

IES Report

ZipOne® | 707 | 100° Asymmetric | 90 CRI | HO

707-Z1-4-48-X-XX-X-0-Z-HO-359-A2-X-AL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	105
Total Lumens, 4' rail length (1219mm)	3831	3952	4032	4113
Lumens per foot (305mm)	958	988	1008	1028
Input Power (W), 4' rail length (1219mm)	39.4	39.4	39.4	39.4
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	96	96	96	96

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\_Z1\_HO\_359\_A2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101707601 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z1-48-Z-HO-359-A2  
[LUMINAIRE] ZipOne LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 100° asymmetric lens, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4032
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 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	86072	83874	73080
55	81378	77963	63948
65	72885	68409	51627
75	62638	56896	38105
85	54253	44952	20926

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>	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
<b>5</b>	1869.0	1867.5	1867.5	1867.5	1866.0	1864.5	1863.0	1860.0	1858.5	1855.5
<b>10</b>	1882.5	1881.0	1881.0	1879.5	1878.0	1876.5	1873.5	1870.5	1867.5	1863.0
<b>15</b>	1866.0	1866.0	1864.5	1864.5	1861.5	1860.0	1858.5	1854.0	1851.0	1846.5
<b>20</b>	1827.0	1827.0	1827.0	1825.5	1824.0	1822.5	1819.5	1816.5	1812.0	1807.5
<b>25</b>	1767.0	1767.0	1767.0	1765.5	1765.5	1762.5	1759.5	1756.5	1753.5	1749.0
<b>30</b>	1689.0	1689.0	1689.0	1687.5	1686.0	1684.5	1681.5	1678.5	1675.5	1671.0
<b>35</b>	1594.5	1593.0	1593.0	1591.5	1588.5	1587.0	1584.0	1579.5	1576.5	1572.0
<b>40</b>	1482.0	1482.0	1480.5	1479.0	1476.0	1473.0	1468.5	1464.0	1459.5	1455.0
<b>45</b>	1351.5	1350.0	1348.5	1347.0	1342.5	1338.0	1333.5	1329.0	1323.0	1317.0
<b>50</b>	1203.0	1201.5	1200.0	1197.0	1192.5	1188.0	1182.0	1176.0	1170.0	1162.5
<b>55</b>	1036.5	1035.0	1033.5	1030.5	1026.0	1021.5	1015.5	1008.0	1000.5	993.0
<b>60</b>	861.0	861.0	859.5	856.5	852.0	846.0	840.0	832.5	825.0	816.0
<b>65</b>	684.0	684.0	682.5	679.5	675.0	669.0	664.5	657.0	649.5	642.0
<b>70</b>	514.5	514.5	513.0	510.0	507.0	502.5	496.5	492.0	486.0	478.5
<b>75</b>	360.0	360.0	358.5	355.5	352.5	349.5	345.0	339.0	333.0	327.0
<b>80</b>	220.5	219.0	219.0	216.0	214.5	210.0	207.0	204.0	199.5	193.5
<b>85</b>	105.0	103.5	103.5	102.0	100.5	99.0	96.0	93.0	90.0	87.0
<b>90</b>	28.5	27.0	27.0	27.0	25.5	25.5	24.0	22.5	21.0	19.5
<b>95</b>	24.0	24.0	24.0	22.5	22.5	21.0	21.0	19.5	18.0	18.0
<b>100</b>	22.5	22.5	22.5	22.5	21.0	21.0	19.5	19.5	18.0	16.5
<b>105</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>110</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>115</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>120</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>125</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>130</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>135</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles  
 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>	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
<b>5</b>	1852.5	1849.5	1845.0	1842.0	1837.5	1833.0	1827.0	1822.5	1818.0	1812.0
<b>10</b>	1858.5	1852.5	1846.5	1840.5	1833.0	1824.0	1815.0	1804.5	1794.0	1783.5
<b>15</b>	1840.5	1833.0	1827.0	1818.0	1807.5	1797.0	1785.0	1770.0	1753.5	1735.5
<b>20</b>	1801.5	1795.5	1788.0	1779.0	1767.0	1753.5	1737.0	1719.0	1698.0	1674.0
<b>25</b>	1743.0	1737.0	1728.0	1719.0	1705.5	1690.5	1672.5	1650.0	1623.0	1591.5
<b>30</b>	1665.0	1659.0	1650.0	1639.5	1627.5	1611.0	1590.0	1563.0	1531.5	1492.5
<b>35</b>	1566.0	1560.0	1551.0	1540.5	1528.5	1510.5	1488.0	1459.5	1422.0	1374.0
<b>40</b>	1449.0	1441.5	1434.0	1423.5	1410.0	1390.5	1366.5	1335.0	1294.5	1240.5
<b>45</b>	1309.5	1302.0	1293.0	1282.5	1269.0	1251.0	1225.5	1192.5	1147.5	1086.0
<b>50</b>	1153.5	1146.0	1135.5	1125.0	1111.5	1092.0	1066.5	1032.0	985.5	922.5
<b>55</b>	984.0	975.0	964.5	952.5	937.5	919.5	894.0	859.5	814.5	753.0
<b>60</b>	807.0	796.5	786.0	774.0	760.5	742.5	718.5	687.0	645.0	586.5

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_HO\_359\_A2.IES**

**CANDELA TABULATION - (Cont.)**

65	633.0	622.5	612.0	600.0	585.0	568.5	547.5	520.5	484.5	438.0
70	469.5	460.5	450.0	439.5	426.0	411.0	393.0	370.5	342.0	307.5
75	319.5	312.0	304.5	294.0	283.5	271.5	258.0	240.0	219.0	195.0
80	189.0	183.0	175.5	169.5	160.5	151.5	142.5	130.5	118.5	105.0
85	82.5	79.5	75.0	70.5	64.5	58.5	52.5	46.5	40.5	36.0
90	18.0	16.5	15.0	12.0	10.5	7.5	4.5	3.0	0.0	0.0
95	16.5	15.0	13.5	12.0	9.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
5	1806.0	1800.0	1794.0	1789.5	1783.5	1777.5	1773.0	1767.0	1762.5	1758.0
10	1771.5	1758.0	1744.5	1731.0	1717.5	1704.0	1689.0	1675.5	1663.5	1651.5
15	1716.0	1695.0	1672.5	1648.5	1623.0	1597.5	1573.5	1548.0	1524.0	1501.5
20	1645.5	1614.0	1581.0	1545.0	1504.5	1465.5	1426.5	1384.5	1347.0	1308.0
25	1555.5	1513.5	1465.5	1416.0	1359.0	1302.0	1245.0	1188.0	1131.0	1080.0
30	1447.5	1392.0	1332.0	1266.0	1192.5	1116.0	1042.5	969.0	903.0	841.5
35	1318.5	1251.0	1177.5	1092.0	1006.5	919.5	832.5	751.5	682.5	621.0
40	1174.5	1096.5	1009.5	915.0	816.0	723.0	634.5	558.0	495.0	441.0
45	1015.5	927.0	832.5	735.0	634.5	546.0	468.0	403.5	352.5	310.5
50	847.5	757.5	663.0	567.0	477.0	402.0	337.5	288.0	250.5	220.5
55	679.5	594.0	498.0	427.5	352.5	292.5	246.0	208.5	181.5	162.0
60	508.5	451.5	375.0	310.5	255.0	211.5	177.0	151.5	132.0	118.5
65	384.0	327.0	271.5	223.5	183.0	151.5	127.5	109.5	97.5	87.0
70	267.0	226.5	187.5	154.5	126.0	105.0	90.0	76.5	67.5	61.5
75	169.5	144.0	123.0	99.0	81.0	67.5	58.5	49.5	45.0	40.5
80	91.5	76.5	63.0	52.5	43.5	37.5	31.5	27.0	24.0	22.5
85	31.5	27.0	22.5	18.0	15.0	13.5	12.0	10.5	9.0	9.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_HO\_359\_A2.IES**

**CANDELA TABULATION - (Cont.)**

<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
<b>5</b>	1755.0	1750.5	1749.0	1746.0	1744.5	1743.0	1743.0
<b>10</b>	1641.0	1632.0	1623.0	1617.0	1612.5	1609.5	1608.0
<b>15</b>	1480.5	1462.5	1446.0	1432.5	1423.5	1417.5	1416.0
<b>20</b>	1275.0	1245.0	1219.5	1198.5	1183.5	1174.5	1171.5
<b>25</b>	1033.5	993.0	960.0	933.0	913.5	901.5	898.5
<b>30</b>	787.5	742.5	706.5	679.5	658.5	646.5	643.5
<b>35</b>	568.5	528.0	495.0	471.0	454.5	445.5	442.5
<b>40</b>	399.0	366.0	340.5	322.5	310.5	303.0	300.0
<b>45</b>	279.0	255.0	238.5	225.0	217.5	213.0	211.5
<b>50</b>	198.0	183.0	171.0	162.0	157.5	154.5	153.0
<b>55</b>	145.5	135.0	127.5	121.5	118.5	115.5	115.5
<b>60</b>	108.0	100.5	94.5	91.5	88.5	87.0	87.0
<b>65</b>	79.5	75.0	70.5	67.5	66.0	64.5	64.5
<b>70</b>	55.5	52.5	49.5	48.0	46.5	46.5	45.0
<b>75</b>	37.5	34.5	33.0	31.5	30.0	30.0	30.0
<b>80</b>	21.0	19.5	18.0	18.0	16.5	16.5	16.5
<b>85</b>	7.5	7.5	7.5	7.5	6.0	6.0	6.0
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>100</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>105</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>110</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>115</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>120</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>125</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>130</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>135</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_HO\_359\_A2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	648.76	N.A.	16.10
0-30	1326.17	N.A.	32.90
0-40	2072.31	N.A.	51.40
0-60	3354.27	N.A.	83.20
0-80	3963.08	N.A.	98.30
0-90	4022.96	N.A.	99.80
10-90	3851.37	N.A.	95.50
20-40	1423.55	N.A.	35.30
20-50	2128.00	N.A.	52.80
40-70	1679.82	N.A.	41.70
60-80	608.81	N.A.	15.10
70-80	210.94	N.A.	5.20
80-90	59.88	N.A.	1.50
90-110	9.41	N.A.	0.20
90-120	9.41	N.A.	0.20
90-130	9.41	N.A.	0.20
90-150	9.41	N.A.	0.20
90-180	9.41	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	4032.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	171.59
10-20	477.17
20-30	677.40
30-40	746.15
40-50	704.45
50-60	577.51
60-70	397.87
70-80	210.94
80-90	59.88
90-100	7.97
100-110	1.44
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

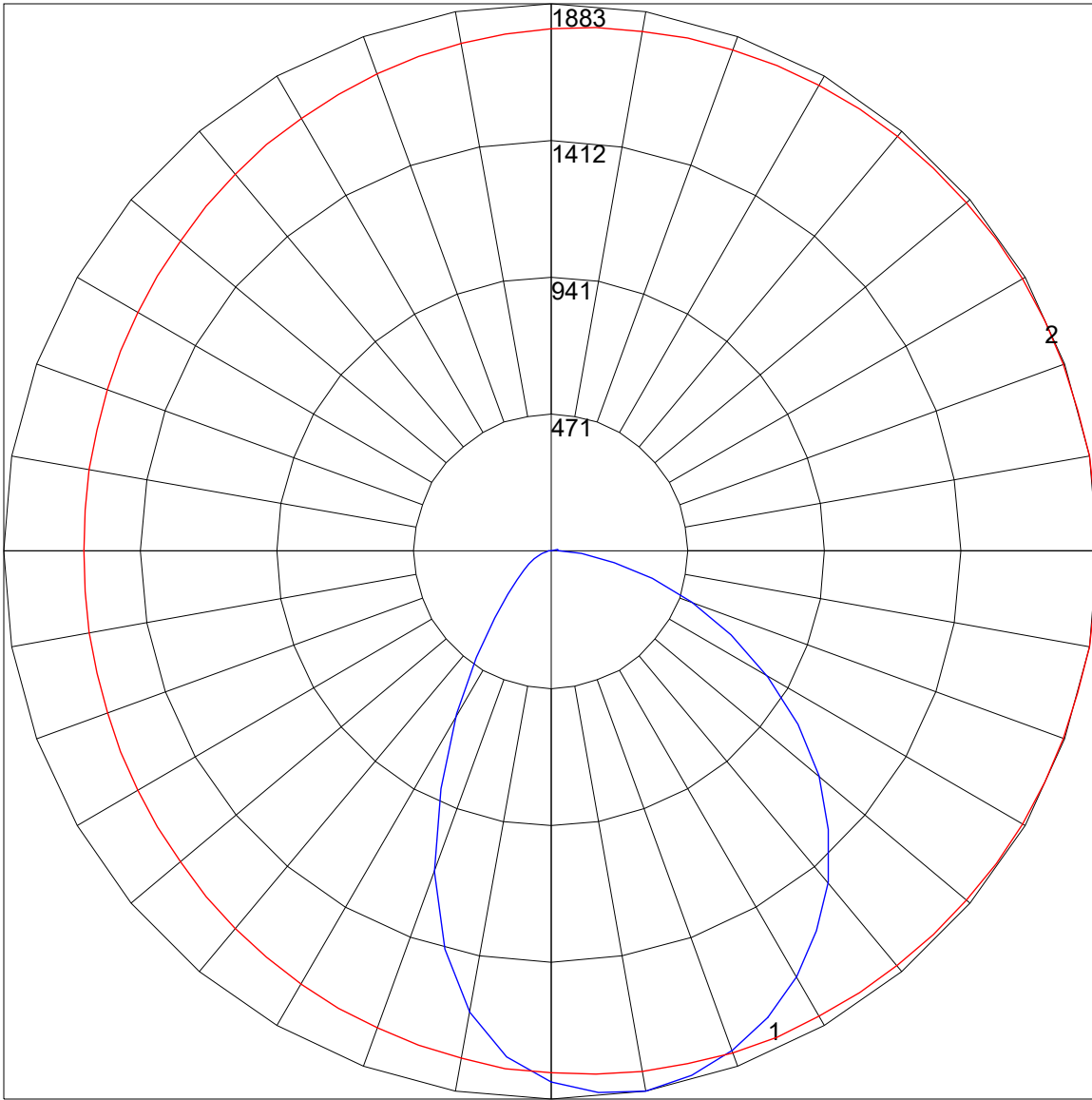
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_HO\_359\_A2.IES**

**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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 1882.5 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)