

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: P824286

Luminaire Tested: CB3-D-055U-030D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824286
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-D-055U-030D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 550 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3101.6 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Semi-Indirect

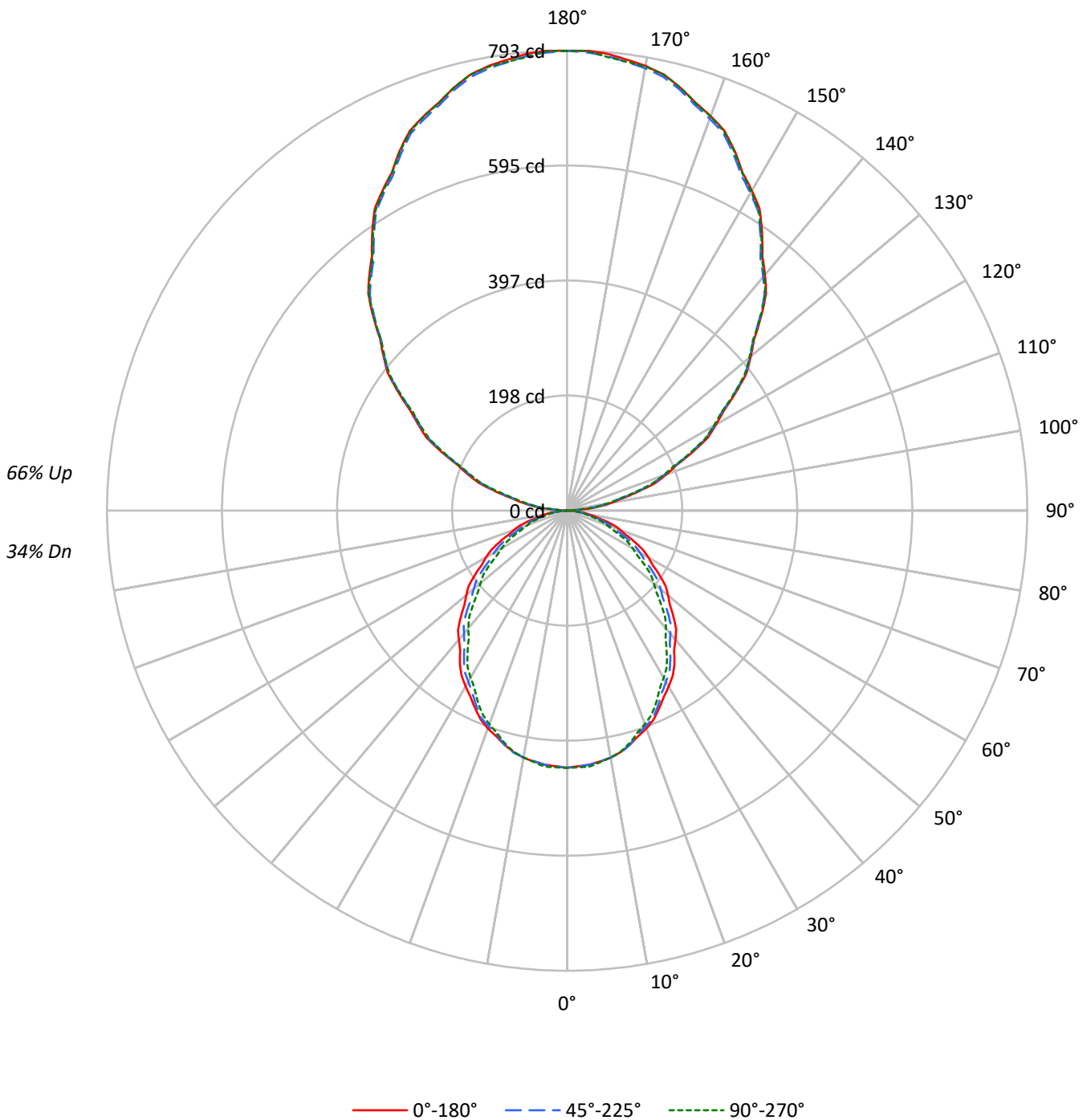
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 57 | 57 | 57 | 42 | 42 | 42 | 34 |
| 1 | 94 | 90 | 86 | 83 | 85 | 82 | 78 | 76 | 65 | 63 | 61 | 51 | 49 | 48 | 37 | 36 | 35 | 29 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 54 | 51 | 45 | 42 | 40 | 33 | 31 | 30 | 25 |
| 3 | 78 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 51 | 46 | 43 | 39 | 37 | 34 | 29 | 27 | 26 | 21 |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 45 | 40 | 37 | 35 | 32 | 29 | 26 | 24 | 22 | 18 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 32 | 32 | 28 | 25 | 23 | 21 | 19 | 16 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 36 | 31 | 27 | 29 | 25 | 22 | 21 | 19 | 17 | 14 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 33 | 28 | 24 | 26 | 22 | 20 | 19 | 17 | 15 | 12 |
| 8 | 52 | 40 | 32 | 27 | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 14 | 11 |
| 9 | 48 | 36 | 29 | 24 | 44 | 33 | 27 | 23 | 27 | 22 | 19 | 22 | 18 | 16 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5015 | 5015 | 5015 |
| 5° | 4991 | 4994 | 5029 |
| 10° | 4969 | 4962 | 4962 |
| 15° | 4893 | 4893 | 4864 |
| 20° | 4814 | 4765 | 4716 |
| 25° | 4685 | 4627 | 4544 |
| 30° | 4571 | 4451 | 4345 |
| 35° | 4450 | 4285 | 4133 |
| 40° | 4289 | 4085 | 3910 |
| 45° | 4144 | 3907 | 3666 |
| 50° | 3994 | 3696 | 3431 |
| 55° | 3833 | 3492 | 3206 |
| 60° | 3657 | 3279 | 2951 |
| 65° | 3451 | 3039 | 2685 |
| 70° | 3212 | 2756 | 2392 |
| 75° | 2911 | 2418 | 2129 |
| 80° | 2541 | 2026 | 1883 |
| 85° | 1960 | 1714 | 1714 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4144 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.8 | 1.3 |
| 10°-20° | 117.5 | 3.8 |
| 20°-30° | 170.5 | 5.5 |
| 30°-40° | 193.8 | 6.2 |
| 40°-50° | 188.1 | 6.1 |
| 50°-60° | 158.8 | 5.1 |
| 60°-70° | 113.0 | 3.6 |
| 70°-80° | 60.4 | 1.9 |
| 80°-90° | 15.9 | 0.5 |
| 90°-100° | 33.5 | 1.1 |
| 100°-110° | 131.0 | 4.2 |
| 110°-120° | 233.4 | 7.5 |
| 120°-130° | 315.9 | 10.2 |
| 130°-140° | 363.2 | 11.7 |
| 140°-150° | 364.4 | 11.7 |
| 150°-160° | 313.4 | 10.1 |
| 160°-170° | 212.1 | 6.8 |
| 170°-180° | 74.8 | 2.4 |
| 0°-30° | 329.8 | 10.6 |
| 0°-40° | 523.6 | 16.9 |
| 0°-60° | 870.5 | 28.1 |
| 0°-90° | 1059.9 | 34.2 |
| 90°-120° | 397.9 | 12.8 |
| 90°-150° | 1441.4 | 46.5 |
| 90°-180° | 2042.0 | 65.8 |
| 0°-180° | 3101.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 443 | 443 | 443 | 443 | 443 | |
| 5° | 439 | 445 | 440 | 439 | 443 | 42 |
| 15° | 418 | 421 | 418 | 415 | 415 | 118 |
| 25° | 375 | 376 | 371 | 366 | 364 | 173 |
| 35° | 322 | 319 | 310 | 301 | 299 | 201 |
| 45° | 259 | 255 | 244 | 232 | 229 | 200 |
| 55° | 194 | 189 | 177 | 166 | 162 | 174 |
| 65° | 129 | 124 | 114 | 103 | 100 | 128 |
| 75° | 67 | 63 | 55 | 50 | 49 | 71 |
| 85° | 15 | 14 | 13 | 13 | 13 | 18 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 32 | 29 | 26 | 24 | 25 | 37 |
| 105° | 127 | 126 | 122 | 120 | 119 | 136 |
| 115° | 238 | 239 | 234 | 233 | 233 | 236 |
| 125° | 355 | 359 | 352 | 350 | 351 | 317 |
| 135° | 473 | 477 | 470 | 466 | 471 | 364 |
| 145° | 586 | 590 | 581 | 578 | 583 | 366 |
| 155° | 683 | 689 | 678 | 675 | 682 | 314 |
| 165° | 754 | 761 | 751 | 747 | 754 | 213 |
| 175° | 790 | 797 | 787 | 782 | 785 | 75 |
| 180° | 792 | 792 | 792 | 792 | 792 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 443.2 | 443.2 | 443.2 | 443.2 | 443.2 |
| 2.5° | 440.9 | 445.3 | 441.4 | 442.0 | 442.9 |
| 5° | 439.4 | 444.9 | 439.7 | 439.2 | 442.8 |
| 7.5° | 436.0 | 441.1 | 435.6 | 434.4 | 437.2 |
| 10° | 432.5 | 438.0 | 431.9 | 430.3 | 431.9 |
| 12.5° | 426.2 | 432.0 | 427.1 | 424.5 | 425.8 |
| 15° | 417.7 | 421.4 | 417.7 | 415.2 | 415.2 |
| 17.5° | 407.4 | 411.2 | 404.3 | 402.5 | 401.7 |
| 20° | 399.8 | 403.2 | 395.7 | 393.2 | 391.7 |
| 22.5° | 389.7 | 392.9 | 386.7 | 381.9 | 380.6 |
| 25° | 375.3 | 376.5 | 370.6 | 365.5 | 364.0 |
| 27.5° | 361.4 | 361.7 | 353.6 | 347.4 | 345.4 |
| 30° | 349.9 | 350.2 | 340.7 | 334.1 | 332.6 |
| 32.5° | 338.3 | 337.4 | 328.4 | 320.5 | 319.5 |
| 35° | 322.2 | 319.1 | 310.2 | 301.1 | 299.2 |
| 37.5° | 302.8 | 300.9 | 290.4 | 281.3 | 278.5 |
| 40° | 290.4 | 287.4 | 276.6 | 267.4 | 264.7 |
| 42.5° | 278.1 | 274.6 | 263.5 | 253.3 | 250.3 |
| 45° | 259.0 | 255.0 | 244.2 | 232.5 | 229.1 |
| 47.5° | 239.8 | 235.4 | 223.6 | 212.2 | 208.5 |
| 50° | 226.9 | 222.3 | 210.0 | 198.9 | 194.9 |
| 52.5° | 213.9 | 209.0 | 196.6 | 185.3 | 182.1 |
| 55° | 194.3 | 189.0 | 177.0 | 165.6 | 162.5 |
| 57.5° | 174.6 | 169.5 | 157.5 | 146.7 | 143.0 |
| 60° | 161.6 | 156.6 | 144.9 | 134.1 | 130.4 |
| 62.5° | 148.2 | 143.6 | 132.1 | 121.6 | 118.1 |
| 65° | 128.9 | 124.3 | 113.5 | 103.3 | 100.3 |
| 67.5° | 109.7 | 105.8 | 95.1 | 85.8 | 83.4 |
| 70° | 97.1 | 93.4 | 83.3 | 74.8 | 72.3 |
| 72.5° | 85.1 | 81.1 | 71.5 | 64.2 | 62.5 |
| 75° | 66.6 | 63.0 | 55.3 | 49.6 | 48.7 |
| 77.5° | 49.8 | 46.8 | 40.2 | 37.0 | 36.5 |
| 80° | 39.0 | 36.2 | 31.1 | 28.9 | 28.9 |
| 82.5° | 28.9 | 26.6 | 23.3 | 22.4 | 22.4 |
| 85° | 15.1 | 13.9 | 13.2 | 13.2 | 13.2 |
| 87.5° | 4.5 | 4.5 | 4.3 | 4.0 | 4.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 8.7 | 7.8 | 4.9 | 3.9 | 3.9 |
| 95° | 32.2 | 29.2 | 26.1 | 24.3 | 24.9 |
| 97.5° | 59.4 | 56.6 | 52.7 | 50.9 | 51.4 |
| 100° | 78.4 | 76.0 | 71.7 | 69.9 | 69.9 |
| 102.5° | 96.8 | 95.4 | 91.1 | 89.3 | 89.8 |
| 105° | 127.0 | 126.4 | 122.1 | 120.2 | 119.1 |
| 107.5° | 160.2 | 159.2 | 154.4 | 154.3 | 153.2 |
| 110° | 181.6 | 181.0 | 176.8 | 176.1 | 175.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 203.5 | 204.3 | 199.6 | 199.0 | 198.4 |
| 115° | 238.1 | 239.3 | 233.9 | 233.2 | 232.6 |
| 117.5° | 273.6 | 275.2 | 269.5 | 268.8 | 267.8 |
| 120° | 296.4 | 300.0 | 292.8 | 292.2 | 291.6 |
| 122.5° | 319.8 | 322.8 | 316.1 | 315.0 | 314.9 |
| 125° | 354.7 | 358.9 | 351.7 | 350.5 | 351.1 |
| 127.5° | 389.7 | 394.0 | 387.3 | 384.9 | 386.2 |
| 130° | 413.1 | 417.8 | 410.6 | 408.2 | 410.0 |
| 132.5° | 436.9 | 441.6 | 434.4 | 432.1 | 434.8 |
| 135° | 472.6 | 477.3 | 469.5 | 466.0 | 470.8 |
| 137.5° | 507.4 | 511.6 | 503.1 | 500.6 | 505.6 |
| 140° | 530.3 | 534.4 | 525.4 | 522.5 | 528.5 |
| 142.5° | 552.6 | 557.3 | 547.3 | 544.4 | 550.8 |
| 145° | 585.6 | 590.3 | 580.7 | 577.8 | 583.1 |
| 147.5° | 617.1 | 622.0 | 612.3 | 608.9 | 614.4 |
| 150° | 636.6 | 641.9 | 631.7 | 628.8 | 634.8 |
| 152.5° | 655.5 | 661.4 | 650.7 | 647.3 | 654.7 |
| 155° | 683.4 | 689.3 | 677.9 | 675.0 | 682.1 |
| 157.5° | 708.4 | 713.8 | 703.5 | 700.6 | 706.8 |
| 160° | 723.4 | 729.4 | 718.6 | 715.7 | 722.8 |
| 162.5° | 736.6 | 742.5 | 732.7 | 728.8 | 736.0 |
| 165° | 754.4 | 761.0 | 750.8 | 746.7 | 754.4 |
| 167.5° | 769.4 | 776.4 | 765.6 | 761.9 | 769.6 |
| 170° | 778.1 | 784.6 | 773.9 | 769.2 | 776.9 |
| 172.5° | 783.9 | 790.5 | 779.7 | 775.0 | 780.3 |
| 175° | 790.3 | 797.4 | 786.6 | 781.8 | 784.8 |
| 177.5° | 793.1 | 798.8 | 790.1 | 785.9 | 792.6 |
| 180° | 792.1 | 792.1 | 792.1 | 792.1 | 792.1 |



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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 | 11.07 | 11.80 | 12.15 | 12.88 | 14.36 | 9.99 | 10.72 | 11.07 | 11.80 | 13.28 |
| | 3H | 12.72 | 13.38 | 13.82 | 14.47 | 15.97 | 11.39 | 12.05 | 12.49 | 13.14 | 14.63 |
| | 4H | 13.35 | 13.97 | 14.45 | 15.06 | 16.56 | 11.90 | 12.52 | 13.01 | 13.61 | 15.12 |
| | 6H | 13.73 | 14.30 | 14.84 | 15.39 | 16.91 | 12.22 | 12.78 | 13.33 | 13.88 | 15.40 |
| | 8H | 13.86 | 14.40 | 14.98 | 15.51 | 17.02 | 12.33 | 12.88 | 13.45 | 13.99 | 15.50 |
| | 12H | 13.92 | 14.44 | 15.04 | 15.54 | 17.08 | 12.41 | 12.92 | 13.53 | 14.02 | 15.56 |
| 4H | 2H | 11.46 | 12.08 | 12.57 | 13.17 | 14.68 | 10.60 | 11.22 | 11.71 | 12.31 | 13.82 |
| | 3H | 13.34 | 13.85 | 14.45 | 14.97 | 16.49 | 12.21 | 12.72 | 13.33 | 13.84 | 15.36 |
| | 4H | 14.08 | 14.55 | 15.20 | 15.66 | 17.20 | 12.81 | 13.28 | 13.93 | 14.39 | 15.93 |
| | 6H | 14.58 | 14.98 | 15.70 | 16.11 | 17.64 | 13.21 | 13.62 | 14.34 | 14.75 | 16.28 |
| | 8H | 14.76 | 15.14 | 15.89 | 16.27 | 17.81 | 13.38 | 13.76 | 14.51 | 14.88 | 16.43 |
| | 12H | 14.85 | 15.20 | 16.00 | 16.33 | 17.88 | 13.48 | 13.82 | 14.63 | 14.96 | 16.51 |
| 8H | 4H | 14.20 | 14.58 | 15.33 | 15.70 | 17.25 | 13.06 | 13.44 | 14.19 | 14.56 | 16.11 |
| | 6H | 14.81 | 15.13 | 15.96 | 16.29 | 17.83 | 13.58 | 13.90 | 14.73 | 15.06 | 16.60 |
| | 8H | 15.09 | 15.36 | 16.24 | 16.51 | 18.07 | 13.83 | 14.11 | 14.99 | 15.25 | 16.82 |
| | 12H | 15.25 | 15.49 | 16.40 | 16.63 | 18.23 | 14.01 | 14.24 | 15.16 | 15.39 | 16.99 |
| 12H | 4H | 14.17 | 14.51 | 15.31 | 15.64 | 17.20 | 13.06 | 13.40 | 14.20 | 14.53 | 16.09 |
| | 6H | 14.83 | 15.10 | 15.98 | 16.25 | 17.81 | 13.64 | 13.91 | 14.79 | 15.06 | 16.62 |
| | 8H | 15.12 | 15.36 | 16.28 | 16.50 | 18.10 | 13.92 | 14.16 | 15.07 | 15.30 | 16.90 |