

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: P622069

Luminaire Tested: VLT-WB-M-150U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622069
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-150U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

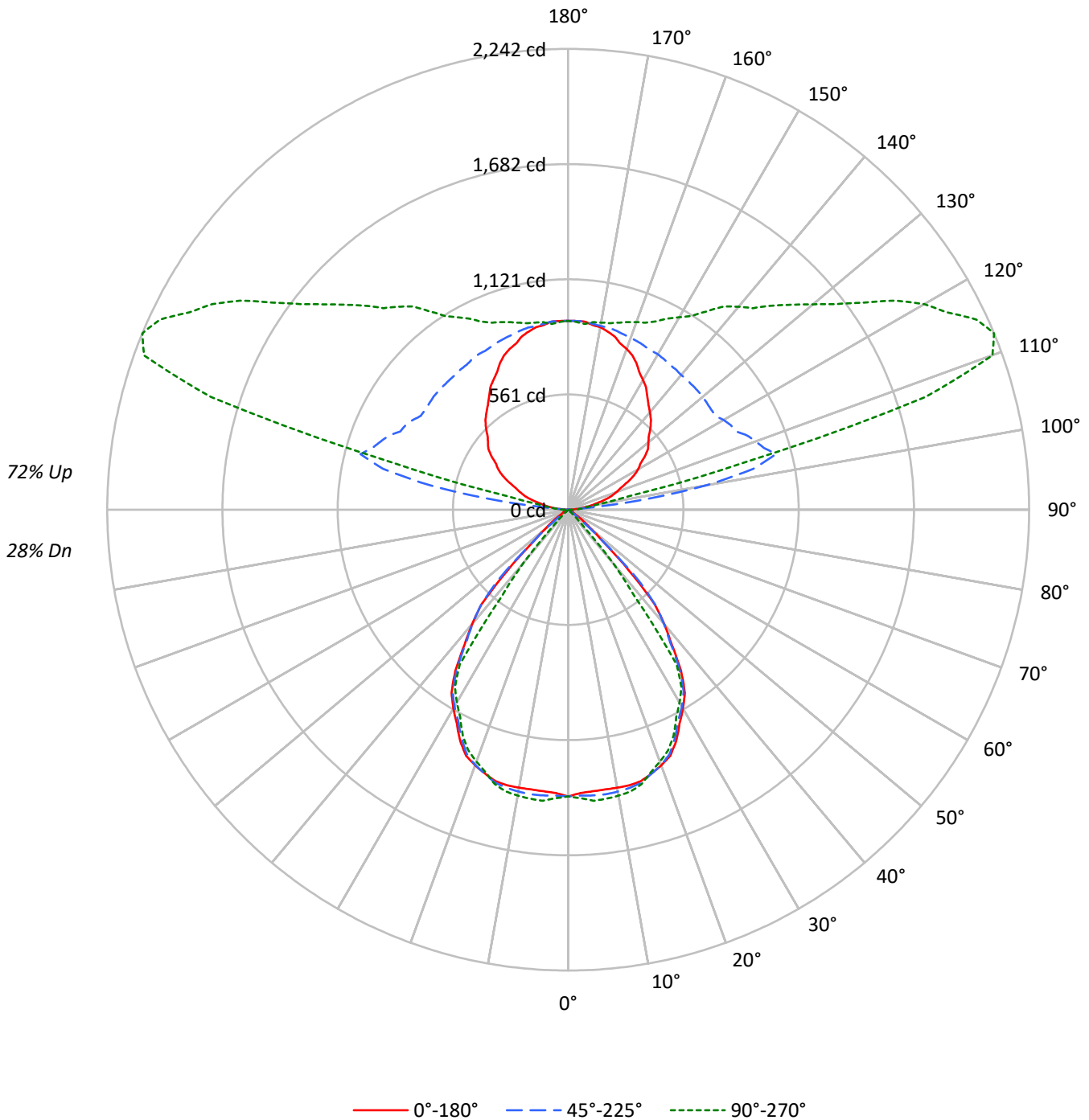
Lumens per Lamp: N/A
Luminaire Lumens: 6872.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.6
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: P622069

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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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 | | | | |
| 1 | 94 | 90 | 87 | 84 | 84 | 81 | 78 | 76 | 64 | 62 | 61 | 48 | 47 | 46 | 34 | 33 | 33 | 26 | | | | |
| 2 | 87 | 80 | 75 | 71 | 78 | 72 | 68 | 64 | 57 | 55 | 52 | 44 | 42 | 40 | 31 | 30 | 29 | 24 | | | | |
| 3 | 80 | 72 | 65 | 60 | 72 | 65 | 59 | 55 | 52 | 48 | 45 | 40 | 38 | 36 | 29 | 28 | 27 | 22 | | | | |
| 4 | 74 | 64 | 57 | 52 | 66 | 58 | 52 | 48 | 47 | 43 | 40 | 36 | 34 | 32 | 27 | 25 | 24 | 20 | | | | |
| 5 | 68 | 58 | 51 | 45 | 61 | 53 | 46 | 42 | 43 | 38 | 35 | 33 | 31 | 28 | 25 | 23 | 22 | 18 | | | | |
| 6 | 63 | 52 | 45 | 40 | 57 | 48 | 41 | 37 | 39 | 34 | 31 | 31 | 28 | 25 | 23 | 21 | 20 | 17 | | | | |
| 7 | 58 | 47 | 40 | 35 | 53 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 21 | 19 | 18 | 15 | | | | |
| 8 | 54 | 43 | 36 | 32 | 49 | 40 | 34 | 29 | 33 | 28 | 25 | 26 | 23 | 21 | 20 | 18 | 17 | 14 | | | | |
| 9 | 51 | 40 | 33 | 28 | 46 | 36 | 31 | 26 | 30 | 26 | 23 | 24 | 21 | 19 | 18 | 17 | 15 | 13 | | | | |
| 10 | 47 | 37 | 30 | 26 | 43 | 34 | 28 | 24 | 28 | 24 | 21 | 22 | 19 | 17 | 17 | 15 | 14 | 12 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10010 | 10010 | 10010 |
| 5° | 9907 | 10049 | 10241 |
| 10° | 10007 | 10144 | 10295 |
| 15° | 10159 | 10210 | 10261 |
| 20° | 10110 | 10095 | 9959 |
| 25° | 9834 | 9717 | 9600 |
| 30° | 9252 | 9162 | 8966 |
| 35° | 8381 | 8259 | 8060 |
| 40° | 6816 | 6770 | 3200 |
| 45° | 4218 | 4809 | 220 |
| 50° | 1609 | 1289 | 132 |
| 55° | 791 | 235 | 49 |
| 60° | 383 | 113 | 14 |
| 65° | 351 | 17 | 17 |
| 70° | 332 | 21 | 21 |
| 75° | 327 | 28 | 28 |
| 80° | 326 | 41 | 0 |
| 85° | 321 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4809 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.2 | 1.9 |
| 10°-20° | 386.5 | 5.6 |
| 20°-30° | 561.9 | 8.2 |
| 30°-40° | 559.2 | 8.1 |
| 40°-50° | 245.9 | 3.6 |
| 50°-60° | 36.3 | 0.5 |
| 60°-70° | 8.3 | 0.1 |
| 70°-80° | 3.1 | 0.0 |
| 80°-90° | 2.8 | 0.0 |
| 90°-100° | 113.0 | 1.6 |
| 100°-110° | 805.0 | 11.7 |
| 110°-120° | 1092.8 | 15.9 |
| 120°-130° | 889.4 | 12.9 |
| 130°-140° | 715.4 | 10.4 |
| 140°-150° | 564.0 | 8.2 |
| 150°-160° | 412.4 | 6.0 |
| 160°-170° | 256.1 | 3.7 |
| 170°-180° | 87.3 | 1.3 |
| 0°-30° | 1081.6 | 15.7 |
| 0°-40° | 1640.8 | 23.9 |
| 0°-60° | 1923.0 | 28.0 |
| 0°-90° | 1937.2 | 28.2 |
| 90°-120° | 2010.7 | 29.3 |
| 90°-150° | 4179.5 | 60.8 |
| 90°-180° | 4935.0 | 71.8 |
| 0°-180° | 6872.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1395 | 1395 | 1395 | 1395 | 1395 | |
| 5° | 1375 | 1399 | 1395 | 1398 | 1422 | 131 |
| 15° | 1367 | 1396 | 1374 | 1361 | 1381 | 384 |
| 25° | 1242 | 1265 | 1227 | 1195 | 1212 | 568 |
| 35° | 957 | 954 | 943 | 923 | 920 | 586 |
| 45° | 416 | 473 | 474 | 31 | 22 | 322 |
| 55° | 63 | 68 | 19 | 7 | 4 | 64 |
| 65° | 21 | 18 | 1 | 1 | 1 | 21 |
| 75° | 12 | 2 | 1 | 1 | 1 | 12 |
| 85° | 4 | 0 | 0 | 0 | 0 | 4 |
| 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: P622069

CATALOG NUMBER: VLT-WB-M-150U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1395.0 | 1395.0 | 1395.0 | 1395.0 | 1395.0 |
| 2.5° | 1379.2 | 1400.1 | 1392.6 | 1392.1 | 1404.5 |
| 5° | 1375.3 | 1399.4 | 1395.0 | 1398.5 | 1421.7 |
| 7.5° | 1372.5 | 1396.8 | 1396.8 | 1395.2 | 1418.3 |
| 10° | 1373.3 | 1398.4 | 1392.1 | 1389.6 | 1412.8 |
| 12.5° | 1373.3 | 1399.9 | 1386.5 | 1380.2 | 1404.1 |
| 15° | 1367.4 | 1396.3 | 1374.3 | 1360.9 | 1381.2 |
| 17.5° | 1346.0 | 1377.5 | 1347.2 | 1321.2 | 1338.2 |
| 20° | 1323.9 | 1357.7 | 1322.0 | 1288.7 | 1304.2 |
| 22.5° | 1296.3 | 1326.2 | 1287.2 | 1252.4 | 1268.6 |
| 25° | 1242.0 | 1265.2 | 1227.2 | 1195.0 | 1212.4 |
| 27.5° | 1173.5 | 1186.2 | 1157.9 | 1126.9 | 1138.1 |
| 30° | 1116.6 | 1126.3 | 1105.7 | 1076.3 | 1082.1 |
| 32.5° | 1055.8 | 1062.4 | 1045.7 | 1020.2 | 1025.2 |
| 35° | 956.7 | 953.8 | 942.8 | 923.0 | 920.1 |
| 37.5° | 827.1 | 822.1 | 815.1 | 738.5 | 529.6 |
| 40° | 727.6 | 729.6 | 722.7 | 451.6 | 341.6 |
| 42.5° | 622.6 | 634.5 | 624.7 | 307.5 | 111.8 |
| 45° | 415.6 | 472.6 | 473.9 | 31.4 | 21.7 |
| 47.5° | 224.7 | 286.7 | 233.2 | 19.5 | 15.8 |
| 50° | 144.1 | 179.9 | 115.5 | 14.7 | 11.8 |
| 52.5° | 103.1 | 120.3 | 45.2 | 11.6 | 8.7 |
| 55° | 63.2 | 68.0 | 18.8 | 6.8 | 3.9 |
| 57.5° | 37.7 | 44.9 | 11.8 | 2.5 | 1.0 |
| 60° | 26.7 | 31.5 | 7.9 | 1.0 | 1.0 |
| 62.5° | 23.5 | 23.7 | 5.5 | 1.0 | 1.0 |
| 65° | 20.7 | 17.8 | 1.0 | 1.0 | 1.0 |
| 67.5° | 18.2 | 13.0 | 1.0 | 1.0 | 1.0 |
| 70° | 15.8 | 9.0 | 1.0 | 1.0 | 1.0 |
| 72.5° | 14.2 | 5.9 | 1.0 | 1.0 | 1.0 |
| 75° | 11.8 | 2.2 | 1.0 | 1.0 | 1.0 |
| 77.5° | 9.5 | 1.2 | 1.0 | 0.8 | 0.8 |
| 80° | 7.9 | 1.1 | 1.0 | 0.0 | 0.0 |
| 82.5° | 6.3 | 1.1 | 0.2 | 0.0 | 0.0 |
| 85° | 3.9 | 0.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 1.2 | 2.3 | 3.5 | 3.5 |
| 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 |



TEST NUMBER: P622069

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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 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 0.00 | 0.00 | 0.00 | 0.00 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 0.00 | 0.00 | 0.00 | 0.00 | 1.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H | 2H | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H | 4H | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |