

## IES Report

ZipWave® | 707 | Clear with EdgeSoft™ | 90 CRI | HO

707-Z9-4-48-AC / EL-XX-X-0-Z-HO-359-C1-0-AL-0

|  | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt               | 100   | 103   | 106   | 107   |
| Total Lumens, 4' rail length (1219mm)    | 5361  | 5530  | 5643  | 5699  |
| Lumens per foot (305mm)                  | 1340  | 1383  | 1411  | 1425  |
| Input Power (W), 4' rail length (1219mm) | 53.7  | 53.7  | 53.7  | 53.7  |
| Watts per foot (305mm)                   | 13.5  | 13.5  | 13.5  | 13.5  |
| CRI                                      | 94    | 94    | 94    | 94    |

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\_Z9\_AC\_Z\_HO\_359\_C1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911558R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z9-48-AC-Z-HO-359-C1-AL

[LUMINAIRE] ZipWave LED, ceiling cove, 48", 3500K, 90 CRI, zipper board, clear lens w/edgesoft,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 5643            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 105             |
| Total Luminaire Watts           | 53.73           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Indirect        |
| Spacing Criterion (0-180)       | N.A.            |
| Spacing Criterion (90-270)      | N.A.            |
| Spacing Criterion (Diagonal)    | N.A.            |
| Basic Luminous Shape            | Unknown         |
| Luminous Length (0-180)         | 0.00 ft         |
| Luminous Width (90-270)         | 4.00 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                  | 0                | 0                 | 0                 |
| 55                  | 0                | 0                 | 0                 |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_Z\_HO\_359\_C1.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</b>   | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>5</b>   | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>10</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>15</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>20</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>25</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>30</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>35</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>40</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>45</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>50</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>55</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>60</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>65</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>70</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>75</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>80</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>85</b>  | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>90</b>  | 142.5    | 142.5    | 153.9     | 165.3     | 174.8     | 184.3     | 195.7     | 205.2     | 214.7     | 226.1     |
| <b>95</b>  | 2409.2   | 2397.8   | 2363.6    | 2314.2    | 2242.0    | 2147.0    | 2029.2    | 1882.9    | 1711.9    | 1525.7    |
| <b>100</b> | 2549.8   | 2540.3   | 2506.1    | 2451.0    | 2378.8    | 2283.8    | 2164.1    | 2017.8    | 1844.9    | 1654.9    |
| <b>105</b> | 2610.6   | 2595.4   | 2565.0    | 2511.8    | 2433.9    | 2342.7    | 2213.5    | 2071.0    | 1909.5    | 1729.0    |
| <b>110</b> | 2614.4   | 2604.9   | 2576.4    | 2527.0    | 2458.6    | 2371.2    | 2264.8    | 2141.3    | 1987.4    | 1824.0    |
| <b>115</b> | 2648.6   | 2637.2   | 2608.7    | 2566.9    | 2500.4    | 2420.6    | 2319.9    | 2204.0    | 2063.4    | 1907.6    |
| <b>120</b> | 2665.7   | 2658.1   | 2631.5    | 2589.7    | 2532.7    | 2454.8    | 2359.8    | 2240.1    | 2095.7    | 1936.1    |
| <b>125</b> | 2658.1   | 2650.5   | 2622.0    | 2580.2    | 2521.3    | 2437.7    | 2338.9    | 2219.2    | 2072.9    | 1915.2    |
| <b>130</b> | 2593.5   | 2585.9   | 2561.2    | 2515.6    | 2456.7    | 2375.0    | 2274.3    | 2154.6    | 2010.2    | 1856.3    |
| <b>135</b> | 2481.4   | 2473.8   | 2447.2    | 2401.6    | 2344.6    | 2262.9    | 2167.9    | 2048.2    | 1913.3    | 1768.9    |
| <b>140</b> | 2321.8   | 2314.2   | 2287.6    | 2243.9    | 2186.9    | 2107.1    | 2015.9    | 1907.6    | 1784.1    | 1656.8    |
| <b>145</b> | 2114.7   | 2109.0   | 2080.5    | 2042.5    | 1989.3    | 1920.9    | 1839.2    | 1744.2    | 1637.8    | 1529.5    |
| <b>150</b> | 1875.3   | 1871.5   | 1850.6    | 1818.3    | 1772.7    | 1713.8    | 1645.4    | 1567.5    | 1483.9    | 1400.3    |
| <b>155</b> | 1624.5   | 1620.7   | 1603.6    | 1578.9    | 1544.7    | 1501.0    | 1451.6    | 1394.6    | 1333.8    | 1271.1    |
| <b>160</b> | 1394.6   | 1388.9   | 1377.5    | 1360.4    | 1337.6    | 1309.1    | 1274.9    | 1238.8    | 1197.0    | 1155.2    |
| <b>165</b> | 1195.1   | 1193.2   | 1187.5    | 1178.0    | 1164.7    | 1145.7    | 1126.7    | 1103.9    | 1077.3    | 1050.7    |
| <b>170</b> | 1035.5   | 1035.5   | 1031.7    | 1026.0    | 1018.4    | 1010.8    | 1001.3    | 988.0     | 974.7     | 961.4     |
| <b>175</b> | 912.0    | 912.0    | 912.0     | 910.1     | 906.3     | 904.4     | 900.6     | 896.8     | 891.1     | 885.4     |
| <b>180</b> | 830.3    | 830.3    | 830.3     | 830.3     | 830.3     | 830.3     | 830.3     | 830.3     | 830.3     | 830.3     |

**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> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>5</b>  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>10</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>15</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>20</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>25</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>30</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>35</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>40</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>45</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>50</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>55</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| <b>60</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |

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**CANDELA TABULATION - (Cont.)**

|     |        |        |        |        |        |       |       |       |       |       |
|-----|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 65  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90  | 237.5  | 247.0  | 248.9  | 241.3  | 216.6  | 174.8 | 119.7 | 58.9  | 9.5   | 7.6   |
| 95  | 1312.9 | 1098.2 | 877.8  | 665.0  | 501.6  | 349.6 | 235.6 | 142.5 | 66.5  | 45.6  |
| 100 | 1438.3 | 1212.2 | 984.2  | 786.6  | 625.1  | 484.5 | 347.7 | 228.0 | 144.4 | 96.9  |
| 105 | 1531.4 | 1324.3 | 1122.9 | 932.9  | 756.2  | 589.0 | 437.0 | 313.5 | 218.5 | 157.7 |
| 110 | 1645.4 | 1449.7 | 1246.4 | 1039.3 | 849.3  | 665.0 | 526.3 | 400.9 | 300.2 | 229.9 |
| 115 | 1721.4 | 1520.0 | 1314.8 | 1111.5 | 921.5  | 746.7 | 600.4 | 478.8 | 376.2 | 302.1 |
| 120 | 1749.9 | 1554.2 | 1345.2 | 1143.8 | 963.3  | 801.8 | 661.2 | 545.3 | 448.4 | 372.4 |
| 125 | 1730.9 | 1544.7 | 1349.0 | 1160.9 | 993.7  | 845.5 | 712.5 | 602.3 | 513.0 | 440.8 |
| 130 | 1685.3 | 1508.6 | 1333.8 | 1162.8 | 1008.9 | 875.9 | 756.2 | 653.6 | 571.9 | 503.5 |
| 135 | 1611.2 | 1455.4 | 1297.7 | 1147.6 | 1014.6 | 896.8 | 786.6 | 699.2 | 625.1 | 560.5 |
| 140 | 1518.1 | 1385.1 | 1250.2 | 1122.9 | 1008.9 | 910.1 | 815.1 | 737.2 | 670.7 | 613.7 |
| 145 | 1415.5 | 1305.3 | 1195.1 | 1092.5 | 999.4  | 913.9 | 834.1 | 769.5 | 710.6 | 659.3 |
| 150 | 1309.1 | 1223.6 | 1138.1 | 1056.4 | 982.3  | 913.9 | 849.3 | 794.2 | 744.8 | 699.2 |
| 155 | 1204.6 | 1141.9 | 1077.3 | 1016.5 | 961.4  | 908.2 | 856.9 | 813.2 | 773.3 | 735.3 |
| 160 | 1111.5 | 1065.9 | 1022.2 | 978.5  | 936.7  | 898.7 | 860.7 | 826.5 | 794.2 | 763.8 |
| 165 | 1024.1 | 995.6  | 967.1  | 938.6  | 910.1  | 883.5 | 858.8 | 832.2 | 811.3 | 788.5 |
| 170 | 946.2  | 931.0  | 913.9  | 898.7  | 883.5  | 866.4 | 851.2 | 836.0 | 820.8 | 805.6 |
| 175 | 879.7  | 874.0  | 866.4  | 862.6  | 855.0  | 847.4 | 841.7 | 834.1 | 828.4 | 820.8 |
| 180 | 830.3  | 830.3  | 830.3  | 830.3  | 830.3  | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 |

**Vert. Horizontal Angles**

|     | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 5   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 10  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 15  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 20  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 25  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 30  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 35  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 40  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 45  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 50  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 55  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 60  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 65  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 70  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 75  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 80  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 85  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| 90  | 7.6        | 7.6        | 7.6        | 7.6        | 7.6        | 5.7        | 5.7        | 5.7        | 5.7        | 5.7        |
| 95  | 36.1       | 30.4       | 26.6       | 22.8       | 20.9       | 19.0       | 17.1       | 15.2       | 13.3       | 11.4       |
| 100 | 89.3       | 77.9       | 68.4       | 60.8       | 55.1       | 49.4       | 45.6       | 43.7       | 39.9       | 38.0       |
| 105 | 148.2      | 138.7      | 125.4      | 114.0      | 102.6      | 95.0       | 89.3       | 83.6       | 77.9       | 74.1       |
| 110 | 205.2      | 199.5      | 186.2      | 172.9      | 159.6      | 150.1      | 140.6      | 133.0      | 125.4      | 119.7      |
| 115 | 262.2      | 256.5      | 248.9      | 235.6      | 222.3      | 209.0      | 197.6      | 188.1      | 178.6      | 171.0      |
| 120 | 324.9      | 309.7      | 304.0      | 294.5      | 283.1      | 269.8      | 258.4      | 247.0      | 237.5      | 229.9      |
| 125 | 389.5      | 359.1      | 355.3      | 349.6      | 340.1      | 330.6      | 319.2      | 307.8      | 298.3      | 288.8      |
| 130 | 452.2      | 416.1      | 400.9      | 399.0      | 393.3      | 385.7      | 374.3      | 364.8      | 357.2      | 347.7      |
| 135 | 513.0      | 475.0      | 448.4      | 440.8      | 438.9      | 433.2      | 427.5      | 419.9      | 412.3      | 404.7      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_Z\_HO\_359\_C1.IES**

**CANDELA TABULATION - (Cont.)**

|            |       |       |       |       |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>140</b> | 568.1 | 530.1 | 501.6 | 480.7 | 476.9 | 475.0 | 471.2 | 465.5 | 461.7 | 456.0 |
| <b>145</b> | 619.4 | 583.3 | 554.8 | 532.0 | 514.9 | 509.2 | 509.2 | 507.3 | 503.5 | 499.7 |
| <b>150</b> | 663.1 | 632.7 | 604.2 | 581.4 | 564.3 | 549.1 | 539.6 | 537.7 | 537.7 | 535.8 |
| <b>155</b> | 703.0 | 674.5 | 649.8 | 630.8 | 611.8 | 596.6 | 585.2 | 573.8 | 566.2 | 562.4 |
| <b>160</b> | 739.1 | 716.3 | 693.5 | 674.5 | 659.3 | 646.0 | 632.7 | 621.3 | 613.7 | 606.1 |
| <b>165</b> | 767.6 | 748.6 | 731.5 | 716.3 | 703.0 | 691.6 | 680.2 | 670.7 | 661.2 | 653.6 |
| <b>170</b> | 794.2 | 780.9 | 769.5 | 758.1 | 746.7 | 739.1 | 729.6 | 722.0 | 716.3 | 710.6 |
| <b>175</b> | 815.1 | 809.4 | 803.7 | 798.0 | 792.3 | 786.6 | 782.8 | 777.1 | 773.3 | 771.4 |
| <b>180</b> | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 | 830.3 |

**Vert.  
Angles**

**Horizontal Angles**

|            | <u><b>150</b></u> | <u><b>155</b></u> | <u><b>160</b></u> | <u><b>165</b></u> | <u><b>170</b></u> | <u><b>175</b></u> | <u><b>180</b></u> |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>0</b>   | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>5</b>   | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>10</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>15</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>20</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>25</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>30</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>35</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>40</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>45</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>50</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>55</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>60</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>65</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>70</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>75</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>80</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>85</b>  | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |
| <b>90</b>  | 5.7               | 5.7               | 5.7               | 5.7               | 3.8               | 3.8               | 3.8               |
| <b>95</b>  | 11.4              | 9.5               | 9.5               | 7.6               | 7.6               | 7.6               | 7.6               |
| <b>100</b> | 36.1              | 34.2              | 32.3              | 30.4              | 30.4              | 28.5              | 28.5              |
| <b>105</b> | 70.3              | 68.4              | 66.5              | 64.6              | 62.7              | 60.8              | 60.8              |
| <b>110</b> | 115.9             | 110.2             | 108.3             | 104.5             | 102.6             | 102.6             | 100.7             |
| <b>115</b> | 165.3             | 161.5             | 157.7             | 153.9             | 152.0             | 150.1             | 150.1             |
| <b>120</b> | 222.3             | 216.6             | 210.9             | 207.1             | 205.2             | 203.3             | 201.4             |
| <b>125</b> | 281.2             | 273.6             | 267.9             | 264.1             | 262.2             | 260.3             | 258.4             |
| <b>130</b> | 340.1             | 334.4             | 328.7             | 323.0             | 321.1             | 319.2             | 319.2             |
| <b>135</b> | 397.1             | 391.4             | 385.7             | 381.9             | 378.1             | 378.1             | 376.2             |
| <b>140</b> | 450.3             | 444.6             | 440.8             | 438.9             | 435.1             | 433.2             | 433.2             |
| <b>145</b> | 495.9             | 494.0             | 490.2             | 488.3             | 486.4             | 484.5             | 484.5             |
| <b>150</b> | 533.9             | 532.0             | 530.1             | 528.2             | 528.2             | 528.2             | 528.2             |
| <b>155</b> | 562.4             | 560.5             | 558.6             | 560.5             | 558.6             | 558.6             | 558.6             |
| <b>160</b> | 600.4             | 594.7             | 590.9             | 587.1             | 587.1             | 585.2             | 585.2             |
| <b>165</b> | 649.8             | 644.1             | 640.3             | 636.5             | 634.6             | 632.7             | 632.7             |
| <b>170</b> | 704.9             | 701.1             | 697.3             | 695.4             | 691.6             | 691.6             | 691.6             |
| <b>175</b> | 767.6             | 765.7             | 763.8             | 761.9             | 760.0             | 760.0             | 760.0             |
| <b>180</b> | 830.3             | 830.3             | 830.3             | 830.3             | 830.3             | 830.3             | 830.3             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_Z\_HO\_359\_C1.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 0.00    | N.A.  | 0.00   |
| 0-30    | 0.00    | N.A.  | 0.00   |
| 0-40    | 0.00    | N.A.  | 0.00   |
| 0-60    | 0.00    | N.A.  | 0.00   |
| 0-80    | 0.00    | N.A.  | 0.00   |
| 0-90    | 25.82   | N.A.  | 0.50   |
| 10-90   | 25.82   | N.A.  | 0.50   |
| 20-40   | 0.00    | N.A.  | 0.00   |
| 20-50   | 0.00    | N.A.  | 0.00   |
| 40-70   | 0.00    | N.A.  | 0.00   |
| 60-80   | 0.00    | N.A.  | 0.00   |
| 70-80   | 0.00    | N.A.  | 0.00   |
| 80-90   | 25.82   | N.A.  | 0.50   |
| 90-110  | 1519.57 | N.A.  | 26.90  |
| 90-120  | 2476.54 | N.A.  | 43.90  |
| 90-130  | 3410.9  | N.A.  | 60.40  |
| 90-150  | 4861.06 | N.A.  | 86.10  |
| 90-180  | 5617.12 | N.A.  | 99.50  |
| 110-180 | 4097.55 | N.A.  | 72.60  |
| 0-180   | 5642.94 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 0.00   |
| 10-20   | 0.00   |
| 20-30   | 0.00   |
| 30-40   | 0.00   |
| 40-50   | 0.00   |
| 50-60   | 0.00   |
| 60-70   | 0.00   |
| 70-80   | 0.00   |
| 80-90   | 25.82  |
| 90-100  | 623.62 |
| 100-110 | 895.95 |
| 110-120 | 956.97 |
| 120-130 | 934.36 |
| 130-140 | 816.37 |
| 140-150 | 633.79 |
| 150-160 | 430.91 |
| 160-170 | 245.39 |
| 170-180 | 79.76  |

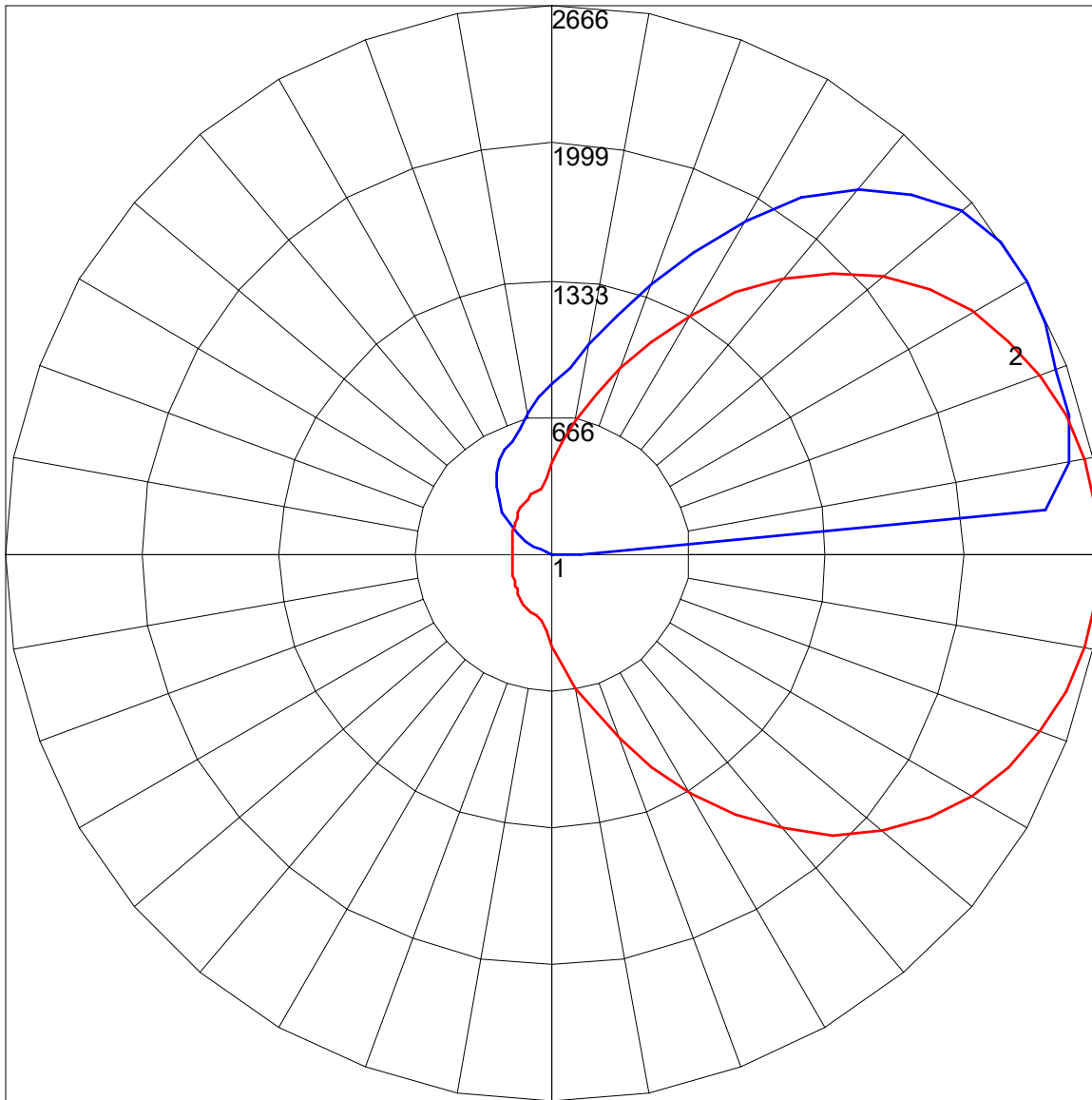
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_Z\_HO\_359\_C1.IES

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  | 95 | 95 | 95 | 95 | 82 | 82 | 82 | 82 | 56 | 56 | 56 | 32 | 32 | 32 | 11 | 11 | 11 | 0 |
| 1  | 87 | 82 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 9  | 0 |
| 2  | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 39 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0 |
| 3  | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0 |
| 4  | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 15 | 6  | 6  | 5  | 0 |
| 5  | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 6  | 5  | 4  | 0 |
| 6  | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0 |
| 7  | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0 |
| 8  | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0 |
| 9  | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 0 |

POLAR GRAPH



Maximum Candela = 2665.7 Located At Horizontal Angle = 0, Vertical Angle = 120  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)