

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: P824178

Luminaire Tested: CB2-D-030U-055D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824178
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-030U-055D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3082.1 lumens
Efficiency: N/A
Efficacy: 115.0 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

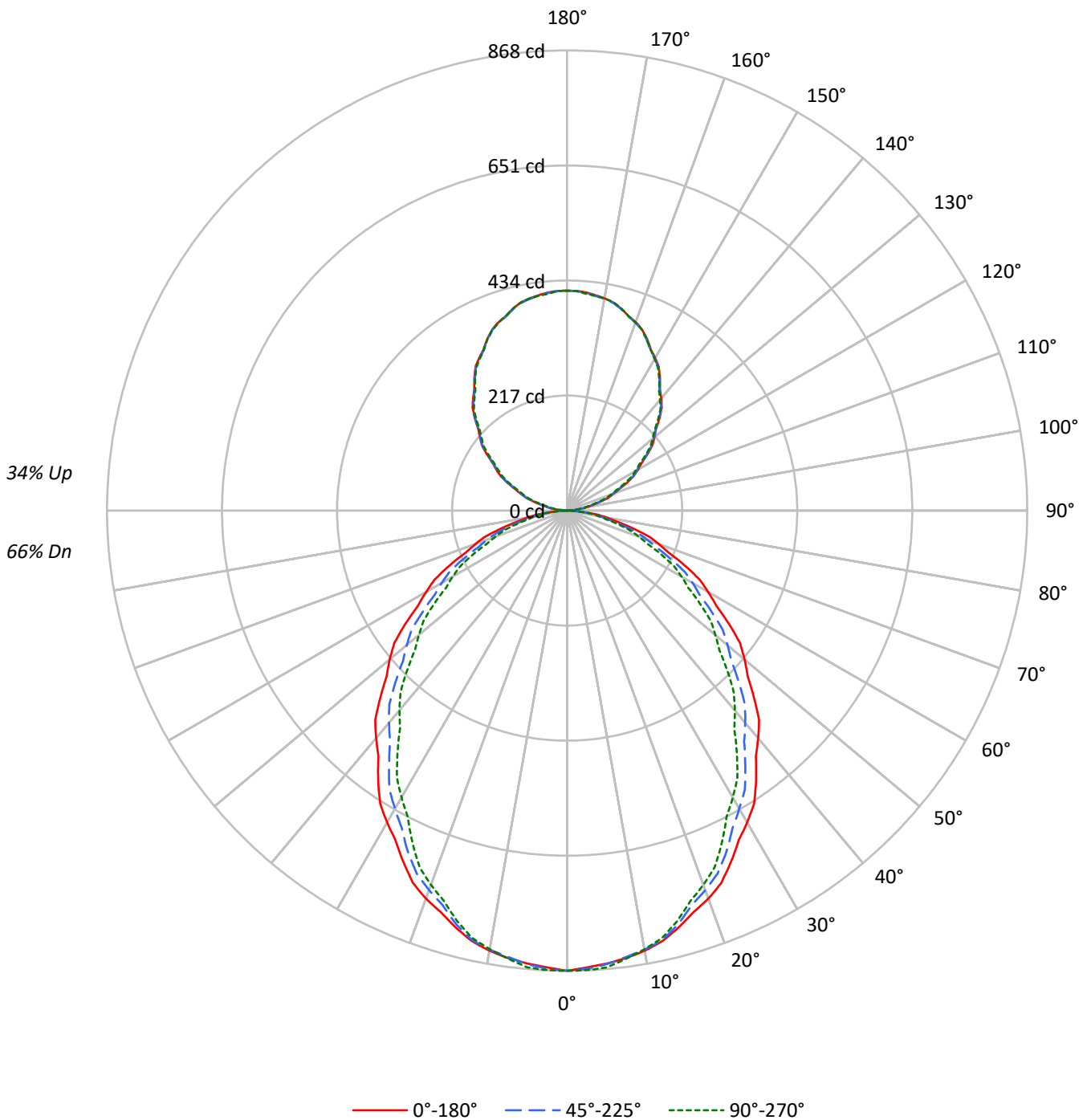
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 81 | 81 | 81 | 71 | 71 | 71 | 66 |
| 1 | 102 | 97 | 93 | 90 | 95 | 92 | 88 | 85 | 81 | 79 | 76 | 72 | 70 | 68 | 63 | 61 | 60 | 56 |
| 2 | 93 | 85 | 79 | 74 | 87 | 80 | 75 | 70 | 71 | 67 | 64 | 63 | 60 | 57 | 55 | 53 | 51 | 47 |
| 3 | 85 | 75 | 68 | 62 | 79 | 71 | 64 | 59 | 63 | 58 | 54 | 56 | 52 | 49 | 49 | 46 | 44 | 40 |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 50 | 56 | 51 | 46 | 50 | 46 | 42 | 44 | 41 | 38 | 35 |
| 5 | 71 | 60 | 51 | 45 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 45 | 40 | 37 | 40 | 36 | 33 | 30 |
| 6 | 66 | 54 | 46 | 40 | 62 | 51 | 44 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 29 | 27 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 37 | 32 | 29 | 33 | 29 | 26 | 24 |
| 8 | 57 | 44 | 37 | 31 | 54 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 31 | 27 | 24 | 21 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 28 | 24 | 21 | 19 |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 27 | 23 | 29 | 25 | 21 | 26 | 22 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15120 | 15120 | 15120 |
| 5° | 14992 | 15015 | 15120 |
| 10° | 14908 | 14872 | 14860 |
| 15° | 14671 | 14575 | 14454 |
| 20° | 14439 | 14120 | 13922 |
| 25° | 14052 | 13656 | 13272 |
| 30° | 13662 | 13061 | 12566 |
| 35° | 13215 | 12451 | 11858 |
| 40° | 12742 | 11880 | 11184 |
| 45° | 12264 | 11281 | 10528 |
| 50° | 11833 | 10698 | 9888 |
| 55° | 11302 | 10094 | 9286 |
| 60° | 10698 | 9517 | 8684 |
| 65° | 10056 | 8877 | 8082 |
| 70° | 9345 | 8158 | 7313 |
| 75° | 8499 | 7382 | 6622 |
| 80° | 7603 | 6470 | 5998 |
| 85° | 5835 | 5316 | 4377 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12264 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.6 | 2.6 |
| 10°-20° | 227.6 | 7.4 |
| 20°-30° | 327.2 | 10.6 |
| 30°-40° | 367.8 | 11.9 |
| 40°-50° | 355.3 | 11.5 |
| 50°-60° | 300.2 | 9.7 |
| 60°-70° | 215.6 | 7.0 |
| 70°-80° | 117.8 | 3.8 |
| 80°-90° | 31.3 | 1.0 |
| 90°-100° | 16.0 | 0.5 |
| 100°-110° | 66.1 | 2.1 |
| 110°-120° | 120.0 | 3.9 |
| 120°-130° | 163.2 | 5.3 |
| 130°-140° | 188.4 | 6.1 |
| 140°-150° | 189.9 | 6.2 |
| 150°-160° | 163.9 | 5.3 |
| 160°-170° | 111.1 | 3.6 |
| 170°-180° | 39.2 | 1.3 |
| 0°-30° | 636.4 | 20.6 |
| 0°-40° | 1004.2 | 32.6 |
| 0°-60° | 1659.6 | 53.8 |
| 0°-90° | 2024.4 | 65.7 |
| 90°-120° | 202.1 | 6.6 |
| 90°-150° | 743.6 | 24.1 |
| 90°-180° | 1058.0 | 34.3 |
| 0°-180° | 3082.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 868 | 868 | 868 | 868 | 868 | |
| 5° | 858 | 869 | 859 | 859 | 865 | 81 |
| 15° | 814 | 821 | 808 | 800 | 802 | 229 |
| 25° | 731 | 732 | 711 | 694 | 691 | 337 |
| 35° | 622 | 614 | 586 | 563 | 558 | 388 |
| 45° | 498 | 488 | 458 | 434 | 427 | 385 |
| 55° | 372 | 359 | 332 | 312 | 306 | 333 |
| 65° | 244 | 235 | 215 | 200 | 196 | 242 |
| 75° | 126 | 118 | 110 | 101 | 98 | 135 |
| 85° | 29 | 27 | 27 | 23 | 22 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 16 | 14 | 13 | 10 | 10 | 18 |
| 105° | 65 | 64 | 63 | 59 | 59 | 69 |
| 115° | 124 | 124 | 122 | 118 | 118 | 123 |
| 125° | 185 | 187 | 183 | 179 | 179 | 165 |
| 135° | 246 | 249 | 245 | 240 | 242 | 190 |
| 145° | 305 | 309 | 304 | 300 | 302 | 191 |
| 155° | 357 | 360 | 355 | 353 | 356 | 164 |
| 165° | 394 | 398 | 393 | 391 | 395 | 111 |
| 175° | 413 | 418 | 412 | 410 | 410 | 39 |
| 180° | 415 | 415 | 415 | 415 | 415 | |



TEST NUMBER: P824178

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 868.1 | 868.1 | 868.1 | 868.1 | 868.1 |
| 2.5° | 862.3 | 872.7 | 864.9 | 866.0 | 867.6 |
| 5° | 857.5 | 869.2 | 858.8 | 858.9 | 864.8 |
| 7.5° | 851.4 | 862.4 | 849.4 | 847.0 | 852.4 |
| 10° | 842.9 | 853.9 | 840.9 | 836.3 | 840.2 |
| 12.5° | 831.7 | 842.2 | 829.7 | 822.5 | 825.8 |
| 15° | 813.6 | 820.8 | 808.3 | 800.3 | 801.6 |
| 17.5° | 793.9 | 798.4 | 780.4 | 773.7 | 772.4 |
| 20° | 779.0 | 782.9 | 761.8 | 752.4 | 751.1 |
| 22.5° | 759.9 | 763.3 | 741.0 | 729.6 | 727.7 |
| 25° | 731.2 | 731.8 | 710.6 | 694.5 | 690.6 |
| 27.5° | 701.1 | 699.1 | 675.5 | 656.5 | 651.4 |
| 30° | 679.3 | 676.7 | 649.4 | 629.4 | 624.8 |
| 32.5° | 655.9 | 651.3 | 623.9 | 602.3 | 597.7 |
| 35° | 621.5 | 614.4 | 585.6 | 562.9 | 557.7 |
| 37.5° | 584.8 | 576.8 | 548.5 | 523.8 | 517.9 |
| 40° | 560.4 | 551.3 | 522.5 | 497.7 | 491.9 |
| 42.5° | 535.9 | 525.8 | 496.4 | 471.7 | 465.3 |
| 45° | 497.9 | 487.5 | 458.0 | 433.9 | 427.4 |
| 47.5° | 461.7 | 448.5 | 419.8 | 395.9 | 389.4 |
| 50° | 436.7 | 422.4 | 394.8 | 371.4 | 364.9 |
| 52.5° | 411.2 | 396.4 | 369.8 | 347.5 | 341.0 |
| 55° | 372.2 | 358.6 | 332.4 | 311.6 | 305.8 |
| 57.5° | 333.7 | 320.6 | 296.6 | 276.8 | 271.1 |
| 60° | 307.1 | 296.0 | 273.2 | 254.5 | 249.3 |
| 62.5° | 281.6 | 271.6 | 249.8 | 232.7 | 227.5 |
| 65° | 244.0 | 234.9 | 215.4 | 200.0 | 196.1 |
| 67.5° | 207.4 | 198.3 | 182.5 | 168.7 | 164.3 |
| 70° | 183.5 | 174.4 | 160.2 | 147.5 | 143.6 |
| 72.5° | 160.6 | 151.0 | 139.5 | 127.8 | 125.0 |
| 75° | 126.3 | 118.5 | 109.7 | 101.0 | 98.4 |
| 77.5° | 96.0 | 88.4 | 82.0 | 75.9 | 75.2 |
| 80° | 75.8 | 69.3 | 64.5 | 60.5 | 59.8 |
| 82.5° | 56.6 | 51.7 | 48.5 | 45.6 | 45.5 |
| 85° | 29.2 | 27.3 | 26.6 | 23.2 | 21.9 |
| 87.5° | 8.5 | 8.5 | 7.5 | 6.4 | 6.4 |
| 90° | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| 92.5° | 3.9 | 3.4 | 3.2 | 2.1 | 2.4 |
| 95° | 15.5 | 13.6 | 12.9 | 10.0 | 10.0 |
| 97.5° | 29.3 | 27.4 | 26.4 | 23.4 | 22.8 |
| 100° | 39.1 | 37.2 | 36.2 | 33.0 | 32.4 |
| 102.5° | 49.2 | 48.4 | 46.6 | 43.1 | 42.4 |
| 105° | 65.3 | 64.4 | 62.8 | 59.2 | 58.6 |
| 107.5° | 81.9 | 82.1 | 79.6 | 76.7 | 75.8 |
| 110° | 93.8 | 93.5 | 91.6 | 88.6 | 88.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 106.0 | 105.4 | 103.5 | 100.5 | 99.9 |
| 115° | 124.2 | 123.9 | 121.6 | 118.1 | 117.8 |
| 117.5° | 141.6 | 142.6 | 139.9 | 136.1 | 136.0 |
| 120° | 154.0 | 155.3 | 152.1 | 148.8 | 148.2 |
| 122.5° | 166.2 | 167.7 | 164.5 | 160.7 | 160.9 |
| 125° | 184.7 | 186.6 | 182.8 | 178.9 | 179.2 |
| 127.5° | 202.6 | 205.0 | 201.4 | 197.5 | 197.9 |
| 130° | 214.8 | 217.7 | 213.8 | 209.7 | 210.3 |
| 132.5° | 227.2 | 230.1 | 226.3 | 221.8 | 223.0 |
| 135° | 246.2 | 249.0 | 244.9 | 240.4 | 242.0 |
| 137.5° | 264.1 | 266.9 | 262.4 | 258.6 | 260.5 |
| 140° | 276.0 | 278.8 | 274.0 | 270.5 | 272.4 |
| 142.5° | 287.6 | 291.0 | 285.9 | 282.2 | 284.6 |
| 145° | 305.1 | 308.6 | 303.8 | 300.3 | 302.5 |
| 147.5° | 321.6 | 325.1 | 320.3 | 316.9 | 319.2 |
| 150° | 332.2 | 335.7 | 330.6 | 327.8 | 330.3 |
| 152.5° | 342.1 | 346.1 | 340.7 | 337.9 | 341.2 |
| 155° | 356.8 | 360.3 | 355.2 | 353.0 | 355.9 |
| 157.5° | 369.6 | 373.7 | 368.6 | 366.7 | 369.0 |
| 160° | 378.2 | 382.0 | 376.9 | 375.0 | 377.5 |
| 162.5° | 384.7 | 388.7 | 383.9 | 381.7 | 384.8 |
| 165° | 394.4 | 398.5 | 393.4 | 391.2 | 394.7 |
| 167.5° | 402.0 | 406.4 | 401.2 | 399.0 | 402.5 |
| 170° | 406.7 | 410.8 | 405.4 | 402.9 | 406.7 |
| 172.5° | 409.8 | 414.1 | 408.5 | 405.9 | 408.5 |
| 175° | 413.1 | 417.6 | 412.2 | 409.6 | 410.5 |
| 177.5° | 414.7 | 418.3 | 414.0 | 411.7 | 414.7 |
| 180° | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 |

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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 | 17.78 | 18.78 | 18.59 | 19.62 | 20.65 | 16.68 | 17.68 | 17.49 | 18.52 | 19.55 |
| | 3H | 19.43 | 20.34 | 20.26 | 21.18 | 22.24 | 18.22 | 19.12 | 19.04 | 19.96 | 21.02 |
| | 4H | 20.07 | 20.92 | 20.91 | 21.77 | 22.84 | 18.80 | 19.65 | 19.64 | 20.50 | 21.57 |
| | 6H | 20.48 | 21.26 | 21.33 | 22.12 | 23.20 | 19.17 | 19.96 | 20.03 | 20.82 | 21.90 |
| | 8H | 20.63 | 21.38 | 21.49 | 22.25 | 23.34 | 19.32 | 20.07 | 20.18 | 20.94 | 22.02 |
| | 12H | 20.71 | 21.42 | 21.58 | 22.29 | 23.40 | 19.39 | 20.10 | 20.25 | 20.97 | 22.08 |
| 4H | 2H | 18.20 | 19.06 | 19.05 | 19.91 | 20.97 | 17.33 | 18.18 | 18.18 | 19.03 | 20.10 |
| | 3H | 20.09 | 20.80 | 20.94 | 21.68 | 22.76 | 19.08 | 19.79 | 19.93 | 20.67 | 21.75 |
| | 4H | 20.84 | 21.48 | 21.71 | 22.36 | 23.47 | 19.76 | 20.40 | 20.63 | 21.28 | 22.39 |
| | 6H | 21.37 | 21.92 | 22.25 | 22.83 | 23.94 | 20.24 | 20.80 | 21.13 | 21.70 | 22.82 |
| | 8H | 21.57 | 22.09 | 22.46 | 22.99 | 24.12 | 20.43 | 20.95 | 21.32 | 21.85 | 22.98 |
| | 12H | 21.69 | 22.16 | 22.59 | 23.07 | 24.21 | 20.53 | 21.00 | 21.44 | 21.91 | 23.05 |
| 8H | 4H | 21.01 | 21.53 | 21.89 | 22.43 | 23.55 | 20.04 | 20.56 | 20.93 | 21.46 | 22.59 |
| | 6H | 21.65 | 22.08 | 22.57 | 23.02 | 24.15 | 20.65 | 21.08 | 21.57 | 22.02 | 23.15 |
| | 8H | 21.94 | 22.33 | 22.87 | 23.26 | 24.40 | 20.93 | 21.31 | 21.85 | 22.24 | 23.39 |
| | 12H | 22.12 | 22.46 | 23.05 | 23.39 | 24.58 | 21.08 | 21.42 | 22.01 | 22.35 | 23.54 |
| 12H | 4H | 20.99 | 21.46 | 21.90 | 22.38 | 23.51 | 20.05 | 20.52 | 20.96 | 21.44 | 22.57 |
| | 6H | 21.68 | 22.07 | 22.61 | 23.00 | 24.14 | 20.71 | 21.10 | 21.64 | 22.03 | 23.17 |
| | 8H | 22.01 | 22.34 | 22.94 | 23.27 | 24.46 | 21.03 | 21.36 | 21.96 | 22.29 | 23.49 |