

#### 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	105	108	110	112
Total Lumens, 4' rail length (1219mm)	4110	4239	4326	4369
Lumens per foot (305mm)	1027	1060	1082	1092
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	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\_Z1\_HO\_359\_A2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911522 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z1-48-Z-HO-359-A2-AL

[LUMINAIRE] ZipOne LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 100° asymmetric lens, 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	4326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.24
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	98013	94096	75468
55	93273	87855	65715
65	84553	77999	53705
75	73860	66030	41236
85	66653	55028	26351

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**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>	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
<b>5</b>	2007.0	2007.0	2004.0	2004.0	2001.0	1999.5	1996.5	1993.5	1989.0	1983.0
<b>10</b>	2052.0	2052.0	2049.0	2047.5	2046.0	2041.5	2037.0	2031.0	2025.0	2017.5
<b>15</b>	2056.5	2056.5	2055.0	2053.5	2049.0	2046.0	2040.0	2035.5	2026.5	2019.0
<b>20</b>	2029.5	2028.0	2026.5	2026.5	2022.0	2019.0	2013.0	2007.0	1999.5	1992.0
<b>25</b>	1975.5	1975.5	1974.0	1972.5	1969.5	1965.0	1960.5	1954.5	1945.5	1936.5
<b>30</b>	1900.5	1899.0	1899.0	1896.0	1893.0	1888.5	1882.5	1876.5	1867.5	1860.0
<b>35</b>	1803.0	1801.5	1800.0	1797.0	1792.5	1786.5	1780.5	1774.5	1765.5	1755.0
<b>40</b>	1681.5	1681.5	1678.5	1675.5	1669.5	1665.0	1657.5	1648.5	1638.0	1627.5
<b>45</b>	1539.0	1537.5	1534.5	1531.5	1525.5	1518.0	1509.0	1500.0	1489.5	1477.5
<b>50</b>	1372.5	1371.0	1368.0	1363.5	1357.5	1350.0	1341.0	1330.5	1318.5	1305.0
<b>55</b>	1188.0	1186.5	1183.5	1179.0	1173.0	1164.0	1155.0	1143.0	1132.5	1119.0
<b>60</b>	993.0	991.5	988.5	984.0	978.0	970.5	961.5	949.5	937.5	925.5
<b>65</b>	793.5	793.5	790.5	786.0	780.0	774.0	765.0	756.0	744.0	732.0
<b>70</b>	601.5	601.5	598.5	595.5	589.5	583.5	576.0	567.0	558.0	547.5
<b>75</b>	424.5	424.5	421.5	418.5	414.0	409.5	403.5	396.0	387.0	379.5
<b>80</b>	262.5	262.5	261.0	258.0	255.0	250.5	246.0	241.5	234.0	228.0
<b>85</b>	129.0	129.0	129.0	126.0	124.5	121.5	118.5	114.0	109.5	106.5
<b>90</b>	43.5	43.5	42.0	42.0	40.5	39.0	36.0	34.5	33.0	30.0
<b>95</b>	0.0	0.0	0.0	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	0.0	0.0	0.0
<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. 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>	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
<b>5</b>	1978.5	1974.0	1968.0	1960.5	1953.0	1945.5	1936.5	1929.0	1920.0	1911.0
<b>10</b>	2008.5	1999.5	1989.0	1977.0	1963.5	1948.5	1930.5	1915.5	1896.0	1875.0
<b>15</b>	2008.5	1998.0	1983.0	1966.5	1950.0	1930.5	1906.5	1882.5	1854.0	1822.5
<b>20</b>	1980.0	1968.0	1953.0	1935.0	1915.5	1890.0	1861.5	1830.0	1792.5	1749.0
<b>25</b>	1926.0	1914.0	1897.5	1879.5	1857.0	1828.5	1797.0	1758.0	1711.5	1657.5
<b>30</b>	1848.0	1834.5	1819.5	1800.0	1776.0	1746.0	1710.0	1666.5	1611.0	1546.5
<b>35</b>	1744.5	1731.0	1714.5	1695.0	1671.0	1639.5	1600.5	1551.0	1486.5	1414.5
<b>40</b>	1615.5	1602.0	1585.5	1566.0	1542.0	1509.0	1467.0	1414.5	1345.5	1264.5
<b>45</b>	1464.0	1450.5	1432.5	1413.0	1387.5	1354.5	1314.0	1258.5	1185.0	1101.0
<b>50</b>	1291.5	1276.5	1258.5	1239.0	1213.5	1182.0	1138.5	1084.5	1015.5	925.5
<b>55</b>	1104.0	1089.0	1071.0	1051.5	1027.5	997.5	955.5	903.0	837.0	753.0
<b>60</b>	910.5	895.5	877.5	858.0	835.5	807.0	769.5	723.0	663.0	591.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	718.5	705.0	688.5	670.5	649.5	624.0	591.0	552.0	504.0	445.5
<b>70</b>	535.5	523.5	510.0	496.5	478.5	456.0	430.5	397.5	360.0	318.0
<b>75</b>	370.5	360.0	348.0	336.0	322.5	306.0	286.5	264.0	237.0	208.5
<b>80</b>	220.5	213.0	204.0	196.5	186.0	174.0	162.0	147.0	132.0	117.0
<b>85</b>	102.0	96.0	91.5	85.5	79.5	72.0	66.0	58.5	51.0	46.5
<b>90</b>	28.5	25.5	22.5	19.5	16.5	12.0	7.5	4.5	3.0	3.0
<b>95</b>	0.0	0.0	0.0	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	0.0	0.0	0.0
<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**

	<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>
<b>0</b>	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
<b>5</b>	1902.0	1893.0	1884.0	1875.0	1866.0	1857.0	1849.5	1840.5	1833.0	1827.0
<b>10</b>	1855.5	1833.0	1812.0	1789.5	1767.0	1746.0	1723.5	1702.5	1683.0	1665.0
<b>15</b>	1791.0	1755.0	1717.5	1680.0	1638.0	1600.5	1563.0	1524.0	1489.5	1456.5
<b>20</b>	1702.5	1653.0	1599.0	1542.0	1485.0	1428.0	1372.5	1315.5	1266.0	1218.0
<b>25</b>	1599.0	1531.5	1459.5	1384.5	1305.0	1231.5	1159.5	1089.0	1027.5	970.5
<b>30</b>	1473.0	1390.5	1300.5	1210.5	1114.5	1026.0	945.0	868.5	799.5	744.0
<b>35</b>	1329.0	1231.5	1129.5	1027.5	921.0	828.0	745.5	667.5	606.0	556.5
<b>40</b>	1170.0	1063.5	952.5	846.0	739.5	651.0	573.0	507.0	453.0	412.5
<b>45</b>	1002.0	892.5	780.0	678.0	579.0	501.0	436.5	381.0	339.0	307.5
<b>50</b>	828.0	723.0	622.5	531.0	450.0	384.0	330.0	288.0	258.0	232.5
<b>55</b>	664.5	571.5	484.5	406.5	343.5	292.5	252.0	220.5	196.5	180.0
<b>60</b>	513.0	441.0	369.0	310.5	261.0	222.0	192.0	169.5	153.0	139.5
<b>65</b>	387.0	330.0	276.0	229.5	195.0	166.5	144.0	127.5	115.5	106.5
<b>70</b>	274.5	234.0	196.5	166.5	139.5	123.0	105.0	94.5	85.5	78.0
<b>75</b>	181.5	154.5	130.5	111.0	94.5	81.0	72.0	64.5	58.5	54.0
<b>80</b>	102.0	88.5	75.0	64.5	55.5	48.0	43.5	39.0	34.5	33.0
<b>85</b>	40.5	36.0	31.5	27.0	24.0	22.5	19.5	18.0	16.5	15.0
<b>90</b>	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0
<b>95</b>	0.0	0.0	0.0	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	0.0	0.0	0.0
<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

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**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>	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
<b>5</b>	1819.5	1815.0	1810.5	1807.5	1804.5	1803.0	1801.5
<b>10</b>	1648.5	1633.5	1621.5	1612.5	1605.0	1600.5	1600.5
<b>15</b>	1428.0	1402.5	1381.5	1363.5	1351.5	1344.0	1341.0
<b>20</b>	1176.0	1140.0	1111.5	1087.5	1071.0	1060.5	1057.5
<b>25</b>	921.0	882.0	849.0	822.0	804.0	793.5	789.0
<b>30</b>	696.0	655.5	624.0	600.0	583.5	574.5	571.5
<b>35</b>	514.5	481.5	454.5	435.0	421.5	414.0	411.0
<b>40</b>	378.0	352.5	333.0	318.0	309.0	303.0	301.5
<b>45</b>	283.5	264.0	250.5	240.0	232.5	229.5	228.0
<b>50</b>	214.5	202.5	192.0	184.5	180.0	177.0	177.0
<b>55</b>	166.5	157.5	150.0	144.0	141.0	139.5	138.0
<b>60</b>	129.0	123.0	117.0	114.0	111.0	109.5	109.5
<b>65</b>	99.0	94.5	90.0	87.0	85.5	84.0	84.0
<b>70</b>	73.5	69.0	66.0	64.5	63.0	61.5	61.5
<b>75</b>	49.5	48.0	45.0	43.5	43.5	42.0	42.0
<b>80</b>	30.0	28.5	28.5	27.0	27.0	25.5	25.5
<b>85</b>	15.0	13.5	13.5	13.5	13.5	12.0	12.0
<b>90</b>	3.0	3.0	3.0	3.0	3.0	3.0	3.0
<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	679.51	N.A.	15.70
0-30	1384.17	N.A.	32.00
0-40	2169.8	N.A.	50.20
0-60	3558.01	N.A.	82.20
0-80	4247.29	N.A.	98.20
0-90	4322.19	N.A.	99.90
10-90	4141.34	N.A.	95.70
20-40	1490.29	N.A.	34.40
20-50	2246.47	N.A.	51.90
40-70	1833.96	N.A.	42.40
60-80	689.28	N.A.	15.90
70-80	243.53	N.A.	5.60
80-90	74.90	N.A.	1.70
90-110	4.27	N.A.	0.10
90-120	4.27	N.A.	0.10
90-130	4.27	N.A.	0.10
90-150	4.27	N.A.	0.10
90-180	4.27	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4326.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	180.85
10-20	498.66
20-30	704.66
30-40	785.64
40-50	756.18
50-60	632.03
60-70	445.75
70-80	243.53
80-90	74.90
90-100	4.27
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

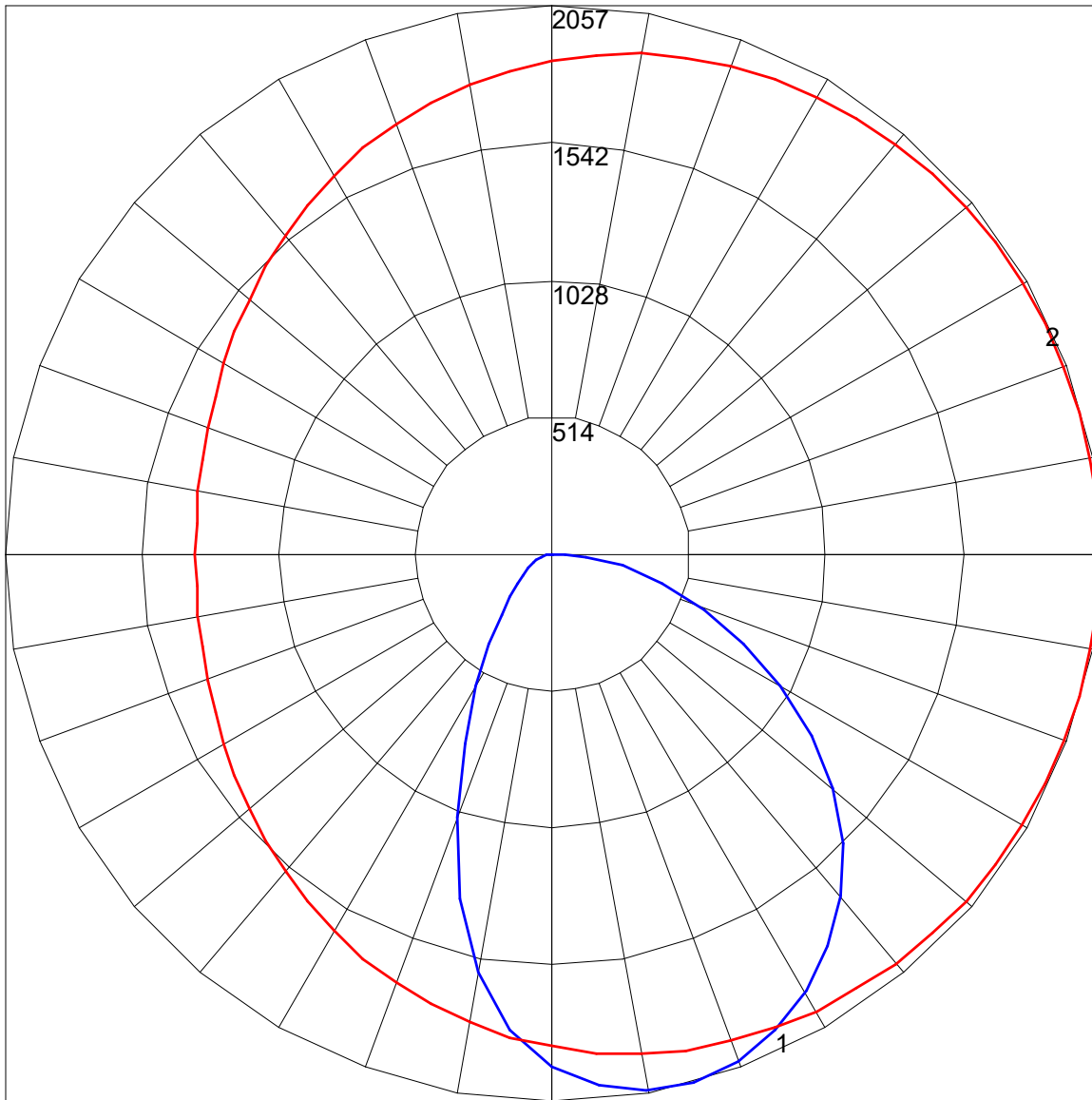
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_HO\_359\_A2.IES**

**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	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2056.5 Located At Horizontal Angle = 0, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)