

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: FAIL-SAFE

Report Number: P1357568

Luminaire Tested: 8ASL4-5HE-2-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 8ASL4-5HE-2-92765-UNV_3000K
Description: 8FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

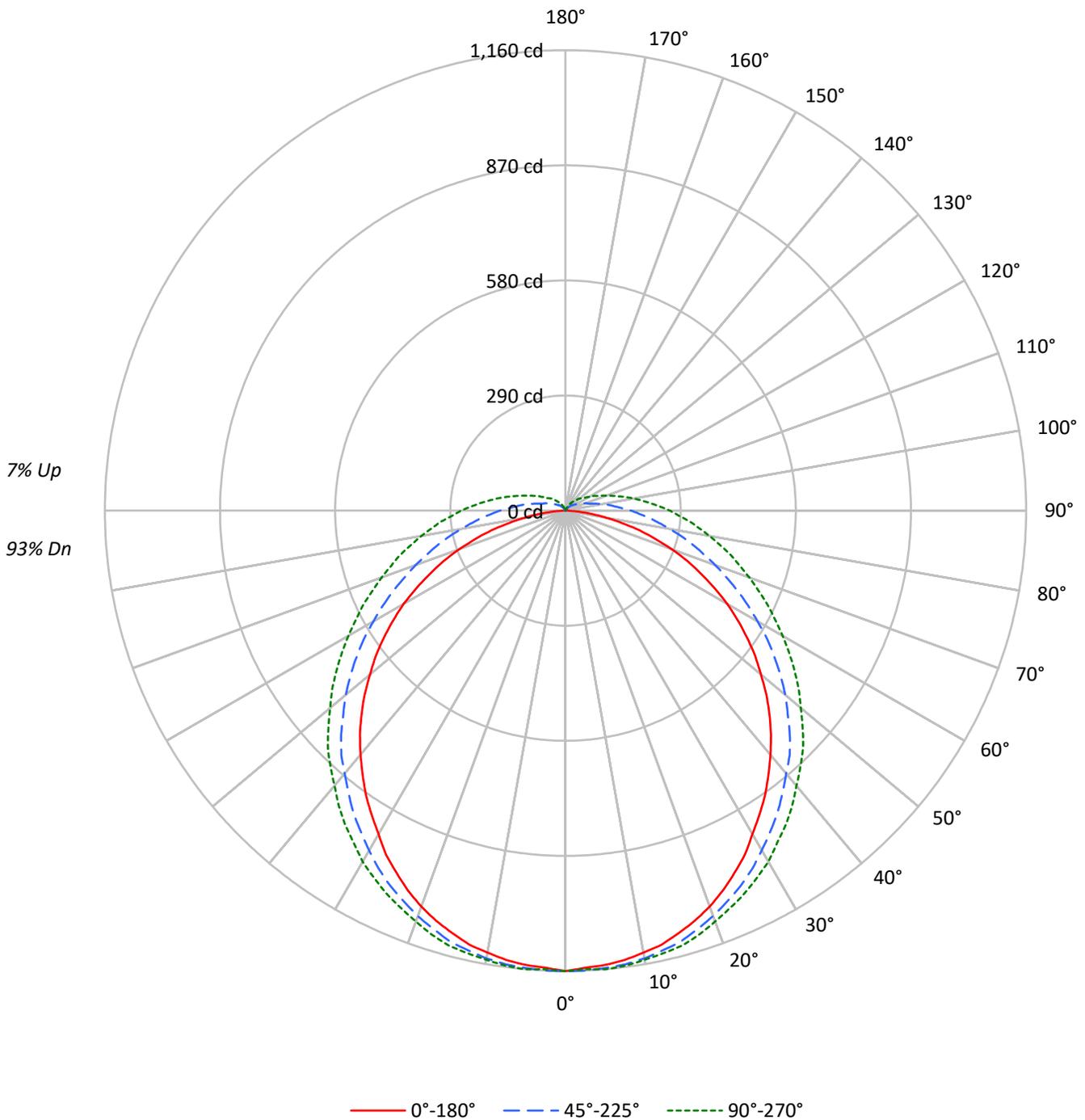
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.2
Input Voltage (V): NR
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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 95 | 95 | 95 | 93 |
| 1 | 105 | 100 | 95 | 90 | 102 | 97 | 92 | 88 | 91 | 87 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 77 | 77 | 77 | 74 |
| 2 | 95 | 86 | 79 | 72 | 92 | 84 | 77 | 71 | 79 | 73 | 68 | 74 | 70 | 65 | 70 | 66 | 63 | 63 | 63 | 63 | 60 |
| 3 | 86 | 75 | 66 | 59 | 83 | 73 | 65 | 58 | 69 | 62 | 56 | 65 | 59 | 55 | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4 | 79 | 66 | 57 | 50 | 76 | 64 | 56 | 49 | 61 | 54 | 48 | 58 | 51 | 46 | 55 | 49 | 45 | 45 | 45 | 45 | 42 |
| 5 | 72 | 59 | 50 | 43 | 70 | 57 | 49 | 42 | 54 | 47 | 41 | 52 | 45 | 40 | 49 | 43 | 39 | 39 | 39 | 39 | 36 |
| 6 | 67 | 53 | 44 | 37 | 64 | 52 | 43 | 37 | 49 | 41 | 36 | 47 | 40 | 35 | 44 | 39 | 34 | 34 | 34 | 34 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 30 | 30 | 30 | 28 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 34 | 29 | 41 | 33 | 28 | 39 | 32 | 28 | 37 | 31 | 27 | 27 | 27 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 25 | 34 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 22 | 22 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4695 | 4695 | 4695 |
| 5° | 4664 | 4606 | 4588 |
| 10° | 4637 | 4524 | 4476 |
| 15° | 4600 | 4435 | 4387 |
| 20° | 4551 | 4320 | 4261 |
| 25° | 4469 | 4208 | 4152 |
| 30° | 4366 | 4078 | 4044 |
| 35° | 4287 | 3959 | 3919 |
| 40° | 4195 | 3829 | 3787 |
| 45° | 4102 | 3717 | 3691 |
| 50° | 3981 | 3569 | 3548 |
| 55° | 3866 | 3410 | 3435 |
| 60° | 3725 | 3230 | 3315 |
| 65° | 3501 | 3064 | 3222 |
| 70° | 3251 | 2909 | 3136 |
| 75° | 2884 | 2792 | 3107 |
| 80° | 2296 | 2692 | 3098 |
| 85° | 1475 | 2706 | 3187 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4102 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|---------------|--------------|
| 0°-10° | 110.0 | 2.8 |
| 10°-20° | 316.3 | 7.9 |
| 20°-30° | 479.2 | 12.0 |
| 30°-40° | 579.6 | 14.6 |
| 40°-50° | 611.1 | 15.3 |
| 50°-60° | 570.3 | 14.3 |
| 60°-70° | 470.9 | 11.8 |
| 70°-80° | 341.6 | 8.6 |
| 80°-90° | 215.8 | 5.4 |
| 90°-100° | 128.8 | 3.2 |
| 100°-110° | 73.8 | 1.9 |
| 110°-120° | 41.9 | 1.1 |
| 120°-130° | 23.9 | 0.6 |
| 130°-140° | 12.9 | 0.3 |
| 140°-150° | 5.7 | 0.1 |
| 150°-160° | 1.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 905.5 | 22.7 |
| 0°-40° | 1485.2 | 37.3 |
| 0°-60° | 2666.6 | 66.9 |
| 0°-90° | 3694.8 | 92.8 |
| 90°-120° | 244.6 | 6.1 |
| 90°-150° | 287.1 | 7.2 |
| 90°-180° | 288.0 | 7.2 |
| 0°-180° | 3983.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1160 | 1160 | 1160 | 1160 | 1160 | |
| 5° | 1149 | 1160 | 1157 | 1157 | 1160 | 109 |
| 15° | 1102 | 1116 | 1124 | 1127 | 1135 | 311 |
| 25° | 1007 | 1022 | 1044 | 1058 | 1065 | 464 |
| 35° | 876 | 898 | 930 | 956 | 967 | 547 |
| 45° | 726 | 755 | 799 | 832 | 846 | 560 |
| 55° | 558 | 591 | 642 | 686 | 704 | 499 |
| 65° | 376 | 416 | 478 | 536 | 562 | 373 |
| 75° | 193 | 244 | 332 | 401 | 430 | 203 |
| 85° | 36 | 113 | 212 | 285 | 314 | 45 |
| 90° | 0 | 69 | 164 | 234 | 263 | 1 |
| 95° | 0 | 44 | 124 | 190 | 215 | 0 |
| 105° | 0 | 15 | 69 | 120 | 139 | 0 |
| 115° | 0 | 7 | 40 | 73 | 88 | 0 |
| 125° | 0 | 4 | 26 | 47 | 55 | 0 |
| 135° | 0 | 0 | 15 | 29 | 36 | 0 |
| 145° | 0 | 0 | 7 | 18 | 22 | 0 |
| 155° | 0 | 0 | 0 | 4 | 7 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1160.2 | 1160.2 | 1160.2 | 1160.2 | 1160.2 |
| 2.5° | 1152.9 | 1163.9 | 1160.2 | 1156.6 | 1156.6 |
| 5° | 1149.3 | 1160.2 | 1156.6 | 1156.6 | 1160.2 |
| 7.5° | 1142.0 | 1152.9 | 1152.9 | 1152.9 | 1156.6 |
| 10° | 1131.0 | 1145.6 | 1145.6 | 1145.6 | 1149.3 |
| 12.5° | 1120.1 | 1131.0 | 1134.7 | 1138.3 | 1142.0 |
| 15° | 1101.8 | 1116.4 | 1123.7 | 1127.4 | 1134.7 |
| 17.5° | 1083.6 | 1094.5 | 1105.5 | 1116.4 | 1120.1 |
| 20° | 1061.7 | 1076.3 | 1087.2 | 1098.2 | 1101.8 |
| 22.5° | 1036.2 | 1050.8 | 1065.3 | 1076.3 | 1083.6 |
| 25° | 1007.0 | 1021.6 | 1043.5 | 1058.1 | 1065.3 |
| 27.5° | 977.8 | 992.4 | 1017.9 | 1036.2 | 1043.5 |
| 30° | 941.3 | 963.2 | 988.7 | 1010.6 | 1021.6 |
| 32.5° | 908.5 | 930.4 | 959.5 | 985.1 | 992.4 |
| 35° | 875.6 | 897.5 | 930.4 | 955.9 | 966.8 |
| 37.5° | 839.1 | 864.7 | 897.5 | 926.7 | 937.7 |
| 40° | 802.7 | 828.2 | 864.7 | 897.5 | 904.8 |
| 42.5° | 766.2 | 791.7 | 835.5 | 864.7 | 875.6 |
| 45° | 726.0 | 755.2 | 799.0 | 831.8 | 846.4 |
| 47.5° | 685.9 | 715.1 | 758.9 | 795.4 | 810.0 |
| 50° | 642.1 | 675.0 | 722.4 | 758.9 | 773.5 |
| 52.5° | 602.0 | 634.8 | 682.3 | 722.4 | 740.6 |
| 55° | 558.2 | 591.0 | 642.1 | 685.9 | 704.2 |
| 57.5° | 514.4 | 547.3 | 602.0 | 649.4 | 667.7 |
| 60° | 470.6 | 503.5 | 558.2 | 612.9 | 631.2 |
| 62.5° | 423.2 | 459.7 | 518.1 | 572.8 | 594.7 |
| 65° | 375.8 | 415.9 | 477.9 | 536.3 | 561.9 |
| 67.5° | 332.0 | 372.1 | 437.8 | 503.5 | 525.4 |
| 70° | 284.6 | 328.4 | 401.3 | 467.0 | 492.5 |
| 72.5° | 237.1 | 284.6 | 364.8 | 434.2 | 459.7 |
| 75° | 193.4 | 244.4 | 332.0 | 401.3 | 430.5 |
| 77.5° | 145.9 | 208.0 | 299.2 | 372.1 | 397.7 |
| 80° | 105.8 | 171.5 | 266.3 | 343.0 | 368.5 |
| 82.5° | 69.3 | 138.6 | 237.1 | 313.8 | 339.3 |
| 85° | 36.5 | 113.1 | 211.6 | 284.6 | 313.8 |
| 87.5° | 10.9 | 87.6 | 186.1 | 259.0 | 284.6 |
| 90° | 0.0 | 69.3 | 164.2 | 233.5 | 262.7 |
| 92.5° | 0.0 | 54.7 | 142.3 | 211.6 | 237.1 |
| 95° | 0.0 | 43.8 | 124.0 | 189.7 | 215.3 |
| 97.5° | 0.0 | 36.5 | 109.5 | 171.5 | 193.4 |
| 100° | 0.0 | 29.2 | 94.9 | 153.2 | 175.1 |
| 102.5° | 0.0 | 21.9 | 80.3 | 135.0 | 156.9 |
| 105° | 0.0 | 14.6 | 69.3 | 120.4 | 138.6 |
| 107.5° | 0.0 | 10.9 | 58.4 | 105.8 | 124.0 |
| 110° | 0.0 | 10.9 | 54.7 | 91.2 | 109.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 7.3 | 47.4 | 83.9 | 98.5 |
| 115° | 0.0 | 7.3 | 40.1 | 73.0 | 87.6 |
| 117.5° | 0.0 | 7.3 | 36.5 | 65.7 | 80.3 |
| 120° | 0.0 | 7.3 | 32.8 | 58.4 | 69.3 |
| 122.5° | 0.0 | 3.6 | 29.2 | 51.1 | 62.0 |
| 125° | 0.0 | 3.6 | 25.5 | 47.4 | 54.7 |
| 127.5° | 0.0 | 3.6 | 21.9 | 43.8 | 51.1 |
| 130° | 0.0 | 3.6 | 21.9 | 40.1 | 47.4 |
| 132.5° | 0.0 | 0.0 | 18.2 | 36.5 | 43.8 |
| 135° | 0.0 | 0.0 | 14.6 | 29.2 | 36.5 |
| 137.5° | 0.0 | 0.0 | 14.6 | 25.5 | 32.8 |
| 140° | 0.0 | 0.0 | 10.9 | 25.5 | 29.2 |
| 142.5° | 0.0 | 0.0 | 7.3 | 21.9 | 25.5 |
| 145° | 0.0 | 0.0 | 7.3 | 18.2 | 21.9 |
| 147.5° | 0.0 | 0.0 | 3.6 | 14.6 | 18.2 |
| 150° | 0.0 | 0.0 | 3.6 | 10.9 | 14.6 |
| 152.5° | 0.0 | 0.0 | 0.0 | 7.3 | 10.9 |
| 155° | 0.0 | 0.0 | 0.0 | 3.6 | 7.3 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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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 | 14.70 | 16.24 | 15.17 | 16.70 | 17.19 | 16.80 | 18.34 | 17.28 | 18.80 | 19.29 |
| | 3H | 16.20 | 17.60 | 16.69 | 18.07 | 18.60 | 19.27 | 20.67 | 19.76 | 21.14 | 21.67 |
| | 4H | 16.68 | 18.01 | 17.19 | 18.50 | 19.04 | 20.50 | 21.83 | 21.01 | 22.31 | 22.86 |
| | 6H | 16.96 | 18.19 | 17.48 | 18.69 | 19.25 | 21.80 | 23.03 | 22.32 | 23.54 | 24.10 |
| | 8H | 17.01 | 18.20 | 17.54 | 18.72 | 19.29 | 22.48 | 23.67 | 23.01 | 24.19 | 24.76 |
| | 12H | 17.02 | 18.16 | 17.56 | 18.68 | 19.28 | 23.25 | 24.38 | 23.79 | 24.90 | 25.50 |
| 4H | 2H | 15.59 | 16.92 | 16.10 | 17.40 | 17.95 | 17.23 | 18.56 | 17.74 | 19.05 | 19.59 |
| | 3H | 17.33 | 18.46 | 17.85 | 18.99 | 19.56 | 19.93 | 21.06 | 20.45 | 21.59 | 22.16 |
| | 4H | 17.94 | 18.98 | 18.48 | 19.52 | 20.12 | 21.33 | 22.37 | 21.87 | 22.91 | 23.51 |
| | 6H | 18.34 | 19.26 | 18.90 | 19.82 | 20.44 | 22.83 | 23.74 | 23.39 | 24.31 | 24.92 |
| | 8H | 18.44 | 19.30 | 19.00 | 19.87 | 20.49 | 23.62 | 24.48 | 24.18 | 25.05 | 25.67 |
| | 12H | 18.48 | 19.27 | 19.07 | 19.86 | 20.49 | 24.51 | 25.29 | 25.10 | 25.89 | 26.52 |
| 8H | 4H | 18.64 | 19.51 | 19.21 | 20.07 | 20.70 | 21.55 | 22.41 | 22.11 | 22.98 | 23.60 |
| | 6H | 19.23 | 19.96 | 19.83 | 20.57 | 21.20 | 23.22 | 23.95 | 23.82 | 24.56 | 25.19 |
| | 8H | 19.42 | 20.08 | 20.03 | 20.70 | 21.34 | 24.15 | 24.81 | 24.76 | 25.43 | 26.08 |
| | 12H | 19.54 | 20.13 | 20.15 | 20.74 | 21.45 | 25.23 | 25.82 | 25.84 | 26.43 | 27.14 |
| 12H | 4H | 18.85 | 19.63 | 19.44 | 20.23 | 20.86 | 21.56 | 22.34 | 22.14 | 22.94 | 23.57 |
| | 6H | 19.54 | 20.20 | 20.15 | 20.82 | 21.46 | 23.26 | 23.92 | 23.87 | 24.54 | 25.18 |
| | 8H | 19.83 | 20.42 | 20.44 | 21.03 | 21.74 | 24.26 | 24.85 | 24.87 | 25.46 | 26.17 |