

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: P1357502

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV\_5000K

Issue Date: 2/17/2026

**Test Information**

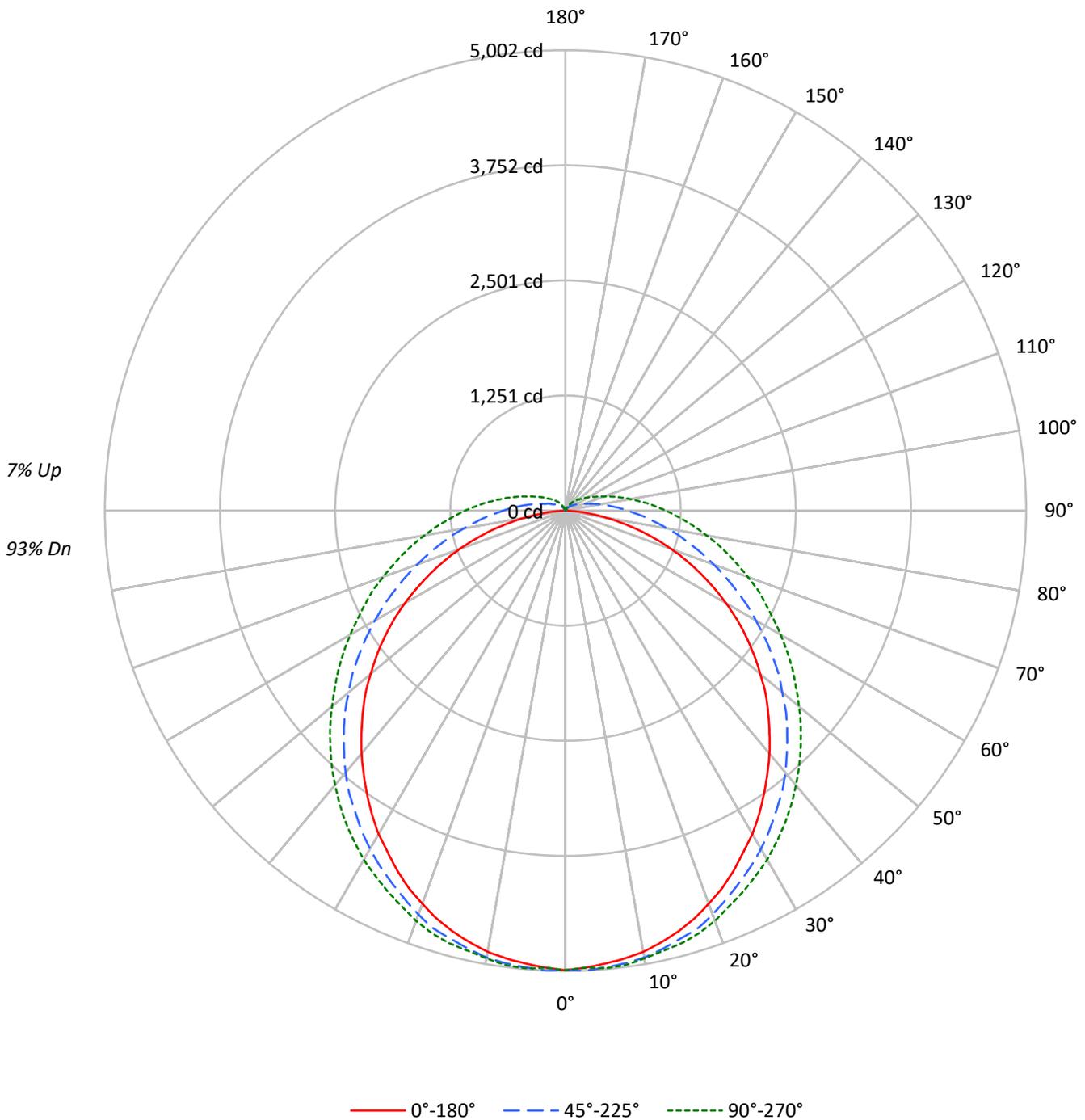
Test Method: LM-79-2019  
Report Number: P1357502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-20VHE-3-92765-UNV\_5000K  
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 5000K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16973.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 146.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 | 96 | 96 | 96 | 96 | 96 | 96 | 93 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 92  | 88  | 91  | 88  | 84  | 86  | 83  | 80  | 81 | 79 | 77 | 77 | 77 | 77 | 74 |
| 2   | 95  | 86  | 79  | 72  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 75  | 70  | 66  | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 3   | 86  | 75  | 67  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 60  | 55  | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 65  | 56  | 49  | 61  | 54  | 48  | 58  | 52  | 47  | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 5   | 73  | 59  | 50  | 43  | 70  | 58  | 49  | 42  | 55  | 47  | 41  | 52  | 45  | 40  | 49 | 44 | 39 | 39 | 39 | 39 | 37 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 42  | 36  | 47  | 40  | 35  | 45 | 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  | 35  | 29  | 41  | 34  | 28  | 39  | 32  | 28  | 37 | 32 | 27 | 27 | 27 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 38  | 30  | 25  | 36  | 30  | 25  | 35 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10  | 50  | 37  | 29  | 24  | 49  | 36  | 29  | 23  | 35  | 28  | 23  | 33  | 27  | 23  | 32 | 26 | 22 | 22 | 22 | 22 | 20 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20203 | 20203 | 20203 |
| 5°  | 20046 | 19838 | 19740 |
| 10° | 19957 | 19468 | 19241 |
| 15° | 19759 | 19004 | 18818 |
| 20° | 19485 | 18559 | 18341 |
| 25° | 19162 | 17996 | 17798 |
| 30° | 18821 | 17509 | 17339 |
| 35° | 18393 | 16956 | 16827 |
| 40° | 18006 | 16451 | 16290 |
| 45° | 17590 | 15837 | 15749 |
| 50° | 17115 | 15178 | 15188 |
| 55° | 16606 | 14549 | 14683 |
| 60° | 15936 | 13813 | 14171 |
| 65° | 15082 | 13108 | 13746 |
| 70° | 13989 | 12412 | 13413 |
| 75° | 12380 | 11784 | 13185 |
| 80° | 9908  | 11331 | 13088 |
| 85° | 6291  | 11281 | 13282 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17590 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 473.4   | 2.8       |
| 10°-20°   | 1359.1  | 8.0       |
| 20°-30°   | 2054.9  | 12.1      |
| 30°-40°   | 2488.2  | 14.7      |
| 40°-50°   | 2613.3  | 15.4      |
| 50°-60°   | 2438.1  | 14.4      |
| 60°-70°   | 2015.0  | 11.9      |
| 70°-80°   | 1450.8  | 8.5       |
| 80°-90°   | 901.6   | 5.3       |
| 90°-100°  | 528.3   | 3.1       |
| 100°-110° | 302.2   | 1.8       |
| 110°-120° | 170.6   | 1.0       |
| 120°-130° | 98.2    | 0.6       |
| 130°-140° | 52.9    | 0.3       |
| 140°-150° | 22.3    | 0.1       |
| 150°-160° | 4.1     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 3887.4  | 22.9      |
| 0°-40°    | 6375.6  | 37.6      |
| 0°-60°    | 11427.1 | 67.3      |
| 0°-90°    | 15794.4 | 93.1      |
| 90°-120°  | 1001.1  | 5.9       |
| 90°-150°  | 1174.4  | 6.9       |
| 90°-180°  | 1179.0  | 6.9       |
| 0°-180°   | 16973.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4992 | 4992  | 4992 | 4992  | 4992 |      |
| 5°   | 4940 | 4982  | 4982 | 4982  | 4992 | 469  |
| 15°  | 4732 | 4795  | 4816 | 4847  | 4867 | 1334 |
| 25°  | 4317 | 4390  | 4463 | 4525  | 4566 | 1989 |
| 35°  | 3757 | 3861  | 3985 | 4099  | 4151 | 2352 |
| 45°  | 3114 | 3228  | 3404 | 3549  | 3612 | 2402 |
| 55°  | 2397 | 2532  | 2740 | 2937  | 3010 | 2142 |
| 65°  | 1619 | 1775  | 2044 | 2304  | 2397 | 1602 |
| 75°  | 830  | 1038  | 1401 | 1702  | 1827 | 878  |
| 85°  | 156  | 467   | 882  | 1194  | 1308 | 190  |
| 90°  | 0    | 280   | 675  | 965   | 1090 | 7    |
| 95°  | 0    | 176   | 508  | 778   | 892  | 0    |
| 105° | 0    | 62    | 280  | 488   | 571  | 0    |
| 115° | 0    | 31    | 166  | 301   | 353  | 0    |
| 125° | 0    | 21    | 104  | 197   | 228  | 0    |
| 135° | 0    | 0     | 62   | 124   | 156  | 0    |
| 145° | 0    | 0     | 31   | 73    | 83   | 0    |
| 155° | 0    | 0     | 0    | 21    | 31   | 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°     | 4992.0 | 4992.0 | 4992.0 | 4992.0 | 4992.0 |
| 2.5°   | 4971.2 | 5002.4 | 5002.4 | 4971.2 | 4971.2 |
| 5°     | 4940.1 | 4981.6 | 4981.6 | 4981.6 | 4992.0 |
| 7.5°   | 4909.0 | 4960.9 | 4960.9 | 4960.9 | 4981.6 |
| 10°    | 4867.4 | 4919.3 | 4929.7 | 4929.7 | 4940.1 |
| 12.5°  | 4805.2 | 4867.4 | 4877.8 | 4888.2 | 4898.6 |
| 15°    | 4732.5 | 4794.8 | 4815.6 | 4846.7 | 4867.4 |
| 17.5°  | 4649.5 | 4722.2 | 4763.7 | 4794.8 | 4815.6 |
| 20°    | 4545.7 | 4618.4 | 4670.3 | 4711.8 | 4742.9 |
| 22.5°  | 4441.9 | 4504.2 | 4566.5 | 4618.4 | 4649.5 |
| 25°    | 4317.4 | 4390.0 | 4462.7 | 4525.0 | 4566.5 |
| 27.5°  | 4182.5 | 4265.5 | 4358.9 | 4431.6 | 4473.1 |
| 30°    | 4057.9 | 4141.0 | 4244.7 | 4338.2 | 4379.7 |
| 32.5°  | 3912.6 | 4006.0 | 4120.2 | 4213.6 | 4265.5 |
| 35°    | 3757.0 | 3860.7 | 3985.3 | 4099.4 | 4151.3 |
| 37.5°  | 3601.3 | 3705.1 | 3860.7 | 3974.9 | 4026.8 |
| 40°    | 3445.6 | 3549.4 | 3715.4 | 3840.0 | 3891.9 |
| 42.5°  | 3279.6 | 3383.3 | 3559.8 | 3694.7 | 3757.0 |
| 45°    | 3113.5 | 3227.7 | 3404.1 | 3549.4 | 3611.7 |
| 47.5°  | 2947.5 | 3061.6 | 3248.4 | 3404.1 | 3466.4 |
| 50°    | 2760.6 | 2885.2 | 3072.0 | 3248.4 | 3310.7 |
| 52.5°  | 2584.2 | 2708.7 | 2916.3 | 3092.7 | 3155.0 |
| 55°    | 2397.4 | 2532.3 | 2739.9 | 2937.1 | 3009.7 |
| 57.5°  | 2210.6 | 2345.5 | 2563.5 | 2771.0 | 2854.0 |
| 60°    | 2013.4 | 2158.7 | 2387.0 | 2605.0 | 2698.4 |
| 62.5°  | 1816.2 | 1971.9 | 2221.0 | 2449.3 | 2542.7 |
| 65°    | 1619.0 | 1774.7 | 2044.5 | 2304.0 | 2397.4 |
| 67.5°  | 1421.8 | 1587.9 | 1878.5 | 2148.3 | 2262.5 |
| 70°    | 1224.6 | 1401.1 | 1712.4 | 1992.6 | 2106.8 |
| 72.5°  | 1027.5 | 1214.3 | 1556.8 | 1847.3 | 1961.5 |
| 75°    | 830.3  | 1037.8 | 1401.1 | 1702.0 | 1826.6 |
| 77.5°  | 633.1  | 871.8  | 1266.2 | 1567.1 | 1691.7 |
| 80°    | 456.6  | 726.5  | 1120.9 | 1432.2 | 1556.8 |
| 82.5°  | 290.6  | 581.2  | 996.3  | 1307.7 | 1432.2 |
| 85°    | 155.7  | 467.0  | 882.2  | 1193.5 | 1307.7 |
| 87.5°  | 51.9   | 363.2  | 768.0  | 1079.3 | 1193.5 |
| 90°    | 0.0    | 280.2  | 674.6  | 965.2  | 1089.7 |
| 92.5°  | 0.0    | 217.9  | 591.6  | 871.8  | 985.9  |
| 95°    | 0.0    | 176.4  | 508.5  | 778.4  | 892.5  |
| 97.5°  | 0.0    | 145.3  | 446.3  | 695.3  | 799.1  |
| 100°   | 0.0    | 114.2  | 384.0  | 622.7  | 716.1  |
| 102.5° | 0.0    | 93.4   | 332.1  | 550.1  | 643.5  |
| 105°   | 0.0    | 62.3   | 280.2  | 487.8  | 570.8  |
| 107.5° | 0.0    | 51.9   | 238.7  | 435.9  | 508.5  |
| 110°   | 0.0    | 41.5   | 217.9  | 373.6  | 446.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 31.1  | 197.2 | 332.1 | 404.8 |
| 115°   | 0.0 | 31.1  | 166.1 | 301.0 | 352.9 |
| 117.5° | 0.0 | 31.1  | 145.3 | 269.8 | 321.7 |
| 120°   | 0.0 | 20.8  | 134.9 | 238.7 | 290.6 |
| 122.5° | 0.0 | 20.8  | 114.2 | 217.9 | 259.5 |
| 125°   | 0.0 | 20.8  | 103.8 | 197.2 | 228.3 |
| 127.5° | 0.0 | 10.4  | 93.4  | 176.4 | 207.6 |
| 130°   | 0.0 | 10.4  | 83.0  | 155.7 | 186.8 |
| 132.5° | 0.0 | 10.4  | 72.6  | 145.3 | 176.4 |
| 135°   | 0.0 | 0.0   | 62.3  | 124.5 | 155.7 |
| 137.5° | 0.0 | 0.0   | 51.9  | 114.2 | 134.9 |
| 140°   | 0.0 | 0.0   | 41.5  | 93.4  | 124.5 |
| 142.5° | 0.0 | 0.0   | 31.1  | 83.0  | 103.8 |
| 145°   | 0.0 | 0.0   | 31.1  | 72.6  | 83.0  |
| 147.5° | 0.0 | 0.0   | 20.8  | 51.9  | 72.6  |
| 150°   | 0.0 | 0.0   | 10.4  | 41.5  | 51.9  |
| 152.5° | 0.0 | 0.0   | 0.0   | 31.1  | 41.5  |
| 155°   | 0.0 | 0.0   | 0.0   | 20.8  | 31.1  |
| 157.5° | 0.0 | 0.0   | 0.0   | 0.0   | 10.4  |
| 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 | 19.79            | 21.33 | 20.26 | 21.79 | 22.27 | 21.86          | 23.40 | 22.33 | 23.85 | 24.34 |
|                 | 3H   | 21.29            | 22.69 | 21.77 | 23.16 | 23.68 | 24.34          | 25.75 | 24.82 | 26.21 | 26.74 |
|                 | 4H   | 21.77            | 23.10 | 22.27 | 23.58 | 24.12 | 25.56          | 26.89 | 26.06 | 27.37 | 27.91 |
|                 | 6H   | 22.04            | 23.28 | 22.56 | 23.78 | 24.33 | 26.84          | 28.08 | 27.35 | 28.57 | 29.13 |
|                 | 8H   | 22.09            | 23.28 | 22.62 | 23.80 | 24.36 | 27.51          | 28.69 | 28.03 | 29.21 | 29.77 |
|                 | 12H  | 22.11            | 23.25 | 22.64 | 23.76 | 24.35 | 28.25          | 29.39 | 28.79 | 29.91 | 30.50 |
| 4H              | 2H   | 20.68            | 22.01 | 21.18 | 22.49 | 23.03 | 22.29          | 23.62 | 22.80 | 24.11 | 24.64 |
|                 | 3H   | 22.41            | 23.55 | 22.93 | 24.07 | 24.63 | 25.00          | 26.13 | 25.51 | 26.66 | 27.22 |
|                 | 4H   | 23.01            | 24.05 | 23.55 | 24.59 | 25.18 | 26.38          | 27.42 | 26.92 | 27.96 | 28.55 |
|                 | 6H   | 23.41            | 24.33 | 23.97 | 24.89 | 25.50 | 27.86          | 28.77 | 28.41 | 29.34 | 29.94 |
|                 | 8H   | 23.51            | 24.37 | 24.07 | 24.93 | 25.55 | 28.63          | 29.49 | 29.19 | 30.06 | 30.68 |
|                 | 12H  | 23.55            | 24.33 | 24.13 | 24.92 | 25.55 | 29.50          | 30.29 | 30.09 | 30.88 | 31.50 |
| 8H              | 4H   | 23.71            | 24.57 | 24.27 | 25.13 | 25.75 | 26.60          | 27.46 | 27.16 | 28.02 | 28.64 |
|                 | 6H   | 24.28            | 25.02 | 24.88 | 25.62 | 26.25 | 28.24          | 28.97 | 28.83 | 29.58 | 30.20 |
|                 | 8H   | 24.47            | 25.13 | 25.07 | 25.74 | 26.38 | 29.15          | 29.82 | 29.76 | 30.43 | 31.07 |
|                 | 12H  | 24.58            | 25.17 | 25.19 | 25.77 | 26.48 | 30.21          | 30.80 | 30.82 | 31.41 | 32.11 |
| 12H             | 4H   | 23.90            | 24.69 | 24.49 | 25.28 | 25.90 | 26.61          | 27.39 | 27.19 | 27.98 | 28.61 |
|                 | 6H   | 24.58            | 25.25 | 25.19 | 25.86 | 26.50 | 28.28          | 28.94 | 28.88 | 29.55 | 30.19 |
|                 | 8H   | 24.86            | 25.45 | 25.47 | 26.06 | 26.76 | 29.26          | 29.85 | 29.87 | 30.45 | 31.16 |