

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: P1357248

Luminaire Tested: 4ASL4-5-1-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-6)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 4ASL4-5-1-92765-UNV_3500K
Description: 4FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 1 ROW
Light Source: -
Ballast/Driver: -

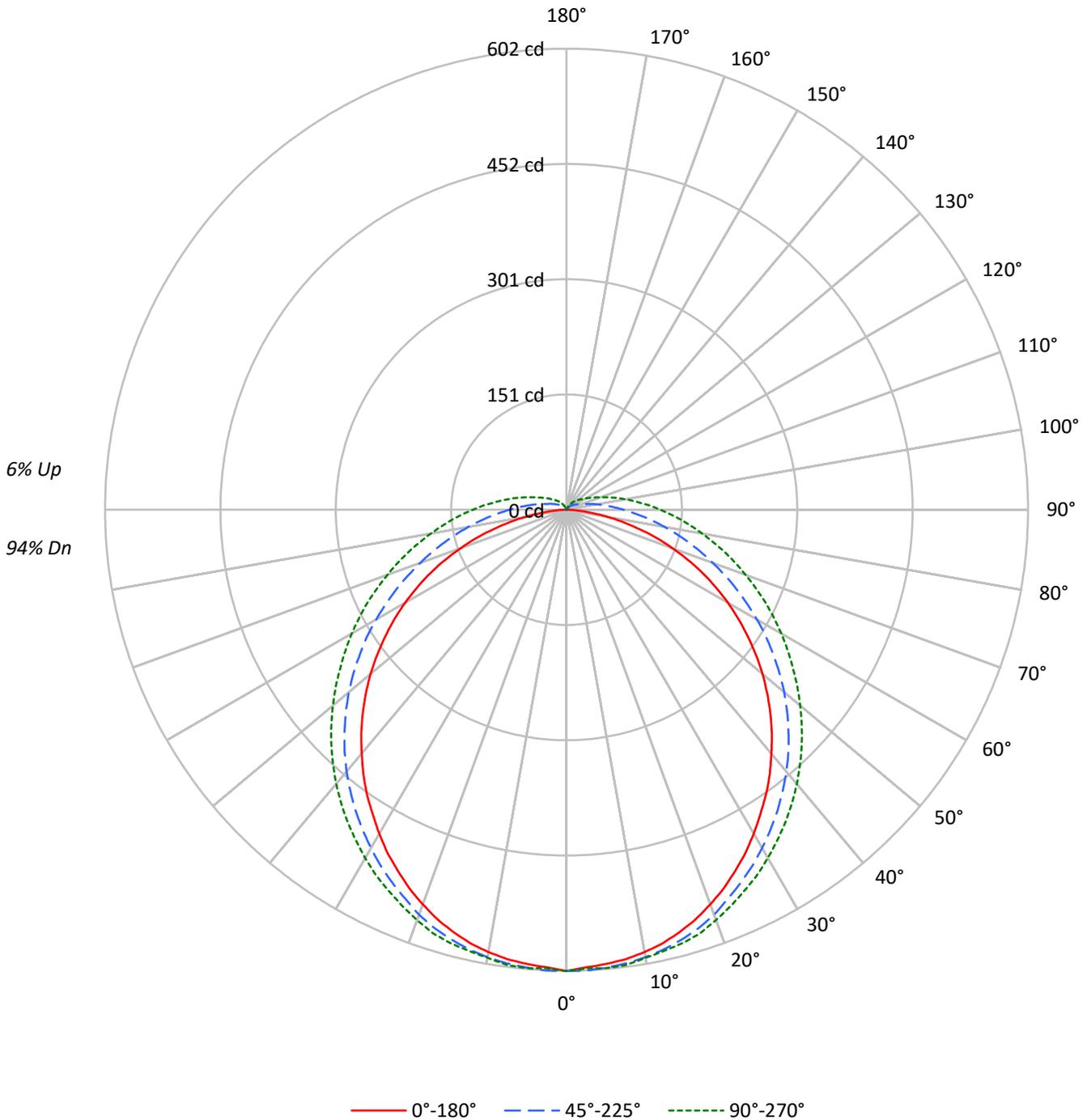
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.1
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





TEST NUMBER: P1357248

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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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 96 | 96 | 96 | 94 |
| 1 | 106 | 100 | 95 | 91 | 102 | 97 | 93 | 89 | 92 | 88 | 85 | 87 | 84 | 81 | 82 | 80 | 78 | 78 | 78 | 78 | 75 |
| 2 | 95 | 86 | 79 | 73 | 92 | 84 | 77 | 71 | 79 | 74 | 69 | 75 | 70 | 66 | 71 | 67 | 64 | 64 | 64 | 64 | 61 |
| 3 | 87 | 76 | 67 | 60 | 84 | 73 | 65 | 59 | 69 | 63 | 57 | 66 | 60 | 55 | 62 | 58 | 54 | 54 | 54 | 54 | 51 |
| 4 | 79 | 67 | 57 | 50 | 76 | 65 | 56 | 50 | 62 | 54 | 48 | 58 | 52 | 47 | 56 | 50 | 46 | 46 | 46 | 46 | 43 |
| 5 | 73 | 59 | 50 | 43 | 70 | 58 | 49 | 43 | 55 | 47 | 42 | 52 | 46 | 41 | 50 | 44 | 40 | 40 | 40 | 40 | 37 |
| 6 | 67 | 53 | 44 | 38 | 65 | 52 | 43 | 37 | 50 | 42 | 36 | 47 | 41 | 35 | 45 | 39 | 35 | 35 | 35 | 35 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 31 | 31 | 31 | 31 | 29 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 41 | 34 | 29 | 39 | 33 | 28 | 38 | 32 | 27 | 27 | 27 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 36 | 30 | 25 | 35 | 29 | 25 | 25 | 25 | 25 | 23 |
| 10 | 51 | 37 | 29 | 24 | 49 | 36 | 29 | 24 | 35 | 28 | 23 | 34 | 27 | 23 | 32 | 27 | 22 | 22 | 22 | 22 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4887 | 4887 | 4887 |
| 5° | 4839 | 4788 | 4764 |
| 10° | 4811 | 4691 | 4639 |
| 15° | 4762 | 4587 | 4541 |
| 20° | 4690 | 4470 | 4421 |
| 25° | 4604 | 4329 | 4291 |
| 30° | 4509 | 4200 | 4169 |
| 35° | 4414 | 4069 | 4047 |
| 40° | 4307 | 3936 | 3922 |
| 45° | 4205 | 3791 | 3794 |
| 50° | 4087 | 3640 | 3659 |
| 55° | 3939 | 3469 | 3525 |
| 60° | 3776 | 3290 | 3408 |
| 65° | 3567 | 3102 | 3289 |
| 70° | 3243 | 2905 | 3174 |
| 75° | 2822 | 2729 | 3086 |
| 80° | 2246 | 2578 | 3031 |
| 85° | 1319 | 2479 | 3053 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4205 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|---------------|--------------|
| 0°-10° | 57.0 | 2.8 |
| 10°-20° | 163.7 | 8.1 |
| 20°-30° | 247.5 | 12.3 |
| 30°-40° | 299.2 | 14.8 |
| 40°-50° | 314.5 | 15.6 |
| 50°-60° | 293.0 | 14.5 |
| 60°-70° | 240.7 | 11.9 |
| 70°-80° | 170.9 | 8.5 |
| 80°-90° | 103.0 | 5.1 |
| 90°-100° | 57.7 | 2.9 |
| 100°-110° | 32.0 | 1.6 |
| 110°-120° | 17.8 | 0.9 |
| 120°-130° | 10.3 | 0.5 |
| 130°-140° | 5.6 | 0.3 |
| 140°-150° | 2.5 | 0.1 |
| 150°-160° | 0.6 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 468.2 | 23.2 |
| 0°-40° | 767.4 | 38.1 |
| 0°-60° | 1374.9 | 68.2 |
| 0°-90° | 1889.5 | 93.7 |
| 90°-120° | 107.5 | 5.3 |
| 90°-150° | 125.9 | 6.2 |
| 90°-180° | 126.0 | 6.3 |
| 0°-180° | 2016.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 602 | 602 | 602 | 602 | 602 | |
| 5° | 595 | 601 | 600 | 599 | 601 | 57 |
| 15° | 571 | 578 | 581 | 584 | 586 | 161 |
| 25° | 520 | 530 | 538 | 545 | 549 | 240 |
| 35° | 454 | 465 | 480 | 492 | 498 | 284 |
| 45° | 376 | 390 | 409 | 426 | 434 | 290 |
| 55° | 289 | 305 | 329 | 351 | 360 | 258 |
| 65° | 196 | 214 | 244 | 273 | 286 | 193 |
| 75° | 99 | 124 | 165 | 199 | 213 | 106 |
| 85° | 18 | 53 | 100 | 136 | 150 | 23 |
| 90° | 0 | 31 | 74 | 109 | 122 | 1 |
| 95° | 0 | 18 | 54 | 86 | 98 | 0 |
| 105° | 0 | 7 | 29 | 52 | 61 | 0 |
| 115° | 0 | 3 | 18 | 31 | 38 | 0 |
| 125° | 0 | 2 | 11 | 20 | 24 | 0 |
| 135° | 0 | 1 | 7 | 13 | 16 | 0 |
| 145° | 1 | 0 | 3 | 8 | 10 | 0 |
| 155° | 1 | 1 | 0 | 2 | 3 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1357248

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 602.2 | 602.2 | 602.2 | 602.2 | 602.2 |
| 2.5° | 598.1 | 603.5 | 602.2 | 599.4 | 599.4 |
| 5° | 595.4 | 600.8 | 600.1 | 599.4 | 600.8 |
| 7.5° | 591.9 | 597.4 | 597.4 | 598.1 | 599.4 |
| 10° | 586.5 | 593.3 | 593.3 | 593.3 | 594.0 |
| 12.5° | 579.7 | 586.5 | 587.9 | 588.5 | 589.9 |
| 15° | 570.8 | 578.3 | 581.0 | 583.8 | 585.8 |
| 17.5° | 560.6 | 568.1 | 572.9 | 576.3 | 579.7 |
| 20° | 548.3 | 556.5 | 562.7 | 566.7 | 570.1 |
| 22.5° | 535.4 | 543.6 | 549.7 | 555.8 | 559.9 |
| 25° | 520.4 | 530.0 | 537.5 | 544.9 | 549.0 |
| 27.5° | 505.4 | 515.0 | 524.5 | 533.4 | 538.1 |
| 30° | 488.4 | 499.3 | 510.2 | 520.4 | 525.2 |
| 32.5° | 470.7 | 482.3 | 495.2 | 506.1 | 511.6 |
| 35° | 453.7 | 465.2 | 479.6 | 491.8 | 497.9 |
| 37.5° | 435.3 | 446.9 | 463.2 | 476.8 | 483.0 |
| 40° | 415.5 | 428.5 | 446.2 | 460.5 | 467.3 |
| 42.5° | 396.4 | 409.4 | 428.5 | 444.1 | 450.9 |
| 45° | 376.0 | 389.6 | 409.4 | 426.4 | 433.9 |
| 47.5° | 354.9 | 369.2 | 390.3 | 408.0 | 416.2 |
| 50° | 333.8 | 348.8 | 370.6 | 389.6 | 397.8 |
| 52.5° | 311.3 | 327.0 | 350.1 | 370.6 | 379.4 |
| 55° | 288.8 | 305.2 | 329.0 | 350.8 | 360.3 |
| 57.5° | 266.3 | 282.7 | 308.6 | 331.7 | 342.0 |
| 60° | 243.2 | 260.2 | 286.8 | 312.0 | 323.6 |
| 62.5° | 219.3 | 237.1 | 265.0 | 292.2 | 304.5 |
| 65° | 196.2 | 213.9 | 244.5 | 273.2 | 286.1 |
| 67.5° | 171.7 | 190.7 | 223.4 | 253.4 | 267.0 |
| 70° | 146.5 | 168.3 | 203.0 | 235.0 | 248.6 |
| 72.5° | 124.0 | 146.5 | 183.9 | 216.6 | 230.9 |
| 75° | 98.8 | 124.0 | 164.8 | 198.9 | 213.2 |
| 77.5° | 77.0 | 104.2 | 147.1 | 181.9 | 196.2 |
| 80° | 55.2 | 85.1 | 130.1 | 165.5 | 179.8 |
| 82.5° | 35.4 | 68.1 | 114.4 | 150.5 | 164.2 |
| 85° | 18.4 | 53.1 | 99.5 | 136.2 | 149.9 |
| 87.5° | 5.4 | 40.9 | 85.8 | 121.9 | 135.6 |
| 90° | 0.0 | 31.3 | 74.2 | 109.0 | 121.9 |
| 92.5° | 0.0 | 23.8 | 64.0 | 97.4 | 110.4 |
| 95° | 0.0 | 18.4 | 54.5 | 85.8 | 98.1 |
| 97.5° | 0.0 | 14.3 | 47.0 | 75.6 | 87.9 |
| 100° | 0.0 | 11.6 | 40.2 | 66.8 | 78.3 |
| 102.5° | 0.0 | 9.5 | 34.7 | 59.3 | 69.5 |
| 105° | 0.0 | 6.8 | 28.6 | 51.8 | 61.3 |
| 107.5° | 0.0 | 4.8 | 25.2 | 45.6 | 53.8 |
| 110° | 0.0 | 4.1 | 22.5 | 39.5 | 47.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 3.4 | 19.8 | 35.4 | 42.2 |
| 115° | 0.0 | 3.4 | 17.7 | 31.3 | 37.5 |
| 117.5° | 0.0 | 2.7 | 15.0 | 27.9 | 33.4 |
| 120° | 0.0 | 2.7 | 13.6 | 25.2 | 30.0 |
| 122.5° | 0.0 | 2.0 | 12.3 | 22.5 | 27.2 |
| 125° | 0.0 | 2.0 | 10.9 | 20.4 | 23.8 |
| 127.5° | 0.0 | 1.4 | 9.5 | 18.4 | 21.8 |
| 130° | 0.0 | 1.4 | 8.9 | 16.3 | 19.8 |
| 132.5° | 0.0 | 0.7 | 8.2 | 15.0 | 17.7 |
| 135° | 0.0 | 0.7 | 6.8 | 12.9 | 16.3 |
| 137.5° | 0.0 | 0.0 | 6.1 | 11.6 | 14.3 |
| 140° | 0.0 | 0.0 | 4.8 | 10.2 | 12.9 |
| 142.5° | 0.7 | 0.0 | 4.1 | 8.9 | 10.9 |
| 145° | 0.7 | 0.0 | 2.7 | 7.5 | 9.5 |
| 147.5° | 0.7 | 0.7 | 2.0 | 6.1 | 7.5 |
| 150° | 0.7 | 0.7 | 1.4 | 4.1 | 6.1 |
| 152.5° | 0.7 | 0.7 | 0.7 | 2.7 | 4.1 |
| 155° | 0.7 | 0.7 | 0.0 | 2.0 | 2.7 |
| 157.5° | 0.7 | 0.7 | 0.0 | 0.7 | 1.4 |
| 160° | 0.7 | 0.7 | 0.0 | 0.0 | 0.7 |
| 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 | 14.92 | 16.47 | 15.38 | 16.91 | 17.38 | 16.90 | 18.45 | 17.36 | 18.89 | 19.36 |
| | 3H | 16.41 | 17.82 | 16.88 | 18.28 | 18.78 | 19.31 | 20.72 | 19.78 | 21.18 | 21.68 |
| | 4H | 16.88 | 18.23 | 17.38 | 18.70 | 19.22 | 20.48 | 21.82 | 20.97 | 22.29 | 22.81 |
| | 6H | 17.16 | 18.41 | 17.67 | 18.89 | 19.43 | 21.68 | 22.93 | 22.19 | 23.41 | 23.95 |
| | 8H | 17.21 | 18.41 | 17.73 | 18.92 | 19.46 | 22.30 | 23.50 | 22.82 | 24.01 | 24.55 |
| | 12H | 17.23 | 18.37 | 17.75 | 18.88 | 19.45 | 22.99 | 24.13 | 23.51 | 24.63 | 25.21 |
| 4H | 2H | 15.78 | 17.12 | 16.27 | 17.59 | 18.11 | 17.33 | 18.67 | 17.83 | 19.14 | 19.67 |
| | 3H | 17.51 | 18.65 | 18.02 | 19.17 | 19.71 | 19.97 | 21.11 | 20.47 | 21.62 | 22.17 |
| | 4H | 18.11 | 19.15 | 18.64 | 19.68 | 20.26 | 21.30 | 22.34 | 21.83 | 22.87 | 23.45 |
| | 6H | 18.51 | 19.43 | 19.05 | 19.98 | 20.57 | 22.70 | 23.62 | 23.24 | 24.17 | 24.76 |
| | 8H | 18.60 | 19.47 | 19.15 | 20.02 | 20.62 | 23.42 | 24.29 | 23.97 | 24.84 | 25.45 |
| | 12H | 18.64 | 19.43 | 19.21 | 20.01 | 20.62 | 24.23 | 25.02 | 24.80 | 25.60 | 26.21 |
| 8H | 4H | 18.76 | 19.63 | 19.31 | 20.18 | 20.78 | 21.51 | 22.38 | 22.06 | 22.93 | 23.54 |
| | 6H | 19.33 | 20.06 | 19.91 | 20.66 | 21.27 | 23.08 | 23.81 | 23.66 | 24.40 | 25.02 |
| | 8H | 19.50 | 20.17 | 20.10 | 20.77 | 21.40 | 23.94 | 24.60 | 24.54 | 25.21 | 25.83 |
| | 12H | 19.61 | 20.21 | 20.21 | 20.80 | 21.49 | 24.93 | 25.52 | 25.53 | 26.11 | 26.80 |
| 12H | 4H | 18.94 | 19.73 | 19.51 | 20.31 | 20.92 | 21.52 | 22.31 | 22.09 | 22.89 | 23.50 |
| | 6H | 19.60 | 20.27 | 20.20 | 20.87 | 21.49 | 23.11 | 23.77 | 23.71 | 24.38 | 25.00 |
| | 8H | 19.87 | 20.46 | 20.47 | 21.06 | 21.75 | 24.04 | 24.63 | 24.64 | 25.23 | 25.92 |