

**IES Report**

**ZipTwo® | 707 | Ceiling Cable | Micro 3508, 85° Asymmetric | 80 CRI | SO**  
**707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-A1-WH-X**

|  | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt               | 79    | 82    | 83    | 83    |
| Total Lumens, 4' rail length (1219mm)    | 2056  | 2121  | 2165  | 2165  |
| Lumens per foot (305mm)                  | 514   | 530   | 541   | 541   |
| Input Power (W), 4' rail length (1219mm) | 26.1  | 26.1  | 26.1  | 26.1  |
| Watts per foot (305mm)                   | 6.6   | 6.6   | 6.6   | 6.6   |
| CRI                                      | 82    | 82    | 82    | 82    |

Due to the large number of options in Vode’s product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_A1\_WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911525 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 5/12/2021  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z2-48-CC-Z-SO-35-A1-WH  
[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board, micro 3508,  
[MORE] 85° asymmetric lens, standard output, white painted finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2165            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 83              |
| Total Luminaire Watts           | 26.11           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 2.40            |
| Spacing Criterion (90-270)      | 1.20            |
| Spacing Criterion (Diagonal)    | 1.60            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.04 ft         |
| Luminous Width (90-270)         | 3.98 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 124723        | 96579          | 31317          |
| 55               | 116913        | 85429          | 26647          |
| 65               | 101372        | 71195          | 23019          |
| 75               | 85756         | 59109          | 19443          |
| 85               | 86039         | 54206          | 13493          |

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> |
|-----|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0   | 611.362  | 611.362  | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   |
| 5   | 763.281  | 762.965  | 760.951   | 757.875   | 753.633   | 748.316   | 741.745   | 733.996   | 725.184   | 715.954   |
| 10  | 956.653  | 954.741  | 949.866   | 942.751   | 932.673   | 919.936   | 904.439   | 886.181   | 865.696   | 844.160   |
| 15  | 1141.111 | 1138.768 | 1131.767  | 1121.043  | 1105.875  | 1085.807  | 1062.144  | 1033.492  | 1001.966  | 967.794   |
| 20  | 1296.486 | 1293.296 | 1285.231  | 1271.430  | 1252.325  | 1227.497  | 1197.148  | 1160.634  | 1118.612  | 1073.400  |
| 25  | 1404.941 | 1401.130 | 1392.318  | 1377.352  | 1356.449  | 1328.316  | 1294.144  | 1252.224  | 1204.783  | 1149.594  |
| 30  | 1460.130 | 1457.155 | 1447.608  | 1432.010  | 1411.106  | 1380.429  | 1342.750  | 1298.500  | 1247.134  | 1185.475  |
| 35  | 1460.345 | 1457.686 | 1448.672  | 1433.073  | 1411.208  | 1380.745  | 1341.370  | 1294.461  | 1240.018  | 1174.320  |
| 40  | 1407.283 | 1404.308 | 1396.027  | 1381.176  | 1358.677  | 1328.215  | 1287.890  | 1239.271  | 1181.968  | 1115.421  |
| 45  | 1305.602 | 1302.640 | 1294.359  | 1279.711  | 1258.377  | 1227.497  | 1185.994  | 1136.540  | 1077.958  | 1010.994  |
| 50  | 1162.964 | 1160.419 | 1152.670  | 1139.085  | 1117.650  | 1087.187  | 1047.926  | 997.510   | 938.395   | 873.761   |
| 55  | 992.736  | 990.723  | 984.456   | 971.934   | 951.348   | 922.696   | 885.764   | 838.108   | 783.982   | 725.399   |
| 60  | 812.317  | 810.089  | 804.467   | 793.642   | 775.170   | 749.595   | 716.803   | 675.198   | 628.606   | 579.152   |
| 65  | 634.227  | 632.645  | 628.074   | 618.629   | 603.031   | 582.014   | 554.843   | 521.101   | 484.055   | 445.427   |
| 70  | 470.369  | 469.204  | 464.849   | 457.531   | 445.427   | 428.866   | 408.178   | 384.401   | 356.597   | 327.945   |
| 75  | 328.578  | 327.515  | 324.337   | 318.601   | 309.587   | 297.382   | 282.087   | 264.691   | 245.801   | 226.480   |
| 80  | 206.957  | 205.994  | 203.665   | 199.626   | 193.055   | 184.775   | 174.583   | 163.340   | 151.236   | 139.030   |
| 85  | 111.012  | 110.480  | 108.783   | 106.023   | 101.782   | 96.578    | 90.526    | 83.955    | 77.055    | 69.939    |
| 90  | 45.630   | 45.314   | 44.364    | 42.668    | 40.439    | 37.679    | 34.704    | 31.197    | 27.804    | 24.512    |
| 95  | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 100 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 105 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 110 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 115 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 120 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 125 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 130 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 135 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 140 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 145 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 150 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 155 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 160 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 165 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 170 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 175 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |
| 180 | 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> | <u>95</u> |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0  | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   | 611.362   |
| 5  | 705.661   | 694.519   | 683.365   | 671.590   | 659.284   | 647.180   | 634.658   | 622.136   | 609.501   | 596.979   |
| 10 | 820.066   | 795.022   | 768.067   | 740.251   | 712.878   | 685.277   | 656.840   | 628.923   | 602.284   | 575.227   |
| 15 | 929.064   | 889.157   | 846.806   | 802.340   | 758.938   | 715.309   | 669.995   | 628.606   | 588.483   | 548.475   |
| 20 | 1022.135  | 969.288   | 911.124   | 851.376   | 792.465   | 733.680   | 672.970   | 618.313   | 566.516   | 515.581   |
| 25 | 1088.251  | 1023.731  | 953.145   | 879.813   | 807.645   | 735.693   | 662.145   | 596.131   | 534.889   | 476.206   |
| 30 | 1116.586  | 1044.001  | 963.768   | 880.028   | 797.352   | 713.612   | 633.164   | 560.148   | 493.184   | 430.778   |
| 35 | 1100.140  | 1021.502  | 935.433   | 845.324   | 757.558   | 669.045   | 585.090   | 509.745   | 442.667   | 380.792   |
| 40 | 1036.467  | 955.703   | 866.975   | 776.233   | 688.784   | 601.752   | 520.253   | 448.820   | 385.882   | 328.794   |
| 45 | 932.559   | 852.541   | 767.535   | 681.250   | 599.524   | 520.456   | 446.908   | 383.236   | 327.831   | 278.479   |
| 50 | 801.062   | 728.046   | 653.333   | 574.582   | 504.110   | 437.577   | 374.424   | 321.463   | 274.870   | 234.127   |
| 55 | 661.715   | 596.029   | 532.977   | 471.635   | 411.571   | 359.142   | 308.093   | 264.577   | 226.265   | 193.156   |
| 60 | 527.039   | 474.192   | 423.776   | 371.664   | 330.807   | 287.189   | 247.383   | 213.426   | 182.964   | 156.756   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_A1\_WH.IES**

**CANDELA TABULATION - (Cont.)**

|     |         |         |         |         |         |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65  | 406.165 | 366.042 | 328.047 | 291.330 | 255.347 | 222.656 | 193.688 | 167.366 | 144.019 | 124.065 |
| 70  | 299.496 | 270.312 | 242.294 | 215.022 | 190.181 | 166.100 | 144.766 | 125.230 | 107.619 | 93.501  |
| 75  | 206.311 | 186.471 | 167.581 | 148.906 | 131.814 | 115.253 | 99.769  | 86.386  | 74.497  | 64.419  |
| 80  | 126.509 | 114.088 | 102.200 | 90.526  | 79.815  | 69.306  | 59.545  | 50.834  | 43.199  | 37.363  |
| 85  | 63.153  | 56.253  | 49.454  | 43.085  | 37.147  | 31.412  | 25.892  | 21.334  | 17.409  | 14.965  |
| 90  | 21.232  | 17.941  | 14.750  | 11.673  | 9.027   | 6.368   | 4.140   | 2.330   | 1.380   | 1.279   |
| 95  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 115 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 120 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 125 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 130 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 135 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 140 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 145 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 150 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 155 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 160 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 165 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 170 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 175 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 180 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

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

|     | <b>100</b> | <b>105</b> | <b>110</b> | <b>115</b> | <b>120</b> | <b>125</b> | <b>130</b> | <b>135</b> | <b>140</b> | <b>145</b> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0   | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    |
| 5   | 584.989    | 573.417    | 561.959    | 551.551    | 540.941    | 531.610    | 523.115    | 514.834    | 507.516    | 501.148    |
| 10  | 550.602    | 527.255    | 504.756    | 483.638    | 464.950    | 447.554    | 431.740    | 417.307    | 404.987    | 394.061    |
| 15  | 512.922    | 479.814    | 448.934    | 421.016    | 396.707    | 374.854    | 355.749    | 338.023    | 323.691    | 311.385    |
| 20  | 471.432    | 430.461    | 395.542    | 363.383    | 336.542    | 313.512    | 293.241    | 276.149    | 262.678    | 250.890    |
| 25  | 426.638    | 382.172    | 344.708    | 312.018    | 285.493    | 263.526    | 245.370    | 229.671    | 217.883    | 208.653    |
| 30  | 379.412    | 334.415    | 297.799    | 266.704    | 242.509    | 223.087    | 207.691    | 195.068    | 185.724    | 177.874    |
| 35  | 331.022    | 288.570    | 255.132    | 228.392    | 207.273    | 191.029    | 178.090    | 167.898    | 160.466    | 154.528    |
| 40  | 283.796    | 246.332    | 217.567    | 195.068    | 177.241    | 163.973    | 153.565    | 145.614    | 139.777    | 135.422    |
| 45  | 239.964    | 208.337    | 184.344    | 165.884    | 151.236    | 140.626    | 132.345    | 126.192    | 121.736    | 118.228    |
| 50  | 202.184    | 175.963    | 156.224    | 140.626    | 129.370    | 120.457    | 114.088    | 109.416    | 106.125    | 103.377    |
| 55  | 167.366    | 146.880    | 130.016    | 117.912    | 109.733    | 102.314    | 97.009     | 93.071     | 90.108     | 87.880     |
| 60  | 136.270    | 120.140    | 108.568    | 97.743     | 90.210     | 84.474     | 80.233     | 77.055     | 74.713     | 72.699     |
| 65  | 111.113    | 95.831     | 85.652     | 78.118     | 72.066     | 67.610     | 64.204     | 61.558     | 59.431     | 57.949     |
| 70  | 81.929     | 72.383     | 64.951     | 59.215     | 54.658     | 51.264     | 48.606     | 46.377     | 44.896     | 43.516     |
| 75  | 56.354     | 49.770     | 44.896     | 41.072     | 37.780     | 35.552     | 33.640     | 32.159     | 30.994     | 30.146     |
| 80  | 32.691     | 28.867     | 26.221     | 24.094     | 22.283     | 21.017     | 19.954     | 19.105     | 18.472     | 17.941     |
| 85  | 13.155     | 11.775     | 10.825     | 9.977      | 9.445      | 8.913      | 8.597      | 8.280      | 8.166      | 7.964      |
| 90  | 1.279      | 1.064      | 0.950      | 0.848      | 0.848      | 0.747      | 0.633      | 0.633      | 0.633      | 0.633      |
| 95  | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 100 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 105 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 110 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 115 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 120 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 125 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 130 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 135 | 0.000      | 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\_CC\_SO\_35\_A1\_WH.IES**

**CANDELA TABULATION - (Cont.)**

|     |       |       |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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

|     | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|
| 0   | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    | 611.362    |
| 5   | 495.412    | 490.538    | 486.929    | 483.422    | 481.409    | 480.029    | 479.497    |
| 10  | 384.401    | 376.867    | 370.398    | 365.295    | 361.902    | 359.674    | 358.927    |
| 15  | 300.661    | 292.494    | 285.493    | 280.504    | 276.896    | 274.668    | 274.022    |
| 20  | 241.230    | 233.912    | 227.961    | 223.619    | 220.428    | 218.731    | 217.997    |
| 25  | 200.905    | 194.853    | 190.181    | 186.686    | 184.458    | 183.179    | 182.546    |
| 30  | 171.936    | 167.467    | 163.859    | 161.314    | 159.617    | 158.554    | 158.351    |
| 35  | 150.071    | 146.678    | 144.019    | 142.006    | 140.841    | 140.195    | 139.879    |
| 40  | 131.814    | 129.370    | 127.458    | 126.078    | 125.230    | 124.698    | 124.597    |
| 45  | 115.684    | 113.772    | 112.493    | 111.328    | 110.695    | 110.480    | 110.379    |
| 50  | 101.250    | 99.870     | 98.806     | 97.958     | 97.528     | 97.325     | 97.211     |
| 55  | 86.183     | 85.006     | 84.158     | 83.423     | 82.993     | 82.778     | 82.778     |
| 60  | 71.218     | 70.155     | 69.408     | 68.775     | 68.344     | 68.142     | 68.142     |
| 65  | 56.569     | 55.721     | 54.974     | 54.442     | 54.024     | 53.911     | 53.911     |
| 70  | 42.554     | 41.819     | 41.174     | 40.756     | 40.439     | 40.224     | 40.123     |
| 75  | 29.399     | 28.867     | 28.335     | 28.019     | 27.804     | 27.702     | 27.588     |
| 80  | 17.510     | 17.194     | 16.877     | 16.662     | 16.447     | 16.447     | 16.345     |
| 85  | 7.850      | 7.749      | 7.533      | 7.533      | 7.533      | 7.432      | 7.432      |
| 90  | 0.633      | 0.633      | 0.633      | 0.633      | 0.633      | 0.633      | 0.633      |
| 95  | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 100 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 105 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 110 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 115 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 120 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 125 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 130 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 135 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 140 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 145 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 150 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 155 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 160 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 165 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 170 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 175 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |
| 180 | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      | 0.000      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_A1\_WH.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 243.82  | N.A.  | 11.30  |
| 0-30    | 555.37  | N.A.  | 25.70  |
| 0-40    | 957.53  | N.A.  | 44.20  |
| 0-60    | 1729.19 | N.A.  | 79.90  |
| 0-80    | 2115.39 | N.A.  | 97.70  |
| 0-90    | 2161.55 | N.A.  | 99.80  |
| 10-90   | 2102.32 | N.A.  | 97.10  |
| 20-40   | 713.71  | N.A.  | 33.00  |
| 20-50   | 1130.82 | N.A.  | 52.20  |
| 40-70   | 1020.54 | N.A.  | 47.10  |
| 60-80   | 386.21  | N.A.  | 17.80  |
| 70-80   | 137.32  | N.A.  | 6.30   |
| 80-90   | 46.15   | N.A.  | 2.10   |
| 90-110  | 3.45    | N.A.  | 0.20   |
| 90-120  | 3.45    | N.A.  | 0.20   |
| 90-130  | 3.45    | N.A.  | 0.20   |
| 90-150  | 3.45    | N.A.  | 0.20   |
| 90-180  | 3.45    | N.A.  | 0.20   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 2165.00 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 59.23  |
| 10-20   | 184.60 |
| 20-30   | 311.54 |
| 30-40   | 402.16 |
| 40-50   | 417.11 |
| 50-60   | 354.55 |
| 60-70   | 248.89 |
| 70-80   | 137.32 |
| 80-90   | 46.15  |
| 90-100  | 3.45   |
| 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   |

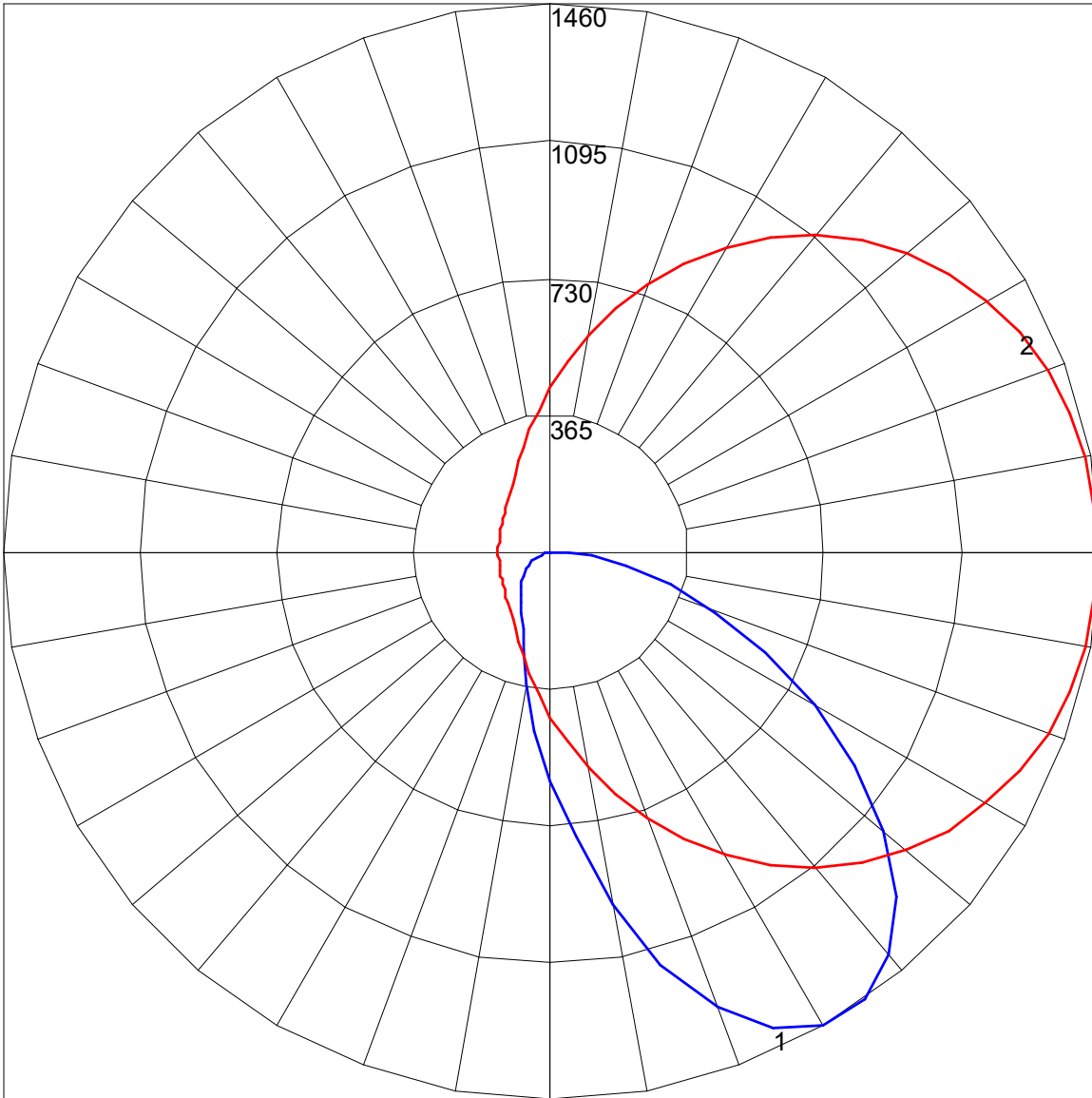
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_CC\_SO\_35\_A1\_WH.IES**

**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  | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |   |
| 2  | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |   |
| 3  | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 58  |   |
| 4  | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |   |
| 5  | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |   |
| 6  | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |   |
| 7  | 64  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 33  |   |
| 8  | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |   |
| 9  | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |   |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |   |

POLAR GRAPH



Maximum Candela = 1460.345 Located At Horizontal Angle = 0, Vertical Angle = 35

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)