

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: P1356957

Luminaire Tested: 2ASL4-5HE-2-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356957
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: 2ASL4-5HE-2-92765-UNV_3500K
Description: 2FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

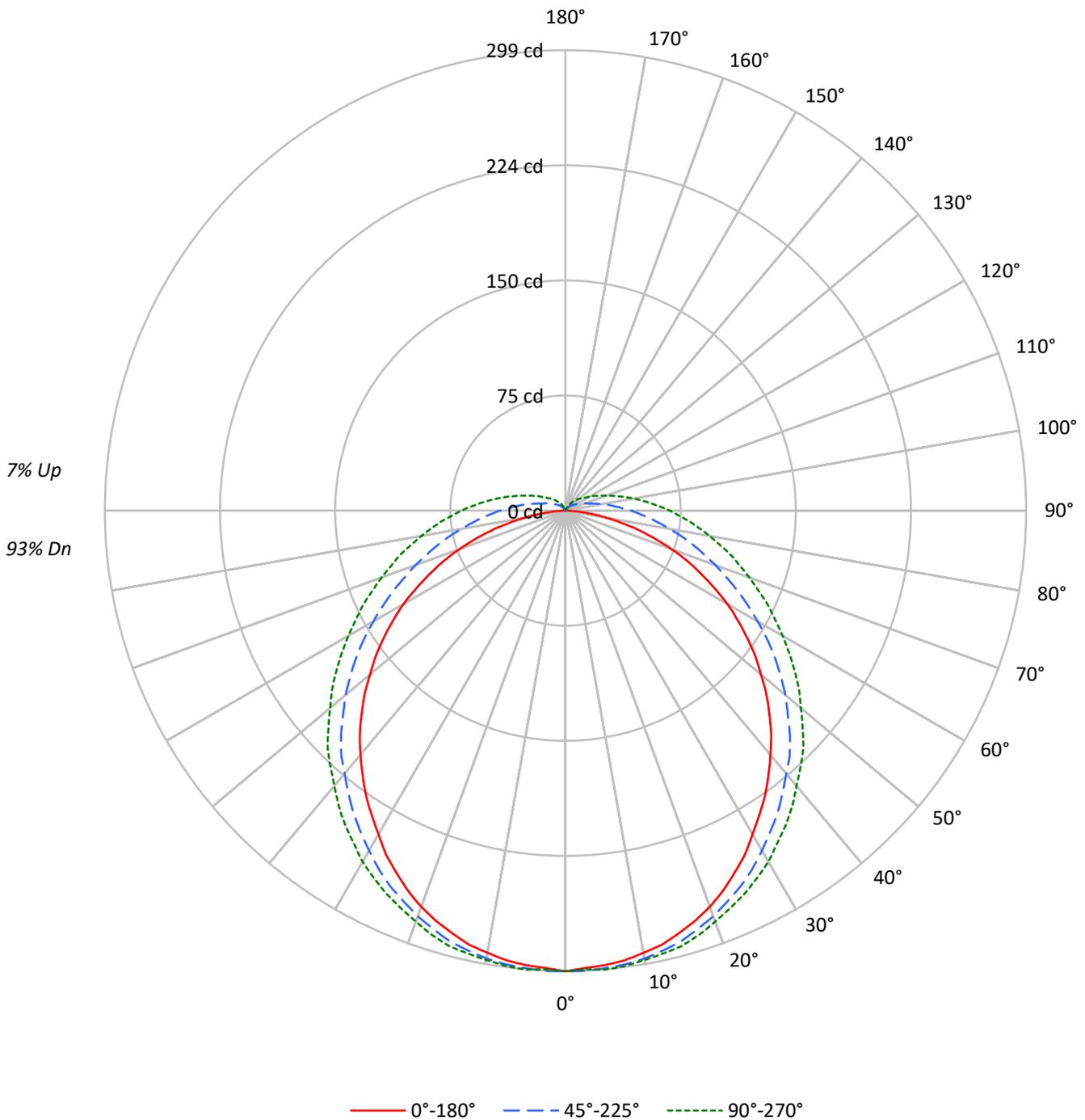
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1027.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 8.6
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

TEST NUMBER: P1356957
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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° | 4882 | 4882 | 4882 |
| 5° | 4831 | 4776 | 4770 |
| 10° | 4787 | 4681 | 4653 |
| 15° | 4732 | 4577 | 4561 |
| 20° | 4665 | 4449 | 4429 |
| 25° | 4562 | 4324 | 4316 |
| 30° | 4438 | 4179 | 4204 |
| 35° | 4338 | 4047 | 4074 |
| 40° | 4222 | 3904 | 3937 |
| 45° | 4104 | 3778 | 3838 |
| 50° | 3955 | 3616 | 3688 |
| 55° | 3807 | 3442 | 3572 |
| 60° | 3631 | 3245 | 3445 |
| 65° | 3362 | 3061 | 3349 |
| 70° | 3059 | 2888 | 3260 |
| 75° | 2629 | 2748 | 3230 |
| 80° | 1975 | 2619 | 3220 |
| 85° | 1099 | 2587 | 3313 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4104 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.4 | 2.8 |
| 10°-20° | 81.5 | 7.9 |
| 20°-30° | 123.6 | 12.0 |
| 30°-40° | 149.5 | 14.6 |
| 40°-50° | 157.6 | 15.3 |
| 50°-60° | 147.1 | 14.3 |
| 60°-70° | 121.4 | 11.8 |
| 70°-80° | 88.1 | 8.6 |
| 80°-90° | 55.6 | 5.4 |
| 90°-100° | 33.2 | 3.2 |
| 100°-110° | 19.0 | 1.9 |
| 110°-120° | 10.8 | 1.1 |
| 120°-130° | 6.2 | 0.6 |
| 130°-140° | 3.3 | 0.3 |
| 140°-150° | 1.5 | 0.1 |
| 150°-160° | 0.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 233.5 | 22.7 |
| 0°-40° | 382.9 | 37.3 |
| 0°-60° | 687.6 | 67.0 |
| 0°-90° | 952.7 | 92.8 |
| 90°-120° | 63.1 | 6.1 |
| 90°-150° | 74.0 | 7.2 |
| 90°-180° | 74.0 | 7.2 |
| 0°-180° | 1027.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 299 | 299 | 299 | 299 | 299 | |
| 5° | 296 | 299 | 298 | 298 | 299 | 28 |
| 15° | 284 | 288 | 290 | 291 | 293 | 80 |
| 25° | 260 | 263 | 269 | 273 | 275 | 120 |
| 35° | 226 | 231 | 240 | 246 | 249 | 141 |
| 45° | 187 | 195 | 206 | 214 | 218 | 144 |
| 55° | 144 | 152 | 166 | 177 | 182 | 129 |
| 65° | 97 | 107 | 123 | 138 | 145 | 96 |
| 75° | 50 | 63 | 86 | 104 | 111 | 52 |
| 85° | 9 | 29 | 55 | 73 | 81 | 12 |
| 90° | 0 | 18 | 42 | 60 | 68 | 0 |
| 95° | 0 | 11 | 32 | 49 | 56 | 0 |
| 105° | 0 | 4 | 18 | 31 | 36 | 0 |
| 115° | 0 | 2 | 10 | 19 | 23 | 0 |
| 125° | 0 | 1 | 7 | 12 | 14 | 0 |
| 135° | 0 | 0 | 4 | 8 | 9 | 0 |
| 145° | 0 | 0 | 2 | 5 | 6 | 0 |
| 155° | 0 | 0 | 0 | 1 | 2 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1356957

CATALOG NUMBER: 2ASL4-5HE-2-92765-UNV_3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 |
| 2.5° | 297.3 | 300.1 | 299.2 | 298.2 | 298.2 |
| 5° | 296.3 | 299.2 | 298.2 | 298.2 | 299.2 |
| 7.5° | 294.5 | 297.3 | 297.3 | 297.3 | 298.2 |
| 10° | 291.6 | 295.4 | 295.4 | 295.4 | 296.3 |
| 12.5° | 288.8 | 291.6 | 292.6 | 293.5 | 294.5 |
| 15° | 284.1 | 287.9 | 289.7 | 290.7 | 292.6 |
| 17.5° | 279.4 | 282.2 | 285.0 | 287.9 | 288.8 |
| 20° | 273.8 | 277.5 | 280.3 | 283.2 | 284.1 |
| 22.5° | 267.2 | 270.9 | 274.7 | 277.5 | 279.4 |
| 25° | 259.6 | 263.4 | 269.1 | 272.8 | 274.7 |
| 27.5° | 252.1 | 255.9 | 262.5 | 267.2 | 269.1 |
| 30° | 242.7 | 248.4 | 254.9 | 260.6 | 263.4 |
| 32.5° | 234.2 | 239.9 | 247.4 | 254.0 | 255.9 |
| 35° | 225.8 | 231.4 | 239.9 | 246.5 | 249.3 |
| 37.5° | 216.4 | 223.0 | 231.4 | 238.9 | 241.8 |
| 40° | 207.0 | 213.5 | 223.0 | 231.4 | 233.3 |
| 42.5° | 197.6 | 204.1 | 215.4 | 223.0 | 225.8 |
| 45° | 187.2 | 194.7 | 206.0 | 214.5 | 218.3 |
| 47.5° | 176.9 | 184.4 | 195.7 | 205.1 | 208.8 |
| 50° | 165.6 | 174.0 | 186.3 | 195.7 | 199.4 |
| 52.5° | 155.2 | 163.7 | 175.9 | 186.3 | 191.0 |
| 55° | 143.9 | 152.4 | 165.6 | 176.9 | 181.6 |
| 57.5° | 132.6 | 141.1 | 155.2 | 167.5 | 172.2 |
| 60° | 121.4 | 129.8 | 143.9 | 158.0 | 162.7 |
| 62.5° | 109.1 | 118.5 | 133.6 | 147.7 | 153.3 |
| 65° | 96.9 | 107.2 | 123.2 | 138.3 | 144.9 |
| 67.5° | 85.6 | 96.0 | 112.9 | 129.8 | 135.5 |
| 70° | 73.4 | 84.7 | 103.5 | 120.4 | 127.0 |
| 72.5° | 61.1 | 73.4 | 94.1 | 111.9 | 118.5 |
| 75° | 49.9 | 63.0 | 85.6 | 103.5 | 111.0 |
| 77.5° | 37.6 | 53.6 | 77.1 | 96.0 | 102.5 |
| 80° | 27.3 | 44.2 | 68.7 | 88.4 | 95.0 |
| 82.5° | 17.9 | 35.7 | 61.1 | 80.9 | 87.5 |
| 85° | 9.4 | 29.2 | 54.6 | 73.4 | 80.9 |
| 87.5° | 2.8 | 22.6 | 48.0 | 66.8 | 73.4 |
| 90° | 0.0 | 17.9 | 42.3 | 60.2 | 67.7 |
| 92.5° | 0.0 | 14.1 | 36.7 | 54.6 | 61.1 |
| 95° | 0.0 | 11.3 | 32.0 | 48.9 | 55.5 |
| 97.5° | 0.0 | 9.4 | 28.2 | 44.2 | 49.9 |
| 100° | 0.0 | 7.5 | 24.5 | 39.5 | 45.2 |
| 102.5° | 0.0 | 5.6 | 20.7 | 34.8 | 40.5 |
| 105° | 0.0 | 3.8 | 17.9 | 31.0 | 35.7 |
| 107.5° | 0.0 | 2.8 | 15.1 | 27.3 | 32.0 |
| 110° | 0.0 | 2.8 | 14.1 | 23.5 | 28.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 1.9 | 12.2 | 21.6 | 25.4 |
| 115° | 0.0 | 1.9 | 10.3 | 18.8 | 22.6 |
| 117.5° | 0.0 | 1.9 | 9.4 | 16.9 | 20.7 |
| 120° | 0.0 | 1.9 | 8.5 | 15.1 | 17.9 |
| 122.5° | 0.0 | 0.9 | 7.5 | 13.2 | 16.0 |
| 125° | 0.0 | 0.9 | 6.6 | 12.2 | 14.1 |
| 127.5° | 0.0 | 0.9 | 5.6 | 11.3 | 13.2 |
| 130° | 0.0 | 0.9 | 5.6 | 10.3 | 12.2 |
| 132.5° | 0.0 | 0.0 | 4.7 | 9.4 | 11.3 |
| 135° | 0.0 | 0.0 | 3.8 | 7.5 | 9.4 |
| 137.5° | 0.0 | 0.0 | 3.8 | 6.6 | 8.5 |
| 140° | 0.0 | 0.0 | 2.8 | 6.6 | 7.5 |
| 142.5° | 0.0 | 0.0 | 1.9 | 5.6 | 6.6 |
| 145° | 0.0 | 0.0 | 1.9 | 4.7 | 5.6 |
| 147.5° | 0.0 | 0.0 | 0.9 | 3.8 | 4.7 |
| 150° | 0.0 | 0.0 | 0.9 | 2.8 | 3.8 |
| 152.5° | 0.0 | 0.0 | 0.0 | 1.9 | 2.8 |
| 155° | 0.0 | 0.0 | 0.0 | 0.9 | 1.9 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 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 | 14.79 | 16.32 | 15.26 | 16.78 | 17.27 | 16.77 | 18.30 | 17.24 | 18.76 | 19.25 |
| | 3H | 16.29 | 17.69 | 16.78 | 18.16 | 18.70 | 19.18 | 20.58 | 19.67 | 21.05 | 21.58 |
| | 4H | 16.78 | 18.10 | 17.28 | 18.59 | 19.13 | 20.36 | 21.69 | 20.87 | 22.18 | 22.72 |
| | 6H | 17.05 | 18.29 | 17.57 | 18.79 | 19.35 | 21.58 | 22.82 | 22.10 | 23.32 | 23.88 |
| | 8H | 17.11 | 18.29 | 17.64 | 18.81 | 19.38 | 22.20 | 23.39 | 22.73 | 23.91 | 24.48 |
| | 12H | 17.12 | 18.26 | 17.66 | 18.78 | 19.37 | 22.87 | 24.01 | 23.41 | 24.53 | 25.12 |
| 4H | 2H | 15.65 | 16.98 | 16.16 | 17.47 | 18.01 | 17.20 | 18.53 | 17.71 | 19.02 | 19.56 |
| | 3H | 17.40 | 18.53 | 17.92 | 19.06 | 19.63 | 19.85 | 20.98 | 20.37 | 21.51 | 22.08 |
| | 4H | 18.01 | 19.04 | 18.54 | 19.58 | 20.18 | 21.20 | 22.24 | 21.74 | 22.78 | 23.38 |
| | 6H | 18.41 | 19.32 | 18.97 | 19.89 | 20.50 | 22.62 | 23.54 | 23.18 | 24.10 | 24.72 |
| | 8H | 18.51 | 19.37 | 19.07 | 19.93 | 20.56 | 23.35 | 24.21 | 23.91 | 24.78 | 25.40 |
| | 12H | 18.55 | 19.34 | 19.14 | 19.93 | 20.56 | 24.14 | 24.93 | 24.73 | 25.52 | 26.15 |
| 8H | 4H | 18.68 | 19.54 | 19.25 | 20.11 | 20.74 | 21.43 | 22.29 | 21.99 | 22.85 | 23.48 |
| | 6H | 19.27 | 20.00 | 19.86 | 20.61 | 21.24 | 23.02 | 23.75 | 23.62 | 24.36 | 24.99 |
| | 8H | 19.46 | 20.12 | 20.06 | 20.73 | 21.38 | 23.89 | 24.55 | 24.50 | 25.17 | 25.82 |
| | 12H | 19.58 | 20.17 | 20.19 | 20.77 | 21.48 | 24.87 | 25.46 | 25.48 | 26.07 | 26.78 |
| 12H | 4H | 18.87 | 19.66 | 19.46 | 20.25 | 20.88 | 21.43 | 22.22 | 22.02 | 22.81 | 23.44 |
| | 6H | 19.56 | 20.22 | 20.17 | 20.84 | 21.48 | 23.06 | 23.72 | 23.67 | 24.34 | 24.98 |
| | 8H | 19.85 | 20.44 | 20.46 | 21.04 | 21.75 | 24.01 | 24.59 | 24.62 | 25.20 | 25.91 |