

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: P824342

Luminaire Tested: CB3-D-125U-055D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824342
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-125U-055D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 550 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7159.2 lumens
Efficiency: N/A
Efficacy: 133.1 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

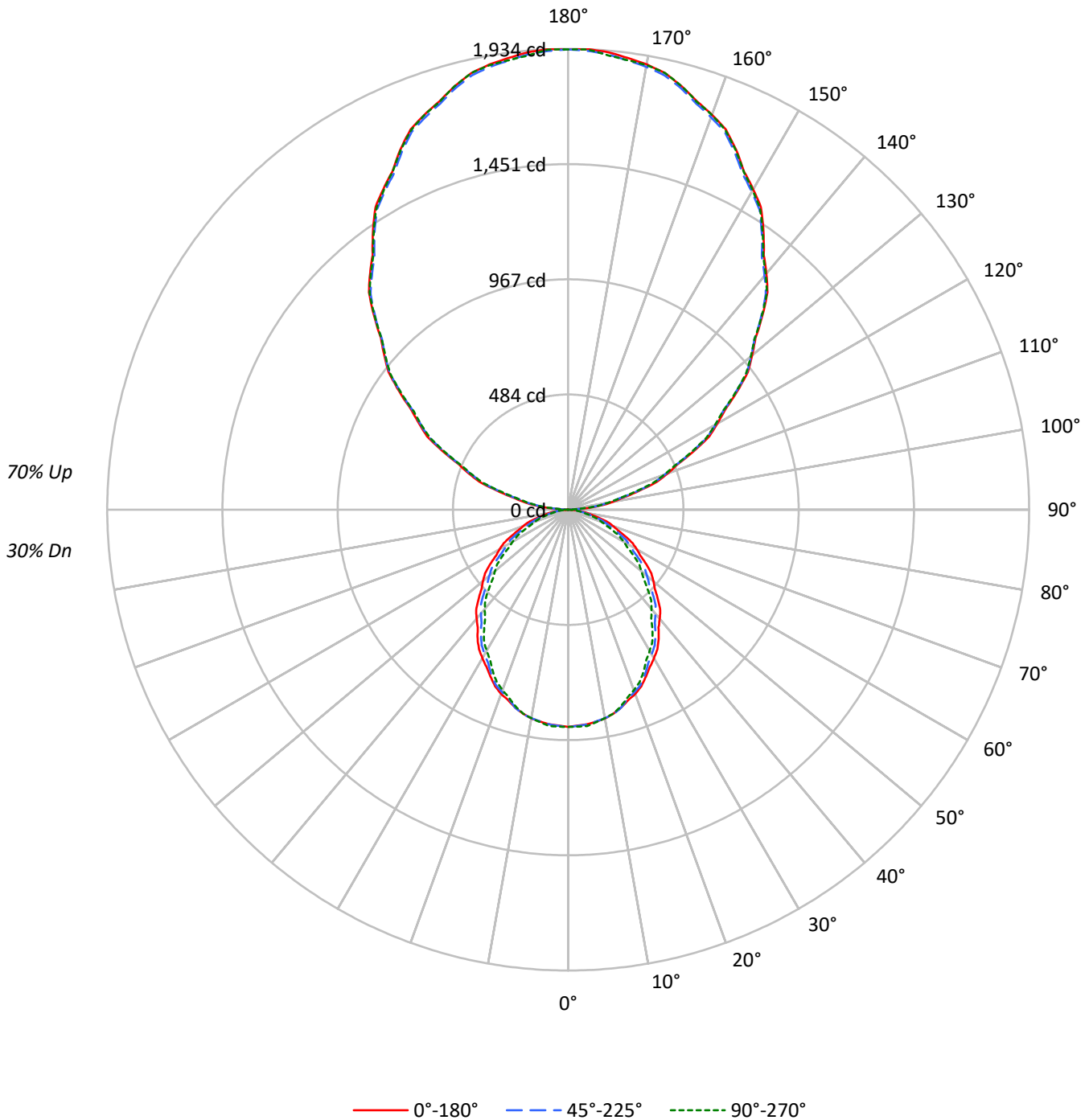
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 55 | 55 | 55 | 38 | 38 | 38 | 30 |
| 1 | 94 | 89 | 86 | 82 | 84 | 80 | 77 | 74 | 64 | 61 | 60 | 48 | 47 | 46 | 34 | 33 | 32 | 26 |
| 2 | 85 | 78 | 72 | 67 | 76 | 70 | 65 | 61 | 56 | 52 | 49 | 42 | 40 | 38 | 30 | 29 | 27 | 22 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 49 | 45 | 42 | 38 | 35 | 32 | 27 | 25 | 23 | 19 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 33 | 30 | 28 | 24 | 22 | 20 | 16 |
| 5 | 65 | 54 | 46 | 41 | 58 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 21 | 19 | 18 | 14 |
| 6 | 60 | 48 | 41 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 27 | 27 | 24 | 21 | 19 | 17 | 16 | 12 |
| 7 | 55 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10314 | 10314 | 10314 |
| 5° | 10266 | 10273 | 10349 |
| 10° | 10222 | 10207 | 10207 |
| 15° | 10066 | 10066 | 10005 |
| 20° | 9902 | 9801 | 9698 |
| 25° | 9635 | 9514 | 9344 |
| 30° | 9400 | 9155 | 8935 |
| 35° | 9152 | 8812 | 8500 |
| 40° | 8822 | 8401 | 8039 |
| 45° | 8522 | 8037 | 7540 |
| 50° | 8215 | 7601 | 7055 |
| 55° | 7881 | 7178 | 6593 |
| 60° | 7520 | 6743 | 6071 |
| 65° | 7095 | 6249 | 5521 |
| 70° | 6606 | 5667 | 4919 |
| 75° | 5989 | 4975 | 4380 |
| 80° | 5226 | 4170 | 3877 |
| 85° | 4024 | 3518 | 3518 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8522 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.0 | 1.2 |
| 10°-20° | 241.7 | 3.4 |
| 20°-30° | 350.7 | 4.9 |
| 30°-40° | 398.5 | 5.6 |
| 40°-50° | 386.9 | 5.4 |
| 50°-60° | 326.6 | 4.6 |
| 60°-70° | 232.4 | 3.2 |
| 70°-80° | 124.2 | 1.7 |
| 80°-90° | 32.8 | 0.5 |
| 90°-100° | 81.6 | 1.1 |
| 100°-110° | 319.4 | 4.5 |
| 110°-120° | 569.3 | 8.0 |
| 120°-130° | 770.4 | 10.8 |
| 130°-140° | 885.7 | 12.4 |
| 140°-150° | 888.8 | 12.4 |
| 150°-160° | 764.3 | 10.7 |
| 160°-170° | 517.4 | 7.2 |
| 170°-180° | 182.5 | 2.5 |
| 0°-30° | 678.4 | 9.5 |
| 0°-40° | 1076.9 | 15.0 |
| 0°-60° | 1790.4 | 25.0 |
| 0°-90° | 2179.7 | 30.4 |
| 90°-120° | 970.4 | 13.6 |
| 90°-150° | 3515.3 | 49.1 |
| 90°-180° | 4980.0 | 69.6 |
| 0°-180° | 7159.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 912 | 912 | 912 | 912 | 912 | |
| 5° | 904 | 915 | 904 | 903 | 911 | 86 |
| 15° | 859 | 867 | 859 | 854 | 854 | 242 |
| 25° | 772 | 774 | 762 | 752 | 748 | 356 |
| 35° | 663 | 656 | 638 | 619 | 615 | 413 |
| 45° | 533 | 524 | 502 | 478 | 471 | 411 |
| 55° | 400 | 389 | 364 | 340 | 334 | 357 |
| 65° | 265 | 256 | 233 | 212 | 206 | 262 |
| 75° | 137 | 130 | 114 | 102 | 100 | 146 |
| 85° | 31 | 28 | 27 | 27 | 27 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | 4 |
| 95° | 78 | 71 | 64 | 59 | 61 | 90 |
| 105° | 310 | 308 | 298 | 293 | 290 | 330 |
| 115° | 581 | 584 | 570 | 569 | 567 | 576 |
| 125° | 865 | 875 | 858 | 855 | 856 | 774 |
| 135° | 1153 | 1164 | 1145 | 1136 | 1148 | 889 |
| 145° | 1428 | 1440 | 1416 | 1409 | 1422 | 892 |
| 155° | 1667 | 1681 | 1653 | 1646 | 1664 | 767 |
| 165° | 1840 | 1856 | 1831 | 1821 | 1840 | 518 |
| 175° | 1927 | 1945 | 1918 | 1907 | 1914 | 183 |
| 180° | 1932 | 1932 | 1932 | 1932 | 1932 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 911.6 | 911.6 | 911.6 | 911.6 | 911.6 |
| 2.5° | 907.0 | 916.1 | 908.0 | 909.1 | 911.1 |
| 5° | 903.9 | 915.3 | 904.5 | 903.4 | 911.2 |
| 7.5° | 896.9 | 907.3 | 896.1 | 893.5 | 899.2 |
| 10° | 889.7 | 901.0 | 888.4 | 885.2 | 888.4 |
| 12.5° | 876.7 | 888.6 | 878.5 | 873.3 | 875.9 |
| 15° | 859.3 | 866.9 | 859.3 | 854.1 | 854.1 |
| 17.5° | 837.9 | 845.9 | 831.6 | 827.9 | 826.3 |
| 20° | 822.4 | 829.4 | 814.0 | 808.8 | 805.4 |
| 22.5° | 801.7 | 808.2 | 795.4 | 785.4 | 782.7 |
| 25° | 771.8 | 774.3 | 762.1 | 751.7 | 748.5 |
| 27.5° | 743.2 | 743.9 | 727.1 | 714.4 | 710.3 |
| 30° | 719.5 | 720.1 | 700.7 | 687.1 | 683.9 |
| 32.5° | 695.7 | 693.8 | 675.4 | 659.2 | 657.0 |
| 35° | 662.6 | 656.3 | 638.0 | 619.2 | 615.4 |
| 37.5° | 622.6 | 618.8 | 597.3 | 578.4 | 572.7 |
| 40° | 597.3 | 591.0 | 568.8 | 550.0 | 544.3 |
| 42.5° | 571.9 | 564.6 | 542.0 | 521.0 | 514.8 |
| 45° | 532.6 | 524.4 | 502.3 | 478.2 | 471.2 |
| 47.5° | 493.1 | 484.1 | 459.7 | 436.4 | 428.7 |
| 50° | 466.7 | 457.2 | 431.8 | 409.0 | 400.8 |
| 52.5° | 439.8 | 429.8 | 404.4 | 381.1 | 374.4 |
| 55° | 399.5 | 388.7 | 363.9 | 340.5 | 334.2 |
| 57.5° | 359.1 | 348.5 | 323.9 | 301.7 | 294.1 |
| 60° | 332.3 | 322.1 | 298.0 | 275.8 | 268.3 |
| 62.5° | 304.8 | 295.2 | 271.6 | 250.0 | 242.9 |
| 65° | 265.0 | 255.5 | 233.4 | 212.5 | 206.2 |
| 67.5° | 225.6 | 217.5 | 195.6 | 176.5 | 171.4 |
| 70° | 199.7 | 192.2 | 171.3 | 153.7 | 148.7 |
| 72.5° | 174.9 | 166.8 | 147.0 | 132.0 | 128.5 |
| 75° | 137.0 | 129.5 | 113.8 | 102.1 | 100.2 |
| 77.5° | 102.4 | 96.2 | 82.6 | 76.0 | 75.0 |
| 80° | 80.2 | 74.5 | 64.0 | 59.5 | 59.5 |
| 82.5° | 59.5 | 54.8 | 48.0 | 46.0 | 46.0 |
| 85° | 31.0 | 28.5 | 27.1 | 27.1 | 27.1 |
| 87.5° | 9.3 | 9.3 | 8.8 | 8.3 | 8.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 21.3 | 19.0 | 11.9 | 9.5 | 9.5 |
| 95° | 78.5 | 71.3 | 63.7 | 59.3 | 60.7 |
| 97.5° | 144.9 | 137.9 | 128.6 | 124.2 | 125.3 |
| 100° | 191.1 | 185.3 | 174.8 | 170.4 | 170.4 |
| 102.5° | 236.1 | 232.7 | 222.2 | 217.8 | 219.0 |
| 105° | 309.6 | 308.2 | 297.8 | 293.3 | 290.4 |
| 107.5° | 390.8 | 388.2 | 376.6 | 376.2 | 373.6 |
| 110° | 443.0 | 441.5 | 431.1 | 429.6 | 428.1 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 496.3 | 498.3 | 486.8 | 485.3 | 483.8 |
| 115° | 580.7 | 583.6 | 570.4 | 568.8 | 567.4 |
| 117.5° | 667.2 | 671.3 | 657.2 | 655.6 | 653.0 |
| 120° | 722.9 | 731.6 | 714.1 | 712.5 | 711.1 |
| 122.5° | 779.8 | 787.4 | 770.9 | 768.3 | 768.0 |
| 125° | 865.2 | 875.3 | 857.8 | 854.8 | 856.3 |
| 127.5° | 950.5 | 960.9 | 944.6 | 938.7 | 941.9 |
| 130° | 1007.4 | 1019.0 | 1001.5 | 995.6 | 1000.0 |
| 132.5° | 1065.5 | 1077.1 | 1059.5 | 1053.8 | 1060.4 |
| 135° | 1152.6 | 1164.2 | 1145.2 | 1136.5 | 1148.1 |
| 137.5° | 1237.6 | 1247.7 | 1226.9 | 1221.0 | 1233.2 |
| 140° | 1293.3 | 1303.4 | 1281.5 | 1274.4 | 1288.9 |
| 142.5° | 1347.8 | 1359.1 | 1334.8 | 1327.7 | 1343.4 |
| 145° | 1428.1 | 1439.7 | 1416.3 | 1409.2 | 1422.2 |
| 147.5° | 1505.2 | 1517.0 | 1493.3 | 1485.0 | 1498.3 |
| 150° | 1552.6 | 1565.6 | 1540.7 | 1533.6 | 1548.1 |
| 152.5° | 1598.8 | 1613.0 | 1586.9 | 1578.7 | 1596.7 |
| 155° | 1666.6 | 1681.1 | 1653.3 | 1646.3 | 1663.7 |
| 157.5° | 1727.7 | 1741.0 | 1715.8 | 1708.8 | 1723.8 |
| 160° | 1764.4 | 1778.9 | 1752.6 | 1745.5 | 1762.9 |
| 162.5° | 1796.4 | 1810.9 | 1786.9 | 1777.5 | 1794.9 |
| 165° | 1840.0 | 1855.9 | 1831.1 | 1821.1 | 1840.0 |
| 167.5° | 1876.4 | 1893.5 | 1867.2 | 1858.2 | 1877.0 |
| 170° | 1897.7 | 1913.7 | 1887.4 | 1875.9 | 1894.8 |
| 172.5° | 1912.0 | 1927.9 | 1901.6 | 1890.0 | 1903.1 |
| 175° | 1927.4 | 1944.8 | 1918.5 | 1906.8 | 1914.0 |
| 177.5° | 1934.2 | 1948.1 | 1927.1 | 1916.8 | 1933.0 |
| 180° | 1931.8 | 1931.8 | 1931.8 | 1931.8 | 1931.8 |



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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 | 13.09 | 13.80 | 14.20 | 14.90 | 16.43 | 12.01 | 12.72 | 13.13 | 13.82 | 15.35 |
| | 3H | 14.75 | 15.38 | 15.87 | 16.49 | 18.03 | 13.42 | 14.05 | 14.54 | 15.16 | 16.70 |
| | 4H | 15.37 | 15.97 | 16.50 | 17.08 | 18.63 | 13.93 | 14.52 | 15.06 | 15.64 | 17.19 |
| | 6H | 15.75 | 16.30 | 16.88 | 17.41 | 18.97 | 14.24 | 14.79 | 15.37 | 15.90 | 17.46 |
| | 8H | 15.88 | 16.40 | 17.02 | 17.54 | 19.09 | 14.35 | 14.88 | 15.49 | 16.01 | 17.56 |
| | 12H | 15.94 | 16.44 | 17.09 | 17.56 | 19.14 | 14.42 | 14.92 | 15.57 | 16.05 | 17.62 |
| 4H | 2H | 13.48 | 14.08 | 14.62 | 15.19 | 16.74 | 12.62 | 13.22 | 13.76 | 14.33 | 15.88 |
| | 3H | 15.36 | 15.85 | 16.50 | 16.99 | 18.56 | 14.23 | 14.73 | 15.37 | 15.87 | 17.43 |
| | 4H | 16.10 | 16.56 | 17.24 | 17.69 | 19.27 | 14.83 | 15.29 | 15.97 | 16.41 | 17.99 |
| | 6H | 16.59 | 16.98 | 17.74 | 18.14 | 19.71 | 15.23 | 15.62 | 16.38 | 16.78 | 18.35 |
| | 8H | 16.78 | 17.15 | 17.93 | 18.29 | 19.88 | 15.40 | 15.76 | 16.55 | 16.91 | 18.49 |
| | 12H | 16.87 | 17.20 | 18.04 | 18.36 | 19.95 | 15.50 | 15.83 | 16.66 | 16.98 | 18.57 |
| 8H | 4H | 16.22 | 16.58 | 17.37 | 17.72 | 19.31 | 15.08 | 15.44 | 16.23 | 16.59 | 18.17 |
| | 6H | 16.83 | 17.13 | 18.00 | 18.32 | 19.90 | 15.60 | 15.90 | 16.77 | 17.09 | 18.67 |
| | 8H | 17.10 | 17.37 | 18.28 | 18.53 | 20.14 | 15.85 | 16.11 | 17.03 | 17.28 | 18.88 |
| | 12H | 17.26 | 17.49 | 18.44 | 18.65 | 20.29 | 16.02 | 16.25 | 17.20 | 17.41 | 19.05 |
| 12H | 4H | 16.18 | 16.51 | 17.35 | 17.67 | 19.26 | 15.07 | 15.40 | 16.24 | 16.56 | 18.15 |
| | 6H | 16.84 | 17.11 | 18.02 | 18.27 | 19.88 | 15.66 | 15.92 | 16.83 | 17.08 | 18.69 |
| | 8H | 17.14 | 17.37 | 18.32 | 18.53 | 20.17 | 15.93 | 16.16 | 17.11 | 17.32 | 18.96 |