

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: P824302

Luminaire Tested: CB3-D-085U-030D-835-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824302
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-030D-835-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 80 CRI, 3500K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.8 lumens
Efficiency: N/A
Efficacy: 139.4 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

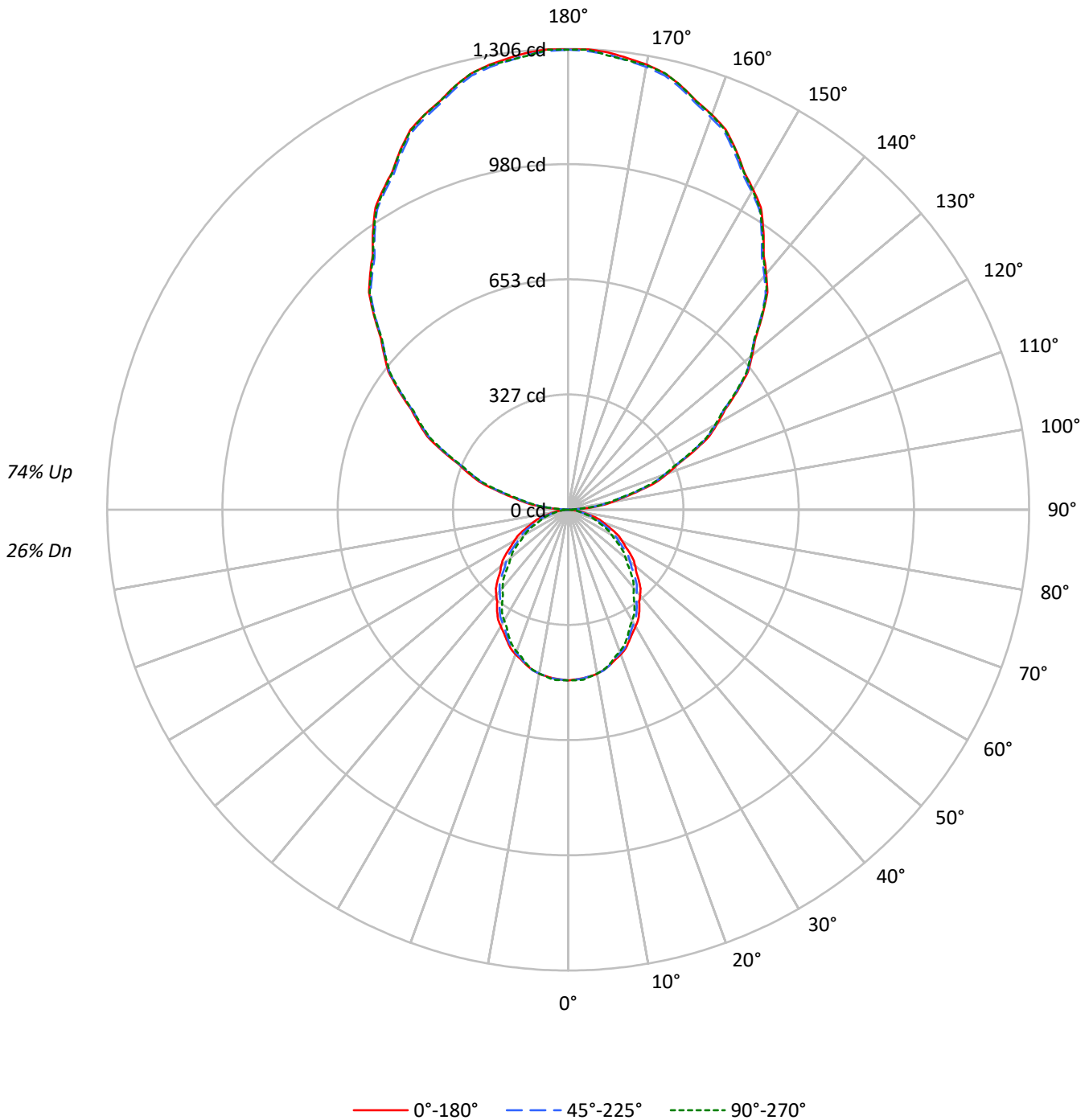
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1 | 92 | 88 | 85 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 42 | 30 | 29 | 29 | 22 |
| 2 | 84 | 77 | 71 | 66 | 75 | 69 | 64 | 60 | 54 | 50 | 47 | 39 | 37 | 36 | 26 | 25 | 24 | 18 |
| 3 | 77 | 68 | 61 | 55 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 23 | 22 | 21 | 16 |
| 4 | 70 | 60 | 52 | 47 | 62 | 54 | 47 | 42 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 19 | 18 | 14 |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 | 12 |
| 6 | 59 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 | 10 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9 |
| 8 | 51 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 14 | 12 | 11 | 8 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 13 | 11 | 10 | 8 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 14 | 12 | 12 | 10 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5475 | 5475 | 5475 |
| 5° | 5448 | 5453 | 5495 |
| 10° | 5425 | 5417 | 5417 |
| 15° | 5343 | 5343 | 5310 |
| 20° | 5256 | 5203 | 5145 |
| 25° | 5112 | 5047 | 4957 |
| 30° | 4987 | 4858 | 4740 |
| 35° | 4855 | 4676 | 4510 |
| 40° | 4681 | 4458 | 4266 |
| 45° | 4522 | 4264 | 4000 |
| 50° | 4358 | 4033 | 3742 |
| 55° | 4180 | 3809 | 3497 |
| 60° | 3990 | 3578 | 3220 |
| 65° | 3764 | 3314 | 2929 |
| 70° | 3507 | 3007 | 2610 |
| 75° | 3178 | 2640 | 2326 |
| 80° | 2769 | 2215 | 2059 |
| 85° | 2142 | 1869 | 1869 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4522 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.7 | 1.0 |
| 10°-20° | 128.3 | 2.8 |
| 20°-30° | 186.1 | 4.1 |
| 30°-40° | 211.4 | 4.7 |
| 40°-50° | 205.2 | 4.5 |
| 50°-60° | 173.3 | 3.8 |
| 60°-70° | 123.3 | 2.7 |
| 70°-80° | 65.9 | 1.5 |
| 80°-90° | 17.4 | 0.4 |
| 90°-100° | 55.1 | 1.2 |
| 100°-110° | 215.6 | 4.8 |
| 110°-120° | 384.3 | 8.5 |
| 120°-130° | 520.0 | 11.5 |
| 130°-140° | 597.9 | 13.2 |
| 140°-150° | 599.9 | 13.3 |
| 150°-160° | 515.9 | 11.4 |
| 160°-170° | 349.2 | 7.7 |
| 170°-180° | 123.2 | 2.7 |
| 0°-30° | 360.0 | 8.0 |
| 0°-40° | 571.4 | 12.6 |
| 0°-60° | 949.9 | 21.0 |
| 0°-90° | 1156.5 | 25.6 |
| 90°-120° | 655.0 | 14.5 |
| 90°-150° | 2372.9 | 52.5 |
| 90°-180° | 3361.0 | 74.4 |
| 0°-180° | 4517.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 484 | 484 | 484 | 484 | 484 | |
| 5° | 480 | 486 | 480 | 480 | 484 | 46 |
| 15° | 456 | 460 | 456 | 453 | 453 | 128 |
| 25° | 410 | 411 | 404 | 399 | 397 | 189 |
| 35° | 352 | 348 | 338 | 328 | 326 | 219 |
| 45° | 283 | 278 | 266 | 254 | 250 | 218 |
| 55° | 212 | 206 | 193 | 181 | 177 | 189 |
| 65° | 141 | 136 | 124 | 113 | 109 | 139 |
| 75° | 73 | 69 | 60 | 54 | 53 | 78 |
| 85° | 16 | 15 | 14 | 14 | 14 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 53 | 48 | 43 | 40 | 41 | 60 |
| 105° | 209 | 208 | 201 | 198 | 196 | 223 |
| 115° | 392 | 394 | 385 | 384 | 383 | 389 |
| 125° | 584 | 591 | 579 | 577 | 578 | 522 |
| 135° | 778 | 786 | 773 | 767 | 775 | 600 |
| 145° | 964 | 972 | 956 | 951 | 960 | 602 |
| 155° | 1125 | 1135 | 1116 | 1111 | 1123 | 517 |
| 165° | 1242 | 1253 | 1236 | 1229 | 1242 | 350 |
| 175° | 1301 | 1313 | 1295 | 1287 | 1292 | 123 |
| 180° | 1304 | 1304 | 1304 | 1304 | 1304 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 483.9 | 483.9 | 483.9 | 483.9 | 483.9 |
| 2.5° | 481.4 | 486.2 | 481.9 | 482.5 | 483.6 |
| 5° | 479.7 | 485.8 | 480.1 | 479.5 | 483.8 |
| 7.5° | 476.0 | 481.5 | 475.6 | 474.3 | 477.3 |
| 10° | 472.2 | 478.2 | 471.5 | 469.8 | 471.5 |
| 12.5° | 465.3 | 471.6 | 466.3 | 463.5 | 464.9 |
| 15° | 456.1 | 460.1 | 456.1 | 453.3 | 453.3 |
| 17.5° | 444.8 | 449.0 | 441.4 | 439.5 | 438.5 |
| 20° | 436.5 | 440.2 | 432.1 | 429.3 | 427.3 |
| 22.5° | 425.6 | 429.0 | 422.2 | 416.7 | 415.2 |
| 25° | 409.5 | 410.8 | 404.3 | 398.8 | 397.1 |
| 27.5° | 394.3 | 394.7 | 385.7 | 379.0 | 376.8 |
| 30° | 381.7 | 382.0 | 371.8 | 364.5 | 362.8 |
| 32.5° | 369.1 | 368.1 | 358.3 | 349.7 | 348.6 |
| 35° | 351.5 | 348.2 | 338.5 | 328.5 | 326.5 |
| 37.5° | 330.3 | 328.3 | 316.9 | 306.9 | 303.8 |
| 40° | 316.9 | 313.5 | 301.8 | 291.8 | 288.8 |
| 42.5° | 303.4 | 299.5 | 287.5 | 276.4 | 273.1 |
| 45° | 282.6 | 278.2 | 266.5 | 253.7 | 250.0 |
| 47.5° | 261.6 | 256.8 | 243.9 | 231.5 | 227.4 |
| 50° | 247.6 | 242.6 | 229.1 | 217.0 | 212.6 |
| 52.5° | 233.3 | 228.0 | 214.5 | 202.2 | 198.6 |
| 55° | 211.9 | 206.2 | 193.1 | 180.7 | 177.3 |
| 57.5° | 190.5 | 184.9 | 171.8 | 160.1 | 156.0 |
| 60° | 176.3 | 170.9 | 158.1 | 146.3 | 142.3 |
| 62.5° | 161.7 | 156.6 | 144.1 | 132.6 | 128.9 |
| 65° | 140.6 | 135.6 | 123.8 | 112.8 | 109.4 |
| 67.5° | 119.7 | 115.4 | 103.8 | 93.6 | 90.9 |
| 70° | 106.0 | 101.9 | 90.9 | 81.6 | 78.9 |
| 72.5° | 92.8 | 88.5 | 78.0 | 70.1 | 68.2 |
| 75° | 72.7 | 68.7 | 60.4 | 54.2 | 53.2 |
| 77.5° | 54.3 | 51.0 | 43.8 | 40.3 | 39.8 |
| 80° | 42.5 | 39.5 | 34.0 | 31.6 | 31.6 |
| 82.5° | 31.6 | 29.1 | 25.4 | 24.4 | 24.4 |
| 85° | 16.5 | 15.1 | 14.4 | 14.4 | 14.4 |
| 87.5° | 4.9 | 4.9 | 4.7 | 4.4 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 14.4 | 12.8 | 8.0 | 6.4 | 6.4 |
| 95° | 53.0 | 48.1 | 43.0 | 40.0 | 41.0 |
| 97.5° | 97.8 | 93.1 | 86.8 | 83.8 | 84.6 |
| 100° | 129.0 | 125.1 | 118.0 | 115.0 | 115.0 |
| 102.5° | 159.4 | 157.1 | 150.0 | 147.0 | 147.8 |
| 105° | 209.0 | 208.0 | 201.0 | 198.0 | 196.0 |
| 107.5° | 263.8 | 262.0 | 254.2 | 254.0 | 252.2 |
| 110° | 299.0 | 298.0 | 291.0 | 290.0 | 289.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 335.0 | 336.4 | 328.6 | 327.6 | 326.6 |
| 115° | 392.0 | 394.0 | 385.0 | 384.0 | 383.0 |
| 117.5° | 450.4 | 453.1 | 443.6 | 442.6 | 440.8 |
| 120° | 488.0 | 493.9 | 482.0 | 481.0 | 480.0 |
| 122.5° | 526.4 | 531.5 | 520.4 | 518.6 | 518.4 |
| 125° | 584.0 | 590.8 | 579.0 | 577.0 | 578.0 |
| 127.5° | 641.6 | 648.6 | 637.6 | 633.6 | 635.8 |
| 130° | 680.0 | 687.8 | 676.0 | 672.1 | 675.0 |
| 132.5° | 719.2 | 727.0 | 715.2 | 711.3 | 715.8 |
| 135° | 778.0 | 785.8 | 773.0 | 767.2 | 775.0 |
| 137.5° | 835.4 | 842.2 | 828.2 | 824.2 | 832.4 |
| 140° | 873.0 | 879.8 | 865.0 | 860.2 | 870.0 |
| 142.5° | 909.8 | 917.4 | 901.0 | 896.2 | 906.8 |
| 145° | 964.0 | 971.8 | 956.0 | 951.2 | 960.0 |
| 147.5° | 1016.0 | 1024.0 | 1008.0 | 1002.4 | 1011.4 |
| 150° | 1048.0 | 1056.8 | 1040.0 | 1035.2 | 1045.0 |
| 152.5° | 1079.2 | 1088.8 | 1071.2 | 1065.7 | 1077.8 |
| 155° | 1125.0 | 1134.8 | 1116.0 | 1111.3 | 1123.0 |
| 157.5° | 1166.2 | 1175.2 | 1158.2 | 1153.4 | 1163.6 |
| 160° | 1191.0 | 1200.8 | 1183.0 | 1178.3 | 1190.0 |
| 162.5° | 1212.6 | 1222.4 | 1206.2 | 1199.9 | 1211.6 |
| 165° | 1242.0 | 1252.8 | 1236.0 | 1229.3 | 1242.0 |
| 167.5° | 1266.6 | 1278.1 | 1260.4 | 1254.3 | 1267.0 |
| 170° | 1281.0 | 1291.8 | 1274.0 | 1266.3 | 1279.0 |
| 172.5° | 1290.6 | 1301.4 | 1283.6 | 1275.8 | 1284.6 |
| 175° | 1301.0 | 1312.7 | 1295.0 | 1287.1 | 1292.0 |
| 177.5° | 1305.6 | 1315.0 | 1300.8 | 1293.8 | 1304.8 |
| 180° | 1304.0 | 1304.0 | 1304.0 | 1304.0 | 1304.0 |



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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 | 10.19 | 10.86 | 11.33 | 11.99 | 13.58 | 9.11 | 9.78 | 10.26 | 10.92 | 12.50 |
| | 3H | 11.84 | 12.44 | 12.99 | 13.58 | 15.18 | 10.51 | 11.11 | 11.66 | 12.25 | 13.85 |
| | 4H | 12.46 | 13.03 | 13.62 | 14.17 | 15.78 | 11.02 | 11.59 | 12.18 | 12.73 | 14.33 |
| | 6H | 12.84 | 13.36 | 14.01 | 14.51 | 16.12 | 11.33 | 11.85 | 12.50 | 13.00 | 14.61 |
| | 8H | 12.97 | 13.47 | 14.14 | 14.63 | 16.23 | 11.44 | 11.95 | 12.62 | 13.10 | 14.71 |
| | 12H | 13.03 | 13.51 | 14.20 | 14.66 | 16.28 | 11.51 | 11.99 | 12.69 | 13.14 | 14.77 |
| 4H | 2H | 10.57 | 11.15 | 11.74 | 12.29 | 13.89 | 9.72 | 10.29 | 10.88 | 11.43 | 13.03 |
| | 3H | 12.45 | 12.92 | 13.62 | 14.09 | 15.70 | 11.32 | 11.79 | 12.49 | 12.96 | 14.57 |
| | 4H | 13.19 | 13.63 | 14.36 | 14.78 | 16.41 | 11.92 | 12.36 | 13.09 | 13.51 | 15.14 |
| | 6H | 13.68 | 14.05 | 14.86 | 15.23 | 16.85 | 12.32 | 12.69 | 13.50 | 13.87 | 15.49 |
| | 8H | 13.87 | 14.22 | 15.04 | 15.38 | 17.02 | 12.48 | 12.83 | 13.66 | 14.00 | 15.64 |
| | 12H | 13.95 | 14.27 | 15.15 | 15.45 | 17.10 | 12.58 | 12.90 | 13.77 | 14.08 | 15.72 |
| 8H | 4H | 13.30 | 13.65 | 14.48 | 14.82 | 16.46 | 12.16 | 12.51 | 13.34 | 13.68 | 15.32 |
| | 6H | 13.91 | 14.20 | 15.11 | 15.41 | 17.05 | 12.68 | 12.97 | 13.88 | 14.18 | 15.82 |
| | 8H | 14.19 | 14.44 | 15.39 | 15.63 | 17.28 | 12.94 | 13.19 | 14.14 | 14.37 | 16.03 |
| | 12H | 14.34 | 14.56 | 15.55 | 15.75 | 17.44 | 13.10 | 13.32 | 14.31 | 14.51 | 16.20 |
| 12H | 4H | 13.27 | 13.58 | 14.46 | 14.76 | 16.41 | 12.16 | 12.47 | 13.35 | 13.65 | 15.30 |
| | 6H | 13.93 | 14.18 | 15.13 | 15.37 | 17.02 | 12.74 | 12.99 | 13.94 | 14.18 | 15.84 |
| | 8H | 14.22 | 14.44 | 15.42 | 15.62 | 17.31 | 13.01 | 13.23 | 14.22 | 14.42 | 16.11 |