

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: CORELITE

Report Number: P824221

Luminaire Tested: CB2R-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824221  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2R-030D-835-1D-UNV-STD-W-4  
Description: CORELITE BRYX SLOT LED LUMINAIRE  
2-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 80 CRI, 3500K CCT LEDS  
Ballast/Driver: -

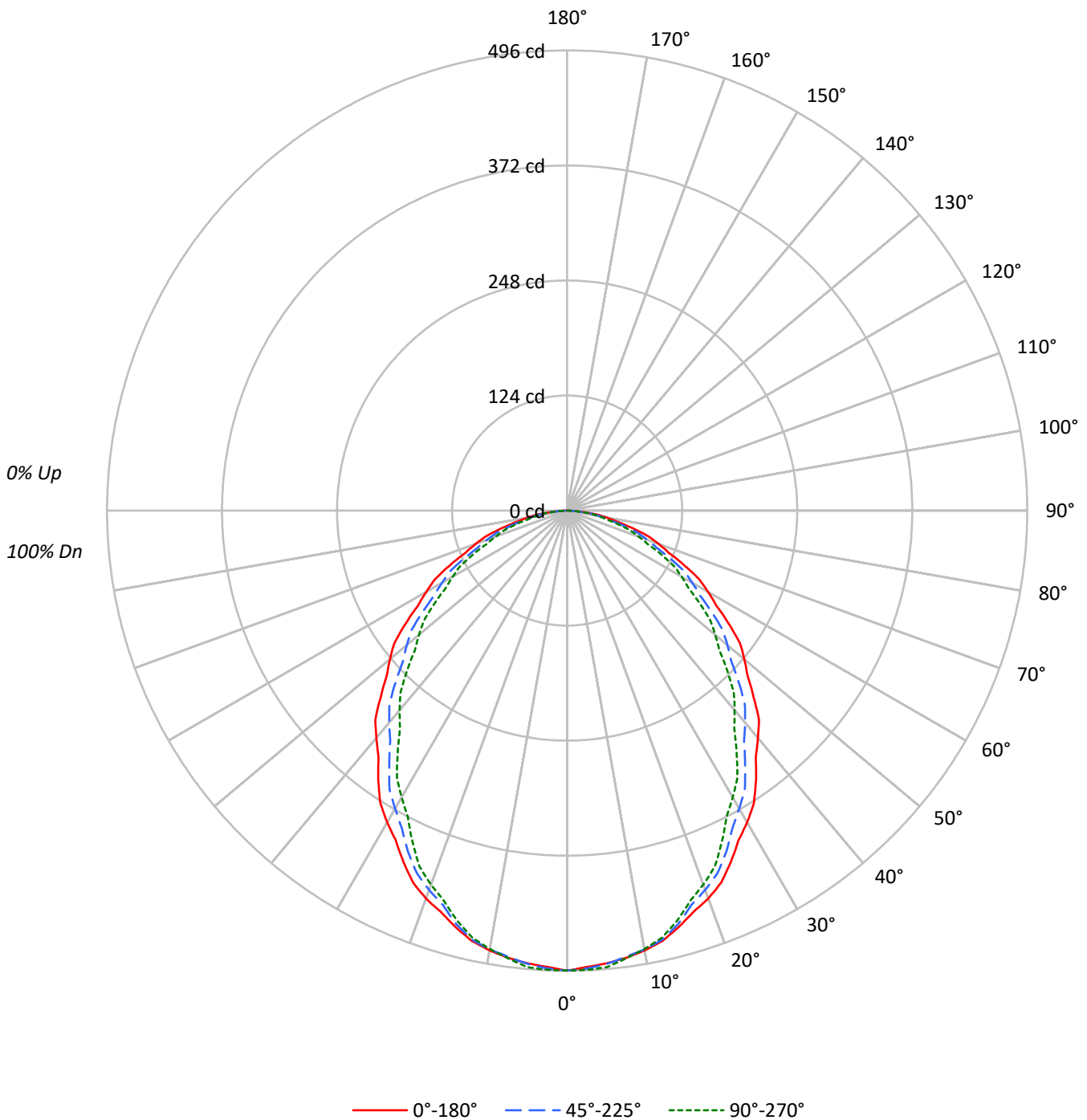
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1156.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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 |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 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 | 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 |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 76  | 80  | 77  | 74  | 72  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 3   | 91  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 5   | 78  | 65  | 56  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 36  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 34  | 33  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 31  | 41  | 36  | 31  | 29  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8636 | 8636 | 8636 |
| 5°  | 8562 | 8576 | 8635 |
| 10° | 8514 | 8493 | 8486 |
| 15° | 8379 | 8323 | 8255 |
| 20° | 8246 | 8065 | 7952 |
| 25° | 8025 | 7799 | 7580 |
| 30° | 7803 | 7459 | 7176 |
| 35° | 7546 | 7110 | 6772 |
| 40° | 7276 | 6785 | 6387 |
| 45° | 7003 | 6444 | 6013 |
| 50° | 6758 | 6110 | 5647 |
| 55° | 6456 | 5764 | 5302 |
| 60° | 6110 | 5434 | 4960 |
| 65° | 5741 | 5069 | 4616 |
| 70° | 5337 | 4660 | 4176 |
| 75° | 4852 | 4213 | 3782 |
| 80° | 4343 | 3691 | 3430 |
| 85° | 3337 | 3038 | 2498 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7003 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.6   | 4.0       |
| 10°-20°   | 130.0  | 11.2      |
| 20°-30°   | 186.9  | 16.2      |
| 30°-40°   | 210.0  | 18.2      |
| 40°-50°   | 202.9  | 17.6      |
| 50°-60°   | 171.4  | 14.8      |
| 60°-70°   | 123.1  | 10.7      |
| 70°-80°   | 67.3   | 5.8       |
| 80°-90°   | 17.9   | 1.5       |
| 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°    | 363.5  | 31.4      |
| 0°-40°    | 573.5  | 49.6      |
| 0°-60°    | 947.8  | 82.0      |
| 0°-90°    | 1156.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1156.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 496 | 496   | 496 | 496   | 496 |      |
| 5°  | 490 | 496   | 490 | 491   | 494 | 46   |
| 15° | 465 | 469   | 462 | 457   | 458 | 131  |
| 25° | 418 | 418   | 406 | 397   | 394 | 192  |
| 35° | 355 | 351   | 334 | 322   | 318 | 222  |
| 45° | 284 | 278   | 262 | 248   | 244 | 220  |
| 55° | 213 | 205   | 190 | 178   | 175 | 190  |
| 65° | 139 | 134   | 123 | 114   | 112 | 138  |
| 75° | 72  | 68    | 63  | 58    | 56  | 77   |
| 85° | 17  | 16    | 15  | 13    | 12  | 21   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 495.8 | 495.8 | 495.8 | 495.8 | 495.8 |
| 2.5°  | 492.4 | 498.4 | 494.0 | 494.6 | 495.5 |
| 5°    | 489.7 | 496.4 | 490.5 | 490.6 | 493.9 |
| 7.5°  | 486.2 | 492.5 | 485.1 | 483.7 | 486.8 |
| 10°   | 481.4 | 487.7 | 480.2 | 477.6 | 479.8 |
| 12.5° | 475.0 | 481.0 | 473.8 | 469.7 | 471.6 |
| 15°   | 464.7 | 468.7 | 461.6 | 457.1 | 457.8 |
| 17.5° | 453.4 | 455.9 | 445.7 | 441.9 | 441.1 |
| 20°   | 444.9 | 447.1 | 435.1 | 429.7 | 429.0 |
| 22.5° | 434.0 | 435.9 | 423.2 | 416.7 | 415.6 |
| 25°   | 417.6 | 418.0 | 405.8 | 396.7 | 394.4 |
| 27.5° | 400.4 | 399.2 | 385.8 | 374.9 | 372.0 |
| 30°   | 388.0 | 386.5 | 370.9 | 359.4 | 356.8 |
| 32.5° | 374.6 | 371.9 | 356.3 | 344.0 | 341.4 |
| 35°   | 354.9 | 350.9 | 334.4 | 321.5 | 318.5 |
| 37.5° | 334.0 | 329.4 | 313.3 | 299.1 | 295.8 |
| 40°   | 320.0 | 314.8 | 298.4 | 284.3 | 280.9 |
| 42.5° | 306.1 | 300.3 | 283.5 | 269.4 | 265.7 |
| 45°   | 284.3 | 278.4 | 261.6 | 247.8 | 244.1 |
| 47.5° | 263.7 | 256.1 | 239.8 | 226.1 | 222.4 |
| 50°   | 249.4 | 241.2 | 225.5 | 212.1 | 208.4 |
| 52.5° | 234.8 | 226.4 | 211.2 | 198.5 | 194.7 |
| 55°   | 212.6 | 204.8 | 189.8 | 178.0 | 174.6 |
| 57.5° | 190.6 | 183.1 | 169.4 | 158.1 | 154.8 |
| 60°   | 175.4 | 169.1 | 156.0 | 145.3 | 142.4 |
| 62.5° | 160.8 | 155.1 | 142.7 | 132.9 | 129.9 |
| 65°   | 139.3 | 134.1 | 123.0 | 114.2 | 112.0 |
| 67.5° | 118.4 | 113.2 | 104.2 | 96.4  | 93.8  |
| 70°   | 104.8 | 99.6  | 91.5  | 84.2  | 82.0  |
| 72.5° | 91.7  | 86.2  | 79.6  | 73.0  | 71.4  |
| 75°   | 72.1  | 67.7  | 62.6  | 57.7  | 56.2  |
| 77.5° | 54.8  | 50.5  | 46.8  | 43.3  | 43.0  |
| 80°   | 43.3  | 39.6  | 36.8  | 34.5  | 34.2  |
| 82.5° | 32.3  | 29.5  | 27.7  | 26.0  | 26.0  |
| 85°   | 16.7  | 15.6  | 15.2  | 13.3  | 12.5  |
| 87.5° | 4.9   | 4.9   | 4.3   | 3.6   | 3.6   |
| 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 | 18.34            | 19.92 | 18.71 | 20.23 | 20.55 | 17.24          | 18.82 | 17.61 | 19.14 | 19.45 |
|                 | 3H   | 20.04            | 21.46 | 20.41 | 21.79 | 22.15 | 18.82          | 20.24 | 19.20 | 20.57 | 20.93 |
|                 | 4H   | 20.69            | 22.03 | 21.09 | 22.38 | 22.76 | 19.42          | 20.76 | 19.82 | 21.11 | 21.49 |
|                 | 6H   | 21.13            | 22.37 | 21.54 | 22.73 | 23.13 | 19.83          | 21.07 | 20.24 | 21.43 | 21.82 |
|                 | 8H   | 21.30            | 22.48 | 21.72 | 22.87 | 23.27 | 19.99          | 21.17 | 20.41 | 21.56 | 21.96 |
|                 | 12H  | 21.39            | 22.53 | 21.82 | 22.91 | 23.34 | 20.07          | 21.21 | 20.50 | 21.59 | 22.02 |
| 4H              | 2H   | 18.83            | 20.17 | 19.23 | 20.52 | 20.89 | 17.96          | 19.29 | 18.35 | 19.64 | 20.02 |
|                 | 3H   | 20.76            | 21.88 | 21.17 | 22.28 | 22.68 | 19.75          | 20.87 | 20.16 | 21.27 | 21.67 |
|                 | 4H   | 21.53            | 22.54 | 21.97 | 22.96 | 23.39 | 20.45          | 21.46 | 20.88 | 21.88 | 22.31 |
|                 | 6H   | 22.09            | 22.97 | 22.55 | 23.41 | 23.87 | 20.97          | 21.85 | 21.42 | 22.29 | 22.74 |
|                 | 8H   | 22.31            | 23.13 | 22.77 | 23.58 | 24.04 | 21.17          | 21.99 | 21.63 | 22.44 | 22.90 |
|                 | 12H  | 22.45            | 23.19 | 22.93 | 23.66 | 24.13 | 21.29          | 22.03 | 21.77 | 22.51 | 22.98 |
| 8H              | 4H   | 21.74            | 22.57 | 22.20 | 23.01 | 23.47 | 20.78          | 21.60 | 21.24 | 22.04 | 22.51 |
|                 | 6H   | 22.41            | 23.10 | 22.91 | 23.58 | 24.06 | 21.41          | 22.09 | 21.91 | 22.58 | 23.06 |
|                 | 8H   | 22.71            | 23.32 | 23.22 | 23.83 | 24.32 | 21.69          | 22.30 | 22.20 | 22.81 | 23.30 |
|                 | 12H  | 22.92            | 23.46 | 23.42 | 23.95 | 24.51 | 21.87          | 22.41 | 22.38 | 22.91 | 23.47 |
| 12H             | 4H   | 21.76            | 22.49 | 22.24 | 22.97 | 23.44 | 20.82          | 21.55 | 21.30 | 22.03 | 22.50 |
|                 | 6H   | 22.45            | 23.06 | 22.96 | 23.57 | 24.05 | 21.48          | 22.09 | 21.99 | 22.60 | 23.09 |
|                 | 8H   | 22.80            | 23.34 | 23.30 | 23.83 | 24.39 | 21.82          | 22.36 | 22.33 | 22.85 | 23.41 |