

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: P824312

Luminaire Tested: CB3-D-085U-120D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824312
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-085U-120D-840-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 4000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8051.7 lumens
Efficiency: N/A
Efficacy: 129.9 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: General Diffuse

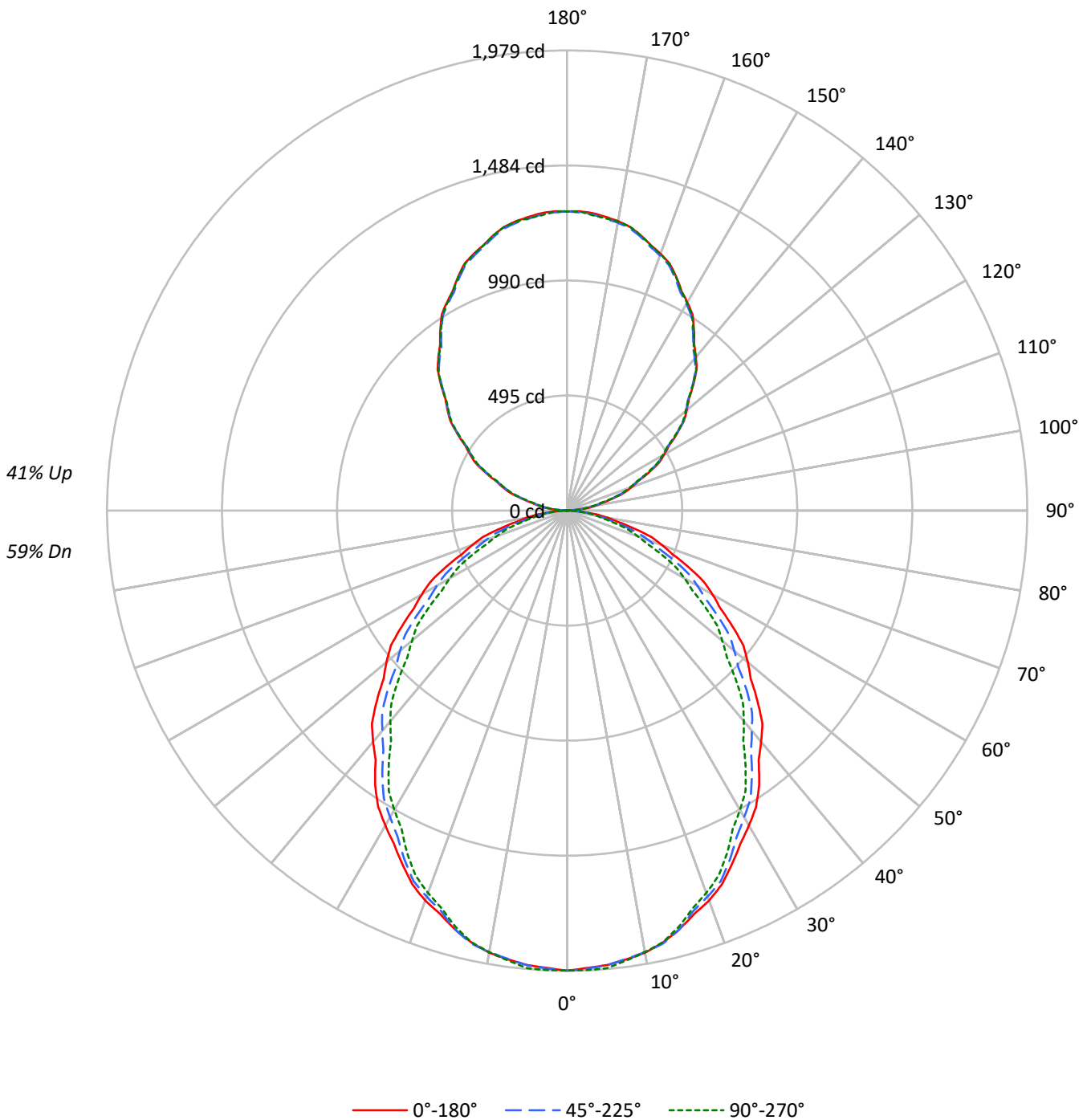
Input Watts (W): 62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P824312

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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 | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 | | | | | | | | | | | | | | | | | | | | |
| 1 | 100 | 96 | 92 | 88 | 93 | 89 | 86 | 83 | 78 | 75 | 73 | 67 | 65 | 64 | 57 | 56 | 55 | 50 | | | | | | | | | | | | | | | | | | | | |
| 2 | 91 | 84 | 78 | 73 | 85 | 78 | 73 | 69 | 68 | 64 | 61 | 59 | 56 | 53 | 51 | 48 | 46 | 42 | | | | | | | | | | | | | | | | | | | | |
| 3 | 83 | 74 | 67 | 61 | 78 | 69 | 63 | 58 | 61 | 55 | 51 | 52 | 49 | 45 | 45 | 42 | 40 | 36 | | | | | | | | | | | | | | | | | | | | |
| 4 | 76 | 66 | 58 | 52 | 71 | 62 | 54 | 49 | 54 | 48 | 44 | 47 | 43 | 39 | 40 | 37 | 34 | 31 | | | | | | | | | | | | | | | | | | | | |
| 5 | 70 | 59 | 50 | 44 | 65 | 55 | 48 | 42 | 48 | 43 | 38 | 42 | 38 | 34 | 36 | 33 | 30 | 27 | | | | | | | | | | | | | | | | | | | | |
| 6 | 65 | 53 | 45 | 39 | 60 | 50 | 42 | 37 | 44 | 38 | 33 | 38 | 34 | 30 | 33 | 29 | 27 | 24 | | | | | | | | | | | | | | | | | | | | |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 27 | 24 | 21 | | | | | | | | | | | | | | | | | | | | |
| 8 | 56 | 43 | 36 | 30 | 52 | 41 | 34 | 29 | 36 | 31 | 26 | 32 | 27 | 24 | 28 | 24 | 21 | 19 | | | | | | | | | | | | | | | | | | | | |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 21 | 26 | 22 | 19 | 17 | | | | | | | | | | | | | | | | | | | | |
| 10 | 49 | 36 | 29 | 24 | 45 | 35 | 28 | 23 | 31 | 25 | 21 | 27 | 23 | 20 | 24 | 20 | 18 | 16 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22387 | 22387 | 22387 |
| 5° | 22282 | 22298 | 22436 |
| 10° | 22184 | 22152 | 22152 |
| 15° | 21845 | 21845 | 21713 |
| 20° | 21490 | 21270 | 21072 |
| 25° | 20937 | 20674 | 20306 |
| 30° | 20424 | 19893 | 19415 |
| 35° | 19886 | 19148 | 18470 |
| 40° | 19169 | 18256 | 17469 |
| 45° | 18520 | 17464 | 16384 |
| 50° | 17851 | 16516 | 15328 |
| 55° | 17122 | 15600 | 14325 |
| 60° | 16338 | 14652 | 13191 |
| 65° | 15418 | 13576 | 11997 |
| 70° | 14357 | 12313 | 10689 |
| 75° | 13019 | 10807 | 9517 |
| 80° | 11351 | 9063 | 8418 |
| 85° | 8750 | 7659 | 7659 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18520 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.7 | 2.3 |
| 10°-20° | 524.5 | 6.5 |
| 20°-30° | 761.8 | 9.5 |
| 30°-40° | 865.9 | 10.8 |
| 40°-50° | 840.6 | 10.4 |
| 50°-60° | 709.7 | 8.8 |
| 60°-70° | 505.0 | 6.3 |
| 70°-80° | 269.8 | 3.4 |
| 80°-90° | 71.3 | 0.9 |
| 90°-100° | 54.4 | 0.7 |
| 100°-110° | 212.7 | 2.6 |
| 110°-120° | 379.2 | 4.7 |
| 120°-130° | 513.1 | 6.4 |
| 130°-140° | 589.9 | 7.3 |
| 140°-150° | 591.9 | 7.4 |
| 150°-160° | 509.1 | 6.3 |
| 160°-170° | 344.6 | 4.3 |
| 170°-180° | 121.5 | 1.5 |
| 0°-30° | 1472.9 | 18.3 |
| 0°-40° | 2338.9 | 29.0 |
| 0°-60° | 3889.2 | 48.3 |
| 0°-90° | 4735.2 | 58.8 |
| 90°-120° | 646.3 | 8.0 |
| 90°-150° | 2341.3 | 29.1 |
| 90°-180° | 3316.0 | 41.2 |
| 0°-180° | 8051.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1979 | 1979 | 1979 | 1979 | 1979 | |
| 5° | 1962 | 1986 | 1963 | 1961 | 1975 | 186 |
| 15° | 1865 | 1881 | 1865 | 1854 | 1854 | 525 |
| 25° | 1677 | 1683 | 1656 | 1633 | 1626 | 773 |
| 35° | 1440 | 1426 | 1386 | 1345 | 1337 | 897 |
| 45° | 1157 | 1140 | 1091 | 1039 | 1024 | 893 |
| 55° | 868 | 845 | 791 | 740 | 726 | 776 |
| 65° | 576 | 555 | 507 | 462 | 448 | 570 |
| 75° | 298 | 281 | 247 | 222 | 218 | 317 |
| 85° | 67 | 62 | 59 | 59 | 59 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | 5 |
| 95° | 52 | 48 | 42 | 40 | 40 | 60 |
| 105° | 206 | 205 | 198 | 195 | 193 | 220 |
| 115° | 387 | 389 | 380 | 379 | 378 | 383 |
| 125° | 576 | 583 | 571 | 569 | 570 | 515 |
| 135° | 768 | 775 | 763 | 757 | 765 | 592 |
| 145° | 951 | 959 | 943 | 938 | 947 | 594 |
| 155° | 1110 | 1120 | 1101 | 1096 | 1108 | 511 |
| 165° | 1225 | 1236 | 1220 | 1213 | 1225 | 345 |
| 175° | 1284 | 1295 | 1278 | 1270 | 1275 | 122 |
| 180° | 1287 | 1287 | 1287 | 1287 | 1287 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1978.6 | 1978.6 | 1978.6 | 1978.6 | 1978.6 |
| 2.5° | 1968.5 | 1988.3 | 1970.8 | 1973.1 | 1977.5 |
| 5° | 1961.8 | 1986.5 | 1963.2 | 1960.7 | 1975.4 |
| 7.5° | 1946.6 | 1969.1 | 1944.9 | 1939.3 | 1951.7 |
| 10° | 1930.9 | 1955.6 | 1928.1 | 1921.2 | 1928.1 |
| 12.5° | 1902.8 | 1928.6 | 1906.7 | 1895.3 | 1901.1 |
| 15° | 1864.9 | 1881.3 | 1864.9 | 1853.6 | 1853.6 |
| 17.5° | 1818.5 | 1835.8 | 1804.7 | 1796.8 | 1793.6 |
| 20° | 1784.8 | 1799.9 | 1766.5 | 1755.2 | 1750.1 |
| 22.5° | 1739.8 | 1753.9 | 1726.1 | 1706.1 | 1700.7 |
| 25° | 1677.1 | 1682.6 | 1656.0 | 1633.4 | 1626.5 |
| 27.5° | 1615.0 | 1616.4 | 1579.9 | 1552.4 | 1543.3 |
| 30° | 1563.3 | 1564.7 | 1522.6 | 1492.9 | 1486.0 |
| 32.5° | 1511.6 | 1507.5 | 1467.5 | 1432.3 | 1427.6 |
| 35° | 1439.7 | 1426.0 | 1386.3 | 1345.4 | 1337.2 |
| 37.5° | 1352.9 | 1344.6 | 1297.8 | 1256.8 | 1244.5 |
| 40° | 1297.8 | 1284.1 | 1236.0 | 1195.0 | 1182.7 |
| 42.5° | 1242.8 | 1226.8 | 1177.6 | 1132.1 | 1118.6 |
| 45° | 1157.4 | 1139.5 | 1091.4 | 1039.0 | 1023.9 |
| 47.5° | 1071.4 | 1051.9 | 998.9 | 948.3 | 931.5 |
| 50° | 1014.1 | 993.5 | 938.3 | 888.7 | 870.8 |
| 52.5° | 955.7 | 934.0 | 878.7 | 828.1 | 813.5 |
| 55° | 868.0 | 844.7 | 790.8 | 739.9 | 726.2 |
| 57.5° | 780.4 | 757.3 | 703.7 | 655.6 | 639.1 |
| 60° | 722.0 | 700.0 | 647.5 | 599.4 | 582.9 |
| 62.5° | 662.4 | 641.5 | 590.2 | 543.2 | 527.8 |
| 65° | 575.9 | 555.3 | 507.1 | 461.8 | 448.1 |
| 67.5° | 490.2 | 472.6 | 425.0 | 383.5 | 372.5 |
| 70° | 434.0 | 417.5 | 372.2 | 334.0 | 323.1 |
| 72.5° | 380.1 | 362.5 | 319.4 | 286.9 | 279.2 |
| 75° | 297.8 | 281.3 | 247.2 | 221.8 | 217.7 |
| 77.5° | 222.5 | 209.0 | 179.5 | 165.1 | 162.9 |
| 80° | 174.2 | 161.8 | 139.1 | 129.2 | 129.2 |
| 82.5° | 129.2 | 119.1 | 104.2 | 100.0 | 100.0 |
| 85° | 67.4 | 61.9 | 59.0 | 59.0 | 59.0 |
| 87.5° | 20.2 | 20.2 | 19.1 | 18.0 | 18.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 14.2 | 12.7 | 7.9 | 6.3 | 6.3 |
| 95° | 52.3 | 47.5 | 42.4 | 39.5 | 40.5 |
| 97.5° | 96.5 | 91.9 | 85.6 | 82.7 | 83.5 |
| 100° | 127.3 | 123.4 | 116.4 | 113.5 | 113.5 |
| 102.5° | 157.3 | 155.0 | 148.0 | 145.1 | 145.8 |
| 105° | 206.2 | 205.2 | 198.3 | 195.3 | 193.4 |
| 107.5° | 260.3 | 258.5 | 250.8 | 250.6 | 248.8 |
| 110° | 295.0 | 294.0 | 287.1 | 286.1 | 285.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 330.5 | 331.9 | 324.2 | 323.2 | 322.2 |
| 115° | 386.8 | 388.7 | 379.9 | 378.9 | 377.9 |
| 117.5° | 444.4 | 447.1 | 437.7 | 436.7 | 434.9 |
| 120° | 481.5 | 487.3 | 475.6 | 474.6 | 473.6 |
| 122.5° | 519.4 | 524.4 | 513.5 | 511.7 | 511.5 |
| 125° | 576.2 | 583.0 | 571.3 | 569.3 | 570.3 |
| 127.5° | 633.0 | 640.0 | 629.1 | 625.2 | 627.3 |
| 130° | 670.9 | 678.7 | 667.0 | 663.1 | 666.0 |
| 132.5° | 709.6 | 717.3 | 705.7 | 701.8 | 706.3 |
| 135° | 767.6 | 775.3 | 762.7 | 757.0 | 764.7 |
| 137.5° | 824.3 | 831.0 | 817.2 | 813.2 | 821.3 |
| 140° | 861.4 | 868.1 | 853.5 | 848.8 | 858.4 |
| 142.5° | 897.7 | 905.2 | 889.0 | 884.3 | 894.7 |
| 145° | 951.1 | 958.9 | 943.3 | 938.5 | 947.2 |
| 147.5° | 1002.5 | 1010.4 | 994.6 | 989.0 | 997.9 |
| 150° | 1034.0 | 1042.7 | 1026.1 | 1021.4 | 1031.1 |
| 152.5° | 1064.8 | 1074.3 | 1056.9 | 1051.5 | 1063.4 |
| 155° | 1110.0 | 1119.6 | 1101.1 | 1096.5 | 1108.0 |
| 157.5° | 1150.7 | 1159.5 | 1142.8 | 1138.1 | 1148.1 |
| 160° | 1175.1 | 1184.8 | 1167.2 | 1162.6 | 1174.1 |
| 162.5° | 1196.4 | 1206.1 | 1190.1 | 1183.9 | 1195.4 |
| 165° | 1225.4 | 1236.1 | 1219.5 | 1212.9 | 1225.4 |
| 167.5° | 1249.7 | 1261.1 | 1243.6 | 1237.6 | 1250.1 |
| 170° | 1263.9 | 1274.5 | 1257.0 | 1249.4 | 1261.9 |
| 172.5° | 1273.4 | 1284.0 | 1266.5 | 1258.8 | 1267.5 |
| 175° | 1283.7 | 1295.2 | 1277.7 | 1270.0 | 1274.8 |
| 177.5° | 1288.2 | 1297.5 | 1283.5 | 1276.6 | 1287.4 |
| 180° | 1286.6 | 1286.6 | 1286.6 | 1286.6 | 1286.6 |



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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 | 18.72 | 19.66 | 19.60 | 20.56 | 21.70 | 17.65 | 18.58 | 18.53 | 19.48 | 20.62 |
| | 3H | 20.40 | 21.23 | 21.29 | 22.14 | 23.31 | 19.07 | 19.90 | 19.96 | 20.81 | 21.98 |
| | 4H | 21.03 | 21.82 | 21.94 | 22.74 | 23.91 | 19.59 | 20.38 | 20.49 | 21.29 | 22.47 |
| | 6H | 21.42 | 22.15 | 22.34 | 23.07 | 24.26 | 19.91 | 20.64 | 20.83 | 21.56 | 22.75 |
| | 8H | 21.56 | 22.25 | 22.49 | 23.19 | 24.38 | 20.03 | 20.73 | 20.96 | 21.66 | 22.85 |
| | 12H | 21.63 | 22.29 | 22.56 | 23.22 | 24.43 | 20.11 | 20.77 | 21.04 | 21.70 | 22.92 |
| 4H | 2H | 19.14 | 19.93 | 20.05 | 20.85 | 22.02 | 18.28 | 19.07 | 19.20 | 19.99 | 21.16 |
| | 3H | 21.04 | 21.70 | 21.96 | 22.64 | 23.83 | 19.91 | 20.57 | 20.83 | 21.51 | 22.70 |
| | 4H | 21.79 | 22.39 | 22.72 | 23.33 | 24.55 | 20.52 | 21.12 | 21.45 | 22.06 | 23.28 |
| | 6H | 22.30 | 22.81 | 23.24 | 23.78 | 24.99 | 20.93 | 21.45 | 21.88 | 22.42 | 23.63 |
| | 8H | 22.49 | 22.97 | 23.44 | 23.93 | 25.16 | 21.11 | 21.59 | 22.06 | 22.55 | 23.78 |
| | 12H | 22.59 | 23.03 | 23.56 | 24.00 | 25.24 | 21.21 | 21.65 | 22.18 | 22.63 | 23.86 |
| 8H | 4H | 21.92 | 22.41 | 22.87 | 23.37 | 24.60 | 20.79 | 21.27 | 21.74 | 22.23 | 23.46 |
| | 6H | 22.55 | 22.95 | 23.52 | 23.95 | 25.17 | 21.32 | 21.72 | 22.29 | 22.72 | 23.95 |
| | 8H | 22.82 | 23.18 | 23.81 | 24.17 | 25.41 | 21.57 | 21.92 | 22.55 | 22.91 | 24.16 |
| | 12H | 22.99 | 23.30 | 23.98 | 24.28 | 25.58 | 21.75 | 22.06 | 22.74 | 23.04 | 24.34 |
| 12H | 4H | 21.90 | 22.34 | 22.87 | 23.31 | 24.55 | 20.79 | 21.23 | 21.76 | 22.20 | 23.44 |
| | 6H | 22.56 | 22.92 | 23.55 | 23.91 | 25.15 | 21.37 | 21.73 | 22.36 | 22.72 | 23.96 |
| | 8H | 22.87 | 23.18 | 23.85 | 24.16 | 25.45 | 21.66 | 21.97 | 22.65 | 22.95 | 24.25 |