

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: P824242

Luminaire Tested: CB2-D-125U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824242
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-125U-030D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6203.6 lumens
Efficiency: N/A
Efficacy: 127.6 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-Indirect

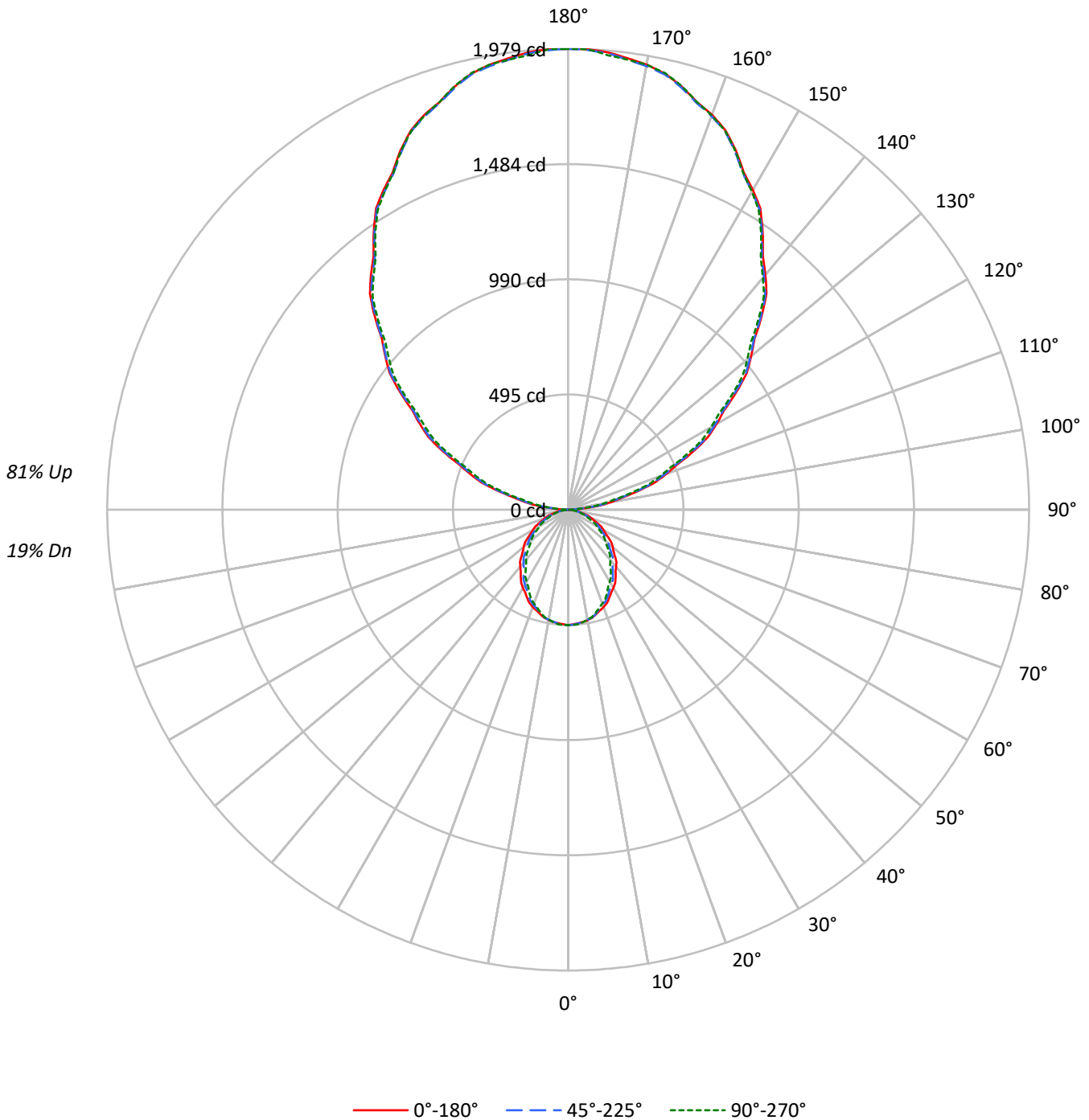
Input Watts (W): 48.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | | |
| 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 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 27 | 27 | 27 | 19 | | | | | | | | | | | | | | | | | | | | |
| 1 | 91 | 87 | 83 | 80 | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 40 | 39 | 38 | 24 | 24 | 23 | 16 | | | | | | | | | | | | | | | | | | | | |
| 2 | 83 | 76 | 70 | 65 | 73 | 67 | 62 | 58 | 51 | 47 | 45 | 35 | 33 | 32 | 21 | 20 | 20 | 13 | | | | | | | | | | | | | | | | | | | | |
| 3 | 75 | 67 | 60 | 54 | 66 | 59 | 53 | 49 | 45 | 41 | 38 | 31 | 29 | 27 | 19 | 18 | 17 | 11 | | | | | | | | | | | | | | | | | | | | |
| 4 | 69 | 59 | 51 | 46 | 60 | 52 | 46 | 41 | 40 | 35 | 32 | 28 | 25 | 23 | 17 | 16 | 14 | 10 | | | | | | | | | | | | | | | | | | | | |
| 5 | 63 | 52 | 45 | 39 | 55 | 46 | 40 | 35 | 35 | 31 | 27 | 25 | 22 | 20 | 15 | 14 | 13 | 9 | | | | | | | | | | | | | | | | | | | | |
| 6 | 58 | 47 | 39 | 34 | 51 | 41 | 35 | 30 | 32 | 27 | 24 | 22 | 20 | 17 | 14 | 12 | 11 | 8 | | | | | | | | | | | | | | | | | | | | |
| 7 | 53 | 42 | 34 | 29 | 47 | 37 | 31 | 26 | 29 | 24 | 21 | 20 | 17 | 15 | 13 | 11 | 10 | 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | 49 | 38 | 31 | 26 | 44 | 34 | 27 | 23 | 26 | 21 | 18 | 19 | 16 | 13 | 12 | 10 | 9 | 6 | | | | | | | | | | | | | | | | | | | | |
| 9 | 46 | 34 | 27 | 23 | 40 | 31 | 25 | 20 | 24 | 19 | 16 | 17 | 14 | 12 | 11 | 9 | 8 | 5 | | | | | | | | | | | | | | | | | | | | |
| 10 | 43 | 31 | 25 | 20 | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 10 | 8 | 7 | 5 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8636 | 8636 | 8636 |
| 5° | 8562 | 8576 | 8635 |
| 10° | 8514 | 8493 | 8486 |
| 15° | 8379 | 8323 | 8255 |
| 20° | 8246 | 8065 | 7952 |
| 25° | 8025 | 7799 | 7580 |
| 30° | 7803 | 7459 | 7176 |
| 35° | 7546 | 7110 | 6772 |
| 40° | 7276 | 6785 | 6387 |
| 45° | 7003 | 6444 | 6013 |
| 50° | 6758 | 6110 | 5647 |
| 55° | 6456 | 5764 | 5302 |
| 60° | 6110 | 5434 | 4960 |
| 65° | 5741 | 5069 | 4616 |
| 70° | 5337 | 4660 | 4176 |
| 75° | 4852 | 4213 | 3782 |
| 80° | 4343 | 3691 | 3430 |
| 85° | 3337 | 3038 | 2498 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7003 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 0.8 |
| 10°-20° | 130.0 | 2.1 |
| 20°-30° | 186.9 | 3.0 |
| 30°-40° | 210.0 | 3.4 |
| 40°-50° | 202.9 | 3.3 |
| 50°-60° | 171.4 | 2.8 |
| 60°-70° | 123.1 | 2.0 |
| 70°-80° | 67.3 | 1.1 |
| 80°-90° | 18.0 | 0.3 |
| 90°-100° | 76.5 | 1.2 |
| 100°-110° | 315.3 | 5.1 |
| 110°-120° | 572.4 | 9.2 |
| 120°-130° | 778.9 | 12.6 |
| 130°-140° | 899.2 | 14.5 |
| 140°-150° | 906.1 | 14.6 |
| 150°-160° | 782.0 | 12.6 |
| 160°-170° | 530.0 | 8.5 |
| 170°-180° | 187.0 | 3.0 |
| 0°-30° | 363.5 | 5.9 |
| 0°-40° | 573.5 | 9.2 |
| 0°-60° | 947.8 | 15.3 |
| 0°-90° | 1156.2 | 18.6 |
| 90°-120° | 964.2 | 15.5 |
| 90°-150° | 3548.5 | 57.2 |
| 90°-180° | 5047.0 | 81.4 |
| 0°-180° | 6203.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 496 | 496 | 496 | 496 | 496 | |
| 5° | 490 | 496 | 490 | 491 | 494 | 46 |
| 15° | 465 | 469 | 462 | 457 | 458 | 131 |
| 25° | 418 | 418 | 406 | 397 | 394 | 192 |
| 35° | 355 | 351 | 334 | 322 | 318 | 222 |
| 45° | 284 | 278 | 262 | 248 | 244 | 220 |
| 55° | 213 | 205 | 190 | 178 | 175 | 190 |
| 65° | 139 | 134 | 123 | 114 | 112 | 138 |
| 75° | 72 | 68 | 63 | 58 | 56 | 77 |
| 85° | 17 | 16 | 15 | 13 | 12 | 20 |
| 90° | 0 | 0 | 2 | 0 | 2 | 3 |
| 95° | 74 | 65 | 62 | 48 | 48 | 86 |
| 105° | 312 | 307 | 300 | 282 | 279 | 331 |
| 115° | 593 | 591 | 580 | 563 | 562 | 585 |
| 125° | 882 | 891 | 872 | 854 | 855 | 787 |
| 135° | 1175 | 1188 | 1169 | 1147 | 1155 | 905 |
| 145° | 1456 | 1472 | 1450 | 1433 | 1443 | 910 |
| 155° | 1703 | 1719 | 1695 | 1685 | 1698 | 783 |
| 165° | 1882 | 1902 | 1877 | 1867 | 1883 | 530 |
| 175° | 1971 | 1992 | 1967 | 1954 | 1959 | 187 |
| 180° | 1979 | 1979 | 1979 | 1979 | 1979 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 495.8 | 495.8 | 495.8 | 495.8 | 495.8 |
| 2.5° | 492.4 | 498.4 | 494.0 | 494.6 | 495.5 |
| 5° | 489.7 | 496.4 | 490.5 | 490.6 | 493.9 |
| 7.5° | 486.2 | 492.5 | 485.1 | 483.7 | 486.8 |
| 10° | 481.4 | 487.7 | 480.2 | 477.6 | 479.8 |
| 12.5° | 475.0 | 481.0 | 473.8 | 469.7 | 471.6 |
| 15° | 464.7 | 468.7 | 461.6 | 457.1 | 457.8 |
| 17.5° | 453.4 | 455.9 | 445.7 | 441.9 | 441.1 |
| 20° | 444.9 | 447.1 | 435.1 | 429.7 | 429.0 |
| 22.5° | 434.0 | 435.9 | 423.2 | 416.7 | 415.6 |
| 25° | 417.6 | 418.0 | 405.8 | 396.7 | 394.4 |
| 27.5° | 400.4 | 399.2 | 385.8 | 374.9 | 372.0 |
| 30° | 388.0 | 386.5 | 370.9 | 359.4 | 356.8 |
| 32.5° | 374.6 | 371.9 | 356.3 | 344.0 | 341.4 |
| 35° | 354.9 | 350.9 | 334.4 | 321.5 | 318.5 |
| 37.5° | 334.0 | 329.4 | 313.3 | 299.1 | 295.8 |
| 40° | 320.0 | 314.8 | 298.4 | 284.3 | 280.9 |
| 42.5° | 306.1 | 300.3 | 283.5 | 269.4 | 265.7 |
| 45° | 284.3 | 278.4 | 261.6 | 247.8 | 244.1 |
| 47.5° | 263.7 | 256.1 | 239.8 | 226.1 | 222.4 |
| 50° | 249.4 | 241.2 | 225.5 | 212.1 | 208.4 |
| 52.5° | 234.8 | 226.4 | 211.2 | 198.5 | 194.7 |
| 55° | 212.6 | 204.8 | 189.8 | 178.0 | 174.6 |
| 57.5° | 190.6 | 183.1 | 169.4 | 158.1 | 154.8 |
| 60° | 175.4 | 169.1 | 156.0 | 145.3 | 142.4 |
| 62.5° | 160.8 | 155.1 | 142.7 | 132.9 | 129.9 |
| 65° | 139.3 | 134.1 | 123.0 | 114.2 | 112.0 |
| 67.5° | 118.4 | 113.2 | 104.2 | 96.4 | 93.8 |
| 70° | 104.8 | 99.6 | 91.5 | 84.2 | 82.0 |
| 72.5° | 91.7 | 86.2 | 79.6 | 73.0 | 71.4 |
| 75° | 72.1 | 67.7 | 62.6 | 57.7 | 56.2 |
| 77.5° | 54.8 | 50.5 | 46.8 | 43.3 | 43.0 |
| 80° | 43.3 | 39.6 | 36.8 | 34.5 | 34.2 |
| 82.5° | 32.3 | 29.5 | 27.7 | 26.0 | 26.0 |
| 85° | 16.7 | 15.6 | 15.2 | 13.3 | 12.5 |
| 87.5° | 4.9 | 4.9 | 4.6 | 3.7 | 4.0 |
| 90° | 0.0 | 0.0 | 1.5 | 0.0 | 1.5 |
| 92.5° | 18.5 | 16.1 | 15.1 | 9.9 | 11.4 |
| 95° | 74.1 | 65.0 | 61.8 | 47.9 | 47.9 |
| 97.5° | 139.9 | 130.8 | 126.0 | 111.7 | 108.7 |
| 100° | 186.8 | 177.7 | 172.9 | 157.4 | 154.4 |
| 102.5° | 235.0 | 230.7 | 222.3 | 205.6 | 202.5 |
| 105° | 311.8 | 307.3 | 299.5 | 282.4 | 279.4 |
| 107.5° | 390.9 | 391.8 | 380.1 | 366.1 | 361.9 |
| 110° | 447.7 | 446.2 | 436.9 | 422.9 | 419.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 505.7 | 503.0 | 493.7 | 479.7 | 476.7 |
| 115° | 592.8 | 591.3 | 580.5 | 563.4 | 561.9 |
| 117.5° | 675.6 | 680.4 | 667.5 | 649.6 | 649.0 |
| 120° | 734.8 | 740.9 | 725.6 | 710.1 | 707.1 |
| 122.5° | 792.9 | 800.1 | 784.9 | 767.0 | 767.6 |
| 125° | 881.5 | 890.6 | 872.2 | 853.7 | 855.3 |
| 127.5° | 967.0 | 978.2 | 961.2 | 942.4 | 944.2 |
| 130° | 1025.1 | 1038.7 | 1020.4 | 1000.4 | 1003.5 |
| 132.5° | 1084.4 | 1097.9 | 1079.7 | 1058.5 | 1064.0 |
| 135° | 1174.8 | 1188.4 | 1168.6 | 1147.2 | 1154.8 |
| 137.5° | 1260.0 | 1273.6 | 1252.0 | 1234.0 | 1243.1 |
| 140° | 1316.8 | 1330.4 | 1307.6 | 1290.8 | 1299.9 |
| 142.5° | 1372.4 | 1388.4 | 1364.4 | 1346.4 | 1357.9 |
| 145° | 1455.8 | 1472.4 | 1449.6 | 1432.9 | 1443.4 |
| 147.5° | 1534.8 | 1551.4 | 1528.3 | 1512.2 | 1523.1 |
| 150° | 1585.5 | 1602.1 | 1577.7 | 1564.1 | 1576.2 |
| 152.5° | 1632.4 | 1651.4 | 1625.9 | 1612.4 | 1628.1 |
| 155° | 1702.8 | 1719.4 | 1695.1 | 1684.6 | 1698.2 |
| 157.5° | 1763.9 | 1783.2 | 1759.0 | 1750.0 | 1760.8 |
| 160° | 1804.7 | 1822.8 | 1798.5 | 1789.5 | 1801.6 |
| 162.5° | 1835.6 | 1854.9 | 1831.9 | 1821.7 | 1836.2 |
| 165° | 1881.9 | 1901.5 | 1877.2 | 1866.8 | 1883.4 |
| 167.5° | 1918.3 | 1939.1 | 1914.6 | 1903.9 | 1920.8 |
| 170° | 1940.5 | 1960.2 | 1934.4 | 1922.4 | 1940.5 |
| 172.5° | 1955.4 | 1976.2 | 1949.2 | 1937.1 | 1949.2 |
| 175° | 1971.4 | 1992.5 | 1966.8 | 1954.5 | 1959.1 |
| 177.5° | 1979.1 | 1996.0 | 1975.4 | 1964.6 | 1979.1 |
| 180° | 1979.1 | 1979.1 | 1979.1 | 1979.1 | 1979.1 |



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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 | 10.39 | 11.02 | 11.58 | 12.19 | 13.85 | 9.29 | 9.92 | 10.48 | 11.09 | 12.75 |
| | 3H | 12.02 | 12.58 | 13.21 | 13.76 | 15.43 | 10.80 | 11.37 | 12.00 | 12.54 | 14.22 |
| | 4H | 12.64 | 13.17 | 13.84 | 14.35 | 16.03 | 11.36 | 11.90 | 12.57 | 13.08 | 14.75 |
| | 6H | 13.03 | 13.52 | 14.24 | 14.70 | 16.39 | 11.72 | 12.22 | 12.93 | 13.40 | 15.08 |
| | 8H | 13.17 | 13.64 | 14.38 | 14.83 | 16.51 | 11.86 | 12.33 | 13.07 | 13.52 | 15.20 |
| | 12H | 13.23 | 13.68 | 14.45 | 14.87 | 16.57 | 11.91 | 12.36 | 13.13 | 13.54 | 15.24 |
| 4H | 2H | 10.77 | 11.31 | 11.98 | 12.49 | 14.16 | 9.90 | 10.44 | 11.11 | 11.61 | 13.29 |
| | 3H | 12.62 | 13.07 | 13.83 | 14.27 | 15.96 | 11.61 | 12.06 | 12.83 | 13.26 | 14.95 |
| | 4H | 13.36 | 13.77 | 14.57 | 14.96 | 16.66 | 12.28 | 12.69 | 13.49 | 13.88 | 15.58 |
| | 6H | 13.86 | 14.22 | 15.08 | 15.43 | 17.12 | 12.74 | 13.09 | 13.96 | 14.30 | 15.99 |
| | 8H | 14.06 | 14.39 | 15.28 | 15.59 | 17.30 | 12.92 | 13.25 | 14.14 | 14.45 | 16.16 |
| | 12H | 14.16 | 14.46 | 15.39 | 15.67 | 17.38 | 13.00 | 13.30 | 14.23 | 14.51 | 16.23 |
| 8H | 4H | 13.49 | 13.82 | 14.71 | 15.03 | 16.74 | 12.53 | 12.86 | 13.75 | 14.06 | 15.77 |
| | 6H | 14.13 | 14.40 | 15.36 | 15.64 | 17.35 | 13.13 | 13.40 | 14.36 | 14.64 | 16.35 |
| | 8H | 14.42 | 14.65 | 15.65 | 15.87 | 17.60 | 13.40 | 13.63 | 14.64 | 14.85 | 16.58 |
| | 12H | 14.58 | 14.79 | 15.82 | 16.00 | 17.76 | 13.54 | 13.74 | 14.78 | 14.96 | 16.72 |
| 12H | 4H | 13.46 | 13.76 | 14.69 | 14.97 | 16.69 | 12.52 | 12.82 | 13.75 | 14.03 | 15.75 |
| | 6H | 14.15 | 14.39 | 15.39 | 15.61 | 17.34 | 13.19 | 13.42 | 14.42 | 14.64 | 16.37 |
| | 8H | 14.46 | 14.67 | 15.70 | 15.88 | 17.64 | 13.48 | 13.69 | 14.72 | 14.91 | 16.66 |