

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: P621973

Luminaire Tested: VLT-BB-M-125U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621973  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/28/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-BB-M-125U-050D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
BLACK BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

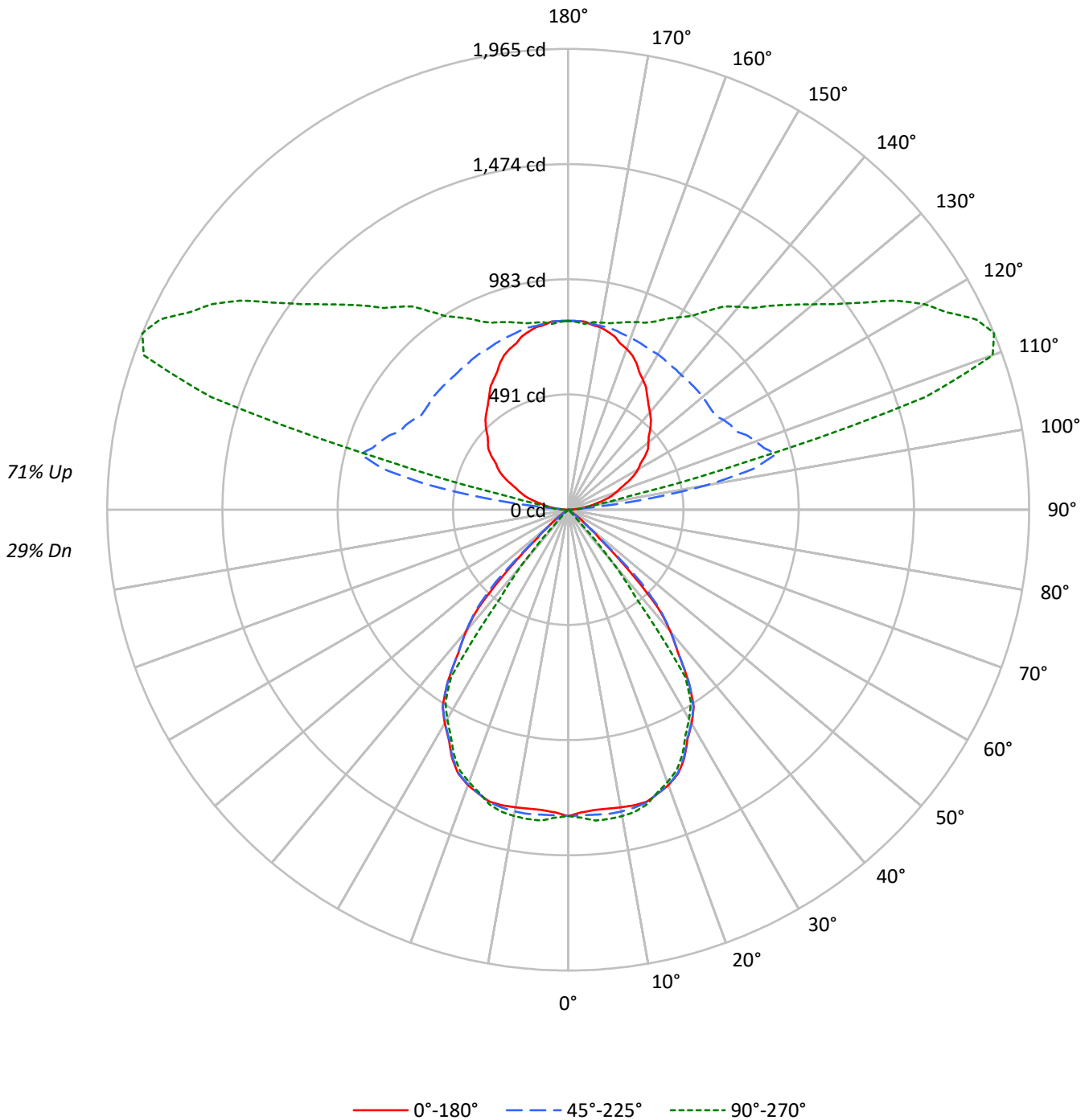
Lumens per Lamp: N/A  
Luminaire Lumens: 6125.8 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62  
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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### 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   | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 54 | 54 | 54 | 37 | 37 | 37 | 29 |
| 1   | 94  | 91  | 87  | 84  | 85 | 82 | 79 | 76 | 65 | 63 | 61 | 49 | 48 | 47 | 35 | 34 | 34 | 27 |
| 2   | 87  | 81  | 75  | 71  | 78 | 73 | 68 | 65 | 58 | 55 | 53 | 45 | 43 | 41 | 32 | 31 | 30 | 25 |
| 3   | 80  | 72  | 66  | 61  | 72 | 65 | 60 | 56 | 53 | 49 | 46 | 41 | 38 | 37 | 30 | 29 | 28 | 23 |
| 4   | 74  | 65  | 58  | 53  | 67 | 59 | 53 | 48 | 48 | 44 | 40 | 37 | 35 | 33 | 28 | 26 | 25 | 21 |
| 5   | 68  | 58  | 51  | 46  | 62 | 53 | 47 | 42 | 43 | 39 | 36 | 34 | 31 | 29 | 26 | 24 | 23 | 19 |
| 6   | 63  | 53  | 46  | 40  | 57 | 48 | 42 | 38 | 39 | 35 | 32 | 31 | 28 | 26 | 24 | 22 | 21 | 18 |
| 7   | 59  | 48  | 41  | 36  | 53 | 44 | 38 | 33 | 36 | 32 | 29 | 29 | 26 | 24 | 22 | 20 | 19 | 16 |
| 8   | 55  | 44  | 37  | 32  | 50 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 21 | 19 | 17 | 15 |
| 9   | 51  | 40  | 33  | 29  | 46 | 37 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 19 | 17 | 16 | 14 |
| 10  | 48  | 37  | 30  | 26  | 43 | 34 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 18 | 16 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9372 | 9372 | 9372 |
| 5°  | 9260 | 9400 | 9583 |
| 10° | 9389 | 9524 | 9665 |
| 15° | 9579 | 9601 | 9659 |
| 20° | 9542 | 9527 | 9438 |
| 25° | 9269 | 9231 | 9122 |
| 30° | 8715 | 8700 | 8538 |
| 35° | 7832 | 7840 | 7619 |
| 40° | 6359 | 6359 | 2910 |
| 45° | 3656 | 4448 | 59   |
| 50° | 1152 | 1065 | 55   |
| 55° | 402  | 85   | 49   |
| 60° | 27   | 56   | 56   |
| 65° | 17   | 49   | 49   |
| 70° | 21   | 61   | 61   |
| 75° | 0    | 53   | 53   |
| 80° | 0    | 79   | 79   |
| 85° | 0    | 82   | 82   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 4448 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.8  | 2.0       |
| 10°-20°   | 364.2  | 5.9       |
| 20°-30°   | 532.0  | 8.7       |
| 30°-40°   | 526.9  | 8.6       |
| 40°-50°   | 220.6  | 3.6       |
| 50°-60°   | 23.6   | 0.4       |
| 60°-70°   | 3.3    | 0.1       |
| 70°-80°   | 2.0    | 0.0       |
| 80°-90°   | 2.8    | 0.0       |
| 90°-100°  | 99.0   | 1.6       |
| 100°-110° | 705.5  | 11.5      |
| 110°-120° | 957.8  | 15.6      |
| 120°-130° | 779.6  | 12.7      |
| 130°-140° | 627.0  | 10.2      |
| 140°-150° | 494.3  | 8.1       |
| 150°-160° | 361.4  | 5.9       |
| 160°-170° | 224.5  | 3.7       |
| 170°-180° | 76.6   | 1.2       |
| 0°-30°    | 1020.9 | 16.7      |
| 0°-40°    | 1547.8 | 25.3      |
| 0°-60°    | 1791.9 | 29.3      |
| 0°-90°    | 1800.0 | 29.4      |
| 90°-120°  | 1762.4 | 28.8      |
| 90°-150°  | 3663.3 | 59.8      |
| 90°-180°  | 4326.0 | 70.6      |
| 0°-180°   | 6125.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1306 | 1306  | 1306 | 1306  | 1306 |      |
| 5°   | 1286 | 1308  | 1305 | 1308  | 1330 | 123  |
| 15°  | 1289 | 1316  | 1292 | 1283  | 1300 | 362  |
| 25°  | 1171 | 1191  | 1166 | 1138  | 1152 | 535  |
| 35°  | 894  | 896   | 895  | 877   | 870  | 548  |
| 45°  | 360  | 428   | 438  | 9     | 6    | 283  |
| 55°  | 32   | 43    | 7    | 5     | 4    | 36   |
| 65°  | 1    | 4     | 3    | 3     | 3    | 1    |
| 75°  | 0    | 2     | 2    | 2     | 2    | 0    |
| 85°  | 0    | 1     | 1    | 1     | 1    | 0    |
| 90°  | 0    | 5     | 10   | 15    | 15   | 2    |
| 95°  | 40   | 75    | 40   | 46    | 56   | 45   |
| 105° | 157  | 241   | 917  | 1171  | 775  | 166  |
| 115° | 279  | 338   | 790  | 1642  | 1920 | 277  |
| 125° | 400  | 455   | 744  | 1302  | 1540 | 356  |
| 135° | 496  | 551   | 750  | 1072  | 1231 | 382  |
| 145° | 588  | 637   | 755  | 934   | 1033 | 369  |
| 155° | 689  | 714   | 770  | 847   | 886  | 316  |
| 165° | 765  | 775   | 790  | 811   | 826  | 215  |
| 175° | 805  | 810   | 805  | 800   | 795  | 76   |
| 180° | 805  | 805   | 805  | 805   | 805  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1306.0 | 1306.0 | 1306.0 | 1306.0 | 1306.0 |
| 2.5°   | 1292.0 | 1310.3 | 1304.4 | 1303.1 | 1314.6 |
| 5°     | 1285.5 | 1308.4 | 1305.0 | 1308.4 | 1330.3 |
| 7.5°   | 1286.1 | 1307.3 | 1308.5 | 1308.4 | 1330.3 |
| 10°    | 1288.5 | 1310.4 | 1307.0 | 1304.5 | 1326.4 |
| 12.5°  | 1291.6 | 1314.2 | 1301.5 | 1297.5 | 1318.7 |
| 15°    | 1289.4 | 1316.1 | 1292.4 | 1283.0 | 1300.1 |
| 17.5°  | 1269.8 | 1300.6 | 1269.4 | 1251.4 | 1263.9 |
| 20°    | 1249.5 | 1281.9 | 1247.6 | 1222.5 | 1235.9 |
| 22.5°  | 1220.7 | 1250.8 | 1218.0 | 1189.1 | 1204.7 |
| 25°    | 1170.6 | 1190.6 | 1165.8 | 1137.8 | 1152.1 |
| 27.5°  | 1102.4 | 1113.9 | 1099.7 | 1074.6 | 1083.4 |
| 30°    | 1051.8 | 1059.4 | 1049.9 | 1024.7 | 1030.4 |
| 32.5°  | 995.7  | 999.5  | 993.8  | 970.8  | 973.5  |
| 35°    | 894.0  | 895.9  | 895.0  | 877.3  | 869.7  |
| 37.5°  | 768.4  | 772.2  | 770.0  | 693.0  | 478.2  |
| 40°    | 678.8  | 682.6  | 678.8  | 405.9  | 310.7  |
| 42.5°  | 566.6  | 591.0  | 584.5  | 276.8  | 88.6   |
| 45°    | 360.3  | 428.0  | 438.3  | 8.7    | 5.8    |
| 47.5°  | 178.0  | 251.0  | 206.1  | 5.6    | 5.6    |
| 50°    | 103.2  | 148.0  | 95.4   | 4.9    | 4.9    |
| 52.5°  | 69.0   | 90.1   | 27.7   | 4.9    | 4.9    |
| 55°    | 32.1   | 42.6   | 6.8    | 4.8    | 3.9    |
| 57.5°  | 11.3   | 21.4   | 4.7    | 3.9    | 3.9    |
| 60°    | 1.9    | 10.5   | 3.9    | 3.9    | 3.9    |
| 62.5°  | 1.2    | 5.9    | 3.9    | 3.1    | 3.9    |
| 65°    | 1.0    | 3.8    | 2.9    | 2.9    | 2.9    |
| 67.5°  | 1.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 70°    | 1.0    | 2.9    | 2.9    | 2.9    | 2.9    |
| 72.5°  | 0.2    | 2.1    | 2.1    | 2.2    | 2.9    |
| 75°    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 77.5°  | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 80°    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5°  | 0.0    | 1.1    | 1.2    | 1.2    | 1.9    |
| 85°    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 87.5°  | 0.0    | 1.8    | 2.8    | 3.8    | 3.8    |
| 90°    | 0.0    | 5.0    | 10.1   | 15.2   | 15.2   |
| 92.5°  | 12.2   | 17.1   | 22.3   | 31.5   | 35.5   |
| 95°    | 40.5   | 75.2   | 40.5   | 45.8   | 55.7   |
| 97.5°  | 71.9   | 144.2  | 297.8  | 87.9   | 76.0   |
| 100°   | 96.2   | 180.4  | 597.6  | 175.9  | 116.5  |
| 102.5° | 120.5  | 208.7  | 808.3  | 464.2  | 254.2  |
| 105°   | 157.0  | 241.2  | 916.7  | 1171.1 | 774.9  |
| 107.5° | 193.5  | 256.9  | 875.2  | 1704.4 | 1596.4 |
| 110°   | 217.8  | 277.2  | 850.9  | 1790.9 | 1924.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 242.1 | 301.5 | 826.6 | 1740.3 | 1965.1 |
| 115°   | 278.6 | 338.0 | 790.1 | 1642.2 | 1919.5 |
| 117.5° | 316.0 | 374.5 | 781.0 | 1536.0 | 1821.3 |
| 120°   | 344.4 | 398.9 | 764.8 | 1455.3 | 1752.4 |
| 122.5° | 364.7 | 423.1 | 744.5 | 1385.8 | 1659.2 |
| 125°   | 400.1 | 454.6 | 744.5 | 1302.0 | 1539.7 |
| 127.5° | 429.5 | 485.0 | 745.5 | 1204.7 | 1439.4 |
| 130°   | 445.7 | 505.1 | 749.6 | 1139.6 | 1362.4 |
| 132.5° | 466.0 | 525.4 | 749.6 | 1110.3 | 1293.5 |
| 135°   | 496.3 | 550.8 | 749.6 | 1072.3 | 1230.7 |
| 137.5° | 521.7 | 580.1 | 749.6 | 1030.2 | 1165.9 |
| 140°   | 541.9 | 596.4 | 749.6 | 1005.6 | 1129.4 |
| 142.5° | 562.2 | 612.7 | 753.6 | 977.1  | 1093.0 |
| 145°   | 587.5 | 637.0 | 754.6 | 934.2  | 1033.2 |
| 147.5° | 617.9 | 661.5 | 760.7 | 903.3  | 979.5  |
| 150°   | 638.2 | 677.8 | 764.8 | 882.7  | 947.1  |
| 152.5° | 658.4 | 694.1 | 764.8 | 866.2  | 918.7  |
| 155°   | 688.8 | 713.6 | 769.8 | 846.7  | 886.3  |
| 157.5° | 713.1 | 736.9 | 775.9 | 834.3  | 863.0  |
| 160°   | 729.3 | 749.1 | 780.0 | 826.1  | 850.9  |
| 162.5° | 741.5 | 761.3 | 784.0 | 821.9  | 838.7  |
| 165°   | 764.8 | 774.7 | 790.1 | 810.7  | 825.6  |
| 167.5° | 777.9 | 786.9 | 795.2 | 805.5  | 814.4  |
| 170°   | 790.1 | 795.1 | 795.2 | 805.4  | 810.4  |
| 172.5° | 794.2 | 803.1 | 799.2 | 801.4  | 806.3  |
| 175°   | 805.3 | 810.2 | 805.3 | 800.1  | 795.2  |
| 177.5° | 805.3 | 809.3 | 805.3 | 805.2  | 801.2  |
| 180°   | 805.3 | 805.3 | 805.3 | 805.3  | 805.3  |



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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 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H              | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H             | 4H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 |