

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: P824197

Luminaire Tested: CB2-D-055U-085D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824197
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-085D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5599.1 lumens
Efficiency: N/A
Efficacy: 124.7 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

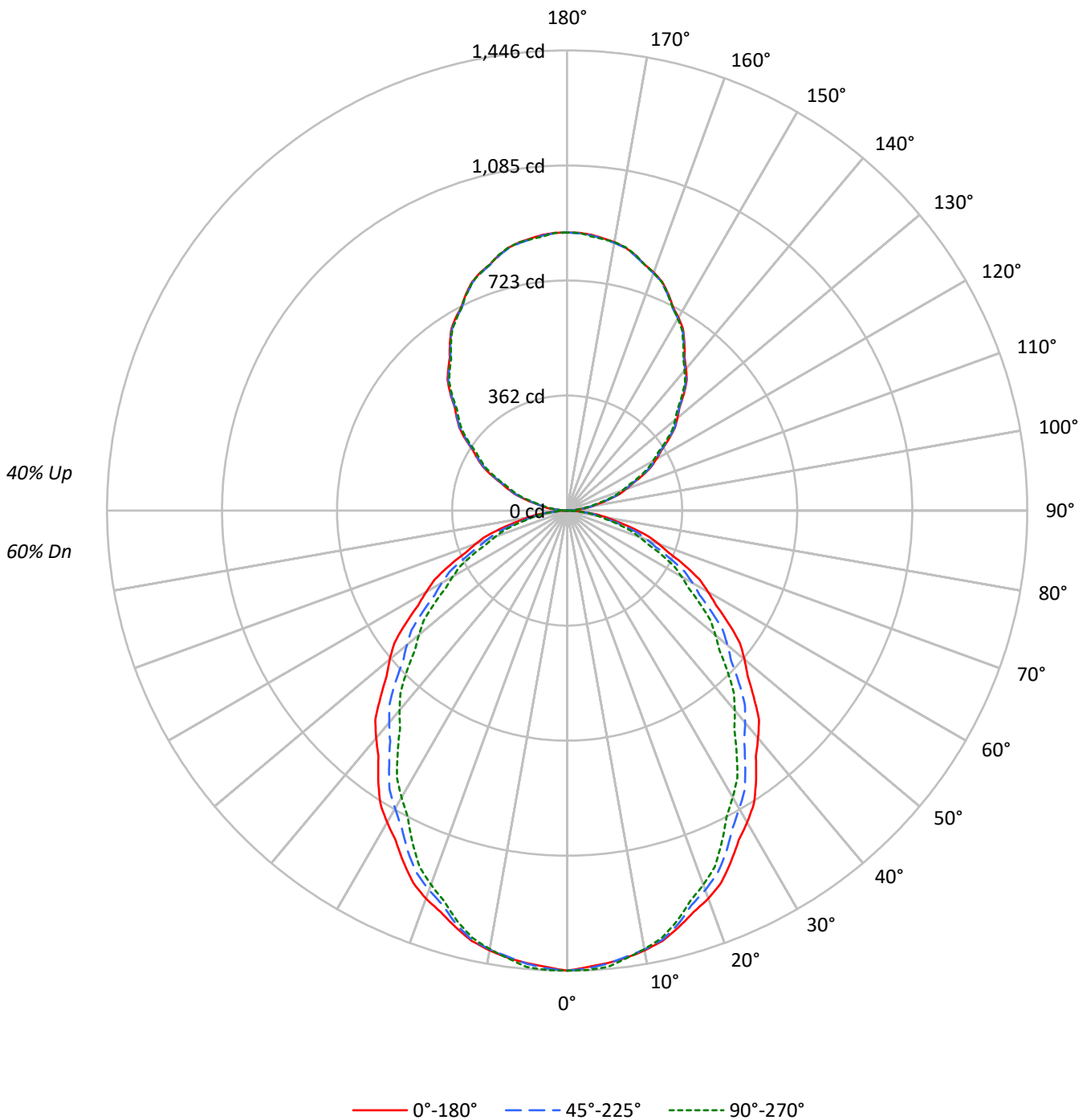
Input Watts (W): 44.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | 77 | 77 | 77 | 65 | 65 | 65 | 60 |
| 1 | 100 | 96 | 92 | 89 | 94 | 90 | 87 | 83 | 78 | 76 | 74 | 68 | 66 | 64 | 58 | 57 | 56 | 51 |
| 2 | 92 | 84 | 78 | 73 | 85 | 79 | 73 | 69 | 69 | 65 | 61 | 60 | 57 | 54 | 52 | 49 | 47 | 43 |
| 3 | 84 | 74 | 67 | 61 | 78 | 70 | 63 | 58 | 61 | 56 | 52 | 53 | 49 | 46 | 46 | 43 | 41 | 37 |
| 4 | 77 | 66 | 58 | 52 | 71 | 62 | 55 | 49 | 54 | 49 | 44 | 48 | 43 | 40 | 41 | 38 | 35 | 32 |
| 5 | 71 | 59 | 51 | 45 | 66 | 55 | 48 | 43 | 49 | 43 | 39 | 43 | 38 | 35 | 37 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 44 | 38 | 34 | 39 | 34 | 30 | 34 | 30 | 27 | 25 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 31 | 27 | 31 | 27 | 24 | 22 |
| 8 | 56 | 44 | 36 | 30 | 52 | 41 | 34 | 29 | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 23 | 20 | 18 |
| 10 | 49 | 37 | 29 | 25 | 46 | 35 | 28 | 24 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 25180 | 25180 | 25180 |
| 5° | 24967 | 25005 | 25180 |
| 10° | 24824 | 24766 | 24746 |
| 15° | 24431 | 24273 | 24072 |
| 20° | 24047 | 23514 | 23186 |
| 25° | 23402 | 22741 | 22103 |
| 30° | 22752 | 21751 | 20926 |
| 35° | 22007 | 20735 | 19747 |
| 40° | 21218 | 19783 | 18626 |
| 45° | 20422 | 18787 | 17533 |
| 50° | 19707 | 17816 | 16467 |
| 55° | 18824 | 16808 | 15462 |
| 60° | 17814 | 15850 | 14460 |
| 65° | 16745 | 14783 | 13460 |
| 70° | 15558 | 13587 | 12176 |
| 75° | 14152 | 12288 | 11023 |
| 80° | 12658 | 10772 | 9990 |
| 85° | 9732 | 8853 | 7294 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20422 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.0 | 2.4 |
| 10°-20° | 379.0 | 6.8 |
| 20°-30° | 544.9 | 9.7 |
| 30°-40° | 612.5 | 10.9 |
| 40°-50° | 591.6 | 10.6 |
| 50°-60° | 499.9 | 8.9 |
| 60°-70° | 359.1 | 6.4 |
| 70°-80° | 196.2 | 3.5 |
| 80°-90° | 52.2 | 0.9 |
| 90°-100° | 33.7 | 0.6 |
| 100°-110° | 139.2 | 2.5 |
| 110°-120° | 252.6 | 4.5 |
| 120°-130° | 343.8 | 6.1 |
| 130°-140° | 396.9 | 7.1 |
| 140°-150° | 400.0 | 7.1 |
| 150°-160° | 345.2 | 6.2 |
| 160°-170° | 233.9 | 4.2 |
| 170°-180° | 82.5 | 1.5 |
| 0°-30° | 1059.8 | 18.9 |
| 0°-40° | 1672.3 | 29.9 |
| 0°-60° | 2763.8 | 49.4 |
| 0°-90° | 3371.3 | 60.2 |
| 90°-120° | 425.6 | 7.6 |
| 90°-150° | 1566.2 | 28.0 |
| 90°-180° | 2228.0 | 39.8 |
| 0°-180° | 5599.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1446 | 1446 | 1446 | 1446 | 1446 | |
| 5° | 1428 | 1448 | 1430 | 1430 | 1440 | 136 |
| 15° | 1355 | 1367 | 1346 | 1333 | 1335 | 382 |
| 25° | 1218 | 1219 | 1183 | 1157 | 1150 | 561 |
| 35° | 1035 | 1023 | 975 | 937 | 929 | 647 |
| 45° | 829 | 812 | 763 | 723 | 712 | 641 |
| 55° | 620 | 597 | 554 | 519 | 509 | 554 |
| 65° | 406 | 391 | 359 | 333 | 327 | 403 |
| 75° | 210 | 197 | 183 | 168 | 164 | 225 |
| 85° | 49 | 46 | 44 | 39 | 36 | 58 |
| 90° | 0 | 0 | 1 | 0 | 1 | 3 |
| 95° | 33 | 29 | 27 | 21 | 21 | 38 |
| 105° | 138 | 136 | 132 | 125 | 123 | 146 |
| 115° | 262 | 261 | 256 | 249 | 248 | 258 |
| 125° | 389 | 393 | 385 | 377 | 378 | 347 |
| 135° | 518 | 524 | 516 | 506 | 510 | 399 |
| 145° | 643 | 650 | 640 | 632 | 637 | 401 |
| 155° | 752 | 759 | 748 | 744 | 750 | 346 |
| 165° | 831 | 839 | 829 | 824 | 831 | 234 |
| 175° | 870 | 880 | 868 | 863 | 865 | 83 |
| 180° | 874 | 874 | 874 | 874 | 874 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1445.7 | 1445.7 | 1445.7 | 1445.7 | 1445.7 |
| 2.5° | 1436.0 | 1453.3 | 1440.4 | 1442.2 | 1444.8 |
| 5° | 1428.0 | 1447.5 | 1430.2 | 1430.4 | 1440.2 |
| 7.5° | 1417.8 | 1436.2 | 1414.5 | 1410.5 | 1419.6 |
| 10° | 1403.6 | 1422.0 | 1400.3 | 1392.7 | 1399.2 |
| 12.5° | 1385.0 | 1402.6 | 1381.7 | 1369.7 | 1375.3 |
| 15° | 1354.9 | 1366.8 | 1346.1 | 1332.8 | 1335.0 |
| 17.5° | 1322.2 | 1329.5 | 1299.6 | 1288.5 | 1286.3 |
| 20° | 1297.4 | 1303.9 | 1268.6 | 1253.0 | 1250.9 |
| 22.5° | 1265.5 | 1271.1 | 1234.0 | 1214.9 | 1211.9 |
| 25° | 1217.7 | 1218.7 | 1183.3 | 1156.6 | 1150.1 |
| 27.5° | 1167.6 | 1164.2 | 1124.9 | 1093.3 | 1084.8 |
| 30° | 1131.3 | 1127.0 | 1081.5 | 1048.1 | 1040.5 |
| 32.5° | 1092.3 | 1084.6 | 1039.0 | 1003.0 | 995.4 |
| 35° | 1035.0 | 1023.1 | 975.2 | 937.4 | 928.7 |
| 37.5° | 973.9 | 960.5 | 913.5 | 872.3 | 862.5 |
| 40° | 933.2 | 918.0 | 870.1 | 828.9 | 819.2 |
| 42.5° | 892.4 | 875.5 | 826.7 | 785.5 | 774.9 |
| 45° | 829.1 | 811.8 | 762.7 | 722.6 | 711.8 |
| 47.5° | 768.9 | 746.8 | 699.2 | 659.3 | 648.5 |
| 50° | 727.3 | 703.5 | 657.5 | 618.5 | 607.7 |
| 52.5° | 684.8 | 660.1 | 615.9 | 578.7 | 567.9 |
| 55° | 619.9 | 597.2 | 553.5 | 518.9 | 509.2 |
| 57.5° | 555.7 | 533.8 | 493.9 | 460.9 | 451.4 |
| 60° | 511.4 | 493.0 | 455.0 | 423.8 | 415.1 |
| 62.5° | 468.9 | 452.2 | 416.0 | 387.5 | 378.8 |
| 65° | 406.3 | 391.1 | 358.7 | 333.0 | 326.6 |
| 67.5° | 345.4 | 330.2 | 304.0 | 281.0 | 273.6 |
| 70° | 305.5 | 290.4 | 266.8 | 245.6 | 239.1 |
| 72.5° | 267.4 | 251.4 | 232.2 | 212.9 | 208.1 |
| 75° | 210.3 | 197.3 | 182.6 | 168.2 | 163.8 |
| 77.5° | 159.8 | 147.3 | 136.6 | 126.4 | 125.3 |
| 80° | 126.2 | 115.4 | 107.4 | 100.7 | 99.6 |
| 82.5° | 94.3 | 86.1 | 80.8 | 75.9 | 75.7 |
| 85° | 48.7 | 45.5 | 44.3 | 38.7 | 36.5 |
| 87.5° | 14.2 | 14.2 | 12.5 | 10.6 | 10.8 |
| 90° | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 |
| 92.5° | 8.2 | 7.1 | 6.7 | 4.4 | 5.0 |
| 95° | 32.7 | 28.7 | 27.3 | 21.1 | 21.1 |
| 97.5° | 61.7 | 57.7 | 55.6 | 49.3 | 48.0 |
| 100° | 82.4 | 78.5 | 76.3 | 69.5 | 68.1 |
| 102.5° | 103.7 | 101.8 | 98.1 | 90.7 | 89.4 |
| 105° | 137.6 | 135.6 | 132.2 | 124.7 | 123.3 |
| 107.5° | 172.5 | 172.9 | 167.8 | 161.6 | 159.7 |
| 110° | 197.6 | 196.9 | 192.8 | 186.7 | 185.3 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 223.2 | 222.0 | 217.9 | 211.7 | 210.4 |
| 115° | 261.7 | 261.0 | 256.2 | 248.7 | 248.0 |
| 117.5° | 298.2 | 300.3 | 294.6 | 286.7 | 286.5 |
| 120° | 324.3 | 327.0 | 320.3 | 313.4 | 312.1 |
| 122.5° | 350.0 | 353.2 | 346.4 | 338.5 | 338.8 |
| 125° | 389.1 | 393.1 | 385.0 | 376.8 | 377.5 |
| 127.5° | 426.8 | 431.8 | 424.2 | 415.9 | 416.7 |
| 130° | 452.4 | 458.4 | 450.4 | 441.6 | 442.9 |
| 132.5° | 478.6 | 484.6 | 476.6 | 467.2 | 469.6 |
| 135° | 518.5 | 524.5 | 515.8 | 506.4 | 509.7 |
| 137.5° | 556.2 | 562.2 | 552.6 | 544.7 | 548.7 |
| 140° | 581.2 | 587.2 | 577.1 | 569.7 | 573.7 |
| 142.5° | 605.8 | 612.8 | 602.2 | 594.3 | 599.4 |
| 145° | 642.6 | 649.9 | 639.8 | 632.4 | 637.1 |
| 147.5° | 677.4 | 684.8 | 674.6 | 667.5 | 672.3 |
| 150° | 699.8 | 707.1 | 696.4 | 690.4 | 695.7 |
| 152.5° | 720.5 | 728.9 | 717.6 | 711.7 | 718.6 |
| 155° | 751.6 | 758.9 | 748.2 | 743.5 | 749.5 |
| 157.5° | 778.6 | 787.1 | 776.4 | 772.4 | 777.2 |
| 160° | 796.6 | 804.5 | 793.8 | 789.9 | 795.2 |
| 162.5° | 810.2 | 818.7 | 808.5 | 804.1 | 810.5 |
| 165° | 830.6 | 839.3 | 828.6 | 824.0 | 831.3 |
| 167.5° | 846.7 | 855.9 | 845.1 | 840.3 | 847.8 |
| 170° | 856.5 | 865.2 | 853.8 | 848.5 | 856.5 |
| 172.5° | 863.1 | 872.3 | 860.3 | 855.0 | 860.3 |
| 175° | 870.1 | 879.5 | 868.1 | 862.7 | 864.7 |
| 177.5° | 873.5 | 881.0 | 871.9 | 867.2 | 873.5 |
| 180° | 873.5 | 873.5 | 873.5 | 873.5 | 873.5 |



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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 | 19.10 | 20.05 | 19.97 | 20.94 | 22.06 | 18.00 | 18.95 | 18.87 | 19.84 | 20.96 |
| | 3H | 20.76 | 21.60 | 21.64 | 22.50 | 23.65 | 19.54 | 20.39 | 20.42 | 21.28 | 22.43 |
| | 4H | 21.39 | 22.19 | 22.28 | 23.09 | 24.25 | 20.12 | 20.92 | 21.01 | 21.82 | 22.97 |
| | 6H | 21.80 | 22.53 | 22.70 | 23.44 | 24.61 | 20.49 | 21.23 | 21.40 | 22.14 | 23.31 |
| | 8H | 21.95 | 22.65 | 22.86 | 23.58 | 24.74 | 20.63 | 21.34 | 21.55 | 22.26 | 23.43 |
| | 12H | 22.02 | 22.69 | 22.94 | 23.61 | 24.80 | 20.70 | 21.37 | 21.62 | 22.29 | 23.48 |
| 4H | 2H | 19.52 | 20.33 | 20.42 | 21.23 | 22.38 | 18.65 | 19.45 | 19.55 | 20.35 | 21.51 |
| | 3H | 21.40 | 22.07 | 22.31 | 23.00 | 24.17 | 20.39 | 21.06 | 21.30 | 21.99 | 23.16 |
| | 4H | 22.15 | 22.76 | 23.07 | 23.69 | 24.88 | 21.07 | 21.68 | 21.99 | 22.61 | 23.80 |
| | 6H | 22.67 | 23.20 | 23.61 | 24.15 | 25.35 | 21.55 | 22.07 | 22.48 | 23.03 | 24.22 |
| | 8H | 22.88 | 23.37 | 23.82 | 24.32 | 25.53 | 21.74 | 22.23 | 22.68 | 23.18 | 24.39 |
| | 12H | 22.99 | 23.43 | 23.95 | 24.40 | 25.61 | 21.83 | 22.28 | 22.79 | 23.24 | 24.45 |
| 8H | 4H | 22.31 | 22.80 | 23.25 | 23.75 | 24.96 | 21.35 | 21.84 | 22.29 | 22.79 | 24.00 |
| | 6H | 22.96 | 23.36 | 23.92 | 24.35 | 25.56 | 21.96 | 22.36 | 22.92 | 23.35 | 24.56 |
| | 8H | 23.25 | 23.61 | 24.22 | 24.59 | 25.81 | 22.23 | 22.59 | 23.21 | 23.57 | 24.80 |
| | 12H | 23.43 | 23.74 | 24.40 | 24.72 | 25.99 | 22.39 | 22.70 | 23.36 | 23.67 | 24.95 |
| 12H | 4H | 22.30 | 22.74 | 23.25 | 23.70 | 24.92 | 21.36 | 21.80 | 22.31 | 22.76 | 23.98 |
| | 6H | 22.99 | 23.35 | 23.96 | 24.33 | 25.55 | 22.02 | 22.38 | 22.99 | 23.36 | 24.58 |
| | 8H | 23.31 | 23.63 | 24.29 | 24.60 | 25.87 | 22.33 | 22.65 | 23.31 | 23.62 | 24.89 |