

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: NEO-RAY

Report Number: P1062141

Luminaire Tested: S125RDRP-H610D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1062141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H610D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

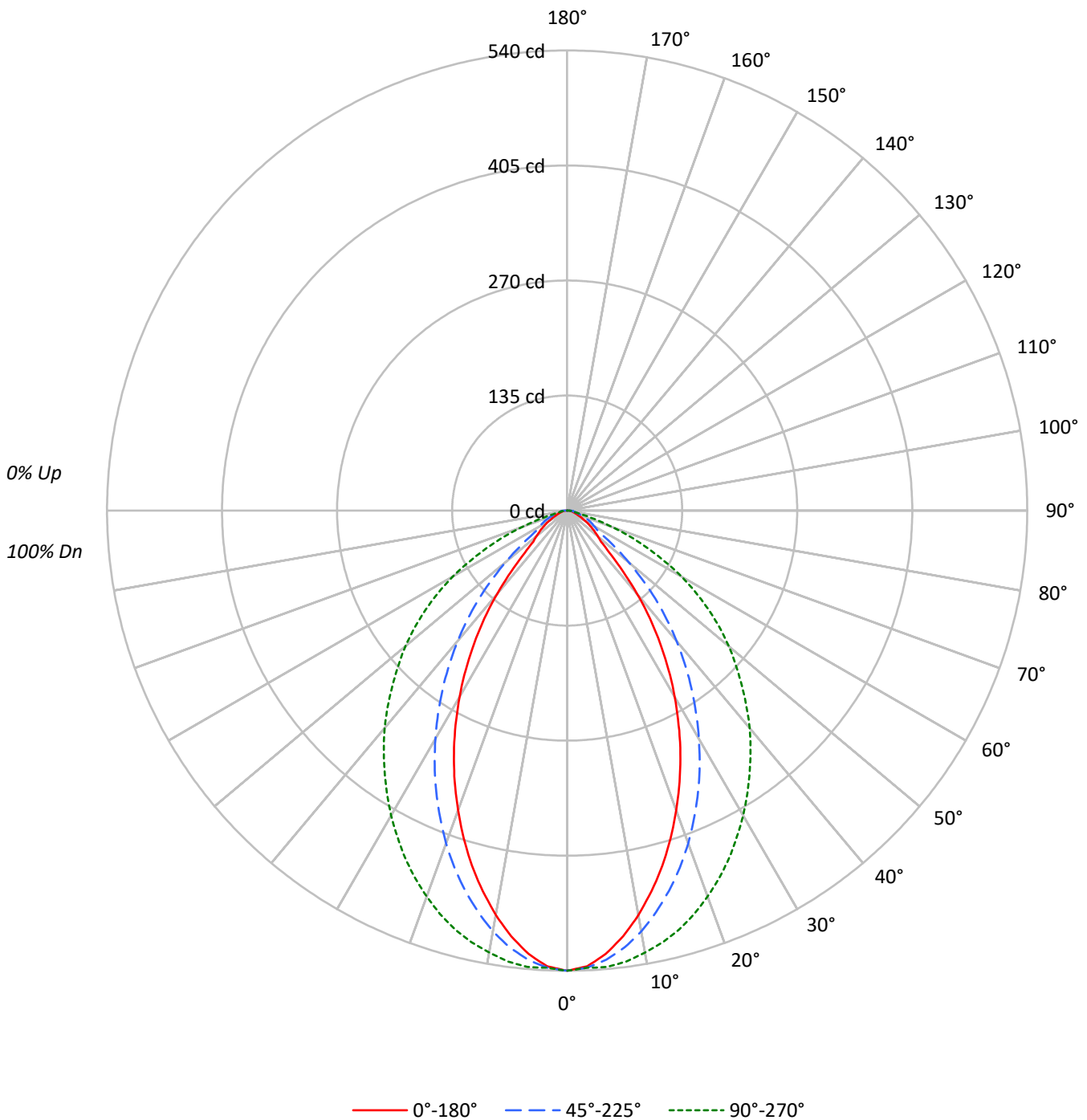
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 782.0 lumens  
Efficiency: N/A  
Efficacy: 44.9 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.4  
Input Voltage (V): 120  
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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99  | 97  | 98  | 96  | 94  | 94  | 92  | 91  | 89  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 56  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 78  | 67  | 59  | 54  | 77  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 53  | 51  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 58  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 69  | 57  | 50  | 45  | 68  | 57  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 65  | 53  | 46  | 41  | 64  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 36  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3717 | 3717 | 3717 |
| 5°  | 3609 | 3656 | 3716 |
| 10° | 3369 | 3506 | 3682 |
| 15° | 3076 | 3292 | 3628 |
| 20° | 2741 | 3044 | 3531 |
| 25° | 2389 | 2764 | 3417 |
| 30° | 2007 | 2458 | 3284 |
| 35° | 1596 | 2137 | 3139 |
| 40° | 1150 | 1795 | 2996 |
| 45° | 682  | 1425 | 2821 |
| 50° | 503  | 1014 | 2655 |
| 55° | 427  | 627  | 2431 |
| 60° | 347  | 505  | 2141 |
| 65° | 270  | 468  | 1691 |
| 70° | 232  | 405  | 1131 |
| 75° | 213  | 351  | 458  |
| 80° | 226  | 365  | 317  |
| 85° | 269  | 545  | 363  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2821 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.8   | 6.4       |
| 10°-20°   | 130.7  | 16.7      |
| 20°-30°   | 170.8  | 21.8      |
| 30°-40°   | 166.4  | 21.3      |
| 40°-50°   | 124.8  | 16.0      |
| 50°-60°   | 78.2   | 10.0      |
| 60°-70°   | 40.7   | 5.2       |
| 70°-80°   | 14.7   | 1.9       |
| 80°-90°   | 5.8    | 0.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 351.3  | 44.9      |
| 0°-40°    | 517.7  | 66.2      |
| 0°-60°    | 720.7  | 92.2      |
| 0°-90°    | 782.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 782.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 540 | 540   | 540 | 540   | 540 |      |
| 5°  | 522 | 529   | 529 | 533   | 538 | 49   |
| 15° | 432 | 444   | 462 | 490   | 509 | 120  |
| 25° | 314 | 332   | 364 | 413   | 450 | 144  |
| 35° | 190 | 210   | 254 | 322   | 374 | 118  |
| 45° | 70  | 91    | 146 | 226   | 290 | 59   |
| 55° | 36  | 37    | 52  | 137   | 202 | 32   |
| 65° | 17  | 18    | 29  | 55    | 104 | 17   |
| 75° | 8   | 11    | 13  | 14    | 17  | 9    |
| 85° | 3   | 6     | 7   | 6     | 5   | 4    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 539.9 | 539.9 | 539.9 | 539.9 | 539.9 |
| 2.5°  | 535.3 | 540.5 | 537.0 | 537.0 | 537.0 |
| 5°    | 522.1 | 529.0 | 529.0 | 533.0 | 537.6 |
| 7.5°  | 503.7 | 511.8 | 516.9 | 526.7 | 533.6 |
| 10°   | 481.9 | 491.7 | 501.4 | 517.5 | 526.7 |
| 12.5° | 457.3 | 468.7 | 482.5 | 504.9 | 518.7 |
| 15°   | 431.5 | 444.1 | 461.9 | 490.5 | 508.9 |
| 17.5° | 403.3 | 418.3 | 439.5 | 473.9 | 496.3 |
| 20°   | 374.1 | 389.0 | 415.4 | 454.4 | 481.9 |
| 22.5° | 344.8 | 360.9 | 389.6 | 433.7 | 466.5 |
| 25°   | 314.4 | 331.6 | 363.8 | 413.1 | 449.8 |
| 27.5° | 283.4 | 301.2 | 336.8 | 391.9 | 431.5 |
| 30°   | 252.4 | 270.8 | 309.2 | 368.9 | 413.1 |
| 32.5° | 221.5 | 241.0 | 281.7 | 345.4 | 393.6 |
| 35°   | 189.9 | 210.0 | 254.2 | 321.9 | 373.5 |
| 37.5° | 159.5 | 179.6 | 226.6 | 297.8 | 353.4 |
| 40°   | 127.9 | 149.7 | 199.7 | 273.7 | 333.3 |
| 42.5° | 97.0  | 119.3 | 172.7 | 249.6 | 311.5 |
| 45°   | 70.0  | 90.7  | 146.3 | 226.1 | 289.7 |
| 47.5° | 53.9  | 65.4  | 119.3 | 202.0 | 268.5 |
| 50°   | 47.0  | 50.5  | 94.7  | 179.6 | 247.9 |
| 52.5° | 40.7  | 43.0  | 71.1  | 158.9 | 225.5 |
| 55°   | 35.6  | 37.3  | 52.2  | 136.6 | 202.5 |
| 57.5° | 29.8  | 32.1  | 41.3  | 114.7 | 179.0 |
| 60°   | 25.2  | 26.4  | 36.7  | 94.7  | 155.5 |
| 62.5° | 20.7  | 21.8  | 32.7  | 74.6  | 129.1 |
| 65°   | 16.6  | 17.8  | 28.7  | 55.1  | 103.8 |
| 67.5° | 13.8  | 14.3  | 24.1  | 39.0  | 79.7  |
| 70°   | 11.5  | 12.0  | 20.1  | 27.0  | 56.2  |
| 72.5° | 9.8   | 11.5  | 16.1  | 19.5  | 35.6  |
| 75°   | 8.0   | 10.9  | 13.2  | 13.8  | 17.2  |
| 77.5° | 6.9   | 10.3  | 10.9  | 10.9  | 9.8   |
| 80°   | 5.7   | 8.6   | 9.2   | 8.6   | 8.0   |
| 82.5° | 4.6   | 6.9   | 7.5   | 7.5   | 6.3   |
| 85°   | 3.4   | 5.7   | 6.9   | 6.3   | 4.6   |
| 87.5° | 2.3   | 5.2   | 5.7   | 5.2   | 3.4   |
| 90°   | 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 | 4.47             | 5.83 | 4.84 | 6.14  | 6.45  | 14.09          | 15.44 | 14.45 | 15.75 | 16.07 |
|                 | 3H   | 5.33             | 6.53 | 5.71 | 6.86  | 7.23  | 14.93          | 16.13 | 15.31 | 16.46 | 16.82 |
|                 | 4H   | 5.76             | 6.87 | 6.16 | 7.23  | 7.61  | 15.01          | 16.13 | 15.41 | 16.48 | 16.86 |
|                 | 6H   | 6.18             | 7.21 | 6.60 | 7.58  | 7.98  | 14.99          | 16.02 | 15.40 | 16.39 | 16.78 |
|                 | 8H   | 6.36             | 7.34 | 6.79 | 7.73  | 8.13  | 14.98          | 15.95 | 15.41 | 16.34 | 16.75 |
|                 | 12H  | 6.52             | 7.45 | 6.95 | 7.84  | 8.27  | 14.96          | 15.90 | 15.40 | 16.28 | 16.71 |
| 4H              | 2H   | 5.44             | 6.56 | 5.84 | 6.91  | 7.29  | 13.95          | 15.07 | 14.36 | 15.42 | 15.81 |
|                 | 3H   | 6.49             | 7.41 | 6.90 | 7.81  | 8.21  | 14.86          | 15.78 | 15.28 | 16.18 | 16.59 |
|                 | 4H   | 7.05             | 7.87 | 7.49 | 8.29  | 8.73  | 14.97          | 15.79 | 15.40 | 16.20 | 16.65 |
|                 | 6H   | 7.65             | 8.36 | 8.11 | 8.81  | 9.27  | 14.99          | 15.70 | 15.46 | 16.15 | 16.61 |
|                 | 8H   | 7.89             | 8.55 | 8.36 | 9.00  | 9.47  | 14.99          | 15.66 | 15.46 | 16.10 | 16.57 |
|                 | 12H  | 8.11             | 8.70 | 8.60 | 9.18  | 9.66  | 15.01          | 15.59 | 15.49 | 16.07 | 16.55 |
| 8H              | 4H   | 7.53             | 8.19 | 7.99 | 8.63  | 9.10  | 14.89          | 15.55 | 15.36 | 16.00 | 16.47 |
|                 | 6H   | 8.34             | 8.88 | 8.84 | 9.38  | 9.86  | 14.95          | 15.49 | 15.45 | 15.98 | 16.46 |
|                 | 8H   | 8.72             | 9.21 | 9.24 | 9.72  | 10.21 | 14.98          | 15.47 | 15.50 | 15.98 | 16.47 |
|                 | 12H  | 9.11             | 9.54 | 9.62 | 10.03 | 10.60 | 15.04          | 15.47 | 15.56 | 15.97 | 16.54 |
| 12H             | 4H   | 7.58             | 8.16 | 8.06 | 8.65  | 9.12  | 14.86          | 15.44 | 15.34 | 15.93 | 16.40 |
|                 | 6H   | 8.46             | 8.95 | 8.98 | 9.46  | 9.95  | 14.91          | 15.40 | 15.43 | 15.91 | 16.41 |
|                 | 8H   | 8.95             | 9.38 | 9.47 | 9.88  | 10.45 | 14.98          | 15.41 | 15.50 | 15.91 | 16.48 |