

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: P824201

Luminaire Tested: CB2-D-055U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824201
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: CB2-D-055U-120D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6933.2 lumens
Efficiency: N/A
Efficacy: 116.7 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: Semi-Direct

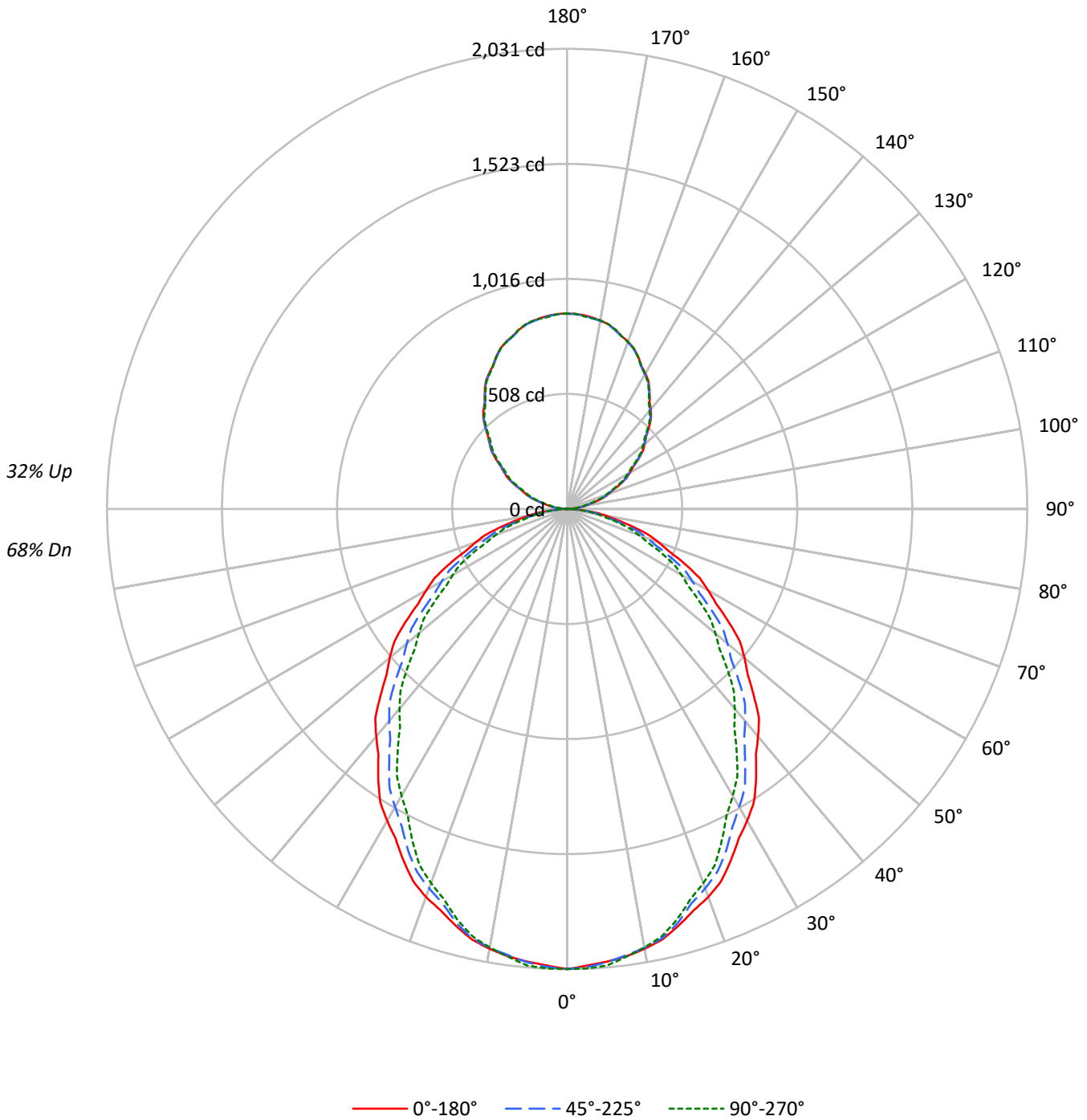
Input Watts (W): 59.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: CB2-D-055U-120D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824201

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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 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 83 | 83 | 83 | 73 | 73 | 73 | 68 | | | | | | | | | | | | | | | | | | | | |
| 1 | 102 | 98 | 94 | 90 | 96 | 92 | 89 | 86 | 82 | 80 | 77 | 73 | 71 | 70 | 65 | 63 | 62 | 58 | | | | | | | | | | | | | | | | | | | | |
| 2 | 93 | 86 | 79 | 74 | 88 | 81 | 76 | 71 | 73 | 68 | 65 | 65 | 61 | 58 | 57 | 55 | 53 | 49 | | | | | | | | | | | | | | | | | | | | |
| 3 | 85 | 76 | 68 | 62 | 80 | 72 | 65 | 60 | 64 | 59 | 55 | 57 | 53 | 50 | 51 | 48 | 45 | 42 | | | | | | | | | | | | | | | | | | | | |
| 4 | 78 | 67 | 59 | 53 | 74 | 64 | 57 | 51 | 57 | 52 | 47 | 51 | 47 | 43 | 46 | 42 | 39 | 36 | | | | | | | | | | | | | | | | | | | | |
| 5 | 72 | 60 | 52 | 46 | 68 | 57 | 50 | 44 | 52 | 45 | 41 | 46 | 41 | 37 | 41 | 37 | 34 | 32 | | | | | | | | | | | | | | | | | | | | |
| 6 | 66 | 54 | 46 | 40 | 63 | 52 | 44 | 39 | 47 | 40 | 36 | 42 | 37 | 33 | 38 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | | |
| 7 | 62 | 49 | 41 | 35 | 58 | 47 | 39 | 34 | 42 | 36 | 32 | 38 | 33 | 29 | 35 | 30 | 27 | 25 | | | | | | | | | | | | | | | | | | | | |
| 8 | 57 | 45 | 37 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 35 | 30 | 26 | 32 | 28 | 24 | 22 | | | | | | | | | | | | | | | | | | | | |
| 9 | 54 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 26 | 33 | 27 | 24 | 29 | 25 | 22 | 20 | | | | | | | | | | | | | | | | | | | | |
| 10 | 50 | 38 | 30 | 26 | 47 | 36 | 29 | 25 | 33 | 27 | 23 | 30 | 25 | 22 | 27 | 23 | 20 | 18 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 35368 | 35368 | 35368 |
| 5° | 35067 | 35122 | 35366 |
| 10° | 34868 | 34785 | 34758 |
| 15° | 34316 | 34091 | 33811 |
| 20° | 33775 | 33026 | 32564 |
| 25° | 32868 | 31942 | 31045 |
| 30° | 31958 | 30550 | 29393 |
| 35° | 30910 | 29126 | 27737 |
| 40° | 29801 | 27787 | 26161 |
| 45° | 28686 | 26388 | 24624 |
| 50° | 27679 | 25026 | 23130 |
| 55° | 26440 | 23607 | 21718 |
| 60° | 25022 | 22259 | 20312 |
| 65° | 23516 | 20763 | 18904 |
| 70° | 21852 | 19082 | 17101 |
| 75° | 19879 | 17261 | 15485 |
| 80° | 17774 | 15126 | 14032 |
| 85° | 13669 | 12430 | 10252 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28686 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.0 | 2.8 |
| 10°-20° | 532.3 | 7.7 |
| 20°-30° | 765.4 | 11.0 |
| 30°-40° | 860.2 | 12.4 |
| 40°-50° | 831.0 | 12.0 |
| 50°-60° | 702.1 | 10.1 |
| 60°-70° | 504.3 | 7.3 |
| 70°-80° | 275.6 | 4.0 |
| 80°-90° | 73.3 | 1.1 |
| 90°-100° | 33.3 | 0.5 |
| 100°-110° | 137.3 | 2.0 |
| 110°-120° | 249.3 | 3.6 |
| 120°-130° | 339.2 | 4.9 |
| 130°-140° | 391.6 | 5.6 |
| 140°-150° | 394.6 | 5.7 |
| 150°-160° | 340.5 | 4.9 |
| 160°-170° | 230.8 | 3.3 |
| 170°-180° | 81.4 | 1.2 |
| 0°-30° | 1488.6 | 21.5 |
| 0°-40° | 2348.8 | 33.9 |
| 0°-60° | 3881.9 | 56.0 |
| 0°-90° | 4735.1 | 68.3 |
| 90°-120° | 419.9 | 6.1 |
| 90°-150° | 1545.3 | 22.3 |
| 90°-180° | 2198.0 | 31.7 |
| 0°-180° | 6933.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2031 | 2031 | 2031 | 2031 | 2031 | |
| 5° | 2006 | 2033 | 2009 | 2009 | 2023 | 190 |
| 15° | 1903 | 1920 | 1891 | 1872 | 1875 | 536 |
| 25° | 1710 | 1712 | 1662 | 1625 | 1615 | 787 |
| 35° | 1454 | 1437 | 1370 | 1317 | 1304 | 908 |
| 45° | 1165 | 1140 | 1071 | 1015 | 1000 | 900 |
| 55° | 871 | 839 | 777 | 729 | 715 | 778 |
| 65° | 571 | 549 | 504 | 468 | 459 | 566 |
| 75° | 295 | 277 | 256 | 236 | 230 | 316 |
| 85° | 68 | 64 | 62 | 54 | 51 | 81 |
| 90° | 0 | 0 | 1 | 0 | 1 | 4 |
| 95° | 32 | 28 | 27 | 21 | 21 | 37 |
| 105° | 136 | 134 | 130 | 123 | 122 | 144 |
| 115° | 258 | 258 | 253 | 245 | 245 | 255 |
| 125° | 384 | 388 | 380 | 372 | 372 | 343 |
| 135° | 512 | 518 | 509 | 500 | 503 | 394 |
| 145° | 634 | 641 | 631 | 624 | 629 | 396 |
| 155° | 742 | 749 | 738 | 734 | 740 | 341 |
| 165° | 820 | 828 | 818 | 813 | 820 | 231 |
| 175° | 858 | 868 | 856 | 851 | 853 | 81 |
| 180° | 862 | 862 | 862 | 862 | 862 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2030.6 | 2030.6 | 2030.6 | 2030.6 | 2030.6 |
| 2.5° | 2016.9 | 2041.2 | 2023.1 | 2025.7 | 2029.3 |
| 5° | 2005.7 | 2033.1 | 2008.8 | 2009.1 | 2022.8 |
| 7.5° | 1991.4 | 2017.2 | 1986.7 | 1981.1 | 1993.9 |
| 10° | 1971.5 | 1997.3 | 1966.8 | 1956.2 | 1965.3 |
| 12.5° | 1945.4 | 1970.0 | 1940.7 | 1923.8 | 1931.7 |
| 15° | 1903.1 | 1919.8 | 1890.6 | 1872.1 | 1875.1 |
| 17.5° | 1857.1 | 1867.4 | 1825.3 | 1809.7 | 1806.7 |
| 20° | 1822.2 | 1831.4 | 1781.8 | 1760.0 | 1756.9 |
| 22.5° | 1777.5 | 1785.4 | 1733.3 | 1706.5 | 1702.2 |
| 25° | 1710.3 | 1711.8 | 1662.1 | 1624.6 | 1615.4 |
| 27.5° | 1640.0 | 1635.1 | 1580.0 | 1535.6 | 1523.7 |
| 30° | 1589.0 | 1582.9 | 1519.0 | 1472.2 | 1461.5 |
| 32.5° | 1534.3 | 1523.3 | 1459.3 | 1408.7 | 1398.1 |
| 35° | 1453.7 | 1437.0 | 1369.8 | 1316.6 | 1304.5 |
| 37.5° | 1367.9 | 1349.1 | 1283.0 | 1225.2 | 1211.5 |
| 40° | 1310.7 | 1289.4 | 1222.1 | 1164.2 | 1150.6 |
| 42.5° | 1253.5 | 1229.8 | 1161.1 | 1103.3 | 1088.4 |
| 45° | 1164.6 | 1140.2 | 1071.3 | 1014.9 | 999.7 |
| 47.5° | 1080.0 | 1049.0 | 982.0 | 926.0 | 910.8 |
| 50° | 1021.5 | 988.1 | 923.6 | 868.8 | 853.6 |
| 52.5° | 961.8 | 927.1 | 865.1 | 812.8 | 797.6 |
| 55° | 870.7 | 838.8 | 777.4 | 728.9 | 715.2 |
| 57.5° | 780.5 | 749.8 | 693.8 | 647.4 | 634.1 |
| 60° | 718.3 | 692.5 | 639.0 | 595.2 | 583.1 |
| 62.5° | 658.6 | 635.2 | 584.3 | 544.2 | 532.1 |
| 65° | 570.6 | 549.3 | 503.8 | 467.8 | 458.7 |
| 67.5° | 485.1 | 463.8 | 427.0 | 394.7 | 384.3 |
| 70° | 429.1 | 407.8 | 374.7 | 345.0 | 335.8 |
| 72.5° | 375.6 | 353.1 | 326.2 | 299.0 | 292.3 |
| 75° | 295.4 | 277.2 | 256.5 | 236.2 | 230.1 |
| 77.5° | 224.5 | 206.9 | 191.9 | 177.5 | 176.0 |
| 80° | 177.2 | 162.0 | 150.8 | 141.5 | 139.9 |
| 82.5° | 132.5 | 120.9 | 113.5 | 106.7 | 106.3 |
| 85° | 68.4 | 63.9 | 62.2 | 54.3 | 51.3 |
| 87.5° | 19.9 | 19.9 | 17.5 | 14.9 | 15.1 |
| 90° | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 |
| 92.5° | 8.1 | 7.0 | 6.6 | 4.3 | 5.0 |
| 95° | 32.3 | 28.3 | 26.9 | 20.8 | 20.8 |
| 97.5° | 60.9 | 57.0 | 54.9 | 48.6 | 47.3 |
| 100° | 81.3 | 77.4 | 75.3 | 68.5 | 67.2 |
| 102.5° | 102.3 | 100.5 | 96.8 | 89.5 | 88.2 |
| 105° | 135.8 | 133.8 | 130.4 | 123.0 | 121.7 |
| 107.5° | 170.2 | 170.6 | 165.5 | 159.4 | 157.6 |
| 110° | 195.0 | 194.3 | 190.3 | 184.2 | 182.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 220.2 | 219.1 | 215.0 | 208.9 | 207.6 |
| 115° | 258.2 | 257.5 | 252.8 | 245.4 | 244.7 |
| 117.5° | 294.2 | 296.3 | 290.7 | 282.9 | 282.6 |
| 120° | 320.0 | 322.7 | 316.0 | 309.2 | 307.9 |
| 122.5° | 345.3 | 348.5 | 341.8 | 334.0 | 334.3 |
| 125° | 383.9 | 387.8 | 379.9 | 371.8 | 372.5 |
| 127.5° | 421.1 | 426.0 | 418.6 | 410.4 | 411.2 |
| 130° | 446.4 | 452.3 | 444.4 | 435.7 | 437.0 |
| 132.5° | 472.2 | 478.1 | 470.2 | 461.0 | 463.4 |
| 135° | 511.6 | 517.5 | 508.9 | 499.6 | 502.9 |
| 137.5° | 548.7 | 554.7 | 545.2 | 537.4 | 541.3 |
| 140° | 573.5 | 579.4 | 569.4 | 562.1 | 566.1 |
| 142.5° | 597.7 | 604.7 | 594.2 | 586.4 | 591.4 |
| 145° | 634.0 | 641.2 | 631.3 | 624.0 | 628.6 |
| 147.5° | 668.4 | 675.6 | 665.6 | 658.6 | 663.3 |
| 150° | 690.5 | 697.7 | 687.1 | 681.2 | 686.4 |
| 152.5° | 710.9 | 719.2 | 708.1 | 702.2 | 709.0 |
| 155° | 741.6 | 748.8 | 738.2 | 733.6 | 739.5 |
| 157.5° | 768.2 | 776.6 | 766.0 | 762.1 | 766.8 |
| 160° | 785.9 | 793.8 | 783.2 | 779.3 | 784.6 |
| 162.5° | 799.4 | 807.8 | 797.8 | 793.3 | 799.6 |
| 165° | 819.5 | 828.1 | 817.5 | 813.0 | 820.2 |
| 167.5° | 835.4 | 844.5 | 833.8 | 829.1 | 836.5 |
| 170° | 845.1 | 853.6 | 842.4 | 837.2 | 845.1 |
| 172.5° | 851.6 | 860.6 | 848.9 | 843.6 | 848.9 |
| 175° | 858.5 | 867.7 | 856.5 | 851.2 | 853.2 |
| 177.5° | 861.9 | 869.3 | 860.3 | 855.6 | 861.9 |
| 180° | 861.9 | 861.9 | 861.9 | 861.9 | 861.9 |



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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 | 20.93 | 21.97 | 21.72 | 22.78 | 23.76 | 19.83 | 20.87 | 20.62 | 21.68 | 22.66 |
| | 3H | 22.59 | 23.52 | 23.39 | 24.34 | 25.35 | 21.37 | 22.30 | 22.17 | 23.12 | 24.13 |
| | 4H | 23.23 | 24.11 | 24.04 | 24.93 | 25.95 | 21.96 | 22.83 | 22.77 | 23.66 | 24.68 |
| | 6H | 23.64 | 24.45 | 24.47 | 25.28 | 26.32 | 22.34 | 23.15 | 23.16 | 23.98 | 25.02 |
| | 8H | 23.79 | 24.56 | 24.63 | 25.41 | 26.45 | 22.48 | 23.25 | 23.32 | 24.10 | 25.14 |
| | 12H | 23.87 | 24.61 | 24.72 | 25.45 | 26.52 | 22.55 | 23.28 | 23.39 | 24.13 | 25.19 |
| 4H | 2H | 21.36 | 22.24 | 22.18 | 23.07 | 24.09 | 20.49 | 21.37 | 21.31 | 22.19 | 23.22 |
| | 3H | 23.25 | 23.98 | 24.08 | 24.84 | 25.88 | 22.24 | 22.97 | 23.07 | 23.83 | 24.87 |
| | 4H | 24.00 | 24.67 | 24.85 | 25.52 | 26.59 | 22.92 | 23.59 | 23.77 | 24.44 | 25.51 |
| | 6H | 24.53 | 25.11 | 25.39 | 25.99 | 27.06 | 23.41 | 23.98 | 24.27 | 24.86 | 25.93 |
| | 8H | 24.74 | 25.28 | 25.60 | 26.15 | 27.24 | 23.60 | 24.14 | 24.46 | 25.01 | 26.10 |
| | 12H | 24.85 | 25.34 | 25.74 | 26.23 | 27.32 | 23.70 | 24.18 | 24.58 | 25.07 | 26.16 |
| 8H | 4H | 24.17 | 24.71 | 25.04 | 25.58 | 26.67 | 23.21 | 23.75 | 24.07 | 24.62 | 25.71 |
| | 6H | 24.82 | 25.27 | 25.71 | 26.18 | 27.27 | 23.82 | 24.26 | 24.71 | 25.18 | 26.27 |
| | 8H | 25.11 | 25.51 | 26.02 | 26.42 | 27.52 | 24.10 | 24.49 | 25.00 | 25.40 | 26.50 |
| | 12H | 25.29 | 25.64 | 26.20 | 26.54 | 27.70 | 24.25 | 24.60 | 25.16 | 25.50 | 26.66 |
| 12H | 4H | 24.16 | 24.64 | 25.04 | 25.54 | 26.63 | 23.22 | 23.70 | 24.10 | 24.60 | 25.69 |
| | 6H | 24.85 | 25.25 | 25.75 | 26.16 | 27.26 | 23.88 | 24.28 | 24.79 | 25.19 | 26.29 |
| | 8H | 25.18 | 25.52 | 26.08 | 26.42 | 27.58 | 24.20 | 24.55 | 25.10 | 25.45 | 26.60 |