

**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	91	94	96	98
Total Lumens, 4' rail length (1219mm)	4870	5024	5126	5229
Lumens per foot (305mm)	1217	1256	1282	1307
Input Power (W), 4' rail length (1219mm)	53.9	53.9	53.9	53.9
Watts per foot (305mm)	13.5	13.5	13.5	13.5
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\_Z9\_AC\_HO\_359\_C1.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-Z9-48-AC-Z-HO-359-C1  
[LUMINAIRE] ZipWave LED, 48", ceiling cove, 3500K, 90 CRI, zipper board,  
[MORE] clear lens w/edge softening, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	53.86
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	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	13.3	13.3	22.8	32.3	41.8	53.2	64.6	76.0	91.2	115.9
<b>100</b>	1193.2	1236.9	1354.7	1508.6	1645.4	1717.6	1700.5	1624.5	1514.3	1375.6
<b>105</b>	2175.5	2167.9	2143.2	2105.2	2052.0	1977.9	1890.5	1784.1	1658.7	1518.1
<b>110</b>	2249.6	2242.0	2217.3	2181.2	2129.9	2061.5	1977.9	1871.5	1742.3	1597.9
<b>115</b>	2299.0	2289.5	2270.5	2230.6	2175.5	2107.1	2025.4	1924.7	1808.8	1681.5
<b>120</b>	2323.7	2314.2	2297.1	2261.0	2211.6	2150.8	2074.8	1991.2	1901.9	1831.6
<b>125</b>	2352.2	2344.6	2329.4	2300.9	2261.0	2221.1	2183.1	2154.6	2105.2	1993.1
<b>130</b>	2460.5	2458.6	2452.9	2445.3	2426.3	2388.3	2321.8	2223.0	2093.8	1951.3
<b>135</b>	2517.5	2509.9	2487.1	2451.0	2395.9	2327.5	2240.1	2137.5	2015.9	1886.7
<b>140</b>	2388.3	2380.7	2359.8	2325.6	2272.4	2209.7	2131.8	2036.8	1928.5	1812.6
<b>145</b>	2242.0	2234.4	2215.4	2183.1	2137.5	2080.5	2010.2	1926.6	1829.7	1723.3
<b>150</b>	2076.7	2071.0	2053.9	2023.5	1981.7	1932.3	1869.6	1795.5	1708.1	1616.9
<b>155</b>	1884.8	1879.1	1863.9	1837.3	1801.2	1757.5	1704.3	1639.7	1567.5	1491.5
<b>160</b>	1662.5	1656.8	1645.4	1624.5	1596.0	1559.9	1518.1	1468.7	1411.7	1354.7
<b>165</b>	1426.9	1423.1	1415.5	1400.3	1379.4	1354.7	1326.2	1292.0	1255.9	1216.0
<b>170</b>	1204.6	1202.7	1198.9	1189.4	1178.0	1164.7	1149.5	1130.5	1107.7	1086.8
<b>175</b>	1018.4	1018.4	1016.5	1012.7	1008.9	1003.2	997.5	989.9	982.3	972.8
<b>180</b>	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8

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

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

**CANDELA TABULATION - (Cont.)**

<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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	159.6	296.4	475.0	514.9	402.8	286.9	178.6	119.7	47.5	34.2
<b>100</b>	1216.0	1045.0	860.7	668.8	520.6	395.2	330.6	214.7	134.9	77.9
<b>105</b>	1352.8	1166.6	974.7	798.0	674.5	592.8	437.0	305.9	207.1	148.2
<b>110</b>	1442.1	1271.1	1111.5	1018.4	879.7	668.8	528.2	393.3	290.7	220.4
<b>115</b>	1552.3	1444.0	1358.5	1162.8	953.8	760.0	604.2	476.9	370.5	296.4
<b>120</b>	1780.3	1635.9	1425.0	1206.5	1007.0	824.6	676.4	552.9	448.4	372.4
<b>125</b>	1829.7	1635.9	1434.5	1235.0	1050.7	881.6	741.0	623.2	520.6	446.5
<b>130</b>	1791.7	1615.0	1434.5	1252.1	1084.9	927.2	796.1	684.0	587.1	513.0
<b>135</b>	1744.2	1586.5	1421.2	1257.8	1105.8	963.3	841.7	737.2	644.1	575.7
<b>140</b>	1683.4	1542.8	1396.5	1252.1	1115.3	988.0	877.8	782.8	697.3	630.8
<b>145</b>	1609.3	1485.8	1356.6	1231.2	1113.4	1001.3	904.4	818.9	741.0	680.2
<b>150</b>	1518.1	1411.7	1303.4	1197.0	1098.2	1003.2	921.5	847.4	779.0	725.8
<b>155</b>	1409.8	1324.3	1236.9	1151.4	1073.5	997.5	929.1	866.4	811.3	763.8
<b>160</b>	1293.9	1229.3	1164.7	1100.1	1041.2	982.3	931.0	881.6	836.0	798.0
<b>165</b>	1174.2	1132.4	1088.7	1045.0	1003.2	963.3	925.3	889.2	856.9	826.5
<b>170</b>	1064.0	1039.3	1014.6	988.0	963.3	938.6	913.9	891.1	870.2	849.3
<b>175</b>	963.3	953.8	942.4	932.9	921.5	910.1	898.7	889.2	877.8	866.4
<b>180</b>	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8

**Vert. Horizontal Angles**

	<b><u>100</u></b>	<b><u>105</u></b>	<b><u>110</u></b>	<b><u>115</u></b>	<b><u>120</u></b>	<b><u>125</u></b>	<b><u>130</u></b>	<b><u>135</u></b>	<b><u>140</u></b>	<b><u>145</u></b>
<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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
<b>100</b>	83.6	81.7	77.9	76.0	72.2	70.3	70.3	68.4	68.4	66.5
<b>105</b>	134.9	136.8	134.9	129.2	123.5	119.7	115.9	114.0	110.2	108.3
<b>110</b>	184.3	190.0	190.0	186.2	180.5	174.8	169.1	163.4	159.6	157.7
<b>115</b>	248.9	237.5	243.2	241.3	237.5	231.8	226.1	218.5	214.7	209.0
<b>120</b>	319.2	286.9	288.8	290.7	290.7	286.9	281.2	275.5	269.8	266.0
<b>125</b>	387.6	347.7	328.7	332.5	336.3	336.3	332.5	328.7	323.0	319.2
<b>130</b>	454.1	410.4	380.0	370.5	374.3	376.2	378.1	376.2	372.4	370.5
<b>135</b>	516.8	471.2	438.9	416.1	408.5	412.3	414.2	416.1	414.2	414.2

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>140</b>	575.7	530.1	495.9	469.3	450.3	442.7	444.6	446.5	448.4	448.4
<b>145</b>	630.8	587.1	551.0	524.4	501.6	486.4	476.9	473.1	475.0	476.9
<b>150</b>	678.3	638.4	604.2	577.6	552.9	535.8	522.5	511.1	503.5	499.7
<b>155</b>	722.0	685.9	653.6	628.9	606.1	587.1	571.9	558.6	549.1	541.5
<b>160</b>	761.9	731.5	703.0	678.3	657.4	640.3	625.1	611.8	600.4	590.9
<b>165</b>	798.0	773.3	748.6	729.6	710.6	695.4	680.2	668.8	657.4	647.9
<b>170</b>	830.3	811.3	794.2	779.0	763.8	752.4	741.0	731.5	722.0	714.4
<b>175</b>	856.9	847.4	837.9	830.3	820.8	813.2	807.5	801.8	796.1	790.4
<b>180</b>	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8

**Vert. Horizontal Angles**  
**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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	34.2	34.2	34.2	34.2	32.3	32.3	32.3
<b>100</b>	66.5	64.6	64.6	64.6	62.7	62.7	62.7
<b>105</b>	106.4	104.5	104.5	102.6	102.6	100.7	100.7
<b>110</b>	153.9	152.0	150.1	148.2	146.3	146.3	146.3
<b>115</b>	205.2	203.3	199.5	197.6	195.7	195.7	193.8
<b>120</b>	260.3	256.5	254.6	250.8	248.9	248.9	248.9
<b>125</b>	315.4	311.6	307.8	305.9	304.0	302.1	302.1
<b>130</b>	366.7	362.9	361.0	359.1	357.2	355.3	355.3
<b>135</b>	412.3	410.4	408.5	406.6	404.7	404.7	404.7
<b>140</b>	448.4	448.4	448.4	446.5	446.5	446.5	446.5
<b>145</b>	478.8	478.8	478.8	478.8	478.8	478.8	478.8
<b>150</b>	497.8	499.7	501.6	501.6	501.6	501.6	503.5
<b>155</b>	535.8	530.1	528.2	526.3	524.4	522.5	522.5
<b>160</b>	583.3	577.6	573.8	570.0	568.1	566.2	566.2
<b>165</b>	642.2	634.6	628.9	625.1	623.2	621.3	621.3
<b>170</b>	706.8	701.1	697.3	693.5	691.6	689.7	687.8
<b>175</b>	786.6	782.8	779.0	777.1	775.2	775.2	775.2
<b>180</b>	877.8	877.8	877.8	877.8	877.8	877.8	877.8

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_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	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
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	0.00	N.A.	0.00
90-110	978.89	N.A.	19.10
90-120	1866.11	N.A.	36.40
90-130	2782.29	N.A.	54.30
90-150	4302.26	N.A.	83.90
90-180	5126.21	N.A.	100.00
110-180	4147.32	N.A.	80.90
0-180	5126.21	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	0.00
90-100	212.13
100-110	766.76
110-120	887.23
120-130	916.17
130-140	845.76
140-150	674.21
150-160	470.66
160-170	267.96
170-180	85.33

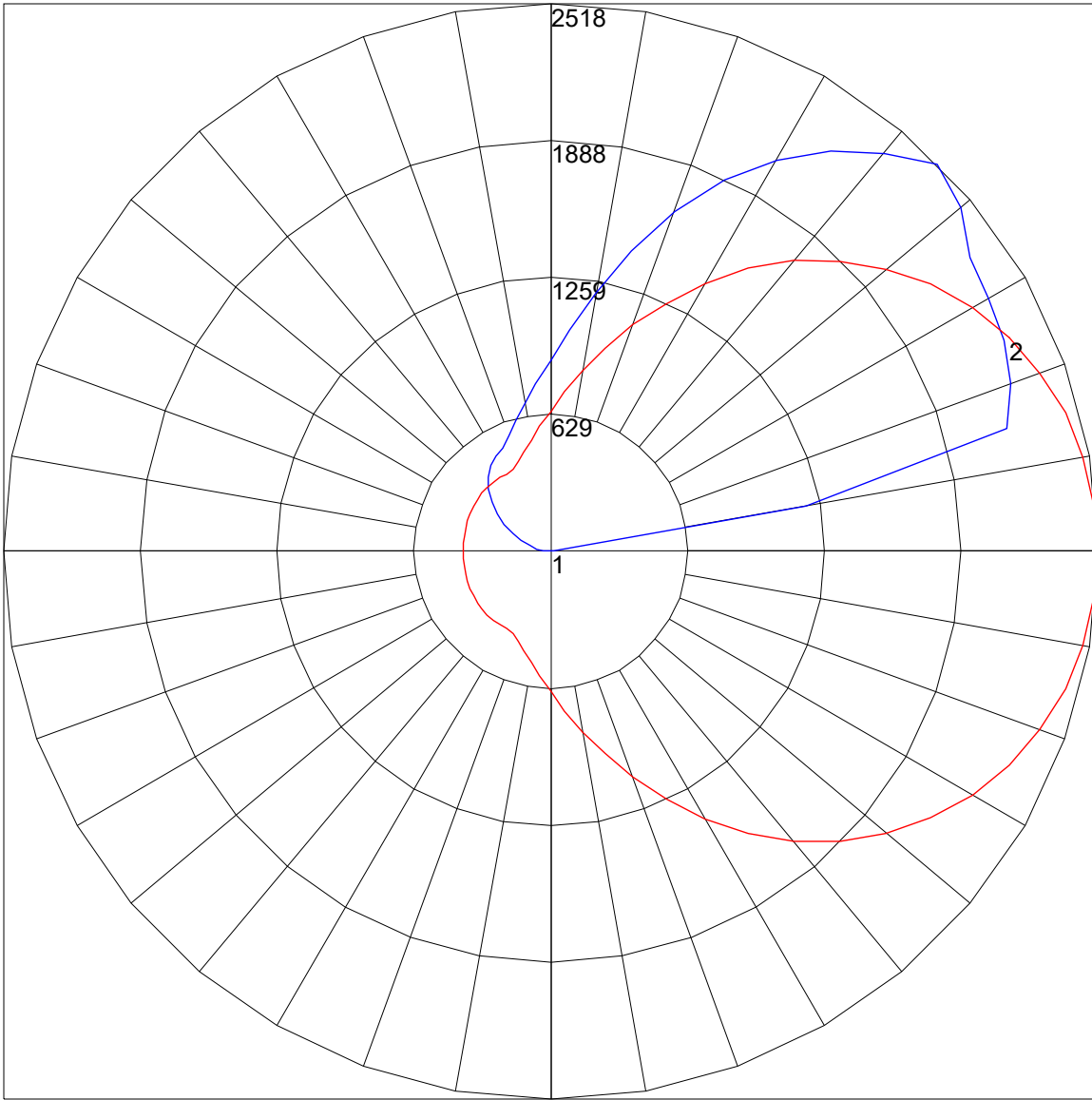
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_HO\_359\_C1.IES**

**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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	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	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	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	28	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 = 2517.5 Located At Horizontal Angle = 0, Vertical Angle = 135  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)