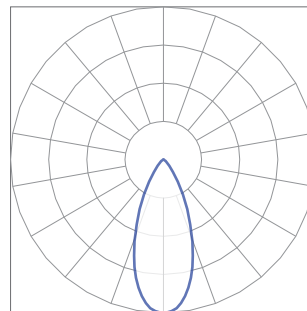


# ZipTwo™ | 707

707-Z2-4-48-X-X-X-0-Z-SO-35-S1-0-WH

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



## Details

|                    |                     |
|--------------------|---------------------|
| Rail Type / Length | ZipTwo, 48"         |
| LED Type           | Zipper Board        |
| Lumen Output       | Standard Output     |
| Color Temperature  | 3500K, 80+ CRI      |
| Optics             | 40° White Symmetric |

## Performance Summary

|                                   | 2700K | 3000K | 3500K | 4000K |
|-----------------------------------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt        | 62    | 64    | 65    | 66    |
| Total Lumens, 4' rail (1219mm)    | 1603  | 1654  | 1687  | 1721  |
| Lumens per foot (305mm)           | 401   | 413   | 422   | 430   |
| Input Power (W), 4' rail (1219mm) | 26.1  | 26.1  | 26.1  | 26.1  |
| Watts per foot (305mm)            | 6.6   | 6.6   | 6.6   | 6.6   |
| CRI                               | -     | -     | 85    | -     |

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704223 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z2-48-Z-SO-35-S1-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 40° white symmetric lens, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 1683            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 64              |
| Total Luminaire Watts           | 26.11           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 0.84            |
| Spacing Criterion (90-270)      | 1.16            |
| Spacing Criterion (Diagonal)    | 1.00            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.02 ft         |
| Luminous Width (90-270)         | 4.02 ft         |
| Luminous Height                 | 0.00 ft         |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 32370            | 55557             | 98214             |
| 55                  | 22734            | 35998             | 68638             |
| 65                  | 19663            | 26702             | 47601             |
| 75                  | 17569            | 21368             | 33930             |
| 85                  | 13835            | 15555             | 21659             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_S1.IES**

**CANDELA TABULATION**

|             | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0.0</b>  | 1148.175 | 1148.175 | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  |
| <b>1.0</b>  | 1148.364 | 1148.459 | 1148.411  | 1148.270  | 1148.364  | 1148.364  | 1148.317  | 1148.223  | 1148.317  | 1148.317  |
| <b>3.0</b>  | 1143.762 | 1143.762 | 1143.951  | 1143.951  | 1144.057  | 1144.246  | 1144.399  | 1144.742  | 1144.930  | 1145.131  |
| <b>5.0</b>  | 1132.682 | 1132.635 | 1133.036  | 1133.378  | 1133.815  | 1134.794  | 1135.479  | 1136.316  | 1137.591  | 1138.370  |
| <b>7.0</b>  | 1113.188 | 1113.483 | 1114.026  | 1115.100  | 1116.280  | 1117.897  | 1119.749  | 1121.767  | 1123.915  | 1126.027  |
| <b>9.0</b>  | 1086.532 | 1082.910 | 1083.889  | 1085.659  | 1087.807  | 1090.167  | 1093.695  | 1097.022  | 1100.940  | 1104.468  |
| <b>11.0</b> | 1053.126 | 1053.516 | 1055.180  | 1058.118  | 1061.646  | 1065.859  | 1070.956  | 1076.349  | 1082.473  | 1088.302  |
| <b>13.0</b> | 1010.694 | 1011.673 | 1013.927  | 1017.856  | 1023.095  | 1029.408  | 1036.465  | 1044.453  | 1053.032  | 1061.504  |
| <b>15.0</b> | 962.396  | 963.517  | 966.750   | 971.801   | 978.904   | 987.377   | 997.230   | 1007.413  | 1018.883  | 1030.293  |
| <b>17.0</b> | 905.851  | 907.231  | 911.538   | 918.158   | 927.362   | 938.489   | 951.174   | 965.334   | 980.025   | 994.870   |
| <b>19.5</b> | 830.413  | 832.124  | 837.517   | 845.895   | 857.400   | 872.008   | 888.516   | 906.783   | 926.135   | 945.640   |
| <b>22.5</b> | 727.529  | 729.736  | 736.202   | 746.539   | 761.088   | 779.355   | 799.934   | 823.652   | 848.786   | 874.604   |
| <b>25.5</b> | 621.117  | 623.571  | 631.064   | 643.065   | 660.021   | 681.521   | 706.065   | 734.633   | 765.348   | 796.453   |
| <b>29.0</b> | 504.415  | 507.070  | 514.810   | 527.401   | 545.620   | 568.500   | 595.204   | 626.851   | 661.980   | 698.324   |
| <b>33.0</b> | 386.934  | 389.294  | 396.881   | 408.835   | 425.980   | 448.376   | 475.611   | 507.258   | 544.251   | 583.345   |
| <b>37.5</b> | 281.406  | 283.365  | 289.489   | 299.732   | 314.033   | 333.775   | 357.493   | 386.544   | 420.399   | 458.418   |
| <b>42.5</b> | 198.122  | 199.644  | 204.246   | 211.739   | 222.914   | 237.959   | 256.473   | 279.648   | 307.567   | 339.757   |
| <b>47.5</b> | 144.137  | 145.211  | 148.397   | 153.789   | 161.577   | 171.961   | 185.437   | 202.040   | 222.713   | 247.658   |
| <b>55.0</b> | 97.492   | 97.987   | 99.793    | 102.200   | 106.259   | 111.852   | 118.956   | 128.266   | 140.160   | 154.368   |
| <b>65.0</b> | 62.127   | 62.316   | 63.000    | 64.027    | 65.596    | 67.708    | 70.505    | 74.021    | 78.682    | 84.370    |
| <b>75.0</b> | 33.996   | 34.102   | 34.291    | 34.633    | 35.176    | 35.860    | 36.698    | 37.925    | 39.483    | 41.347    |
| <b>85.0</b> | 9.015    | 9.015    | 9.062     | 9.062     | 9.157     | 9.263     | 9.405     | 9.605     | 9.853     | 10.136    |
| <b>90.0</b> | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**Vert. Angles**      **Horizontal Angles**

|             | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0.0</b>  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  | 1148.175  |
| <b>1.0</b>  | 1148.317  | 1148.223  | 1148.317  | 1148.223  | 1148.164  | 1148.364  | 1148.270  | 1148.411  | 1148.069  |
| <b>3.0</b>  | 1145.520  | 1145.768  | 1145.910  | 1146.252  | 1146.547  | 1146.748  | 1146.889  | 1146.795  | 1147.090  |
| <b>5.0</b>  | 1139.550  | 1140.482  | 1141.508  | 1142.287  | 1143.019  | 1143.514  | 1144.010  | 1144.104  | 1144.246  |
| <b>7.0</b>  | 1128.328  | 1130.428  | 1132.446  | 1134.299  | 1135.726  | 1137.001  | 1138.075  | 1138.570  | 1138.759  |
| <b>9.0</b>  | 1108.775  | 1112.303  | 1116.032  | 1119.171  | 1122.109  | 1125.047  | 1127.006  | 1128.174  | 1131.124  |
| <b>11.0</b> | 1094.332  | 1100.350  | 1105.542  | 1110.250  | 1114.557  | 1117.897  | 1120.150  | 1121.661  | 1122.204  |
| <b>13.0</b> | 1070.225  | 1078.555  | 1086.343  | 1093.294  | 1098.934  | 1103.831  | 1107.265  | 1109.271  | 1109.955  |
| <b>15.0</b> | 1041.999  | 1053.079  | 1063.416  | 1072.821  | 1080.561  | 1086.733  | 1091.441  | 1094.131  | 1094.969  |
| <b>17.0</b> | 1009.620  | 1023.874  | 1037.149  | 1049.256  | 1059.050  | 1067.239  | 1073.068  | 1076.738  | 1077.918  |
| <b>19.5</b> | 965.382   | 983.896   | 1000.699  | 1016.039  | 1028.724  | 1038.966  | 1046.613  | 1051.014  | 1052.926  |
| <b>22.5</b> | 900.718   | 925.262   | 947.693   | 967.635   | 984.580   | 997.666   | 1007.567  | 1013.242  | 1015.107  |
| <b>25.5</b> | 828.348   | 858.721   | 886.746   | 911.585   | 932.212   | 948.826   | 960.874   | 967.930   | 970.432   |
| <b>29.0</b> | 736.296   | 772.841   | 806.306   | 836.880   | 861.719   | 882.239   | 896.304   | 904.635   | 907.326   |
| <b>33.0</b> | 625.483   | 667.019   | 706.454   | 742.621   | 771.567   | 794.695   | 810.766   | 820.017   | 823.251   |
| <b>37.5</b> | 500.993   | 544.251   | 587.015   | 625.671   | 657.614   | 682.748   | 700.531   | 710.773   | 714.195   |
| <b>42.5</b> | 377.329   | 416.776   | 456.849   | 495.600   | 527.248   | 552.181   | 569.869   | 580.112   | 583.298   |
| <b>47.5</b> | 276.462   | 308.889   | 342.743   | 376.208   | 404.280   | 426.865   | 443.078   | 452.141   | 455.138   |
| <b>55.0</b> | 171.961   | 192.387   | 213.851   | 235.552   | 255.930   | 272.438   | 284.345   | 291.448   | 294.339   |
| <b>65.0</b> | 91.662    | 100.288   | 110.035   | 120.525   | 130.166   | 138.839   | 145.164   | 149.128   | 150.403   |
| <b>75.0</b> | 43.802    | 46.740    | 50.221    | 54.044    | 57.667    | 60.994    | 63.590    | 65.207    | 65.655    |
| <b>85.0</b> | 10.537    | 10.974    | 11.564    | 12.201    | 12.744    | 13.275    | 13.723    | 14.007    | 14.113    |
| <b>90.0</b> | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_S1.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 377.88  | N.A.  | 22.50  |
| 0-30    | 728.33  | N.A.  | 43.30  |
| 0-40    | 1028.21 | N.A.  | 61.10  |
| 0-60    | 1447.56 | N.A.  | 86.00  |
| 0-80    | 1649.28 | N.A.  | 98.00  |
| 0-90    | 1682.71 | N.A.  | 100.00 |
| 10-90   | 1595.36 | N.A.  | 94.80  |
| 20-40   | 650.33  | N.A.  | 38.60  |
| 20-50   | 924.70  | N.A.  | 55.00  |
| 40-70   | 548.34  | N.A.  | 32.60  |
| 60-80   | 201.72  | N.A.  | 12.00  |
| 70-80   | 72.73   | N.A.  | 4.30   |
| 80-90   | 33.43   | N.A.  | 2.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1682.71 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 87.35  |
| 10-20   | 290.53 |
| 20-30   | 350.45 |
| 30-40   | 299.88 |
| 40-50   | 274.36 |
| 50-60   | 144.98 |
| 60-70   | 128.99 |
| 70-80   | 72.73  |
| 80-90   | 33.43  |
| 90-100  | 0.00   |
| 100-110 | 0.00   |
| 110-120 | 0.00   |
| 120-130 | 0.00   |
| 130-140 | 0.00   |
| 140-150 | 0.00   |
| 150-160 | 0.00   |
| 160-170 | 0.00   |
| 170-180 | 0.00   |

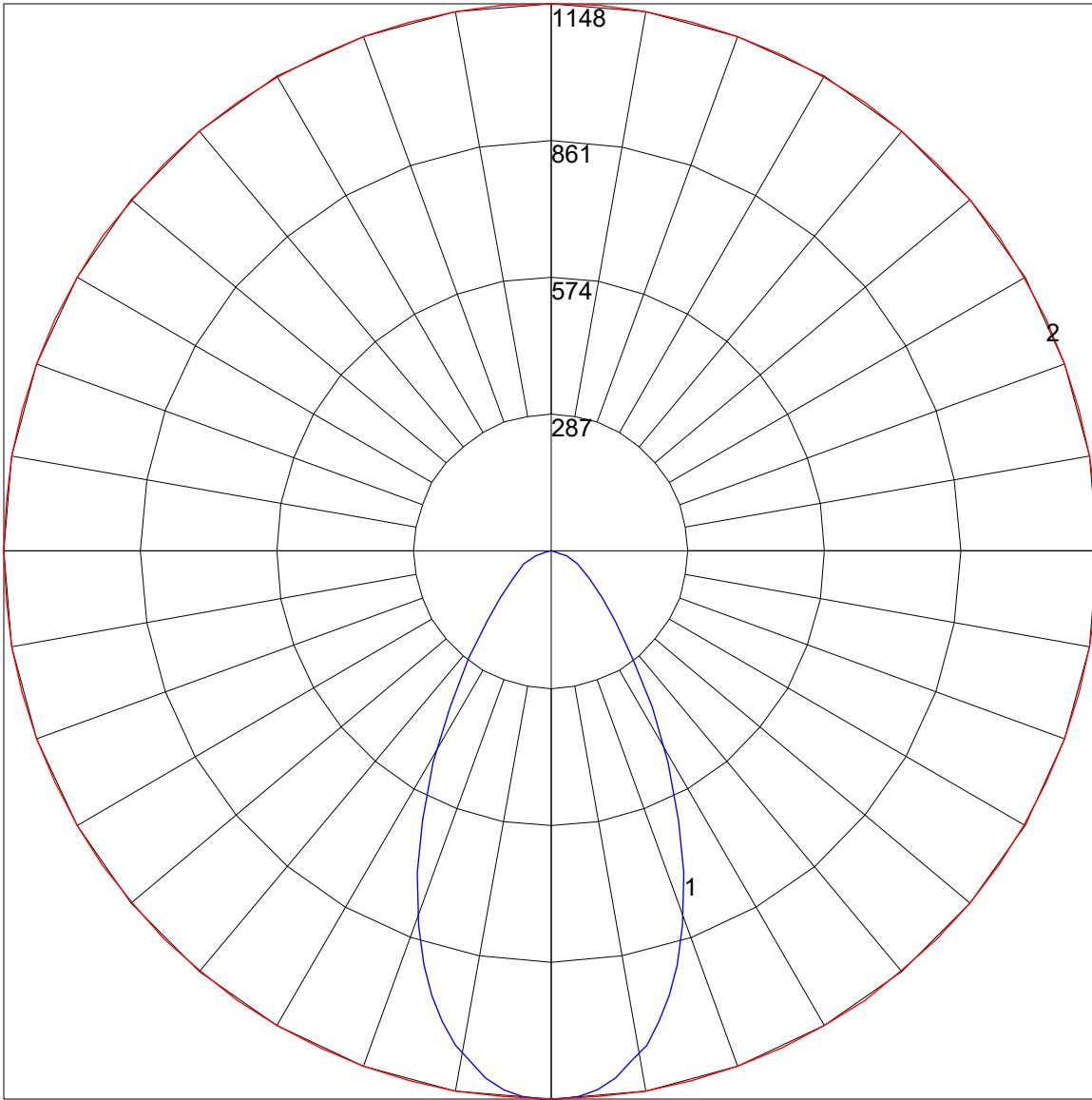
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_S1.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| 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   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |
| 2  | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |
| 3  | 94  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 68  | 66  |
| 4  | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 5  | 82  | 70  | 63  | 57  | 80  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 53  |
| 6  | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 55  | 50  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |
| 7  | 72  | 60  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 43  |
| 8  | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 45  | 41  | 40  |
| 9  | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |
| 10 | 60  | 48  | 41  | 36  | 59  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |

POLAR GRAPH



Maximum Candela = 1148.459 Located At Horizontal Angle = 5, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)