 1.0   | 1.0 | 1.0   | 1.9 |
| 130°   | 0.0 | 1.0   | 1.0 | 1.0   | 1.9 |
| 132.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 135°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 137.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 140°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 142.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 145°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 147.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 150°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 152.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 155°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 157.5° | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 160°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.9 |
| 162.5° | 1.0 | 1.0   | 1.0 | 1.9   | 1.9 |
| 165°   | 1.0 | 1.0   | 1.0 | 1.9   | 1.9 |
| 167.5° | 1.0 | 1.0   | 1.0 | 1.9   | 1.9 |
| 170°   | 1.0 | 1.0   | 1.0 | 1.9   | 1.9 |
| 172.5° | 1.0 | 1.0   | 1.0 | 1.9   | 1.9 |
| 175°   | 1.0 | 1.0   | 1.9 | 1.9   | 1.9 |
| 177.5° | 1.0 | 1.0   | 1.9 | 1.9   | 1.9 |
| 180°   | 1.9 | 1.9   | 1.9 | 1.9   | 1.9 |



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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 | 22.03            | 23.48 | 22.40 | 23.80 | 24.12 | 17.40          | 18.84 | 17.77 | 19.16 | 19.48 |
|                 | 3H   | 23.28            | 24.57 | 23.67 | 24.91 | 25.28 | 18.44          | 19.72 | 18.82 | 20.06 | 20.43 |
|                 | 4H   | 23.68            | 24.89 | 24.09 | 25.24 | 25.63 | 18.81          | 20.01 | 19.21 | 20.37 | 20.75 |
|                 | 6H   | 23.92            | 25.03 | 24.34 | 25.41 | 25.81 | 19.07          | 20.18 | 19.48 | 20.55 | 20.95 |
|                 | 8H   | 23.98            | 25.03 | 24.41 | 25.43 | 25.84 | 19.16          | 20.21 | 19.59 | 20.61 | 21.02 |
|                 | 12H  | 24.00            | 25.00 | 24.43 | 25.39 | 25.83 | 19.22          | 20.23 | 19.66 | 20.62 | 21.06 |
| 4H              | 2H   | 22.05            | 23.25 | 22.45 | 23.61 | 24.00 | 17.97          | 19.17 | 18.38 | 19.53 | 19.92 |
|                 | 3H   | 23.46            | 24.45 | 23.87 | 24.85 | 25.26 | 19.20          | 20.19 | 19.61 | 20.60 | 21.01 |
|                 | 4H   | 23.95            | 24.84 | 24.39 | 25.26 | 25.71 | 19.66          | 20.55 | 20.10 | 20.97 | 21.42 |
|                 | 6H   | 24.29            | 25.06 | 24.75 | 25.51 | 25.98 | 20.01          | 20.78 | 20.48 | 21.23 | 21.70 |
|                 | 8H   | 24.37            | 25.09 | 24.85 | 25.55 | 26.02 | 20.14          | 20.86 | 20.61 | 21.31 | 21.78 |
|                 | 12H  | 24.42            | 25.06 | 24.91 | 25.55 | 26.03 | 20.24          | 20.88 | 20.73 | 21.36 | 21.84 |
| 8H              | 4H   | 23.94            | 24.66 | 24.41 | 25.11 | 25.59 | 19.95          | 20.67 | 20.42 | 21.12 | 21.59 |
|                 | 6H   | 24.33            | 24.92 | 24.84 | 25.42 | 25.91 | 20.39          | 20.98 | 20.90 | 21.48 | 21.97 |
|                 | 8H   | 24.45            | 24.98 | 24.98 | 25.50 | 26.00 | 20.57          | 21.10 | 21.09 | 21.62 | 22.12 |
|                 | 12H  | 24.54            | 25.02 | 25.06 | 25.51 | 26.09 | 20.74          | 21.21 | 21.25 | 21.71 | 22.28 |
| 12H             | 4H   | 23.91            | 24.55 | 24.40 | 25.04 | 25.52 | 19.98          | 20.62 | 20.47 | 21.10 | 21.58 |
|                 | 6H   | 24.30            | 24.84 | 24.82 | 25.35 | 25.85 | 20.44          | 20.97 | 20.96 | 21.49 | 21.99 |
|                 | 8H   | 24.46            | 24.93 | 24.97 | 25.43 | 26.00 | 20.67          | 21.14 | 21.19 | 21.64 | 22.22 |