

Signify Classified - Internal  
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: P622053

Luminaire Tested: VLT-WB-M-100U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622053  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-WB-M-100U-100D-940-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

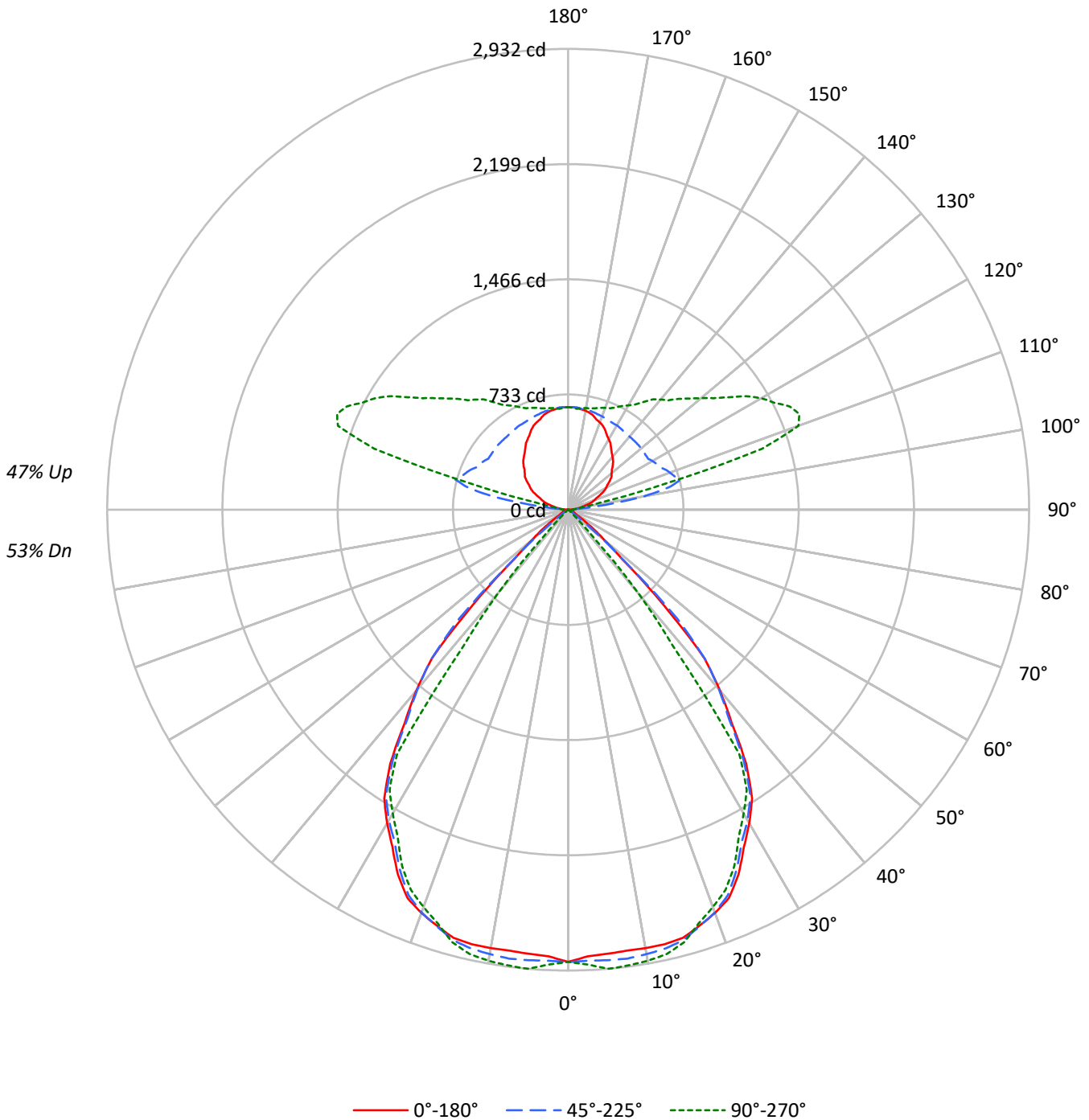
Lumens per Lamp: N/A  
Luminaire Lumens: 7495.2 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.7  
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





TEST NUMBER: P622053

CATALOG NUMBER: VLT-WB-M-100U-100D-940-UNV-STD-W-4

**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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 | 53 |    |    |    |   |
| 1   | 101 | 97  | 94  | 91  | 93  | 90  | 88  | 85  | 78 | 76 | 74 | 66 | 65 | 64 | 56 | 55 | 54 | 49 |    |    |    |   |
| 2   | 94  | 88  | 83  | 78  | 87  | 82  | 78  | 74  | 71 | 68 | 65 | 61 | 59 | 57 | 52 | 50 | 49 | 45 |    |    |    |   |
| 3   | 87  | 79  | 73  | 68  | 81  | 74  | 69  | 65  | 65 | 61 | 58 | 56 | 54 | 51 | 48 | 46 | 45 | 41 |    |    |    |   |
| 4   | 81  | 72  | 65  | 60  | 75  | 68  | 62  | 57  | 59 | 55 | 52 | 52 | 49 | 46 | 45 | 43 | 41 | 38 |    |    |    |   |
| 5   | 75  | 65  | 59  | 53  | 70  | 62  | 56  | 51  | 55 | 50 | 46 | 48 | 44 | 42 | 42 | 39 | 37 | 34 |    |    |    |   |
| 6   | 70  | 60  | 53  | 48  | 66  | 56  | 50  | 46  | 50 | 45 | 42 | 44 | 41 | 38 | 39 | 36 | 34 | 32 |    |    |    |   |
| 7   | 66  | 55  | 48  | 43  | 61  | 52  | 46  | 41  | 46 | 42 | 38 | 41 | 37 | 35 | 36 | 33 | 31 | 29 |    |    |    |   |
| 8   | 61  | 51  | 44  | 39  | 57  | 48  | 42  | 38  | 43 | 38 | 35 | 38 | 34 | 32 | 34 | 31 | 29 | 27 |    |    |    |   |
| 9   | 58  | 47  | 40  | 35  | 54  | 44  | 38  | 34  | 40 | 35 | 32 | 36 | 32 | 29 | 32 | 29 | 27 | 25 |    |    |    |   |
| 10  | 54  | 43  | 37  | 32  | 51  | 41  | 35  | 31  | 37 | 32 | 29 | 33 | 30 | 27 | 30 | 27 | 25 | 23 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20645 | 20645 | 20645 |
| 5°  | 20431 | 20724 | 21120 |
| 10° | 20637 | 20919 | 21231 |
| 15° | 20950 | 21056 | 21162 |
| 20° | 20851 | 20819 | 20540 |
| 25° | 20281 | 20039 | 19797 |
| 30° | 19081 | 18896 | 18491 |
| 35° | 17284 | 17034 | 16623 |
| 40° | 14057 | 13961 | 6599  |
| 45° | 8699  | 9918  | 455   |
| 50° | 3319  | 2659  | 272   |
| 55° | 1630  | 484   | 101   |
| 60° | 789   | 234   | 29    |
| 65° | 727   | 34    | 34    |
| 70° | 684   | 42    | 42    |
| 75° | 677   | 55    | 55    |
| 80° | 674   | 83    | 0     |
| 85° | 667   | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9918 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 274.7  | 3.7       |
| 10°-20°   | 797.0  | 10.6      |
| 20°-30°   | 1158.9 | 15.5      |
| 30°-40°   | 1153.3 | 15.4      |
| 40°-50°   | 507.1  | 6.8       |
| 50°-60°   | 74.9   | 1.0       |
| 60°-70°   | 17.1   | 0.2       |
| 70°-80°   | 6.3    | 0.1       |
| 80°-90°   | 2.9    | 0.0       |
| 90°-100°  | 80.2   | 1.1       |
| 100°-110° | 571.3  | 7.6       |
| 110°-120° | 775.6  | 10.3      |
| 120°-130° | 631.3  | 8.4       |
| 130°-140° | 507.7  | 6.8       |
| 140°-150° | 400.3  | 5.3       |
| 150°-160° | 292.7  | 3.9       |
| 160°-170° | 181.8  | 2.4       |
| 170°-180° | 62.0   | 0.8       |
| 0°-30°    | 2230.7 | 29.8      |
| 0°-40°    | 3383.9 | 45.1      |
| 0°-60°    | 3965.9 | 52.9      |
| 0°-90°    | 3992.3 | 53.3      |
| 90°-120°  | 1427.1 | 19.0      |
| 90°-150°  | 2966.4 | 39.6      |
| 90°-180°  | 3503.0 | 46.7      |
| 0°-180°   | 7495.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2877 | 2877  | 2877 | 2877  | 2877 |      |
| 5°   | 2836 | 2886  | 2877 | 2884  | 2932 | 271  |
| 15°  | 2820 | 2880  | 2834 | 2807  | 2848 | 793  |
| 25°  | 2561 | 2609  | 2531 | 2464  | 2500 | 1171 |
| 35°  | 1973 | 1967  | 1944 | 1904  | 1898 | 1208 |
| 45°  | 857  | 975   | 977  | 65    | 45   | 664  |
| 55°  | 130  | 140   | 39   | 14    | 8    | 132  |
| 65°  | 43   | 37    | 2    | 2     | 2    | 43   |
| 75°  | 24   | 4     | 2    | 2     | 2    | 26   |
| 85°  | 8    | 0     | 0    | 0     | 0    | 8    |
| 90°  | 0    | 4     | 8    | 12    | 12   | 2    |
| 95°  | 33   | 61    | 33   | 37    | 45   | 37   |
| 105° | 127  | 195   | 742  | 948   | 628  | 134  |
| 115° | 226  | 274   | 640  | 1330  | 1554 | 224  |
| 125° | 324  | 368   | 603  | 1054  | 1247 | 288  |
| 135° | 402  | 446   | 607  | 868   | 997  | 309  |
| 145° | 476  | 516   | 611  | 756   | 837  | 299  |
| 155° | 558  | 578   | 623  | 686   | 718  | 256  |
| 165° | 619  | 627   | 640  | 656   | 668  | 174  |
| 175° | 652  | 656   | 652  | 648   | 644  | 62   |
| 180° | 652  | 652   | 652  | 652   | 652  |      |



TEST NUMBER: P622053

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2877.0 | 2877.0 | 2877.0 | 2877.0 | 2877.0 |
| 2.5°   | 2844.4 | 2887.4 | 2872.1 | 2871.1 | 2896.6 |
| 5°     | 2836.3 | 2886.1 | 2877.0 | 2884.2 | 2932.0 |
| 7.5°   | 2830.6 | 2880.8 | 2880.7 | 2877.3 | 2925.1 |
| 10°    | 2832.2 | 2884.0 | 2870.9 | 2865.9 | 2913.7 |
| 12.5°  | 2832.2 | 2887.2 | 2859.5 | 2846.4 | 2895.7 |
| 15°    | 2820.0 | 2879.7 | 2834.3 | 2806.7 | 2848.5 |
| 17.5°  | 2776.0 | 2840.9 | 2778.5 | 2724.7 | 2759.7 |
| 20°    | 2730.4 | 2800.1 | 2726.3 | 2657.8 | 2689.7 |
| 22.5°  | 2673.4 | 2735.1 | 2654.7 | 2582.9 | 2616.4 |
| 25°    | 2561.4 | 2609.2 | 2530.9 | 2464.5 | 2500.3 |
| 27.5°  | 2420.1 | 2446.4 | 2387.9 | 2324.1 | 2347.2 |
| 30°    | 2302.8 | 2322.7 | 2280.4 | 2219.6 | 2231.6 |
| 32.5°  | 2177.4 | 2190.9 | 2156.6 | 2103.9 | 2114.3 |
| 35°    | 1973.0 | 1967.0 | 1944.5 | 1903.6 | 1897.6 |
| 37.5°  | 1705.8 | 1695.5 | 1681.0 | 1523.0 | 1092.2 |
| 40°    | 1500.6 | 1504.6 | 1490.4 | 931.4  | 704.5  |
| 42.5°  | 1284.0 | 1308.7 | 1288.4 | 634.2  | 230.5  |
| 45°    | 857.2  | 974.7  | 977.3  | 64.7   | 44.8   |
| 47.5°  | 463.4  | 591.2  | 480.9  | 40.1   | 32.6   |
| 50°    | 297.3  | 370.9  | 238.2  | 30.4   | 24.4   |
| 52.5°  | 212.6  | 248.0  | 93.3   | 23.9   | 17.9   |
| 55°    | 130.3  | 140.3  | 38.7   | 14.1   | 8.1    |
| 57.5°  | 77.8   | 92.5   | 24.4   | 5.2    | 2.0    |
| 60°    | 55.0   | 64.9   | 16.3   | 2.0    | 2.0    |
| 62.5°  | 48.5   | 48.9   | 11.4   | 2.0    | 2.0    |
| 65°    | 42.8   | 36.8   | 2.0    | 2.0    | 2.0    |
| 67.5°  | 37.5   | 26.7   | 2.0    | 2.0    | 2.0    |
| 70°    | 32.6   | 18.6   | 2.0    | 2.0    | 2.0    |
| 72.5°  | 29.3   | 12.2   | 2.0    | 2.0    | 2.0    |
| 75°    | 24.4   | 4.5    | 2.0    | 2.0    | 2.0    |
| 77.5°  | 19.5   | 2.4    | 2.0    | 1.6    | 1.6    |
| 80°    | 16.3   | 2.4    | 2.0    | 0.0    | 0.0    |
| 82.5°  | 13.0   | 2.3    | 0.4    | 0.0    | 0.0    |
| 85°    | 8.1    | 0.2    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 3.3    | 0.9    | 1.6    | 2.5    | 2.5    |
| 90°    | 0.0    | 4.0    | 8.2    | 12.3   | 12.3   |
| 92.5°  | 9.8    | 13.9   | 18.0   | 25.5   | 28.7   |
| 95°    | 32.8   | 60.9   | 32.8   | 37.1   | 45.1   |
| 97.5°  | 58.2   | 116.8  | 241.2  | 71.1   | 61.5   |
| 100°   | 77.9   | 146.1  | 483.9  | 142.5  | 94.3   |
| 102.5° | 97.6   | 169.0  | 654.6  | 375.9  | 205.9  |
| 105°   | 127.1  | 195.3  | 742.3  | 948.3  | 627.5  |
| 107.5° | 156.7  | 208.0  | 708.7  | 1380.1 | 1292.7 |
| 110°   | 176.4  | 224.5  | 689.0  | 1450.2 | 1558.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 196.0 | 244.2 | 669.3 | 1409.2 | 1591.3 |
| 115°   | 225.6 | 273.7 | 639.8 | 1329.8 | 1554.4 |
| 117.5° | 255.9 | 303.2 | 632.4 | 1243.8 | 1474.8 |
| 120°   | 278.9 | 323.0 | 619.3 | 1178.4 | 1419.0 |
| 122.5° | 295.3 | 342.6 | 602.9 | 1122.2 | 1343.6 |
| 125°   | 324.0 | 368.1 | 602.9 | 1054.3 | 1246.8 |
| 127.5° | 347.8 | 392.7 | 603.7 | 975.5  | 1165.6 |
| 130°   | 360.9 | 409.0 | 607.0 | 922.8  | 1103.2 |
| 132.5° | 377.3 | 425.4 | 607.0 | 899.1  | 1047.5 |
| 135°   | 401.9 | 446.0 | 607.0 | 868.3  | 996.6  |
| 137.5° | 422.4 | 469.7 | 607.0 | 834.2  | 944.1  |
| 140°   | 438.8 | 482.9 | 607.0 | 814.3  | 914.6  |
| 142.5° | 455.2 | 496.1 | 610.3 | 791.2  | 885.1  |
| 145°   | 475.7 | 515.8 | 611.1 | 756.5  | 836.7  |
| 147.5° | 500.4 | 535.6 | 616.0 | 731.4  | 793.2  |
| 150°   | 516.8 | 548.8 | 619.3 | 714.8  | 766.9  |
| 152.5° | 533.2 | 562.0 | 619.3 | 701.5  | 744.0  |
| 155°   | 557.8 | 577.8 | 623.4 | 685.6  | 717.7  |
| 157.5° | 577.5 | 596.7 | 628.3 | 675.6  | 698.9  |
| 160°   | 590.6 | 606.6 | 631.6 | 669.0  | 689.0  |
| 162.5° | 600.4 | 616.5 | 634.9 | 665.5  | 679.2  |
| 165°   | 619.3 | 627.3 | 639.8 | 656.5  | 668.5  |
| 167.5° | 630.0 | 637.2 | 643.9 | 652.3  | 659.5  |
| 170°   | 639.8 | 643.8 | 643.9 | 652.2  | 656.2  |
| 172.5° | 643.1 | 650.3 | 647.2 | 648.9  | 652.9  |
| 175°   | 652.1 | 656.1 | 652.1 | 647.9  | 643.9  |
| 177.5° | 652.1 | 655.3 | 652.1 | 652.0  | 648.8  |
| 180°   | 652.1 | 652.1 | 652.1 | 652.1  | 652.1  |



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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 | 2.79             | 3.50 | 3.76 | 4.45 | 5.69 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 3.23             | 3.86 | 4.21 | 4.82 | 6.08 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 3.39             | 3.98 | 4.38 | 4.95 | 6.22 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 3.57             | 4.11 | 4.58 | 5.09 | 6.37 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 3.66             | 4.17 | 4.67 | 5.16 | 6.43 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 3.72             | 4.21 | 4.73 | 5.19 | 6.49 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 2.49             | 3.08 | 3.49 | 4.05 | 5.32 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 2.97             | 3.45 | 3.97 | 4.45 | 5.73 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 3.14             | 3.58 | 4.15 | 4.57 | 5.88 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 3.37             | 3.75 | 4.39 | 4.76 | 6.07 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 3.49             | 3.84 | 4.51 | 4.85 | 6.16 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 3.60             | 3.91 | 4.63 | 4.93 | 6.25 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 2.97             | 3.32 | 3.99 | 4.32 | 5.64 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 3.20             | 3.49 | 4.24 | 4.54 | 5.85 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 3.34             | 3.59 | 4.39 | 4.62 | 5.96 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 3.47             | 3.69 | 4.52 | 4.72 | 6.10 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H             | 4H   | 2.89             | 3.21 | 3.93 | 4.23 | 5.55 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 3.14             | 3.39 | 4.19 | 4.43 | 5.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 3.27             | 3.49 | 4.32 | 4.52 | 5.90 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |