

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: P622013

Luminaire Tested: VLT-WB-M-050U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622013
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-050U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

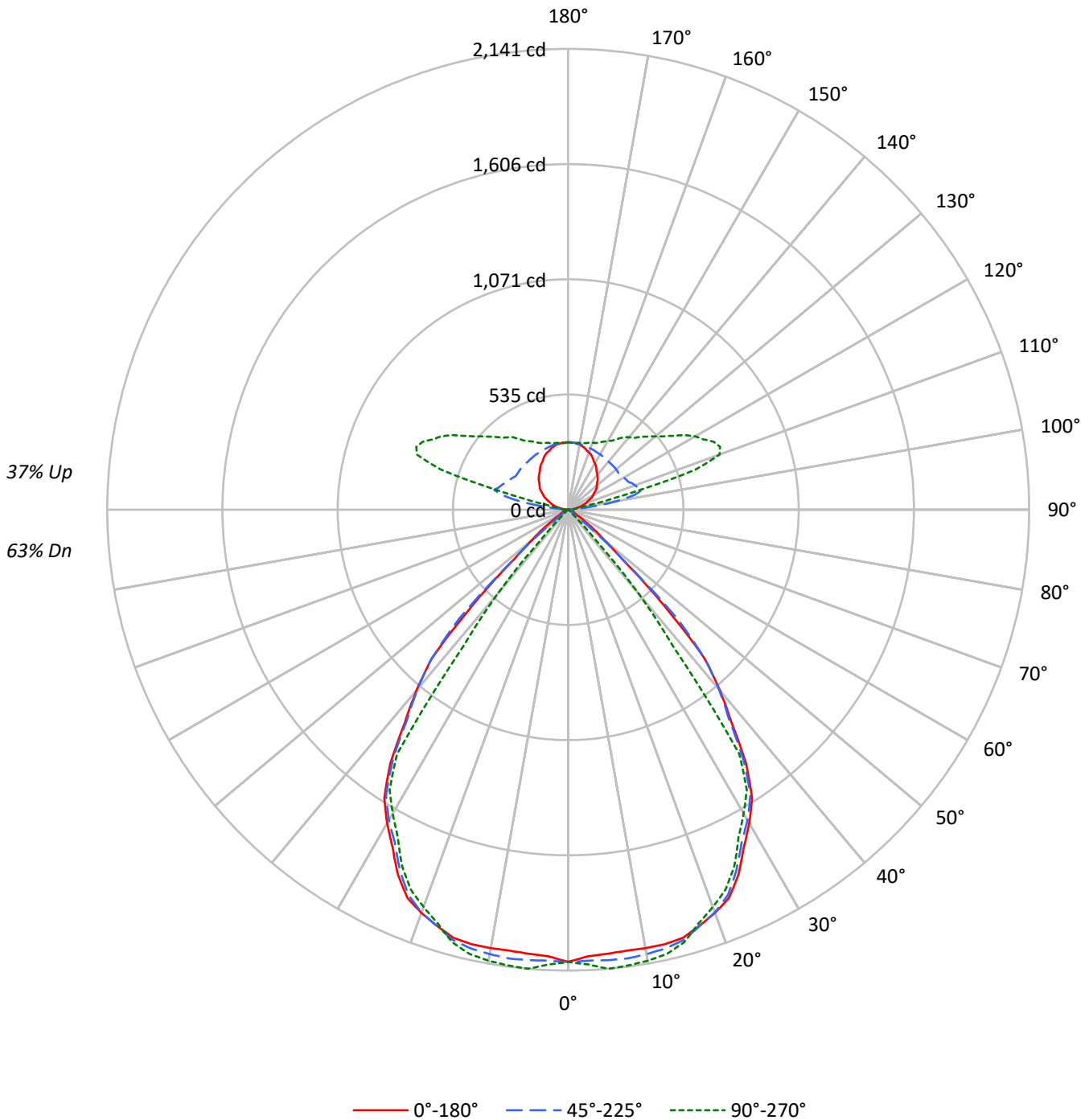
Lumens per Lamp: N/A
Luminaire Lumens: 4595.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 44.1
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: P622013

CATALOG NUMBER: VLT-WB-M-050U-075D-935-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | | 79 | 79 | 79 | | 68 | 68 | 68 | 63 |
| 1 | 103 | 100 | 97 | 94 | 97 | 94 | 92 | 89 | 83 | 82 | 80 | | 74 | 72 | 71 | | 64 | 64 | 63 | 59 |
| 2 | 96 | 91 | 86 | 82 | 91 | 86 | 81 | 78 | 76 | 73 | 71 | | 68 | 66 | 64 | | 60 | 59 | 57 | 54 |
| 3 | 90 | 82 | 76 | 72 | 85 | 78 | 73 | 69 | 70 | 66 | 63 | | 63 | 60 | 58 | | 56 | 54 | 52 | 49 |
| 4 | 84 | 75 | 68 | 63 | 79 | 71 | 66 | 61 | 64 | 60 | 57 | | 58 | 55 | 52 | | 52 | 50 | 48 | 45 |
| 5 | 78 | 69 | 62 | 57 | 74 | 65 | 59 | 55 | 59 | 55 | 51 | | 54 | 50 | 47 | | 49 | 46 | 44 | 41 |
| 6 | 73 | 63 | 56 | 51 | 69 | 60 | 54 | 49 | 55 | 50 | 46 | | 50 | 46 | 43 | | 45 | 42 | 40 | 38 |
| 7 | 68 | 58 | 51 | 46 | 65 | 55 | 49 | 45 | 51 | 46 | 42 | | 46 | 42 | 39 | | 42 | 39 | 37 | 35 |
| 8 | 64 | 53 | 47 | 42 | 61 | 51 | 45 | 41 | 47 | 42 | 38 | | 43 | 39 | 36 | | 40 | 36 | 34 | 32 |
| 9 | 60 | 49 | 43 | 38 | 57 | 48 | 41 | 37 | 44 | 39 | 35 | | 40 | 36 | 33 | | 37 | 34 | 31 | 30 |
| 10 | 57 | 46 | 39 | 35 | 54 | 44 | 38 | 34 | 41 | 36 | 33 | | 38 | 34 | 31 | | 35 | 31 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15074 | 15074 | 15074 |
| 5° | 14917 | 15131 | 15420 |
| 10° | 15068 | 15274 | 15501 |
| 15° | 15296 | 15374 | 15451 |
| 20° | 15223 | 15201 | 14997 |
| 25° | 14808 | 14631 | 14455 |
| 30° | 13932 | 13796 | 13500 |
| 35° | 12619 | 12437 | 12137 |
| 40° | 10263 | 10194 | 4819 |
| 45° | 6352 | 7242 | 332 |
| 50° | 2423 | 1941 | 199 |
| 55° | 1190 | 353 | 74 |
| 60° | 576 | 171 | 22 |
| 65° | 530 | 25 | 25 |
| 70° | 499 | 31 | 31 |
| 75° | 494 | 42 | 42 |
| 80° | 492 | 62 | 0 |
| 85° | 486 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7242 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 200.6 | 4.4 |
| 10°-20° | 581.9 | 12.7 |
| 20°-30° | 846.1 | 18.4 |
| 30°-40° | 842.0 | 18.3 |
| 40°-50° | 370.3 | 8.1 |
| 50°-60° | 54.6 | 1.2 |
| 60°-70° | 12.5 | 0.3 |
| 70°-80° | 4.7 | 0.1 |
| 80°-90° | 1.8 | 0.0 |
| 90°-100° | 38.5 | 0.8 |
| 100°-110° | 274.1 | 6.0 |
| 110°-120° | 372.2 | 8.1 |
| 120°-130° | 302.9 | 6.6 |
| 130°-140° | 243.6 | 5.3 |
| 140°-150° | 192.1 | 4.2 |
| 150°-160° | 140.4 | 3.1 |
| 160°-170° | 87.2 | 1.9 |
| 170°-180° | 29.7 | 0.6 |
| 0°-30° | 1628.7 | 35.4 |
| 0°-40° | 2470.7 | 53.8 |
| 0°-60° | 2895.6 | 63.0 |
| 0°-90° | 2914.6 | 63.4 |
| 90°-120° | 684.8 | 14.9 |
| 90°-150° | 1423.4 | 31.0 |
| 90°-180° | 1681.0 | 36.6 |
| 0°-180° | 4595.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2101 | 2101 | 2101 | 2101 | 2101 | |
| 5° | 2071 | 2107 | 2101 | 2106 | 2141 | 198 |
| 15° | 2059 | 2103 | 2069 | 2049 | 2080 | 579 |
| 25° | 1870 | 1905 | 1848 | 1799 | 1826 | 855 |
| 35° | 1440 | 1436 | 1420 | 1390 | 1386 | 882 |
| 45° | 626 | 712 | 714 | 47 | 33 | 485 |
| 55° | 95 | 102 | 28 | 10 | 6 | 96 |
| 65° | 31 | 27 | 2 | 2 | 2 | 31 |
| 75° | 18 | 3 | 2 | 2 | 2 | 19 |
| 85° | 6 | 0 | 0 | 0 | 0 | 6 |
| 90° | 0 | 2 | 4 | 6 | 6 | 1 |
| 95° | 16 | 29 | 16 | 18 | 22 | 18 |
| 105° | 61 | 94 | 356 | 455 | 301 | 64 |
| 115° | 108 | 131 | 307 | 638 | 746 | 107 |
| 125° | 156 | 177 | 289 | 506 | 598 | 138 |
| 135° | 193 | 214 | 291 | 417 | 478 | 148 |
| 145° | 228 | 248 | 293 | 363 | 402 | 143 |
| 155° | 268 | 277 | 299 | 329 | 344 | 123 |
| 165° | 297 | 301 | 307 | 315 | 321 | 83 |
| 175° | 313 | 315 | 313 | 311 | 309 | 30 |
| 180° | 313 | 313 | 313 | 313 | 313 | |



TEST NUMBER: P622013

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2100.6 | 2100.6 | 2100.6 | 2100.6 | 2100.6 |
| 2.5° | 2076.8 | 2108.2 | 2097.0 | 2096.2 | 2114.9 |
| 5° | 2070.8 | 2107.2 | 2100.6 | 2105.8 | 2140.7 |
| 7.5° | 2066.7 | 2103.3 | 2103.3 | 2100.8 | 2135.7 |
| 10° | 2067.9 | 2105.7 | 2096.1 | 2092.5 | 2127.3 |
| 12.5° | 2067.9 | 2108.0 | 2087.8 | 2078.2 | 2114.3 |
| 15° | 2059.0 | 2102.6 | 2069.4 | 2049.2 | 2079.8 |
| 17.5° | 2026.8 | 2074.2 | 2028.6 | 1989.4 | 2015.0 |
| 20° | 1993.5 | 2044.4 | 1990.6 | 1940.6 | 1963.8 |
| 22.5° | 1951.9 | 1997.0 | 1938.2 | 1885.9 | 1910.3 |
| 25° | 1870.2 | 1905.0 | 1847.9 | 1799.4 | 1825.6 |
| 27.5° | 1767.0 | 1786.2 | 1743.5 | 1696.9 | 1713.8 |
| 30° | 1681.4 | 1695.9 | 1665.0 | 1620.6 | 1629.3 |
| 32.5° | 1589.8 | 1599.7 | 1574.6 | 1536.1 | 1543.7 |
| 35° | 1440.5 | 1436.2 | 1419.7 | 1389.9 | 1385.5 |
| 37.5° | 1245.5 | 1237.9 | 1227.3 | 1112.0 | 797.4 |
| 40° | 1095.6 | 1098.5 | 1088.2 | 680.1 | 514.4 |
| 42.5° | 937.5 | 955.5 | 940.7 | 463.1 | 168.3 |
| 45° | 625.9 | 711.6 | 713.6 | 47.2 | 32.7 |
| 47.5° | 338.4 | 431.7 | 351.1 | 29.3 | 23.8 |
| 50° | 217.0 | 270.8 | 173.9 | 22.2 | 17.8 |
| 52.5° | 155.2 | 181.1 | 68.1 | 17.4 | 13.1 |
| 55° | 95.1 | 102.4 | 28.2 | 10.3 | 5.9 |
| 57.5° | 56.8 | 67.5 | 17.8 | 3.8 | 1.5 |
| 60° | 40.1 | 47.4 | 11.9 | 1.5 | 1.5 |
| 62.5° | 35.4 | 35.7 | 8.3 | 1.5 | 1.5 |
| 65° | 31.2 | 26.9 | 1.5 | 1.5 | 1.5 |
| 67.5° | 27.4 | 19.5 | 1.5 | 1.5 | 1.5 |
| 70° | 23.8 | 13.6 | 1.5 | 1.5 | 1.5 |
| 72.5° | 21.4 | 8.9 | 1.5 | 1.5 | 1.5 |
| 75° | 17.8 | 3.3 | 1.5 | 1.5 | 1.5 |
| 77.5° | 14.3 | 1.8 | 1.5 | 1.2 | 1.2 |
| 80° | 11.9 | 1.7 | 1.5 | 0.0 | 0.0 |
| 82.5° | 9.5 | 1.7 | 0.3 | 0.0 | 0.0 |
| 85° | 5.9 | 0.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.4 | 0.4 | 0.8 | 1.2 | 1.2 |
| 90° | 0.0 | 1.9 | 3.9 | 5.9 | 5.9 |
| 92.5° | 4.7 | 6.6 | 8.7 | 12.2 | 13.8 |
| 95° | 15.7 | 29.2 | 15.7 | 17.8 | 21.6 |
| 97.5° | 27.9 | 56.0 | 115.7 | 34.1 | 29.5 |
| 100° | 37.4 | 70.1 | 232.2 | 68.4 | 45.3 |
| 102.5° | 46.8 | 81.1 | 314.1 | 180.4 | 98.8 |
| 105° | 61.0 | 93.7 | 356.2 | 455.0 | 301.1 |
| 107.5° | 75.2 | 99.8 | 340.1 | 662.3 | 620.3 |
| 110° | 84.6 | 107.7 | 330.6 | 695.9 | 747.8 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 94.1 | 117.2 | 321.2 | 676.2 | 763.6 |
| 115° | 108.2 | 131.3 | 307.0 | 638.1 | 745.9 |
| 117.5° | 122.8 | 145.5 | 303.5 | 596.9 | 707.7 |
| 120° | 133.8 | 155.0 | 297.2 | 565.5 | 680.9 |
| 122.5° | 141.7 | 164.4 | 289.3 | 538.5 | 644.7 |
| 125° | 155.5 | 176.6 | 289.3 | 505.9 | 598.3 |
| 127.5° | 166.9 | 188.4 | 289.7 | 468.1 | 559.3 |
| 130° | 173.2 | 196.3 | 291.3 | 442.8 | 529.4 |
| 132.5° | 181.1 | 204.1 | 291.3 | 431.4 | 502.6 |
| 135° | 192.9 | 214.0 | 291.3 | 416.6 | 478.2 |
| 137.5° | 202.7 | 225.4 | 291.3 | 400.3 | 453.0 |
| 140° | 210.6 | 231.7 | 291.3 | 390.8 | 438.9 |
| 142.5° | 218.4 | 238.1 | 292.8 | 379.7 | 424.7 |
| 145° | 228.3 | 247.5 | 293.2 | 363.0 | 401.5 |
| 147.5° | 240.1 | 257.0 | 295.6 | 351.0 | 380.6 |
| 150° | 248.0 | 263.4 | 297.2 | 343.0 | 368.0 |
| 152.5° | 255.8 | 269.7 | 297.2 | 336.6 | 357.0 |
| 155° | 267.6 | 277.3 | 299.1 | 329.0 | 344.4 |
| 157.5° | 277.1 | 286.3 | 301.5 | 324.2 | 335.3 |
| 160° | 283.4 | 291.1 | 303.1 | 321.0 | 330.6 |
| 162.5° | 288.1 | 295.8 | 304.6 | 319.4 | 325.9 |
| 165° | 297.2 | 301.0 | 307.0 | 315.0 | 320.8 |
| 167.5° | 302.3 | 305.7 | 309.0 | 313.0 | 316.5 |
| 170° | 307.0 | 308.9 | 309.0 | 313.0 | 314.9 |
| 172.5° | 308.6 | 312.0 | 310.5 | 311.4 | 313.3 |
| 175° | 312.9 | 314.8 | 312.9 | 310.9 | 309.0 |
| 177.5° | 312.9 | 314.4 | 312.9 | 312.9 | 311.3 |
| 180° | 312.9 | 312.9 | 312.9 | 312.9 | 312.9 |



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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 | 2.62 | 3.38 | 3.50 | 4.24 | 5.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 3.06 | 3.73 | 3.95 | 4.61 | 5.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 3.22 | 3.85 | 4.13 | 4.73 | 5.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 3.41 | 3.98 | 4.32 | 4.87 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 3.49 | 4.04 | 4.41 | 4.94 | 6.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 3.56 | 4.07 | 4.48 | 4.97 | 6.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H | 2H | 2.32 | 2.95 | 3.23 | 3.83 | 4.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 2.80 | 3.32 | 3.72 | 4.23 | 5.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 2.97 | 3.44 | 3.90 | 4.35 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 3.21 | 3.60 | 4.14 | 4.54 | 5.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 3.32 | 3.70 | 4.26 | 4.62 | 5.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 3.43 | 3.76 | 4.38 | 4.71 | 5.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H | 4H | 2.80 | 3.17 | 3.74 | 4.10 | 5.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 3.04 | 3.34 | 4.00 | 4.31 | 5.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 3.17 | 3.44 | 4.14 | 4.40 | 5.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 3.30 | 3.54 | 4.27 | 4.49 | 5.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H | 4H | 2.73 | 3.06 | 3.69 | 4.01 | 5.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 2.97 | 3.24 | 3.95 | 4.20 | 5.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 3.10 | 3.34 | 4.08 | 4.29 | 5.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |