

## IES Report

# WingRail® | 107 | Clear with EdgeSoft™ | 90 CRI | HO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-C1-X-XX-X

|  | 2700K | 3000K | 3500K | 4000K |
|--|-------|-------|-------|-------|
| Efficacy - Lumens per Watt               | 102   | 105   | 107   | 108   |
| Total Lumens, 4' rail length (1219mm)    | 4970  | 5127  | 5232  | 5284  |
| Lumens per foot (305mm)                  | 1243  | 1282  | 1308  | 1321  |
| Input Power (W), 4' rail length (1219mm) | 49.1  | 49.1  | 49.1  | 49.1  |
| Watts per foot (305mm)                   | 12.3  | 12.3  | 12.3  | 12.3  |
| 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\_107\_WG\_HO\_359\_C1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911518 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-WG-48-Z-HO-359-C1-AL

[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board, clear lens w/edge softening,

[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                | 5232            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 107             |
| Total Luminaire Watts           | 49.06           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.58            |
| Spacing Criterion (90-270)      | 1.24            |
| Spacing Criterion (Diagonal)    | 1.30            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.11 ft         |
| Luminous Width (90-270)         | 3.84 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                  | 70734            | 64235             | 46176             |
| 55                  | 67467            | 60889             | 40480             |
| 65                  | 58144            | 53681             | 33536             |
| 75                  | 44481            | 43360             | 25605             |
| 85                  | 18315            | 27195             | 13320             |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_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>  | 2103.3   | 2103.3   | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    |
| <b>5</b>  | 2185.0   | 2183.1   | 2183.1    | 2181.2    | 2179.3    | 2173.6    | 2173.6    | 2169.8    | 2164.1    | 2158.4    |
| <b>10</b> | 2257.2   | 2255.3   | 2253.4    | 2251.5    | 2245.8    | 2240.1    | 2232.5    | 2224.9    | 2215.4    | 2204.0    |
| <b>15</b> | 2304.7   | 2304.7   | 2300.9    | 2295.2    | 2287.6    | 2278.1    | 2270.5    | 2255.3    | 2242.0    | 2226.8    |
| <b>20</b> | 2325.6   | 2323.7   | 2319.9    | 2314.2    | 2304.7    | 2293.3    | 2280.0    | 2262.9    | 2243.9    | 2224.9    |
| <b>25</b> | 2321.8   | 2319.9   | 2316.1    | 2308.5    | 2297.1    | 2281.9    | 2266.7    | 2245.8    | 2223.0    | 2196.4    |
| <b>30</b> | 2287.6   | 2287.6   | 2281.9    | 2272.4    | 2261.0    | 2245.8    | 2224.9    | 2200.2    | 2173.6    | 2143.2    |
| <b>35</b> | 2224.9   | 2221.1   | 2215.4    | 2204.0    | 2190.7    | 2173.6    | 2150.8    | 2124.2    | 2091.9    | 2059.6    |
| <b>40</b> | 2116.6   | 2114.7   | 2107.1    | 2097.6    | 2082.4    | 2063.4    | 2038.7    | 2010.2    | 1976.0    | 1938.0    |
| <b>45</b> | 1964.6   | 1960.8   | 1957.0    | 1947.5    | 1932.3    | 1911.4    | 1886.7    | 1856.3    | 1822.1    | 1784.1    |
| <b>50</b> | 1763.2   | 1761.3   | 1755.6    | 1748.0    | 1734.7    | 1715.7    | 1692.9    | 1662.5    | 1630.2    | 1592.2    |
| <b>55</b> | 1520.0   | 1518.1   | 1512.4    | 1506.7    | 1497.2    | 1482.0    | 1463.0    | 1436.4    | 1406.0    | 1371.8    |
| <b>60</b> | 1244.5   | 1244.5   | 1242.6    | 1238.8    | 1231.2    | 1221.7    | 1206.5    | 1187.5    | 1162.8    | 1134.3    |
| <b>65</b> | 965.2    | 963.3    | 963.3     | 961.4     | 957.6     | 951.9     | 942.4     | 929.1     | 912.0     | 891.1     |
| <b>70</b> | 693.5    | 693.5    | 693.5     | 693.5     | 693.5     | 689.7     | 685.9     | 678.3     | 668.8     | 655.5     |
| <b>75</b> | 452.2    | 452.2    | 452.2     | 454.1     | 456.0     | 456.0     | 454.1     | 452.2     | 448.4     | 440.8     |
| <b>80</b> | 235.6    | 237.5    | 239.4     | 241.3     | 245.1     | 247.0     | 248.9     | 250.8     | 250.8     | 248.9     |
| <b>85</b> | 62.7     | 62.7     | 64.6      | 68.4      | 70.3      | 76.0      | 79.8      | 85.5      | 89.3      | 93.1      |
| <b>90</b> | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |

**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>  | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    | 2103.3    |
| <b>5</b>  | 2152.7    | 2147.0    | 2141.3    | 2133.7    | 2126.1    | 2116.6    | 2110.9    | 2101.4    | 2093.8    | 2086.2    |
| <b>10</b> | 2192.6    | 2179.3    | 2166.0    | 2148.9    | 2133.7    | 2118.5    | 2101.4    | 2084.3    | 2067.2    | 2048.2    |
| <b>15</b> | 2207.8    | 2186.9    | 2167.9    | 2145.1    | 2122.3    | 2097.6    | 2071.0    | 2046.3    | 2019.7    | 1991.2    |
| <b>20</b> | 2200.2    | 2175.5    | 2147.0    | 2116.6    | 2086.2    | 2055.8    | 2021.6    | 1985.5    | 1951.3    | 1913.3    |
| <b>25</b> | 2169.8    | 2135.6    | 2103.3    | 2069.1    | 2029.2    | 1991.2    | 1947.5    | 1903.8    | 1858.2    | 1810.7    |
| <b>30</b> | 2109.0    | 2071.0    | 2033.0    | 1991.2    | 1945.6    | 1900.0    | 1848.7    | 1799.3    | 1744.2    | 1689.1    |
| <b>35</b> | 2019.7    | 1977.9    | 1934.2    | 1886.7    | 1837.3    | 1782.2    | 1727.1    | 1670.1    | 1609.3    | 1546.6    |
| <b>40</b> | 1896.2    | 1852.5    | 1803.1    | 1751.8    | 1698.6    | 1639.7    | 1580.8    | 1520.0    | 1453.5    | 1385.1    |
| <b>45</b> | 1740.4    | 1694.8    | 1643.5    | 1592.2    | 1533.3    | 1474.4    | 1413.6    | 1350.9    | 1282.5    | 1212.2    |
| <b>50</b> | 1552.3    | 1504.8    | 1455.4    | 1402.2    | 1347.1    | 1288.2    | 1227.4    | 1164.7    | 1098.2    | 1029.8    |
| <b>55</b> | 1333.8    | 1288.2    | 1244.5    | 1195.1    | 1141.9    | 1086.8    | 1031.7    | 972.8     | 912.0     | 847.4     |
| <b>60</b> | 1100.1    | 1060.2    | 1020.3    | 976.6     | 929.1     | 881.6     | 832.2     | 780.9     | 727.7     | 672.6     |
| <b>65</b> | 864.5     | 832.2     | 798.0     | 760.0     | 720.1     | 680.2     | 640.3     | 598.5     | 556.7     | 513.0     |
| <b>70</b> | 640.3     | 617.5     | 589.0     | 558.6     | 526.3     | 495.9     | 463.6     | 433.2     | 400.9     | 368.6     |
| <b>75</b> | 431.3     | 416.1     | 399.0     | 376.2     | 351.5     | 326.8     | 304.0     | 281.2     | 260.3     | 239.4     |
| <b>80</b> | 245.1     | 237.5     | 228.0     | 216.6     | 201.4     | 184.3     | 167.2     | 152.0     | 140.6     | 129.2     |
| <b>85</b> | 95.0      | 93.1      | 91.2      | 87.4      | 81.7      | 74.1      | 64.6      | 53.2      | 45.6      | 43.7      |
| <b>90</b> | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |

**Vert. Angles**      **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> |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>0</b>  | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     | 2103.3     |
| <b>5</b>  | 2078.6     | 2072.9     | 2063.4     | 2055.8     | 2048.2     | 2040.6     | 2036.8     | 2029.2     | 2023.5     | 2017.8     |
| <b>10</b> | 2031.1     | 2012.1     | 1996.9     | 1979.8     | 1962.7     | 1947.5     | 1932.3     | 1919.0     | 1903.8     | 1892.4     |
| <b>15</b> | 1964.6     | 1936.1     | 1909.5     | 1882.9     | 1854.4     | 1827.8     | 1801.2     | 1776.5     | 1753.7     | 1732.8     |
| <b>20</b> | 1875.3     | 1837.3     | 1795.5     | 1757.5     | 1719.5     | 1681.5     | 1643.5     | 1605.5     | 1571.3     | 1539.0     |
| <b>25</b> | 1765.1     | 1715.7     | 1664.4     | 1615.0     | 1561.8     | 1508.6     | 1457.3     | 1407.9     | 1360.4     | 1316.7     |
| <b>30</b> | 1630.2     | 1573.2     | 1512.4     | 1447.8     | 1381.3     | 1316.7     | 1252.1     | 1191.3     | 1134.3     | 1083.0     |
| <b>35</b> | 1482.0     | 1411.7     | 1339.5     | 1267.3     | 1189.4     | 1115.3     | 1045.0     | 976.6      | 919.6      | 864.5      |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_HO\_359\_C1.IES**

**CANDELA TABULATION - (Cont.)**

|           |        |        |        |        |       |       |       |       |       |       |
|-----------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| <b>40</b> | 1314.8 | 1238.8 | 1159.0 | 1079.2 | 995.6 | 919.6 | 849.3 | 786.6 | 733.4 | 687.8 |
| <b>45</b> | 1138.1 | 1058.3 | 976.6  | 896.8  | 815.1 | 744.8 | 682.1 | 627.0 | 583.3 | 551.0 |
| <b>50</b> | 957.6  | 879.7  | 803.7  | 729.6  | 655.5 | 594.7 | 545.3 | 499.7 | 469.3 | 444.6 |
| <b>55</b> | 782.8  | 712.5  | 644.1  | 581.4  | 520.6 | 471.2 | 431.3 | 400.9 | 378.1 | 361.0 |
| <b>60</b> | 617.5  | 560.5  | 503.5  | 452.2  | 404.7 | 366.7 | 338.2 | 317.3 | 302.1 | 288.8 |
| <b>65</b> | 469.3  | 423.7  | 380.0  | 340.1  | 305.9 | 279.3 | 260.3 | 245.1 | 233.7 | 226.1 |
| <b>70</b> | 336.3  | 305.9  | 273.6  | 245.1  | 220.4 | 203.3 | 190.0 | 180.5 | 172.9 | 169.1 |
| <b>75</b> | 218.5  | 197.6  | 176.7  | 159.6  | 144.4 | 134.9 | 127.3 | 121.6 | 117.8 | 114.0 |
| <b>80</b> | 117.8  | 106.4  | 96.9   | 87.4   | 79.8  | 74.1  | 70.3  | 68.4  | 66.5  | 64.6  |
| <b>85</b> | 41.8   | 38.0   | 34.2   | 30.4   | 28.5  | 28.5  | 28.5  | 26.6  | 26.6  | 26.6  |
| <b>90</b> | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

**Vert. 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>  | 2103.3            | 2103.3            | 2103.3            | 2103.3            | 2103.3            | 2103.3            | 2103.3            |
| <b>5</b>  | 2014.0            | 2010.2            | 2006.4            | 2004.5            | 2002.6            | 2000.7            | 2000.7            |
| <b>10</b> | 1881.0            | 1871.5            | 1862.0            | 1856.3            | 1850.6            | 1848.7            | 1848.7            |
| <b>15</b> | 1711.9            | 1696.7            | 1681.5            | 1670.1            | 1662.5            | 1656.8            | 1656.8            |
| <b>20</b> | 1510.5            | 1483.9            | 1463.0            | 1444.0            | 1432.6            | 1425.0            | 1423.1            |
| <b>25</b> | 1276.8            | 1242.6            | 1214.1            | 1191.3            | 1176.1            | 1164.7            | 1162.8            |
| <b>30</b> | 1037.4            | 999.4             | 969.0             | 946.2             | 929.1             | 919.6             | 915.8             |
| <b>35</b> | 822.7             | 788.5             | 763.8             | 742.9             | 729.6             | 722.0             | 718.2             |
| <b>40</b> | 653.6             | 627.0             | 608.0             | 592.8             | 583.3             | 577.6             | 575.7             |
| <b>45</b> | 524.4             | 505.4             | 492.1             | 480.7             | 475.0             | 471.2             | 469.3             |
| <b>50</b> | 427.5             | 414.2             | 402.8             | 397.1             | 391.4             | 389.5             | 387.6             |
| <b>55</b> | 347.7             | 338.2             | 332.5             | 326.8             | 323.0             | 323.0             | 321.1             |
| <b>60</b> | 281.2             | 275.5             | 269.8             | 266.0             | 264.1             | 262.2             | 262.2             |
| <b>65</b> | 220.4             | 216.6             | 212.8             | 209.0             | 207.1             | 207.1             | 207.1             |
| <b>70</b> | 165.3             | 161.5             | 159.6             | 157.7             | 155.8             | 155.8             | 155.8             |
| <b>75</b> | 112.1             | 110.2             | 108.3             | 108.3             | 106.4             | 106.4             | 106.4             |
| <b>80</b> | 64.6              | 64.6              | 62.7              | 62.7              | 62.7              | 62.7              | 62.7              |
| <b>85</b> | 26.6              | 26.6              | 26.6              | 26.6              | 26.6              | 26.6              | 26.6              |
| <b>90</b> | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               | 0.0               |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_WG\_HO\_359\_C1.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 762.19  | N.A.  | 14.60  |
| 0-30    | 1591.23 | N.A.  | 30.40  |
| 0-40    | 2548.4  | N.A.  | 48.70  |
| 0-60    | 4301.69 | N.A.  | 82.20  |
| 0-80    | 5161.23 | N.A.  | 98.70  |
| 0-90    | 5231.83 | N.A.  | 100.00 |
| 10-90   | 5033.06 | N.A.  | 96.20  |
| 20-40   | 1786.21 | N.A.  | 34.10  |
| 20-50   | 2733.71 | N.A.  | 52.30  |
| 40-70   | 2318.4  | N.A.  | 44.30  |
| 60-80   | 859.54  | N.A.  | 16.40  |
| 70-80   | 294.43  | N.A.  | 5.60   |
| 80-90   | 70.61   | N.A.  | 1.30   |
| 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   | 5231.83 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 198.77 |
| 10-20   | 563.42 |
| 20-30   | 829.03 |
| 30-40   | 957.17 |
| 40-50   | 947.50 |
| 50-60   | 805.79 |
| 60-70   | 565.11 |
| 70-80   | 294.43 |
| 80-90   | 70.61  |
| 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   |

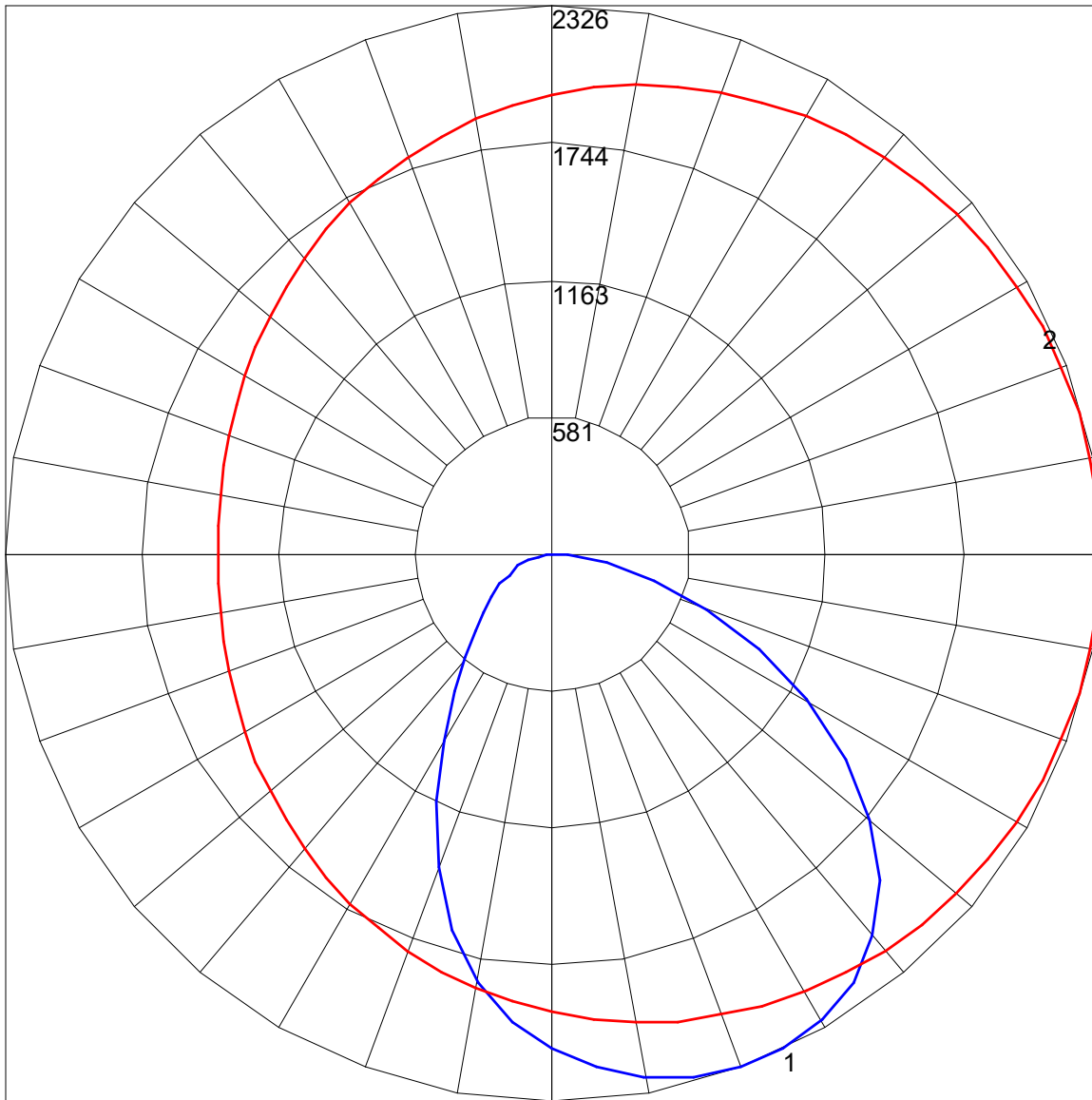
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : VODE\_107\_WG\_HO\_359\_C1.IES

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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2  | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |
| 3  | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |
| 4  | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 53  |
| 5  | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |
| 6  | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |
| 7  | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |
| 8  | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9  | 58  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |
| 10 | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |

POLAR GRAPH



Maximum Candela = 2325.6 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)