

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: P621988

Luminaire Tested: VLT-BB-M-150U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621988
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-150U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

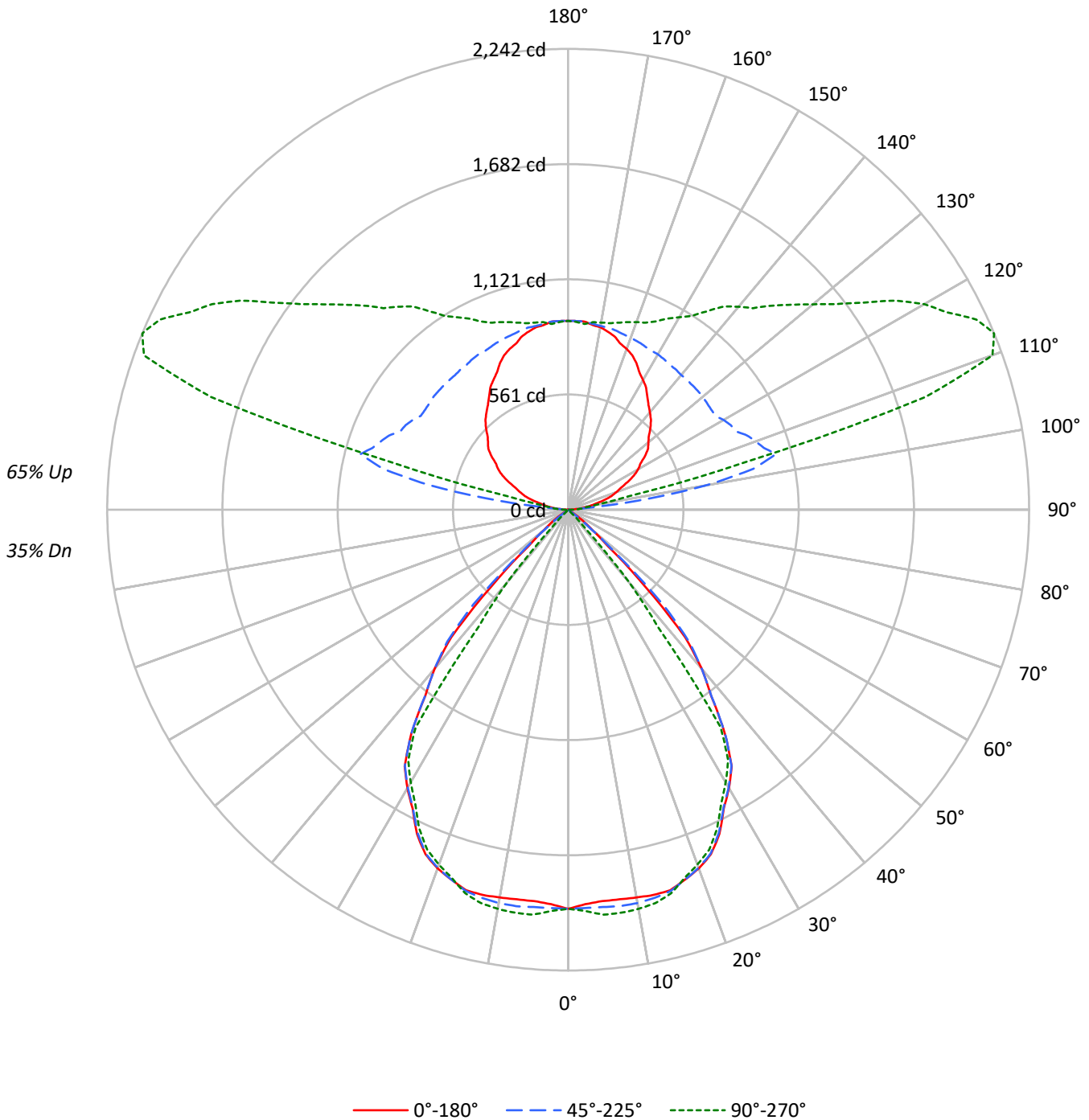
Lumens per Lamp: N/A
Luminaire Lumens: 7610.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.3
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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Luminous Intensity Polar Plot





TEST NUMBER: P621988

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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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 | | | | |
| 1 | 96 | 92 | 89 | 86 | 87 | 84 | 81 | 79 | 68 | 66 | 64 | 53 | 52 | 51 | 40 | 39 | 39 | 32 | | | | |
| 2 | 89 | 82 | 77 | 73 | 80 | 75 | 71 | 67 | 61 | 58 | 56 | 49 | 47 | 45 | 37 | 36 | 35 | 30 | | | | |
| 3 | 82 | 74 | 68 | 63 | 74 | 68 | 62 | 58 | 56 | 52 | 49 | 45 | 42 | 40 | 34 | 33 | 32 | 27 | | | | |
| 4 | 76 | 66 | 60 | 55 | 69 | 61 | 55 | 51 | 51 | 46 | 43 | 41 | 38 | 36 | 32 | 30 | 29 | 25 | | | | |
| 5 | 70 | 60 | 53 | 48 | 64 | 55 | 49 | 45 | 46 | 42 | 38 | 37 | 35 | 32 | 30 | 28 | 26 | 23 | | | | |
| 6 | 65 | 55 | 47 | 42 | 59 | 50 | 44 | 40 | 42 | 38 | 34 | 35 | 31 | 29 | 27 | 26 | 24 | 21 | | | | |
| 7 | 61 | 50 | 43 | 38 | 55 | 46 | 40 | 35 | 39 | 34 | 31 | 32 | 29 | 26 | 26 | 24 | 22 | 19 | | | | |
| 8 | 56 | 45 | 39 | 34 | 52 | 42 | 36 | 32 | 36 | 31 | 28 | 30 | 26 | 24 | 24 | 22 | 20 | 18 | | | | |
| 9 | 53 | 42 | 35 | 31 | 48 | 39 | 33 | 29 | 33 | 28 | 25 | 27 | 24 | 22 | 22 | 20 | 19 | 17 | | | | |
| 10 | 49 | 39 | 32 | 28 | 45 | 36 | 30 | 26 | 31 | 26 | 23 | 26 | 22 | 20 | 21 | 19 | 17 | 15 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13932 | 13932 | 13932 |
| 5° | 13766 | 13975 | 14246 |
| 10° | 13957 | 14158 | 14369 |
| 15° | 14241 | 14273 | 14359 |
| 20° | 14185 | 14163 | 14031 |
| 25° | 13779 | 13722 | 13562 |
| 30° | 12956 | 12932 | 12693 |
| 35° | 11643 | 11655 | 11326 |
| 40° | 9453 | 9453 | 4326 |
| 45° | 5436 | 6612 | 88 |
| 50° | 1714 | 1584 | 80 |
| 55° | 598 | 126 | 73 |
| 60° | 42 | 83 | 83 |
| 65° | 24 | 73 | 73 |
| 70° | 29 | 90 | 90 |
| 75° | 0 | 80 | 80 |
| 80° | 0 | 120 | 120 |
| 85° | 0 | 115 | 115 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6612 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.5 | 2.4 |
| 10°-20° | 541.4 | 7.1 |
| 20°-30° | 790.8 | 10.4 |
| 30°-40° | 783.2 | 10.3 |
| 40°-50° | 327.9 | 4.3 |
| 50°-60° | 35.1 | 0.5 |
| 60°-70° | 4.9 | 0.1 |
| 70°-80° | 3.0 | 0.0 |
| 80°-90° | 3.5 | 0.0 |
| 90°-100° | 113.0 | 1.5 |
| 100°-110° | 805.0 | 10.6 |
| 110°-120° | 1092.8 | 14.4 |
| 120°-130° | 889.4 | 11.7 |
| 130°-140° | 715.4 | 9.4 |
| 140°-150° | 564.0 | 7.4 |
| 150°-160° | 412.4 | 5.4 |
| 160°-170° | 256.1 | 3.4 |
| 170°-180° | 87.3 | 1.1 |
| 0°-30° | 1517.7 | 19.9 |
| 0°-40° | 2300.9 | 30.2 |
| 0°-60° | 2663.9 | 35.0 |
| 0°-90° | 2675.3 | 35.2 |
| 90°-120° | 2010.7 | 26.4 |
| 90°-150° | 4179.5 | 54.9 |
| 90°-180° | 4935.0 | 64.8 |
| 0°-180° | 7610.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1942 | 1942 | 1942 | 1942 | 1942 | |
| 5° | 1911 | 1945 | 1940 | 1945 | 1978 | 183 |
| 15° | 1917 | 1956 | 1921 | 1907 | 1933 | 538 |
| 25° | 1740 | 1770 | 1733 | 1692 | 1713 | 795 |
| 35° | 1329 | 1332 | 1330 | 1304 | 1293 | 815 |
| 45° | 536 | 636 | 652 | 13 | 9 | 420 |
| 55° | 48 | 63 | 10 | 7 | 6 | 54 |
| 65° | 1 | 6 | 4 | 4 | 4 | 2 |
| 75° | 0 | 3 | 3 | 3 | 3 | 0 |
| 85° | 0 | 1 | 1 | 1 | 1 | 0 |
| 90° | 0 | 6 | 12 | 17 | 17 | 2 |
| 95° | 46 | 86 | 46 | 52 | 64 | 52 |
| 105° | 179 | 275 | 1046 | 1336 | 884 | 189 |
| 115° | 318 | 386 | 901 | 1874 | 2190 | 315 |
| 125° | 456 | 519 | 849 | 1486 | 1757 | 406 |
| 135° | 566 | 628 | 855 | 1223 | 1404 | 436 |
| 145° | 670 | 727 | 861 | 1066 | 1179 | 421 |
| 155° | 786 | 814 | 878 | 966 | 1011 | 361 |
| 165° | 872 | 884 | 901 | 925 | 942 | 245 |
| 175° | 919 | 924 | 919 | 913 | 907 | 87 |
| 180° | 919 | 919 | 919 | 919 | 919 | |



TEST NUMBER: P621988

CATALOG NUMBER: VLT-BB-M-150U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1941.5 | 1941.5 | 1941.5 | 1941.5 | 1941.5 |
| 2.5° | 1920.7 | 1947.8 | 1939.2 | 1937.3 | 1954.2 |
| 5° | 1911.1 | 1945.1 | 1940.1 | 1945.1 | 1977.7 |
| 7.5° | 1912.0 | 1943.4 | 1945.3 | 1945.1 | 1977.7 |
| 10° | 1915.4 | 1948.0 | 1943.0 | 1939.3 | 1971.9 |
| 12.5° | 1920.1 | 1953.8 | 1934.8 | 1928.9 | 1960.3 |
| 15° | 1916.9 | 1956.5 | 1921.2 | 1907.3 | 1932.8 |
| 17.5° | 1887.6 | 1933.5 | 1887.1 | 1860.3 | 1879.0 |
| 20° | 1857.5 | 1905.7 | 1854.6 | 1817.4 | 1837.3 |
| 22.5° | 1814.7 | 1859.4 | 1810.6 | 1767.7 | 1790.9 |
| 25° | 1740.3 | 1770.0 | 1733.0 | 1691.5 | 1712.8 |
| 27.5° | 1638.9 | 1655.9 | 1634.9 | 1597.5 | 1610.5 |
| 30° | 1563.6 | 1575.0 | 1560.7 | 1523.3 | 1531.8 |
| 32.5° | 1480.2 | 1485.9 | 1477.3 | 1443.3 | 1447.2 |
| 35° | 1329.1 | 1331.9 | 1330.5 | 1304.2 | 1292.9 |
| 37.5° | 1142.3 | 1148.0 | 1144.6 | 1030.2 | 710.9 |
| 40° | 1009.1 | 1014.8 | 1009.1 | 603.4 | 461.8 |
| 42.5° | 842.3 | 878.6 | 869.0 | 411.5 | 131.8 |
| 45° | 535.7 | 636.2 | 651.5 | 12.9 | 8.7 |
| 47.5° | 264.7 | 373.1 | 306.4 | 8.4 | 8.4 |
| 50° | 153.5 | 220.0 | 141.9 | 7.2 | 7.2 |
| 52.5° | 102.5 | 133.9 | 41.1 | 7.2 | 7.2 |
| 55° | 47.8 | 63.3 | 10.1 | 7.2 | 5.8 |
| 57.5° | 16.8 | 31.8 | 6.9 | 5.8 | 5.8 |
| 60° | 2.9 | 15.6 | 5.8 | 5.8 | 5.8 |
| 62.5° | 1.7 | 8.8 | 5.8 | 4.7 | 5.8 |
| 65° | 1.4 | 5.7 | 4.3 | 4.3 | 4.3 |
| 67.5° | 1.4 | 4.3 | 4.3 | 4.3 | 4.3 |
| 70° | 1.4 | 4.3 | 4.3 | 4.3 | 4.3 |
| 72.5° | 0.3 | 3.1 | 3.2 | 3.2 | 4.3 |
| 75° | 0.0 | 2.8 | 2.9 | 2.9 | 2.9 |
| 77.5° | 0.0 | 2.8 | 2.9 | 2.9 | 2.9 |
| 80° | 0.0 | 2.8 | 2.9 | 2.9 | 2.9 |
| 82.5° | 0.0 | 1.7 | 1.7 | 1.8 | 2.9 |
| 85° | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 87.5° | 0.0 | 2.3 | 3.5 | 4.6 | 4.6 |
| 90° | 0.0 | 5.7 | 11.6 | 17.3 | 17.3 |
| 92.5° | 13.9 | 19.5 | 25.4 | 35.9 | 40.4 |
| 95° | 46.2 | 85.8 | 46.2 | 52.3 | 63.6 |
| 97.5° | 82.1 | 164.5 | 339.8 | 100.2 | 86.7 |
| 100° | 109.8 | 205.8 | 681.9 | 200.7 | 132.9 |
| 102.5° | 137.5 | 238.1 | 922.2 | 529.6 | 290.1 |
| 105° | 179.1 | 275.2 | 1045.9 | 1336.1 | 884.1 |
| 107.5° | 220.7 | 293.1 | 998.5 | 1944.5 | 1821.4 |
| 110° | 248.5 | 316.3 | 970.8 | 2043.3 | 2195.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 276.2 | 344.0 | 943.0 | 1985.5 | 2242.0 |
| 115° | 317.8 | 385.6 | 901.4 | 1873.6 | 2190.0 |
| 117.5° | 360.6 | 427.2 | 891.0 | 1752.5 | 2077.9 |
| 120° | 392.9 | 455.1 | 872.5 | 1660.3 | 1999.3 |
| 122.5° | 416.0 | 482.7 | 849.4 | 1581.1 | 1893.0 |
| 125° | 456.5 | 518.6 | 849.4 | 1485.5 | 1756.7 |
| 127.5° | 490.0 | 553.3 | 850.6 | 1374.4 | 1642.2 |
| 130° | 508.5 | 576.3 | 855.2 | 1300.2 | 1554.4 |
| 132.5° | 531.6 | 599.4 | 855.2 | 1266.8 | 1475.8 |
| 135° | 566.3 | 628.4 | 855.2 | 1223.4 | 1404.2 |
| 137.5° | 595.2 | 661.9 | 855.2 | 1175.4 | 1330.2 |
| 140° | 618.3 | 680.4 | 855.2 | 1147.3 | 1288.6 |
| 142.5° | 641.4 | 699.0 | 859.8 | 1114.8 | 1247.0 |
| 145° | 670.3 | 726.8 | 861.0 | 1065.8 | 1178.8 |
| 147.5° | 705.0 | 754.7 | 867.9 | 1030.5 | 1117.6 |
| 150° | 728.1 | 773.3 | 872.5 | 1007.1 | 1080.6 |
| 152.5° | 751.2 | 791.9 | 872.5 | 988.3 | 1048.2 |
| 155° | 785.9 | 814.1 | 878.3 | 966.0 | 1011.2 |
| 157.5° | 813.6 | 840.7 | 885.3 | 951.9 | 984.7 |
| 160° | 832.1 | 854.7 | 889.9 | 942.5 | 970.8 |
| 162.5° | 846.0 | 868.6 | 894.5 | 937.7 | 956.9 |
| 165° | 872.5 | 883.8 | 901.4 | 924.9 | 941.9 |
| 167.5° | 887.6 | 897.7 | 907.2 | 919.0 | 929.2 |
| 170° | 901.4 | 907.1 | 907.2 | 918.9 | 924.6 |
| 172.5° | 906.1 | 916.2 | 911.8 | 914.3 | 919.9 |
| 175° | 918.8 | 924.4 | 918.8 | 912.9 | 907.2 |
| 177.5° | 918.8 | 923.3 | 918.8 | 918.7 | 914.2 |
| 180° | 918.8 | 918.8 | 918.8 | 918.8 | 918.8 |



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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 |