

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1439264

Luminaire Tested: CB3-085U-120D-840-1D-UNV-STD-W-8

Issue Date: 3/31/2026

Test Information

Test Method: LM-79-2024
Report Number: P1439264
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-2, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-085U-120D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT
3-INCH APERTURE
DOWNLIGHT 1200 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

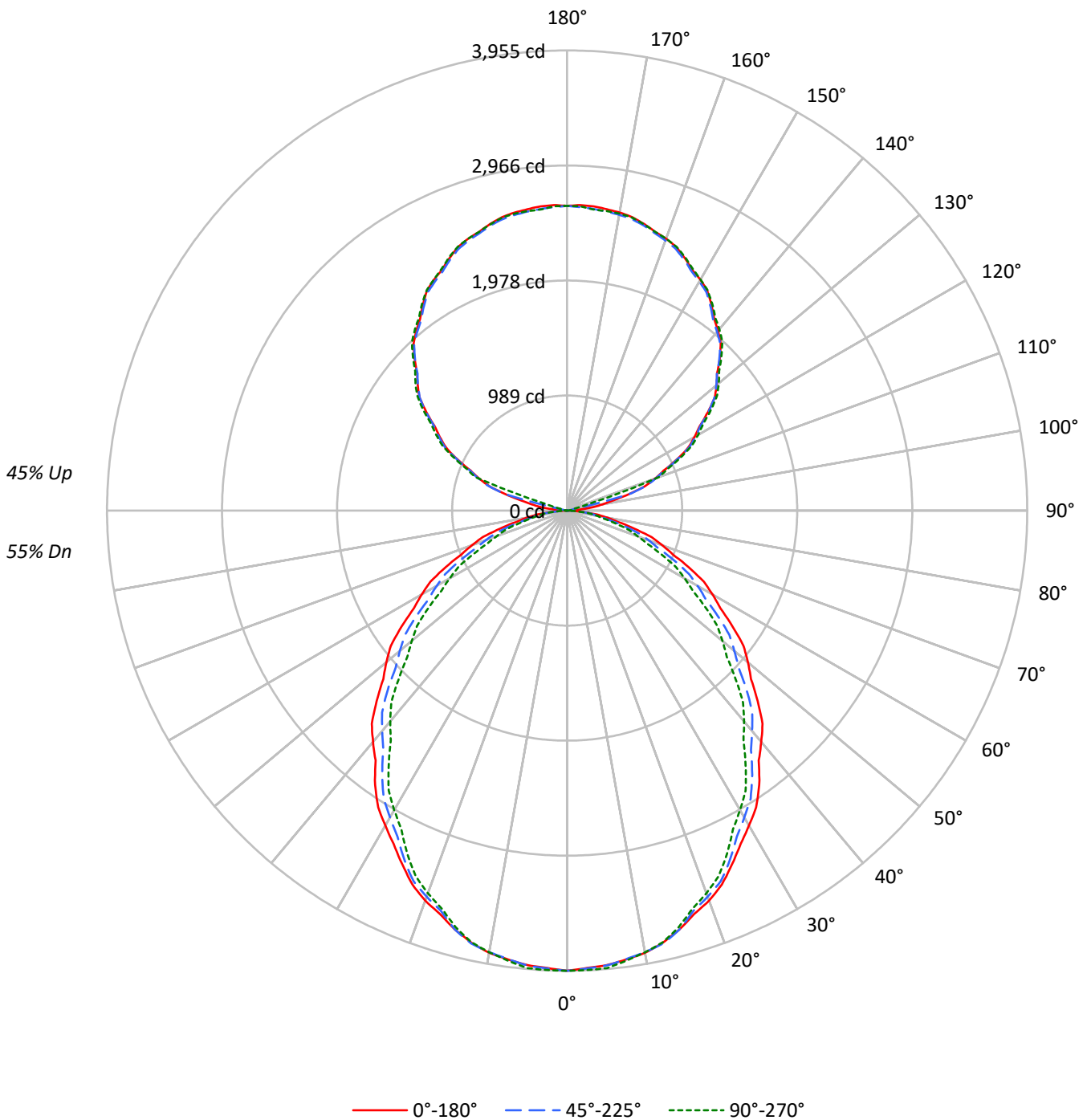
Lumens per Lamp: N/A
Luminaire Lumens: 17197.7 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.1
Input Voltage (V): 120
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 95 | 91 | 88 | 92 | 88 | 85 | 82 | 76 | 73 | 71 | 65 | 63 | 61 | 54 | 53 | 52 | 47 |
| 2 | 90 | 83 | 77 | 72 | 84 | 77 | 72 | 68 | 67 | 63 | 59 | 57 | 54 | 51 | 48 | 46 | 44 | 40 |
| 3 | 83 | 73 | 66 | 60 | 76 | 68 | 62 | 57 | 59 | 54 | 50 | 50 | 47 | 44 | 43 | 40 | 38 | 34 |
| 4 | 76 | 65 | 57 | 51 | 70 | 61 | 54 | 48 | 53 | 47 | 43 | 45 | 41 | 38 | 38 | 35 | 33 | 29 |
| 5 | 70 | 58 | 50 | 44 | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 41 | 36 | 33 | 34 | 31 | 28 | 25 |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 42 | 36 | 43 | 37 | 32 | 37 | 32 | 29 | 31 | 28 | 25 | 22 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 39 | 33 | 29 | 34 | 29 | 26 | 29 | 25 | 22 | 20 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 30 | 26 | 31 | 26 | 23 | 26 | 23 | 20 | 18 |
| 9 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 18 | 16 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 25 | 21 | 26 | 22 | 19 | 23 | 19 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22376 | 22376 | 22376 |
| 5° | 22270 | 22286 | 22414 |
| 10° | 22173 | 22141 | 22141 |
| 15° | 21833 | 21833 | 21701 |
| 20° | 21478 | 21258 | 21072 |
| 25° | 20937 | 20674 | 20306 |
| 30° | 20424 | 19892 | 19415 |
| 35° | 19886 | 19148 | 18469 |
| 40° | 19169 | 18257 | 17468 |
| 45° | 18519 | 17463 | 16384 |
| 50° | 17851 | 16515 | 15329 |
| 55° | 17123 | 15600 | 14324 |
| 60° | 16337 | 14652 | 13191 |
| 65° | 15418 | 13575 | 11995 |
| 70° | 14357 | 12313 | 10687 |
| 75° | 13016 | 10807 | 9517 |
| 80° | 11347 | 9060 | 8418 |
| 85° | 8750 | 7659 | 7659 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18519 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 373.2 | 2.2 |
| 10°-20° | 1048.4 | 6.1 |
| 20°-30° | 1523.3 | 8.9 |
| 30°-40° | 1731.9 | 10.1 |
| 40°-50° | 1681.2 | 9.8 |
| 50°-60° | 1419.4 | 8.3 |
| 60°-70° | 1009.9 | 5.9 |
| 70°-80° | 539.6 | 3.1 |
| 80°-90° | 142.6 | 0.8 |
| 90°-100° | 60.5 | 0.4 |
| 100°-110° | 437.9 | 2.5 |
| 110°-120° | 1041.2 | 6.1 |
| 120°-130° | 1330.2 | 7.7 |
| 130°-140° | 1434.8 | 8.3 |
| 140°-150° | 1352.6 | 7.9 |
| 150°-160° | 1103.4 | 6.4 |
| 160°-170° | 718.9 | 4.2 |
| 170°-180° | 248.5 | 1.4 |
| 0°-30° | 2944.9 | 17.1 |
| 0°-40° | 4676.7 | 27.2 |
| 0°-60° | 7777.4 | 45.2 |
| 0°-90° | 9469.6 | 55.1 |
| 90°-120° | 1539.6 | 9.0 |
| 90°-150° | 5657.2 | 32.9 |
| 90°-180° | 7728.0 | 44.9 |
| 0°-180° | 17197.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3955 | 3955 | 3955 | 3955 | 3955 | |
| 5° | 3922 | 3971 | 3924 | 3919 | 3947 | 372 |
| 15° | 3728 | 3761 | 3728 | 3705 | 3705 | 1050 |
| 25° | 3354 | 3365 | 3312 | 3267 | 3253 | 1545 |
| 35° | 2879 | 2852 | 2773 | 2691 | 2674 | 1794 |
| 45° | 2315 | 2279 | 2183 | 2078 | 2048 | 1785 |
| 55° | 1736 | 1689 | 1582 | 1480 | 1452 | 1552 |
| 65° | 1152 | 1111 | 1014 | 924 | 896 | 1141 |
| 75° | 596 | 563 | 494 | 444 | 435 | 635 |
| 85° | 135 | 124 | 118 | 118 | 118 | 160 |
| 90° | 0 | 0 | 0 | 2 | 0 | 10 |
| 95° | 110 | 20 | 26 | 28 | 28 | 136 |
| 105° | 554 | 562 | 570 | 42 | 43 | 585 |
| 115° | 1040 | 1048 | 1050 | 1066 | 1072 | 1026 |
| 125° | 1478 | 1488 | 1484 | 1500 | 1510 | 1319 |
| 135° | 1857 | 1867 | 1851 | 1865 | 1877 | 1430 |
| 145° | 2161 | 2174 | 2147 | 2161 | 2173 | 1352 |
| 155° | 2394 | 2413 | 2380 | 2386 | 2402 | 1104 |
| 165° | 2552 | 2565 | 2538 | 2530 | 2548 | 720 |
| 175° | 2624 | 2638 | 2603 | 2589 | 2597 | 250 |
| 180° | 2619 | 2619 | 2619 | 2619 | 2619 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3955.3 | 3955.3 | 3955.3 | 3955.3 | 3955.3 |
| 2.5° | 3935.1 | 3974.6 | 3939.6 | 3944.2 | 3953.0 |
| 5° | 3921.6 | 3971.0 | 3924.4 | 3919.4 | 3946.9 |
| 7.5° | 3891.2 | 3936.3 | 3887.9 | 3876.6 | 3901.3 |
| 10° | 3859.8 | 3909.2 | 3854.2 | 3840.4 | 3854.2 |
| 12.5° | 3803.6 | 3855.2 | 3811.5 | 3788.7 | 3800.2 |
| 15° | 3727.7 | 3760.7 | 3727.7 | 3705.3 | 3705.3 |
| 17.5° | 3635.0 | 3669.6 | 3607.5 | 3591.6 | 3585.6 |
| 20° | 3567.6 | 3597.8 | 3531.1 | 3508.4 | 3500.2 |
| 22.5° | 3477.7 | 3505.7 | 3450.2 | 3411.8 | 3401.3 |
| 25° | 3354.1 | 3365.1 | 3312.0 | 3266.7 | 3253.0 |
| 27.5° | 3230.0 | 3232.7 | 3159.7 | 3104.8 | 3086.7 |
| 30° | 3126.6 | 3129.3 | 3045.1 | 2985.8 | 2972.1 |
| 32.5° | 3023.2 | 3015.0 | 2935.0 | 2864.6 | 2855.2 |
| 35° | 2879.4 | 2851.9 | 2772.6 | 2690.8 | 2674.3 |
| 37.5° | 2705.8 | 2689.3 | 2595.7 | 2513.6 | 2488.9 |
| 40° | 2595.7 | 2568.2 | 2472.1 | 2390.0 | 2365.3 |
| 42.5° | 2485.5 | 2453.7 | 2355.2 | 2264.1 | 2237.2 |
| 45° | 2314.7 | 2279.0 | 2182.7 | 2078.1 | 2047.9 |
| 47.5° | 2142.8 | 2103.8 | 1997.9 | 1896.5 | 1863.0 |
| 50° | 2028.2 | 1987.0 | 1876.5 | 1777.4 | 1741.7 |
| 52.5° | 1911.3 | 1867.9 | 1757.4 | 1656.2 | 1627.1 |
| 55° | 1736.1 | 1689.4 | 1581.6 | 1479.8 | 1452.3 |
| 57.5° | 1560.8 | 1514.6 | 1407.4 | 1311.1 | 1278.2 |
| 60° | 1443.9 | 1400.0 | 1295.0 | 1198.8 | 1165.8 |
| 62.5° | 1324.8 | 1283.0 | 1180.4 | 1086.4 | 1055.7 |
| 65° | 1151.8 | 1110.6 | 1014.1 | 923.6 | 896.1 |
| 67.5° | 980.4 | 945.2 | 850.0 | 767.0 | 745.0 |
| 70° | 868.0 | 835.1 | 744.4 | 668.1 | 646.1 |
| 72.5° | 760.2 | 725.0 | 638.8 | 573.8 | 558.5 |
| 75° | 595.5 | 562.6 | 494.4 | 443.7 | 435.4 |
| 77.5° | 445.0 | 418.1 | 359.0 | 330.3 | 325.9 |
| 80° | 348.3 | 323.6 | 278.1 | 258.4 | 258.4 |
| 82.5° | 258.4 | 238.1 | 208.4 | 200.0 | 200.0 |
| 85° | 134.8 | 123.9 | 118.0 | 118.0 | 118.0 |
| 87.5° | 40.5 | 40.5 | 38.2 | 36.3 | 36.0 |
| 90° | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 |
| 92.5° | 30.0 | 11.5 | 9.5 | 11.4 | 11.1 |
| 95° | 110.5 | 19.8 | 25.7 | 27.6 | 27.6 |
| 97.5° | 222.6 | 218.3 | 30.0 | 35.9 | 36.3 |
| 100° | 307.8 | 317.5 | 31.6 | 37.5 | 39.5 |
| 102.5° | 402.6 | 410.7 | 58.4 | 39.1 | 41.0 |
| 105° | 554.5 | 562.2 | 570.3 | 41.5 | 43.4 |
| 107.5° | 705.7 | 711.5 | 716.7 | 645.2 | 241.5 |
| 110° | 805.1 | 810.9 | 813.0 | 832.8 | 836.7 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 898.3 | 905.6 | 909.3 | 926.0 | 933.0 |
| 115° | 1039.9 | 1047.7 | 1049.8 | 1065.7 | 1071.5 |
| 117.5° | 1174.5 | 1182.6 | 1186.4 | 1199.2 | 1208.5 |
| 120° | 1262.9 | 1272.6 | 1274.8 | 1290.7 | 1298.5 |
| 122.5° | 1349.8 | 1361.0 | 1360.0 | 1374.5 | 1385.3 |
| 125° | 1478.0 | 1487.7 | 1484.0 | 1500.0 | 1509.6 |
| 127.5° | 1600.0 | 1605.8 | 1597.6 | 1617.1 | 1625.2 |
| 130° | 1677.3 | 1683.1 | 1673.4 | 1691.4 | 1701.0 |
| 132.5° | 1748.4 | 1757.3 | 1746.0 | 1762.4 | 1772.1 |
| 135° | 1856.9 | 1866.6 | 1851.0 | 1865.1 | 1876.6 |
| 137.5° | 1953.6 | 1965.2 | 1946.5 | 1962.9 | 1972.9 |
| 140° | 2016.8 | 2028.3 | 2004.9 | 2022.9 | 2034.5 |
| 142.5° | 2075.2 | 2089.8 | 2061.7 | 2078.2 | 2091.3 |
| 145° | 2160.8 | 2174.3 | 2147.0 | 2161.1 | 2172.6 |
| 147.5° | 2242.1 | 2253.7 | 2227.5 | 2237.6 | 2245.7 |
| 150° | 2291.0 | 2302.6 | 2273.3 | 2283.4 | 2293.0 |
| 152.5° | 2330.5 | 2346.7 | 2317.5 | 2324.5 | 2338.8 |
| 155° | 2393.7 | 2413.0 | 2379.8 | 2386.1 | 2401.6 |
| 157.5° | 2451.7 | 2469.0 | 2435.9 | 2441.3 | 2454.8 |
| 160° | 2486.4 | 2503.8 | 2470.6 | 2472.9 | 2486.4 |
| 162.5° | 2513.2 | 2529.1 | 2500.6 | 2496.6 | 2513.2 |
| 165° | 2551.5 | 2565.0 | 2537.7 | 2530.2 | 2547.6 |
| 167.5° | 2583.5 | 2598.9 | 2565.3 | 2559.1 | 2578.8 |
| 170° | 2600.9 | 2616.3 | 2581.1 | 2571.7 | 2593.0 |
| 172.5° | 2611.9 | 2625.8 | 2592.2 | 2579.5 | 2596.1 |
| 175° | 2624.5 | 2638.0 | 2602.8 | 2589.2 | 2596.9 |
| 177.5° | 2628.1 | 2638.9 | 2610.7 | 2598.5 | 2617.0 |
| 180° | 2618.6 | 2618.6 | 2618.6 | 2618.6 | 2618.6 |



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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 | 18.40 | 19.30 | 19.32 | 20.23 | 21.43 | 17.33 | 18.22 | 18.24 | 19.15 | 20.35 |
| | 3H | 20.07 | 20.88 | 21.00 | 21.82 | 23.04 | 18.74 | 19.55 | 19.67 | 20.49 | 21.71 |
| | 4H | 20.71 | 21.46 | 21.65 | 22.41 | 23.64 | 19.26 | 20.02 | 20.20 | 20.97 | 22.20 |
| | 6H | 21.09 | 21.79 | 22.05 | 22.74 | 23.99 | 19.58 | 20.28 | 20.53 | 21.23 | 22.48 |
| | 8H | 21.23 | 21.90 | 22.19 | 22.87 | 24.11 | 19.70 | 20.37 | 20.66 | 21.34 | 22.58 |
| | 12H | 21.30 | 21.93 | 22.26 | 22.90 | 24.16 | 19.78 | 20.41 | 20.75 | 21.38 | 22.64 |
| 4H | 2H | 18.82 | 19.58 | 19.76 | 20.52 | 21.75 | 17.96 | 18.72 | 18.90 | 19.66 | 20.89 |
| | 3H | 20.71 | 21.34 | 21.67 | 22.32 | 23.56 | 19.58 | 20.21 | 20.54 | 21.19 | 22.43 |
| | 4H | 21.46 | 22.04 | 22.43 | 23.01 | 24.28 | 20.19 | 20.77 | 21.15 | 21.74 | 23.01 |
| | 6H | 21.96 | 22.46 | 22.94 | 23.46 | 24.72 | 20.60 | 21.10 | 21.58 | 22.09 | 23.36 |
| | 8H | 22.16 | 22.62 | 23.14 | 23.61 | 24.89 | 20.77 | 21.24 | 21.75 | 22.23 | 23.51 |
| | 12H | 22.25 | 22.67 | 23.25 | 23.68 | 24.97 | 20.88 | 21.30 | 21.88 | 22.30 | 23.59 |
| 8H | 4H | 21.59 | 22.06 | 22.57 | 23.04 | 24.33 | 20.45 | 20.92 | 21.43 | 21.90 | 23.19 |
| | 6H | 22.21 | 22.60 | 23.22 | 23.63 | 24.91 | 20.98 | 21.37 | 21.99 | 22.40 | 23.68 |
| | 8H | 22.49 | 22.83 | 23.50 | 23.84 | 25.14 | 21.23 | 21.57 | 22.25 | 22.59 | 23.89 |
| | 12H | 22.65 | 22.95 | 23.67 | 23.96 | 25.31 | 21.41 | 21.71 | 22.43 | 22.72 | 24.07 |
| 12H | 4H | 21.57 | 21.99 | 22.57 | 22.99 | 24.28 | 20.46 | 20.88 | 21.46 | 21.88 | 23.17 |
| | 6H | 22.23 | 22.57 | 23.24 | 23.58 | 24.88 | 21.04 | 21.38 | 22.05 | 22.40 | 23.70 |
| | 8H | 22.53 | 22.83 | 23.55 | 23.84 | 25.18 | 21.32 | 21.62 | 22.34 | 22.63 | 23.98 |