

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: CORELITE

Report Number: P571894

Luminaire Tested: 22ID-25-L830-DBD

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P571894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22ID-25-L830-DBD  
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2522.9 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

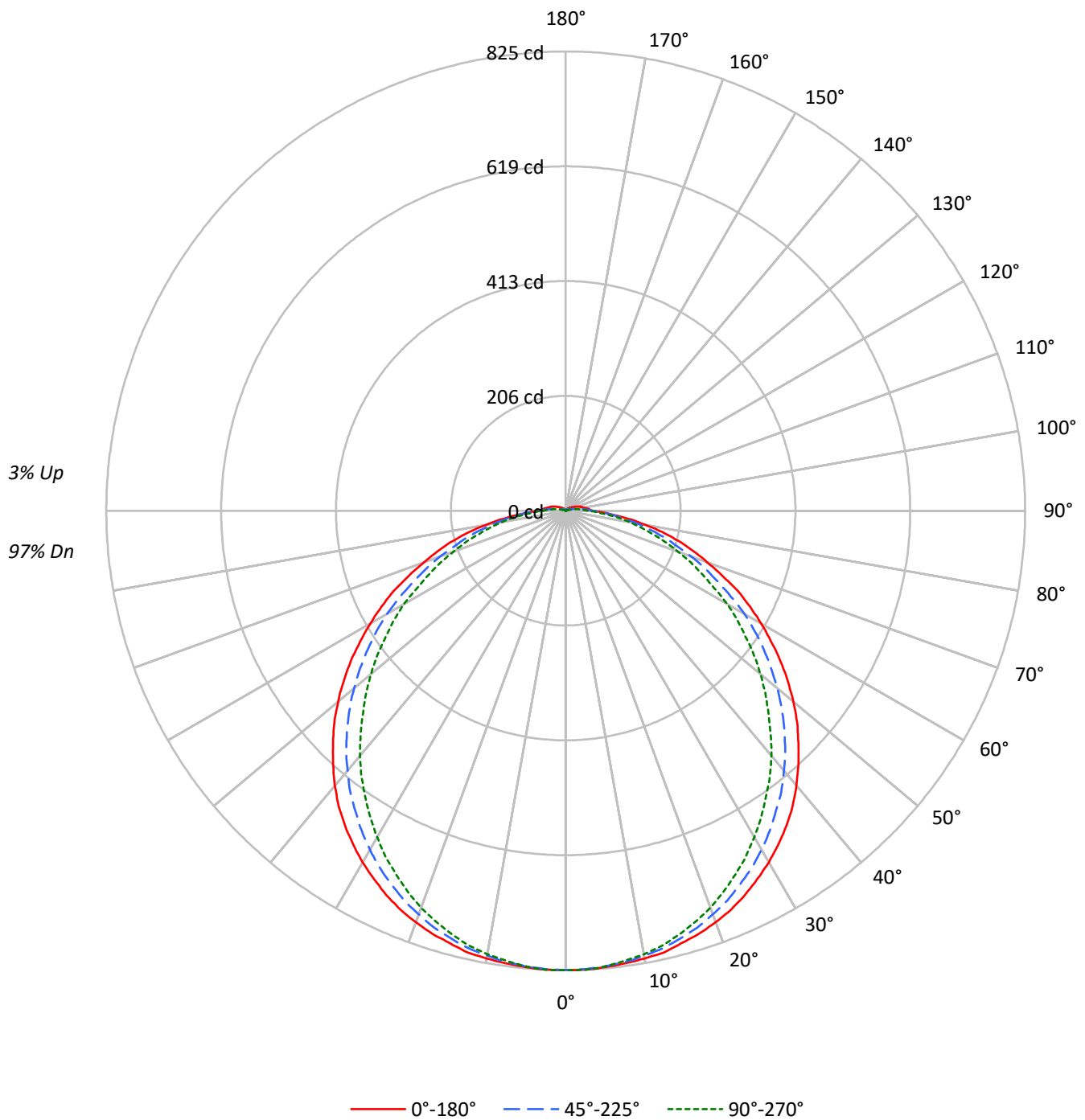
Input Watts (W): 20.6  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P571894

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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 |
| 1   | 107 | 102 | 98  | 93  | 104 | 100 | 95  | 92  | 95  | 91  | 88  | 90  | 88  | 85  | 86  | 84  | 82  |
| 2   | 97  | 89  | 81  | 75  | 94  | 87  | 80  | 74  | 82  | 77  | 72  | 79  | 74  | 70  | 75  | 72  | 68  |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 72  | 66  | 60  | 69  | 64  | 59  | 66  | 62  | 58  |
| 4   | 81  | 69  | 60  | 53  | 78  | 67  | 59  | 52  | 64  | 57  | 51  | 62  | 55  | 50  | 59  | 54  | 49  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  | 55  | 49  | 43  | 53  | 47  | 43  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 33  |
| 8   | 59  | 46  | 37  | 31  | 57  | 45  | 37  | 31  | 43  | 36  | 30  | 42  | 35  | 30  | 40  | 34  | 30  |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  |
| 10  | 52  | 39  | 31  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2221 | 2221 | 2221 |
| 5°  | 2207 | 2197 | 2204 |
| 10° | 2199 | 2173 | 2179 |
| 15° | 2191 | 2148 | 2147 |
| 20° | 2187 | 2119 | 2110 |
| 25° | 2177 | 2084 | 2060 |
| 30° | 2162 | 2046 | 2007 |
| 35° | 2144 | 1998 | 1947 |
| 40° | 2116 | 1949 | 1887 |
| 45° | 2076 | 1889 | 1809 |
| 50° | 2032 | 1821 | 1738 |
| 55° | 1976 | 1742 | 1652 |
| 60° | 1906 | 1655 | 1577 |
| 65° | 1839 | 1527 | 1462 |
| 70° | 1732 | 1423 | 1373 |
| 75° | 1661 | 1305 | 1275 |
| 80° | 1535 | 1193 | 1207 |
| 85° | 1380 | 1083 | 1143 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2076 cd/sqm

TEST NUMBER: P571894

CATALOG NUMBER: 22ID-25-L830-DBD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.2   | 3.1       |
| 10°-20°   | 224.7  | 8.9       |
| 20°-30°   | 341.5  | 13.5      |
| 30°-40°   | 412.3  | 16.3      |
| 40°-50°   | 427.6  | 16.9      |
| 50°-60°   | 387.6  | 15.4      |
| 60°-70°   | 300.8  | 11.9      |
| 70°-80°   | 193.7  | 7.7       |
| 80°-90°   | 91.5   | 3.6       |
| 90°-100°  | 35.5   | 1.4       |
| 100°-110° | 15.7   | 0.6       |
| 110°-120° | 7.7    | 0.3       |
| 120°-130° | 3.9    | 0.2       |
| 130°-140° | 1.7    | 0.1       |
| 140°-150° | 0.4    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 644.4  | 25.5      |
| 0°-40°    | 1056.8 | 41.9      |
| 0°-60°    | 1872.0 | 74.2      |
| 0°-90°    | 2458.1 | 97.4      |
| 90°-120°  | 58.9   | 2.3       |
| 90°-150°  | 64.8   | 2.6       |
| 90°-180°  | 65.0   | 2.6       |
| 0°-180°   | 2522.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 825 | 825   | 825 | 825   | 825 |      |
| 5°   | 823 | 823   | 822 | 820   | 822 | 78   |
| 15°  | 804 | 802   | 796 | 790   | 788 | 227  |
| 25°  | 762 | 756   | 741 | 727   | 721 | 351  |
| 35°  | 691 | 681   | 658 | 637   | 627 | 432  |
| 45°  | 591 | 581   | 555 | 527   | 515 | 456  |
| 55°  | 471 | 460   | 434 | 406   | 394 | 421  |
| 65°  | 340 | 325   | 300 | 280   | 271 | 335  |
| 75°  | 210 | 196   | 181 | 168   | 161 | 220  |
| 85°  | 87  | 87    | 82  | 77    | 72  | 84   |
| 90°  | 49  | 51    | 49  | 44    | 40  | 28   |
| 95°  | 40  | 34    | 31  | 29    | 26  | 31   |
| 105° | 27  | 21    | 11  | 8     | 6   | 29   |
| 115° | 16  | 14    | 8   | 1     | 0   | 17   |
| 125° | 10  | 8     | 4   | 0     | 0   | 9    |
| 135° | 5   | 4     | 1   | 0     | 0   | 4    |
| 145° | 2   | 1     | 0   | 0     | 0   | 1    |
| 155° | 0   | 0     | 0   | 0     | 0   | 0    |
| 165° | 0   | 0     | 0   | 1     | 1   | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |

TEST NUMBER: P571894

CATALOG NUMBER: 22ID-25-L830-DBD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 |
| 2.5°   | 825.4 | 824.2 | 824.2 | 824.2 | 825.4 |
| 5°     | 822.9 | 822.9 | 821.7 | 820.4 | 821.7 |
| 7.5°   | 820.4 | 819.2 | 817.9 | 816.7 | 815.4 |
| 10°    | 816.7 | 815.4 | 811.7 | 809.2 | 809.2 |
| 12.5°  | 812.9 | 809.2 | 805.5 | 801.7 | 800.5 |
| 15°    | 804.2 | 801.7 | 795.5 | 790.5 | 788.0 |
| 17.5°  | 796.7 | 793.0 | 785.5 | 778.0 | 774.3 |
| 20°    | 786.8 | 781.8 | 771.8 | 763.1 | 759.3 |
| 22.5°  | 775.5 | 769.3 | 758.1 | 745.6 | 740.6 |
| 25°    | 761.8 | 755.6 | 740.6 | 726.9 | 720.7 |
| 27.5°  | 745.6 | 739.4 | 723.2 | 705.7 | 700.7 |
| 30°    | 729.4 | 721.9 | 703.2 | 684.5 | 677.0 |
| 32.5°  | 710.7 | 702.0 | 682.0 | 660.8 | 653.3 |
| 35°    | 690.8 | 680.8 | 658.3 | 637.1 | 627.2 |
| 37.5°  | 669.6 | 659.6 | 635.9 | 612.2 | 602.2 |
| 40°    | 644.6 | 634.6 | 609.7 | 583.5 | 574.8 |
| 42.5°  | 618.4 | 608.5 | 583.5 | 556.1 | 544.9 |
| 45°    | 591.0 | 581.0 | 554.8 | 527.4 | 514.9 |
| 47.5°  | 563.6 | 553.6 | 526.2 | 498.7 | 486.3 |
| 50°    | 533.7 | 523.7 | 496.2 | 467.6 | 456.3 |
| 52.5°  | 502.5 | 492.5 | 465.1 | 437.6 | 426.4 |
| 55°    | 471.3 | 460.1 | 433.9 | 406.5 | 394.0 |
| 57.5°  | 437.6 | 427.7 | 402.7 | 376.5 | 365.3 |
| 60°    | 405.2 | 394.0 | 370.3 | 345.4 | 335.4 |
| 62.5°  | 372.8 | 360.3 | 335.4 | 310.5 | 300.5 |
| 65°    | 340.4 | 325.4 | 300.5 | 280.5 | 270.6 |
| 67.5°  | 304.2 | 290.5 | 270.6 | 250.6 | 243.1 |
| 70°    | 270.6 | 259.3 | 239.4 | 223.2 | 214.5 |
| 72.5°  | 240.6 | 226.9 | 208.2 | 195.8 | 188.3 |
| 75°    | 209.5 | 195.8 | 180.8 | 168.3 | 160.8 |
| 77.5°  | 177.1 | 165.8 | 153.4 | 144.6 | 137.2 |
| 80°    | 145.9 | 137.2 | 128.4 | 119.7 | 114.7 |
| 82.5°  | 114.7 | 109.7 | 104.7 | 98.5  | 93.5  |
| 85°    | 87.3  | 87.3  | 82.3  | 77.3  | 72.3  |
| 87.5°  | 64.8  | 66.1  | 63.6  | 58.6  | 54.9  |
| 90°    | 48.6  | 51.1  | 48.6  | 43.6  | 39.9  |
| 92.5°  | 43.6  | 41.1  | 38.7  | 36.2  | 32.4  |
| 95°    | 39.9  | 33.7  | 31.2  | 28.7  | 26.2  |
| 97.5°  | 36.2  | 28.7  | 24.9  | 22.4  | 19.9  |
| 100°   | 32.4  | 24.9  | 18.7  | 16.2  | 15.0  |
| 102.5° | 29.9  | 23.7  | 15.0  | 11.2  | 11.2  |
| 105°   | 27.4  | 21.2  | 11.2  | 7.5   | 6.2   |
| 107.5° | 23.7  | 18.7  | 10.0  | 5.0   | 3.7   |
| 110°   | 21.2  | 17.5  | 8.7   | 2.5   | 1.2   |

TEST NUMBER: P571894

CATALOG NUMBER: 22ID-25-L830-DBD

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-----|-------|-----|
| 112.5° | 18.7 | 15.0  | 8.7 | 2.5   | 0.0 |
| 115°   | 16.2 | 13.7  | 7.5 | 1.2   | 0.0 |
| 117.5° | 15.0 | 11.2  | 6.2 | 1.2   | 0.0 |
| 120°   | 12.5 | 10.0  | 5.0 | 1.2   | 0.0 |
| 122.5° | 11.2 | 8.7   | 5.0 | 1.2   | 0.0 |
| 125°   | 10.0 | 7.5   | 3.7 | 0.0   | 0.0 |
| 127.5° | 8.7  | 6.2   | 3.7 | 0.0   | 0.0 |
| 130°   | 7.5  | 6.2   | 2.5 | 0.0   | 0.0 |
| 132.5° | 6.2  | 5.0   | 2.5 | 0.0   | 0.0 |
| 135°   | 5.0  | 3.7   | 1.2 | 0.0   | 0.0 |
| 137.5° | 3.7  | 3.7   | 1.2 | 0.0   | 0.0 |
| 140°   | 3.7  | 2.5   | 1.2 | 0.0   | 0.0 |
| 142.5° | 2.5  | 2.5   | 0.0 | 0.0   | 0.0 |
| 145°   | 2.5  | 1.2   | 0.0 | 0.0   | 0.0 |
| 147.5° | 1.2  | 1.2   | 0.0 | 0.0   | 0.0 |
| 150°   | 1.2  | 0.0   | 0.0 | 0.0   | 0.0 |
| 152.5° | 0.0  | 0.0   | 0.0 | 0.0   | 0.0 |
| 155°   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0 |
| 157.5° | 0.0  | 0.0   | 0.0 | 0.0   | 0.0 |
| 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 | 1.2   | 1.2 |
| 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   | 1.2 |
| 175°   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0 |
| 177.5° | 0.0  | 0.0   | 1.2 | 1.2   | 1.2 |
| 180°   | 0.0  | 0.0   | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P571894

CATALOG NUMBER: 22ID-25-L830-DBD

**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 | 14.28            | 15.88 | 14.68 | 16.25 | 16.63 | 13.32          | 14.93 | 13.73 | 15.30 | 15.67 |
|                 | 3H   | 16.16            | 17.62 | 16.58 | 18.00 | 18.43 | 15.06          | 16.52 | 15.48 | 16.90 | 17.32 |
|                 | 4H   | 16.95            | 18.32 | 17.39 | 18.72 | 19.16 | 15.76          | 17.13 | 16.19 | 17.53 | 17.97 |
|                 | 6H   | 17.60            | 18.88 | 18.05 | 19.29 | 19.75 | 16.34          | 17.62 | 16.80 | 18.04 | 18.49 |
|                 | 8H   | 17.84            | 19.07 | 18.31 | 19.51 | 19.97 | 16.58          | 17.81 | 17.05 | 18.25 | 18.71 |
|                 | 12H  | 18.05            | 19.22 | 18.52 | 19.66 | 20.15 | 16.79          | 17.96 | 17.26 | 18.39 | 18.88 |
| 4H              | 2H   | 14.77            | 16.15 | 15.21 | 16.55 | 16.99 | 14.01          | 15.39 | 14.45 | 15.79 | 16.23 |
|                 | 3H   | 16.89            | 18.06 | 17.34 | 18.50 | 18.96 | 15.97          | 17.14 | 16.42 | 17.58 | 18.04 |
|                 | 4H   | 17.81            | 18.87 | 18.29 | 19.34 | 19.83 | 16.80          | 17.86 | 17.27 | 18.32 | 18.81 |
|                 | 6H   | 18.62            | 19.55 | 19.11 | 20.04 | 20.55 | 17.53          | 18.46 | 18.02 | 18.95 | 19.46 |
|                 | 8H   | 18.93            | 19.81 | 19.43 | 20.30 | 20.82 | 17.83          | 18.70 | 18.33 | 19.19 | 19.71 |
|                 | 12H  | 19.21            | 20.00 | 19.73 | 20.52 | 21.05 | 18.10          | 18.89 | 18.61 | 19.41 | 19.93 |
| 8H              | 4H   | 18.08            | 18.96 | 18.58 | 19.45 | 19.97 | 17.19          | 18.07 | 17.69 | 18.55 | 19.08 |
|                 | 6H   | 19.03            | 19.76 | 19.56 | 20.29 | 20.83 | 18.07          | 18.80 | 18.60 | 19.33 | 19.87 |
|                 | 8H   | 19.44            | 20.10 | 19.98 | 20.65 | 21.19 | 18.46          | 19.13 | 19.01 | 19.67 | 20.22 |
|                 | 12H  | 19.83            | 20.42 | 20.38 | 20.95 | 21.57 | 18.84          | 19.43 | 19.39 | 19.97 | 20.58 |
| 12H             | 4H   | 18.12            | 18.91 | 18.64 | 19.43 | 19.96 | 17.25          | 18.04 | 17.77 | 18.56 | 19.09 |
|                 | 6H   | 19.09            | 19.75 | 19.63 | 20.30 | 20.84 | 18.17          | 18.83 | 18.72 | 19.38 | 19.93 |
|                 | 8H   | 19.57            | 20.16 | 20.11 | 20.69 | 21.30 | 18.64          | 19.23 | 19.19 | 19.76 | 20.38 |