

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: P1438725

Luminaire Tested: CB2-085U-085D-830-1D-UNV-STD-W-4

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438725  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2506-466-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-085U-085D-830-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, OPEN UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 850 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

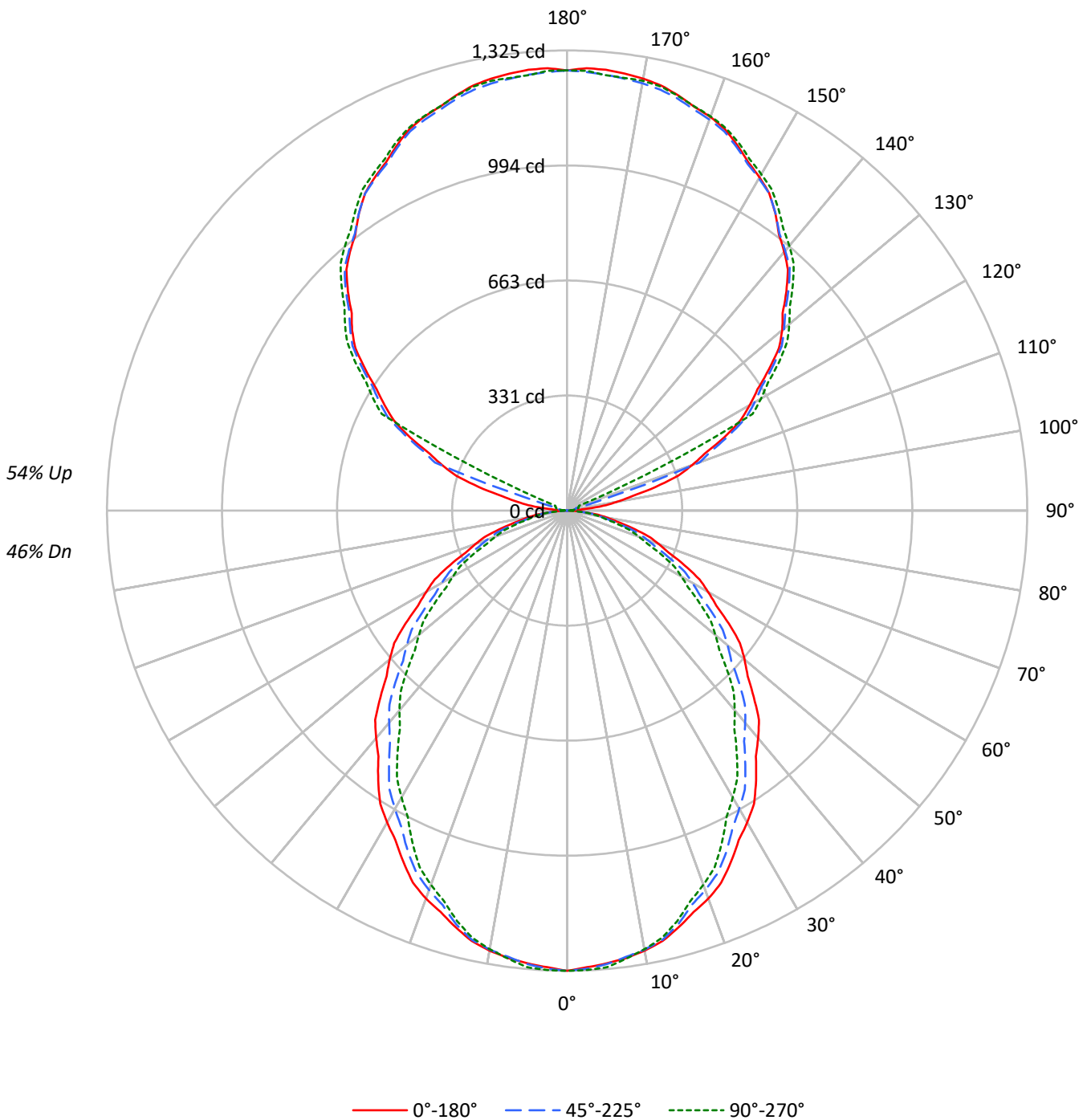
Lumens per Lamp: N/A  
Luminaire Lumens: 6704.5 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.3  
Input Voltage (V): 120  
Input Current (Ain): 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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CATALOG NUMBER: CB2-085U-085D-830-1D-UNV-STD-W-4

### 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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 | 46 |    |    |    |   |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 59 | 57 | 55 | 47 | 46 | 45 | 39 |    |    |    |   |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 39 | 38 | 33 |    |    |    |   |
| 3   | 81  | 72  | 64  | 59  | 74 | 66 | 60 | 55 | 55 | 51 | 47 | 46 | 42 | 40 | 37 | 34 | 32 | 28 |    |    |    |   |
| 4   | 74  | 63  | 56  | 50  | 68 | 59 | 52 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 30 | 28 | 24 |    |    |    |   |
| 5   | 68  | 57  | 49  | 43  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |    |    |    |   |
| 6   | 63  | 51  | 43  | 37  | 57 | 47 | 40 | 35 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |    |    |    |   |
| 7   | 58  | 46  | 38  | 33  | 53 | 43 | 36 | 31 | 36 | 31 | 27 | 30 | 26 | 23 | 25 | 22 | 19 | 17 |    |    |    |   |
| 8   | 54  | 42  | 34  | 29  | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 17 | 15 |    |    |    |   |
| 9   | 50  | 38  | 31  | 26  | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 21 | 19 | 21 | 18 | 16 | 14 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 23080 | 23080 | 23080 |
| 5°  | 22883 | 22920 | 23079 |
| 10° | 22753 | 22700 | 22682 |
| 15° | 22394 | 22248 | 22064 |
| 20° | 22040 | 21551 | 21251 |
| 25° | 21449 | 20844 | 20260 |
| 30° | 20854 | 19937 | 19181 |
| 35° | 20172 | 19007 | 18101 |
| 40° | 19447 | 18133 | 17071 |
| 45° | 18718 | 17220 | 16070 |
| 50° | 18063 | 16331 | 15093 |
| 55° | 17254 | 15405 | 14172 |
| 60° | 16327 | 14526 | 13255 |
| 65° | 15348 | 13547 | 12335 |
| 70° | 14259 | 12451 | 11163 |
| 75° | 12975 | 11265 | 10108 |
| 80° | 11605 | 9870  | 9158  |
| 85° | 8913  | 8114  | 6695  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18718 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.6  | 1.9       |
| 10°-20°   | 347.4  | 5.2       |
| 20°-30°   | 499.4  | 7.4       |
| 30°-40°   | 561.4  | 8.4       |
| 40°-50°   | 542.3  | 8.1       |
| 50°-60°   | 458.2  | 6.8       |
| 60°-70°   | 329.1  | 4.9       |
| 70°-80°   | 179.9  | 2.7       |
| 80°-90°   | 47.8   | 0.7       |
| 90°-100°  | 22.1   | 0.3       |
| 100°-110° | 140.6  | 2.1       |
| 110°-120° | 446.7  | 6.7       |
| 120°-130° | 648.3  | 9.7       |
| 130°-140° | 697.2  | 10.4      |
| 140°-150° | 656.4  | 9.8       |
| 150°-160° | 534.8  | 8.0       |
| 160°-170° | 348.1  | 5.2       |
| 170°-180° | 120.3  | 1.8       |
| 0°-30°    | 971.4  | 14.5      |
| 0°-40°    | 1532.8 | 22.9      |
| 0°-60°    | 2533.2 | 37.8      |
| 0°-90°    | 3090.0 | 46.1      |
| 90°-120°  | 609.4  | 9.1       |
| 90°-150°  | 2611.3 | 38.9      |
| 90°-180°  | 3614.0 | 53.9      |
| 0°-180°   | 6704.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1325 | 1325  | 1325 | 1325  | 1325 |      |
| 5°   | 1309 | 1327  | 1311 | 1311  | 1320 | 124  |
| 15°  | 1242 | 1253  | 1234 | 1222  | 1224 | 350  |
| 25°  | 1116 | 1117  | 1085 | 1060  | 1054 | 514  |
| 35°  | 949  | 938   | 894  | 859   | 851  | 593  |
| 45°  | 760  | 744   | 699  | 662   | 652  | 587  |
| 55°  | 568  | 547   | 507  | 476   | 467  | 508  |
| 65°  | 372  | 358   | 329  | 305   | 299  | 369  |
| 75°  | 193  | 181   | 167  | 154   | 150  | 206  |
| 85°  | 45   | 42    | 41   | 36    | 34   | 53   |
| 90°  | 0    | 0     | 0    | 1     | 1    | 4    |
| 95°  | 50   | 15    | 16   | 10    | 9    | 64   |
| 105° | 264  | 274   | 28   | 32    | 34   | 278  |
| 115° | 500  | 510   | 515  | 521   | 299  | 491  |
| 125° | 709  | 722   | 722  | 734   | 744  | 634  |
| 135° | 893  | 904   | 902  | 908   | 919  | 688  |
| 145° | 1045 | 1053  | 1046 | 1047  | 1060 | 653  |
| 155° | 1160 | 1168  | 1155 | 1152  | 1169 | 535  |
| 165° | 1237 | 1241  | 1228 | 1223  | 1236 | 349  |
| 175° | 1274 | 1277  | 1260 | 1252  | 1258 | 121  |
| 180° | 1268 | 1268  | 1268 | 1268  | 1268 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1325.1 | 1325.1 | 1325.1 | 1325.1 | 1325.1 |
| 2.5°   | 1316.1 | 1332.0 | 1320.2 | 1321.9 | 1324.3 |
| 5°     | 1308.8 | 1326.7 | 1310.9 | 1311.1 | 1320.0 |
| 7.5°   | 1299.5 | 1316.4 | 1296.5 | 1292.8 | 1301.1 |
| 10°    | 1286.5 | 1303.4 | 1283.5 | 1276.5 | 1282.5 |
| 12.5°  | 1269.5 | 1285.5 | 1266.4 | 1255.4 | 1260.5 |
| 15°    | 1241.9 | 1252.8 | 1233.8 | 1221.6 | 1223.6 |
| 17.5°  | 1211.8 | 1218.6 | 1191.1 | 1181.0 | 1179.0 |
| 20°    | 1189.1 | 1195.1 | 1162.7 | 1148.5 | 1146.5 |
| 22.5°  | 1159.9 | 1165.1 | 1131.1 | 1113.6 | 1110.8 |
| 25°    | 1116.1 | 1117.1 | 1084.6 | 1060.1 | 1054.2 |
| 27.5°  | 1070.2 | 1067.0 | 1031.0 | 1002.1 | 994.3  |
| 30°    | 1036.9 | 1033.0 | 991.3  | 960.7  | 953.7  |
| 32.5°  | 1001.2 | 994.1  | 952.3  | 919.3  | 912.3  |
| 35°    | 948.7  | 937.7  | 893.9  | 859.2  | 851.3  |
| 37.5°  | 892.7  | 880.3  | 837.3  | 799.5  | 790.6  |
| 40°    | 855.3  | 841.4  | 797.5  | 759.7  | 750.8  |
| 42.5°  | 818.0  | 802.5  | 757.7  | 719.9  | 710.2  |
| 45°    | 759.9  | 744.1  | 699.1  | 662.3  | 652.4  |
| 47.5°  | 704.7  | 684.5  | 640.8  | 604.3  | 594.4  |
| 50°    | 666.6  | 644.8  | 602.7  | 566.9  | 557.0  |
| 52.5°  | 627.6  | 605.0  | 564.5  | 530.4  | 520.5  |
| 55°    | 568.2  | 547.3  | 507.3  | 475.6  | 466.7  |
| 57.5°  | 509.3  | 489.3  | 452.7  | 422.5  | 413.8  |
| 60°    | 468.7  | 451.9  | 417.0  | 388.4  | 380.5  |
| 62.5°  | 429.8  | 414.5  | 381.3  | 355.1  | 347.2  |
| 65°    | 372.4  | 358.5  | 328.7  | 305.3  | 299.3  |
| 67.5°  | 316.6  | 302.7  | 278.6  | 257.6  | 250.8  |
| 70°    | 280.0  | 266.1  | 244.5  | 225.1  | 219.2  |
| 72.5°  | 245.1  | 230.4  | 212.9  | 195.1  | 190.7  |
| 75°    | 192.8  | 180.9  | 167.4  | 154.1  | 150.2  |
| 77.5°  | 146.5  | 135.0  | 125.2  | 115.8  | 114.9  |
| 80°    | 115.7  | 105.7  | 98.4   | 92.3   | 91.3   |
| 82.5°  | 86.4   | 78.9   | 74.1   | 69.6   | 69.4   |
| 85°    | 44.6   | 41.7   | 40.6   | 35.5   | 33.5   |
| 87.5°  | 13.0   | 13.0   | 11.4   | 9.9    | 9.9    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    |
| 92.5°  | 13.9   | 5.3    | 3.7    | 5.3    | 5.3    |
| 95°    | 50.4   | 14.6   | 15.6   | 10.1   | 9.2    |
| 97.5°  | 104.7  | 23.5   | 22.5   | 24.8   | 25.7   |
| 100°   | 145.7  | 48.0   | 24.7   | 28.4   | 29.3   |
| 102.5° | 191.2  | 181.0  | 25.5   | 30.7   | 32.3   |
| 105°   | 264.0  | 273.8  | 27.5   | 32.1   | 33.9   |
| 107.5° | 335.5  | 345.3  | 128.0  | 33.2   | 35.0   |
| 110°   | 383.1  | 393.0  | 405.1  | 34.0   | 35.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 427.9  | 439.9  | 449.1  | 75.6   | 37.2   |
| 115°   | 499.5  | 510.3  | 515.1  | 521.1  | 298.8  |
| 117.5° | 562.8  | 576.0  | 581.5  | 591.8  | 601.8  |
| 120°   | 606.8  | 619.3  | 623.3  | 633.6  | 644.3  |
| 122.5° | 650.0  | 661.1  | 663.6  | 675.4  | 685.4  |
| 125°   | 709.4  | 722.0  | 722.3  | 734.4  | 744.3  |
| 127.5° | 768.8  | 779.6  | 779.1  | 788.1  | 799.1  |
| 130°   | 808.4  | 815.6  | 815.7  | 823.3  | 835.0  |
| 132.5° | 841.4  | 851.4  | 851.7  | 857.8  | 869.5  |
| 135°   | 892.7  | 903.5  | 901.9  | 907.7  | 919.3  |
| 137.5° | 941.0  | 951.3  | 948.5  | 953.3  | 965.3  |
| 140°   | 972.5  | 981.4  | 977.1  | 982.0  | 995.4  |
| 142.5° | 1001.8 | 1010.8 | 1004.2 | 1008.4 | 1022.5 |
| 145°   | 1044.9 | 1053.0 | 1045.8 | 1047.0 | 1060.5 |
| 147.5° | 1083.2 | 1091.1 | 1082.5 | 1083.7 | 1096.2 |
| 150°   | 1108.1 | 1115.3 | 1104.5 | 1105.7 | 1118.2 |
| 152.5° | 1130.1 | 1136.6 | 1125.0 | 1124.8 | 1139.5 |
| 155°   | 1160.4 | 1167.5 | 1154.9 | 1152.5 | 1168.6 |
| 157.5° | 1187.9 | 1194.5 | 1181.8 | 1180.1 | 1192.6 |
| 160°   | 1206.2 | 1210.7 | 1198.0 | 1195.5 | 1208.0 |
| 162.5° | 1218.7 | 1223.9 | 1211.2 | 1207.2 | 1219.8 |
| 165°   | 1237.4 | 1241.0 | 1228.2 | 1223.0 | 1235.5 |
| 167.5° | 1253.5 | 1257.6 | 1241.2 | 1236.6 | 1250.0 |
| 170°   | 1263.0 | 1265.7 | 1249.3 | 1243.2 | 1256.6 |
| 172.5° | 1268.9 | 1270.9 | 1254.4 | 1247.5 | 1256.6 |
| 175°   | 1274.0 | 1276.7 | 1260.3 | 1252.2 | 1258.5 |
| 177.5° | 1274.9 | 1276.4 | 1263.9 | 1256.9 | 1267.6 |
| 180°   | 1267.6 | 1267.6 | 1267.6 | 1267.6 | 1267.6 |



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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 | 17.53            | 18.35 | 18.52 | 19.35 | 20.68 | 16.43          | 17.25 | 17.43 | 18.25 | 19.58 |
|                 | 3H   | 19.17            | 19.91 | 20.18 | 20.92 | 22.27 | 17.96          | 18.69 | 18.96 | 19.70 | 21.05 |
|                 | 4H   | 19.80            | 20.49 | 20.82 | 21.51 | 22.86 | 18.53          | 19.22 | 19.54 | 20.24 | 21.59 |
|                 | 6H   | 20.20            | 20.84 | 21.23 | 21.86 | 23.23 | 18.90          | 19.54 | 19.92 | 20.56 | 21.92 |
|                 | 8H   | 20.35            | 20.96 | 21.38 | 21.99 | 23.35 | 19.04          | 19.64 | 20.07 | 20.68 | 22.04 |
|                 | 12H  | 20.42            | 21.00 | 21.46 | 22.03 | 23.42 | 19.10          | 19.68 | 20.14 | 20.70 | 22.09 |
| 4H              | 2H   | 17.94            | 18.63 | 18.96 | 19.64 | 21.00 | 17.06          | 17.75 | 18.08 | 18.77 | 20.13 |
|                 | 3H   | 19.80            | 20.38 | 20.83 | 21.42 | 22.79 | 18.79          | 19.37 | 19.82 | 20.41 | 21.78 |
|                 | 4H   | 20.55            | 21.07 | 21.58 | 22.11 | 23.50 | 19.46          | 19.99 | 20.50 | 21.03 | 22.42 |
|                 | 6H   | 21.06            | 21.52 | 22.11 | 22.58 | 23.96 | 19.94          | 20.39 | 20.99 | 21.45 | 22.84 |
|                 | 8H   | 21.27            | 21.69 | 22.32 | 22.74 | 24.14 | 20.13          | 20.55 | 21.18 | 21.60 | 23.00 |
|                 | 12H  | 21.37            | 21.75 | 22.44 | 22.82 | 24.23 | 20.21          | 20.60 | 21.28 | 21.66 | 23.07 |
| 8H              | 4H   | 20.70            | 21.12 | 21.75 | 22.17 | 23.58 | 19.73          | 20.16 | 20.78 | 21.21 | 22.61 |
|                 | 6H   | 21.34            | 21.69 | 22.41 | 22.78 | 24.18 | 20.34          | 20.69 | 21.41 | 21.78 | 23.18 |
|                 | 8H   | 21.63            | 21.94 | 22.71 | 23.01 | 24.43 | 20.61          | 20.92 | 21.69 | 22.00 | 23.42 |
|                 | 12H  | 21.80            | 22.07 | 22.88 | 23.14 | 24.60 | 20.76          | 21.03 | 21.84 | 22.10 | 23.56 |
| 12H             | 4H   | 20.68            | 21.06 | 21.74 | 22.13 | 23.53 | 19.74          | 20.12 | 20.80 | 21.19 | 22.59 |
|                 | 6H   | 21.37            | 21.68 | 22.45 | 22.75 | 24.17 | 20.40          | 20.71 | 21.48 | 21.78 | 23.20 |
|                 | 8H   | 21.68            | 21.95 | 22.76 | 23.02 | 24.49 | 20.70          | 20.97 | 21.79 | 22.05 | 23.51 |