

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: P1356919

Luminaire Tested: 2ASL4-30VHE-3-92765-UNV\_4000K

Issue Date: 2/17/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1356919  
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: 2ASL4-30VHE-3-92765-UNV\_4000K  
Description: 2FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

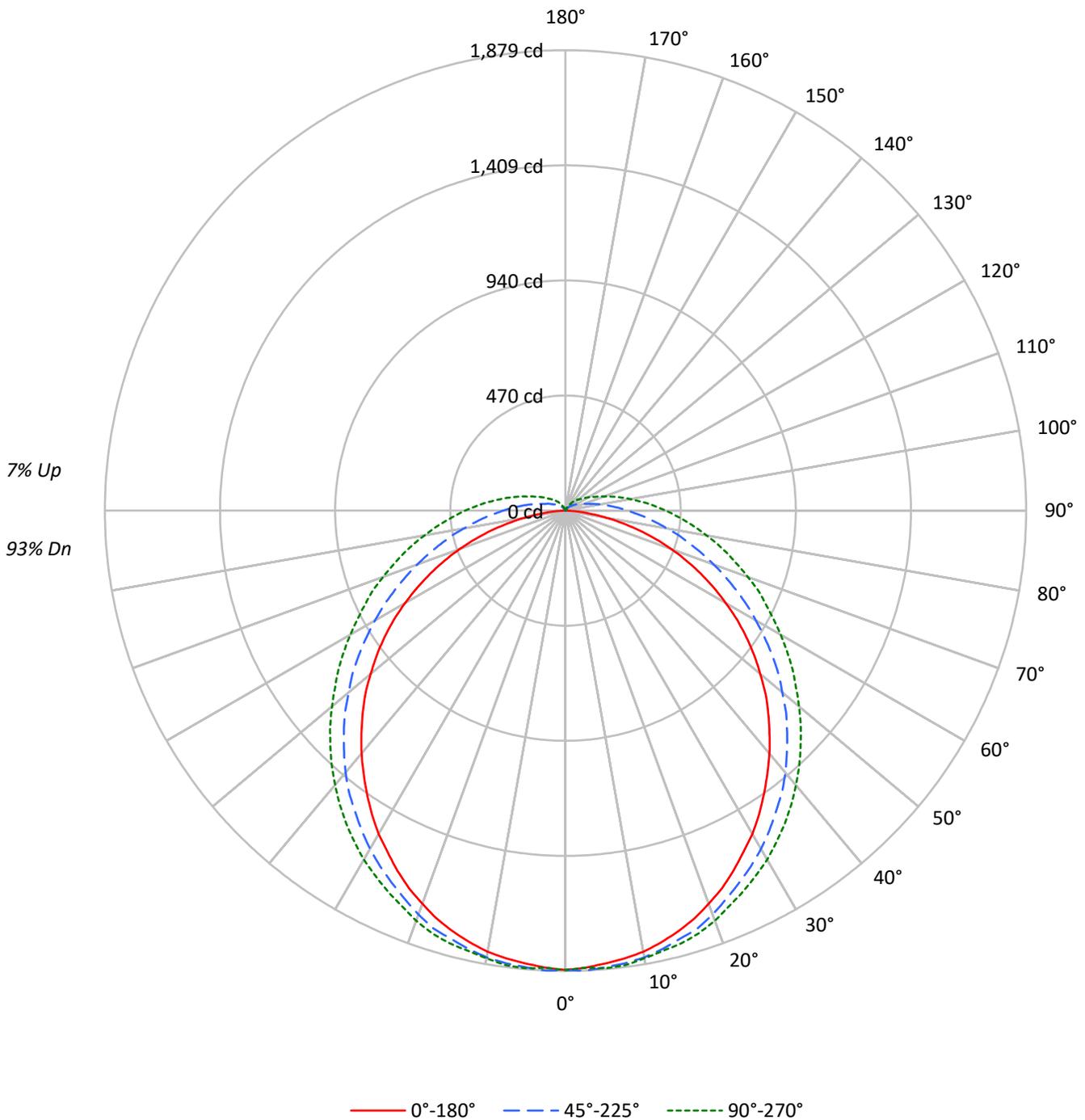
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6375.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 58.3  
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°  | 30592 | 30592 | 30592 |
| 5°  | 30251 | 29968 | 29892 |
| 10° | 30010 | 29341 | 29136 |
| 15° | 29607 | 28575 | 28495 |
| 20° | 29089 | 27840 | 27772 |
| 25° | 28494 | 26933 | 26951 |
| 30° | 27867 | 26140 | 26255 |
| 35° | 27107 | 25250 | 25481 |
| 40° | 26399 | 24430 | 24667 |
| 45° | 25634 | 23449 | 23848 |
| 50° | 24766 | 22396 | 22999 |
| 55° | 23825 | 21388 | 22233 |
| 60° | 22615 | 20217 | 21458 |
| 65° | 21096 | 19081 | 20816 |
| 70° | 19172 | 17950 | 20310 |
| 75° | 16429 | 16893 | 19966 |
| 80° | 12410 | 16052 | 19817 |
| 85° | 6838  | 15697 | 20113 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25634 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 177.8  | 2.8       |
| 10°-20°   | 510.5  | 8.0       |
| 20°-30°   | 771.8  | 12.1      |
| 30°-40°   | 934.6  | 14.7      |
| 40°-50°   | 981.6  | 15.4      |
| 50°-60°   | 915.8  | 14.4      |
| 60°-70°   | 756.8  | 11.9      |
| 70°-80°   | 544.9  | 8.5       |
| 80°-90°   | 338.6  | 5.3       |
| 90°-100°  | 198.4  | 3.1       |
| 100°-110° | 113.5  | 1.8       |
| 110°-120° | 64.1   | 1.0       |
| 120°-130° | 36.9   | 0.6       |
| 130°-140° | 19.9   | 0.3       |
| 140°-150° | 8.4    | 0.1       |
| 150°-160° | 1.5    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1460.1 | 22.9      |
| 0°-40°    | 2394.7 | 37.6      |
| 0°-60°    | 4292.0 | 67.3      |
| 0°-90°    | 5932.3 | 93.1      |
| 90°-120°  | 376.0  | 5.9       |
| 90°-150°  | 441.2  | 6.9       |
| 90°-180°  | 443.0  | 6.9       |
| 0°-180°   | 6375.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1875 | 1875  | 1875 | 1875  | 1875 |      |
| 5°   | 1856 | 1871  | 1871 | 1871  | 1875 | 176  |
| 15°  | 1778 | 1801  | 1809 | 1820  | 1828 | 501  |
| 25°  | 1622 | 1649  | 1676 | 1700  | 1715 | 747  |
| 35°  | 1411 | 1450  | 1497 | 1540  | 1559 | 883  |
| 45°  | 1169 | 1212  | 1279 | 1333  | 1356 | 902  |
| 55°  | 900  | 951   | 1029 | 1103  | 1130 | 805  |
| 65°  | 608  | 667   | 768  | 865   | 900  | 602  |
| 75°  | 312  | 390   | 526  | 639   | 686  | 330  |
| 85°  | 58   | 175   | 331  | 448   | 491  | 72   |
| 90°  | 0    | 105   | 253  | 362   | 409  | 3    |
| 95°  | 0    | 66    | 191  | 292   | 335  | 0    |
| 105° | 0    | 23    | 105  | 183   | 214  | 0    |
| 115° | 0    | 12    | 62   | 113   | 132  | 0    |
| 125° | 0    | 8     | 39   | 74    | 86   | 0    |
| 135° | 0    | 0     | 23   | 47    | 58   | 0    |
| 145° | 0    | 0     | 12   | 27    | 31   | 0    |
| 155° | 0    | 0     | 0    | 8     | 12   | 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°     | 1875.0 | 1875.0 | 1875.0 | 1875.0 | 1875.0 |
| 2.5°   | 1867.2 | 1878.9 | 1878.9 | 1867.2 | 1867.2 |
| 5°     | 1855.5 | 1871.1 | 1871.1 | 1871.1 | 1875.0 |
| 7.5°   | 1843.8 | 1863.3 | 1863.3 | 1863.3 | 1871.1 |
| 10°    | 1828.2 | 1847.7 | 1851.6 | 1851.6 | 1855.5 |
| 12.5°  | 1804.8 | 1828.2 | 1832.1 | 1836.0 | 1839.9 |
| 15°    | 1777.5 | 1800.9 | 1808.7 | 1820.4 | 1828.2 |
| 17.5°  | 1746.3 | 1773.6 | 1789.2 | 1800.9 | 1808.7 |
| 20°    | 1707.4 | 1734.6 | 1754.1 | 1769.7 | 1781.4 |
| 22.5°  | 1668.4 | 1691.8 | 1715.2 | 1734.6 | 1746.3 |
| 25°    | 1621.6 | 1648.9 | 1676.2 | 1699.6 | 1715.2 |
| 27.5°  | 1570.9 | 1602.1 | 1637.2 | 1664.5 | 1680.1 |
| 30°    | 1524.1 | 1555.3 | 1594.3 | 1629.4 | 1645.0 |
| 32.5°  | 1469.6 | 1504.7 | 1547.5 | 1582.6 | 1602.1 |
| 35°    | 1411.1 | 1450.1 | 1496.9 | 1539.7 | 1559.2 |
| 37.5°  | 1352.6 | 1391.6 | 1450.1 | 1493.0 | 1512.5 |
| 40°    | 1294.2 | 1333.1 | 1395.5 | 1442.3 | 1461.8 |
| 42.5°  | 1231.8 | 1270.8 | 1337.0 | 1387.7 | 1411.1 |
| 45°    | 1169.4 | 1212.3 | 1278.6 | 1333.1 | 1356.5 |
| 47.5°  | 1107.1 | 1149.9 | 1220.1 | 1278.6 | 1302.0 |
| 50°    | 1036.9 | 1083.7 | 1153.8 | 1220.1 | 1243.5 |
| 52.5°  | 970.6  | 1017.4 | 1095.4 | 1161.6 | 1185.0 |
| 55°    | 900.5  | 951.1  | 1029.1 | 1103.2 | 1130.4 |
| 57.5°  | 830.3  | 881.0  | 962.8  | 1040.8 | 1072.0 |
| 60°    | 756.2  | 810.8  | 896.6  | 978.4  | 1013.5 |
| 62.5°  | 682.2  | 740.6  | 834.2  | 919.9  | 955.0  |
| 65°    | 608.1  | 666.6  | 767.9  | 865.4  | 900.5  |
| 67.5°  | 534.0  | 596.4  | 705.6  | 806.9  | 849.8  |
| 70°    | 460.0  | 526.2  | 643.2  | 748.4  | 791.3  |
| 72.5°  | 385.9  | 456.1  | 584.7  | 693.9  | 736.7  |
| 75°    | 311.8  | 389.8  | 526.2  | 639.3  | 686.1  |
| 77.5°  | 237.8  | 327.4  | 475.6  | 588.6  | 635.4  |
| 80°    | 171.5  | 272.9  | 421.0  | 537.9  | 584.7  |
| 82.5°  | 109.1  | 218.3  | 374.2  | 491.2  | 537.9  |
| 85°    | 58.5   | 175.4  | 331.3  | 448.3  | 491.2  |
| 87.5°  | 19.5   | 136.4  | 288.5  | 405.4  | 448.3  |
| 90°    | 0.0    | 105.2  | 253.4  | 362.5  | 409.3  |
| 92.5°  | 0.0    | 81.9   | 222.2  | 327.4  | 370.3  |
| 95°    | 0.0    | 66.3   | 191.0  | 292.4  | 335.2  |
| 97.5°  | 0.0    | 54.6   | 167.6  | 261.2  | 300.2  |
| 100°   | 0.0    | 42.9   | 144.2  | 233.9  | 269.0  |
| 102.5° | 0.0    | 35.1   | 124.7  | 206.6  | 241.7  |
| 105°   | 0.0    | 23.4   | 105.2  | 183.2  | 214.4  |
| 107.5° | 0.0    | 19.5   | 89.7   | 163.7  | 191.0  |
| 110°   | 0.0    | 15.6   | 81.9   | 140.3  | 167.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 11.7  | 74.1 | 124.7 | 152.0 |
| 115°   | 0.0 | 11.7  | 62.4 | 113.0 | 132.5 |
| 117.5° | 0.0 | 11.7  | 54.6 | 101.3 | 120.8 |
| 120°   | 0.0 | 7.8   | 50.7 | 89.7  | 109.1 |
| 122.5° | 0.0 | 7.8   | 42.9 | 81.9  | 97.5  |
| 125°   | 0.0 | 7.8   | 39.0 | 74.1  | 85.8  |
| 127.5° | 0.0 | 3.9   | 35.1 | 66.3  | 78.0  |
| 130°   | 0.0 | 3.9   | 31.2 | 58.5  | 70.2  |
| 132.5° | 0.0 | 3.9   | 27.3 | 54.6  | 66.3  |
| 135°   | 0.0 | 0.0   | 23.4 | 46.8  | 58.5  |
| 137.5° | 0.0 | 0.0   | 19.5 | 42.9  | 50.7  |
| 140°   | 0.0 | 0.0   | 15.6 | 35.1  | 46.8  |
| 142.5° | 0.0 | 0.0   | 11.7 | 31.2  | 39.0  |
| 145°   | 0.0 | 0.0   | 11.7 | 27.3  | 31.2  |
| 147.5° | 0.0 | 0.0   | 7.8  | 19.5  | 27.3  |
| 150°   | 0.0 | 0.0   | 3.9  | 15.6  | 19.5  |
| 152.5° | 0.0 | 0.0   | 0.0  | 11.7  | 15.6  |
| 155°   | 0.0 | 0.0   | 0.0  | 7.8   | 11.7  |
| 157.5° | 0.0 | 0.0   | 0.0  | 0.0   | 3.9   |
| 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 | 21.19            | 22.73 | 21.66 | 23.18 | 23.67 | 23.13          | 24.67 | 23.60 | 25.13 | 25.61 |
|                 | 3H   | 22.69            | 24.09 | 23.17 | 24.55 | 25.08 | 25.56          | 26.96 | 26.04 | 27.43 | 27.95 |
|                 | 4H   | 23.17            | 24.50 | 23.67 | 24.98 | 25.52 | 26.72          | 28.06 | 27.23 | 28.54 | 29.08 |
|                 | 6H   | 23.44            | 24.68 | 23.96 | 25.18 | 25.73 | 27.93          | 29.17 | 28.44 | 29.66 | 30.22 |
|                 | 8H   | 23.50            | 24.68 | 24.02 | 25.20 | 25.76 | 28.54          | 29.73 | 29.06 | 30.24 | 30.80 |
|                 | 12H  | 23.51            | 24.65 | 24.04 | 25.16 | 25.75 | 29.19          | 30.33 | 29.72 | 30.84 | 31.43 |
| 4H              | 2H   | 22.05            | 23.38 | 22.55 | 23.86 | 24.40 | 23.57          | 24.90 | 24.07 | 25.38 | 25.92 |
|                 | 3H   | 23.78            | 24.92 | 24.30 | 25.44 | 26.00 | 26.22          | 27.36 | 26.74 | 27.88 | 28.44 |
|                 | 4H   | 24.39            | 25.43 | 24.92 | 25.96 | 26.56 | 27.56          | 28.60 | 28.10 | 29.14 | 29.73 |
|                 | 6H   | 24.79            | 25.70 | 25.34 | 26.27 | 26.87 | 28.96          | 29.87 | 29.51 | 30.44 | 31.04 |
|                 | 8H   | 24.88            | 25.75 | 25.44 | 26.31 | 26.93 | 29.67          | 30.53 | 30.23 | 31.10 | 31.72 |
|                 | 12H  | 24.93            | 25.71 | 25.51 | 26.30 | 26.93 | 30.45          | 31.23 | 31.03 | 31.82 | 32.44 |
| 8H              | 4H   | 25.05            | 25.91 | 25.61 | 26.48 | 27.10 | 27.78          | 28.64 | 28.34 | 29.21 | 29.83 |
|                 | 6H   | 25.63            | 26.36 | 26.22 | 26.97 | 27.59 | 29.35          | 30.08 | 29.94 | 30.68 | 31.31 |
|                 | 8H   | 25.81            | 26.47 | 26.42 | 27.09 | 27.72 | 30.20          | 30.86 | 30.81 | 31.48 | 32.12 |
|                 | 12H  | 25.93            | 26.52 | 26.53 | 27.12 | 27.82 | 31.16          | 31.75 | 31.77 | 32.36 | 33.06 |
| 12H             | 4H   | 25.24            | 26.02 | 25.82 | 26.61 | 27.23 | 27.79          | 28.57 | 28.37 | 29.16 | 29.79 |
|                 | 6H   | 25.91            | 26.57 | 26.52 | 27.19 | 27.83 | 29.39          | 30.05 | 29.99 | 30.66 | 31.30 |
|                 | 8H   | 26.19            | 26.78 | 26.80 | 27.38 | 28.09 | 30.31          | 30.90 | 30.92 | 31.51 | 32.21 |