

## IES Report

ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 90 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-359-U2A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	101	104	106	110
Total Lumens, 4' rail length (1219mm)	10787	11128	11355	11469
Lumens per foot (305mm)	2697	2782	2839	2867
Lumens per foot UP (305mm)	1589	1639	1673	1605
Lumens per foot DOWN (305mm)	1108	1143	1166	1119
Input Power (W), 4' rail length (1219mm)	107.7	107.7	107.7	107.7
Watts per foot (305mm)	27	27	27	27
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_HO\_359\_U2A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010918 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-48-Z-HO-359-U2A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens with edgeglow

[MORE] up/85° asymmetric lens down, high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	107.66
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31601	32814	31148
55	26234	27920	27130
65	19971	21448	21420
75	13702	14896	15347
85	6059	6785	8847

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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>	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
<b>5</b>	2272.4	2272.4	2272.4	2270.5	2268.6	2266.7	2264.8	2261.0	2259.1	2253.4
<b>10</b>	2306.6	2306.6	2306.6	2304.7	2300.9	2299.0	2295.2	2289.5	2285.7	2278.1
<b>15</b>	2297.1	2297.1	2295.2	2295.2	2293.3	2289.5	2285.7	2281.9	2276.2	2266.7
<b>20</b>	2255.3	2253.4	2253.4	2251.5	2249.6	2247.7	2243.9	2240.1	2234.4	2228.7
<b>25</b>	2183.1	2183.1	2183.1	2181.2	2179.3	2177.4	2173.6	2169.8	2164.1	2158.4
<b>30</b>	2080.5	2082.4	2080.5	2080.5	2078.6	2076.7	2072.9	2069.1	2065.3	2059.6
<b>35</b>	1947.5	1947.5	1947.5	1947.5	1947.5	1945.6	1945.6	1943.7	1939.9	1934.2
<b>40</b>	1776.5	1776.5	1776.5	1778.4	1780.3	1780.3	1782.2	1780.3	1780.3	1778.4
<b>45</b>	1571.3	1571.3	1573.2	1573.2	1577.0	1578.9	1582.7	1584.6	1586.5	1586.5
<b>50</b>	1341.4	1341.4	1343.3	1345.2	1349.0	1350.9	1356.6	1360.4	1364.2	1368.0
<b>55</b>	1105.8	1105.8	1107.7	1109.6	1111.5	1115.3	1119.1	1122.9	1126.7	1132.4
<b>60</b>	875.9	875.9	877.8	879.7	881.6	883.5	887.3	889.2	893.0	896.8
<b>65</b>	665.0	665.0	666.9	666.9	668.8	670.7	672.6	674.5	674.5	676.4
<b>70</b>	480.7	480.7	482.6	482.6	482.6	484.5	484.5	484.5	486.4	488.3
<b>75</b>	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1
<b>80</b>	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	184.3	184.3
<b>85</b>	77.9	77.9	77.9	76.0	76.0	76.0	76.0	76.0	74.1	74.1
<b>90</b>	60.8	60.8	58.9	57.0	55.1	51.3	47.5	43.7	39.9	36.1
<b>95</b>	142.5	142.5	142.5	140.6	138.7	134.9	131.1	127.3	123.5	119.7
<b>100</b>	254.6	254.6	254.6	252.7	250.8	248.9	247.0	243.2	239.4	235.6
<b>105</b>	397.1	397.1	395.2	395.2	393.3	393.3	391.4	389.5	385.7	383.8
<b>110</b>	566.2	566.2	566.2	566.2	566.2	566.2	564.3	562.4	560.5	558.6
<b>115</b>	763.8	763.8	763.8	763.8	763.8	763.8	763.8	761.9	761.9	760.0
<b>120</b>	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3
<b>125</b>	1212.2	1212.2	1212.2	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1216.0
<b>130</b>	1440.2	1442.1	1442.1	1442.1	1442.1	1442.1	1444.0	1444.0	1444.0	1445.9
<b>135</b>	1656.8	1656.8	1656.8	1658.7	1658.7	1658.7	1660.6	1660.6	1660.6	1662.5
<b>140</b>	1852.5	1852.5	1852.5	1852.5	1852.5	1852.5	1854.4	1854.4	1854.4	1856.3
<b>145</b>	2021.6	2019.7	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6	2021.6
<b>150</b>	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2164.1	2162.2	2162.2
<b>155</b>	2278.1	2278.1	2278.1	2278.1	2278.1	2278.1	2278.1	2276.2	2276.2	2276.2
<b>160</b>	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2365.5	2365.5	2363.6
<b>165</b>	2433.9	2433.9	2433.9	2433.9	2433.9	2433.9	2432.0	2432.0	2432.0	2430.1
<b>170</b>	2477.6	2477.6	2477.6	2477.6	2477.6	2477.6	2475.7	2475.7	2475.7	2475.7
<b>175</b>	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5	2498.5
<b>180</b>	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4

**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>	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
<b>5</b>	2249.6	2243.9	2240.1	2232.5	2226.8	2221.1	2213.5	2205.9	2200.2	2192.6
<b>10</b>	2270.5	2264.8	2255.3	2243.9	2232.5	2219.2	2204.0	2190.7	2173.6	2156.5
<b>15</b>	2259.1	2249.6	2238.2	2224.9	2209.7	2192.6	2171.7	2150.8	2126.1	2095.7
<b>20</b>	2219.2	2209.7	2198.3	2183.1	2166.0	2145.1	2120.4	2091.9	2059.6	2019.7
<b>25</b>	2150.8	2141.3	2131.8	2114.7	2095.7	2074.8	2046.3	2012.1	1970.3	1922.8
<b>30</b>	2053.9	2044.4	2033.0	2019.7	2002.6	1976.0	1947.5	1909.5	1860.1	1801.2
<b>35</b>	1928.5	1922.8	1911.4	1900.0	1882.9	1856.3	1825.9	1784.1	1729.0	1660.6
<b>40</b>	1774.6	1768.9	1761.3	1748.0	1732.8	1710.0	1677.7	1634.0	1573.2	1499.1
<b>45</b>	1586.5	1584.6	1578.9	1569.4	1556.1	1533.3	1502.9	1457.3	1392.7	1312.9
<b>50</b>	1369.9	1369.9	1366.1	1360.4	1349.0	1330.0	1299.6	1257.8	1195.1	1113.4
<b>55</b>	1134.3	1138.1	1136.2	1132.4	1124.8	1107.7	1081.1	1043.1	986.1	904.4
<b>60</b>	898.7	900.6	900.6	898.7	891.1	879.7	856.9	822.7	773.3	703.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	678.3	678.3	676.4	674.5	668.8	659.3	640.3	617.5	575.7	518.7
<b>70</b>	486.4	484.5	482.6	478.8	473.1	465.5	452.2	431.3	400.9	359.1
<b>75</b>	319.2	319.2	315.4	311.6	305.9	300.2	288.8	275.5	254.6	229.9
<b>80</b>	182.4	180.5	178.6	174.8	171.0	165.3	159.6	150.1	138.7	123.5
<b>85</b>	74.1	74.1	72.2	70.3	68.4	64.6	60.8	57.0	51.3	45.6
<b>90</b>	32.3	28.5	22.8	19.0	15.2	11.4	9.5	5.7	3.8	3.8
<b>95</b>	114.0	108.3	102.6	98.8	93.1	87.4	83.6	79.8	76.0	74.1
<b>100</b>	231.8	226.1	222.3	216.6	210.9	207.1	201.4	197.6	191.9	190.0
<b>105</b>	380.0	376.2	372.4	368.6	362.9	359.1	353.4	349.6	345.8	340.1
<b>110</b>	556.7	554.8	551.0	547.2	543.4	539.6	535.8	530.1	526.3	520.6
<b>115</b>	758.1	756.2	754.3	752.4	748.6	746.7	741.0	737.2	733.4	725.8
<b>120</b>	980.4	980.4	978.5	978.5	974.7	972.8	969.0	965.2	959.5	953.8
<b>125</b>	1216.0	1216.0	1214.1	1214.1	1212.2	1210.3	1206.5	1202.7	1198.9	1191.3
<b>130</b>	1445.9	1445.9	1445.9	1445.9	1444.0	1442.1	1440.2	1436.4	1430.7	1425.0
<b>135</b>	1662.5	1662.5	1662.5	1662.5	1660.6	1658.7	1656.8	1653.0	1647.3	1643.5
<b>140</b>	1856.3	1856.3	1856.3	1854.4	1854.4	1852.5	1848.7	1844.9	1841.1	1837.3
<b>145</b>	2023.5	2023.5	2021.6	2019.7	2017.8	2015.9	2014.0	2010.2	2006.4	2002.6
<b>150</b>	2162.2	2162.2	2160.3	2158.4	2156.5	2154.6	2152.7	2148.9	2147.0	2143.2
<b>155</b>	2276.2	2274.3	2272.4	2270.5	2268.6	2266.7	2264.8	2262.9	2261.0	2257.2
<b>160</b>	2363.6	2363.6	2361.7	2359.8	2359.8	2356.0	2356.0	2352.2	2350.3	2348.4
<b>165</b>	2430.1	2428.2	2428.2	2426.3	2424.4	2424.4	2422.5	2420.6	2420.6	2418.7
<b>170</b>	2473.8	2473.8	2473.8	2471.9	2471.9	2470.0	2470.0	2470.0	2468.1	2466.2
<b>175</b>	2496.6	2496.6	2496.6	2496.6	2496.6	2494.7	2494.7	2494.7	2494.7	2494.7
<b>180</b>	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4

**Vert.  
Angles**

**Horizontal 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>	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
<b>5</b>	2183.1	2175.5	2167.9	2160.3	2150.8	2143.2	2135.6	2129.9	2122.3	2116.6
<b>10</b>	2137.5	2118.5	2097.6	2078.6	2057.7	2036.8	2017.8	1996.9	1979.8	1962.7
<b>15</b>	2067.2	2034.9	2000.7	1964.6	1928.5	1890.5	1854.4	1818.3	1784.1	1751.8
<b>20</b>	1977.9	1930.4	1881.0	1827.8	1770.8	1713.8	1656.8	1599.8	1546.6	1495.3
<b>25</b>	1867.7	1805.0	1734.7	1662.5	1584.6	1504.8	1425.0	1349.0	1280.6	1214.1
<b>30</b>	1732.8	1654.9	1567.5	1472.5	1369.9	1274.9	1179.9	1088.7	1007.0	934.8
<b>35</b>	1578.9	1483.9	1377.5	1267.3	1147.6	1037.4	932.9	837.9	756.2	684.0
<b>40</b>	1407.9	1297.7	1176.1	1054.5	927.2	813.2	710.6	617.5	543.4	482.6
<b>45</b>	1214.1	1098.2	970.9	845.5	720.1	613.7	522.5	440.8	380.0	328.7
<b>50</b>	1014.6	893.0	771.4	638.4	543.4	450.3	374.3	309.7	260.3	222.3
<b>55</b>	809.4	699.2	592.8	490.2	395.2	321.1	262.2	212.8	176.7	150.1
<b>60</b>	623.2	528.2	438.9	355.3	283.1	226.1	180.5	146.3	121.6	100.7
<b>65</b>	454.1	380.0	309.7	248.9	197.6	161.5	125.4	100.7	83.6	70.3
<b>70</b>	311.6	262.2	212.8	169.1	133.0	106.4	83.6	68.4	57.0	47.5
<b>75</b>	197.6	165.3	133.0	106.4	83.6	66.5	53.2	43.7	36.1	30.4
<b>80</b>	106.4	89.3	72.2	57.0	45.6	36.1	30.4	24.7	20.9	17.1
<b>85</b>	38.0	32.3	26.6	20.9	17.1	13.3	11.4	9.5	7.6	7.6
<b>90</b>	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	7.6	7.6
<b>95</b>	72.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	72.2
<b>100</b>	188.1	184.3	182.4	180.5	178.6	176.7	174.8	174.8	172.9	172.9
<b>105</b>	338.2	332.5	330.6	324.9	321.1	317.3	315.4	311.6	307.8	305.9
<b>110</b>	516.8	511.1	505.4	499.7	494.0	488.3	480.7	476.9	471.2	465.5
<b>115</b>	720.1	714.4	706.8	699.2	691.6	684.0	676.4	668.8	661.2	655.5
<b>120</b>	948.1	940.5	931.0	923.4	913.9	904.4	894.9	885.4	875.9	868.3
<b>125</b>	1185.6	1178.0	1168.5	1159.0	1147.6	1138.1	1126.7	1117.2	1107.7	1098.2
<b>130</b>	1419.3	1411.7	1402.2	1392.7	1383.2	1373.7	1362.3	1352.8	1343.3	1333.8
<b>135</b>	1635.9	1630.2	1622.6	1615.0	1605.5	1596.0	1586.5	1578.9	1569.4	1559.9

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	1831.6	1825.9	1820.2	1812.6	1805.0	1797.4	1789.8	1782.2	1774.6	1768.9
<b>145</b>	1998.8	1995.0	1989.3	1983.6	1977.9	1972.2	1966.5	1960.8	1955.1	1949.4
<b>150</b>	2139.4	2135.6	2131.8	2128.0	2124.2	2120.4	2114.7	2110.9	2107.1	2103.3
<b>155</b>	2255.3	2251.5	2249.6	2245.8	2243.9	2240.1	2236.3	2234.4	2230.6	2228.7
<b>160</b>	2346.5	2344.6	2342.7	2340.8	2338.9	2337.0	2333.2	2331.3	2329.4	2327.5
<b>165</b>	2416.8	2414.9	2413.0	2411.1	2409.2	2409.2	2407.3	2405.4	2405.4	2403.5
<b>170</b>	2466.2	2464.3	2464.3	2462.4	2462.4	2460.5	2460.5	2458.6	2458.6	2458.6
<b>175</b>	2494.7	2492.8	2492.8	2492.8	2492.8	2490.9	2490.9	2490.9	2490.9	2490.9
<b>180</b>	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4

**Vert.  
Angles**

**Horizontal Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
<b>5</b>	2112.8	2107.1	2103.3	2099.5	2097.6	2095.7	2095.7
<b>10</b>	1947.5	1934.2	1920.9	1913.3	1905.7	1901.9	1900.0
<b>15</b>	1721.4	1694.8	1673.9	1656.8	1643.5	1634.0	1632.1
<b>20</b>	1449.7	1411.7	1377.5	1350.9	1331.9	1320.5	1316.7
<b>25</b>	1155.2	1107.7	1067.8	1033.6	1010.8	997.5	993.7
<b>30</b>	872.1	818.9	779.0	746.7	723.9	708.7	704.9
<b>35</b>	625.1	577.6	541.5	511.1	492.1	478.8	475.0
<b>40</b>	431.3	393.3	361.0	338.2	323.0	313.5	309.7
<b>45</b>	290.7	260.3	235.6	218.5	207.1	201.4	197.6
<b>50</b>	193.8	171.0	153.9	142.5	134.9	129.2	127.3
<b>55</b>	127.3	112.1	100.7	93.1	87.4	85.5	83.6
<b>60</b>	87.4	76.0	68.4	62.7	60.8	57.0	57.0
<b>65</b>	58.9	53.2	47.5	43.7	41.8	39.9	39.9
<b>70</b>	39.9	36.1	32.3	30.4	28.5	28.5	26.6
<b>75</b>	26.6	22.8	20.9	20.9	19.0	19.0	19.0
<b>80</b>	15.2	13.3	13.3	11.4	11.4	11.4	11.4
<b>85</b>	5.7	5.7	5.7	5.7	5.7	5.7	5.7
<b>90</b>	7.6	9.5	9.5	9.5	11.4	11.4	11.4
<b>95</b>	72.2	72.2	72.2	72.2	72.2	72.2	74.1
<b>100</b>	171.0	171.0	169.1	169.1	169.1	169.1	169.1
<b>105</b>	302.1	300.2	298.3	296.4	296.4	296.4	294.5
<b>110</b>	461.7	457.9	456.0	452.2	450.3	450.3	450.3
<b>115</b>	649.8	644.1	640.3	636.5	634.6	632.7	632.7
<b>120</b>	860.7	855.0	849.3	845.5	841.7	839.8	837.9
<b>125</b>	1090.6	1083.0	1077.3	1071.6	1067.8	1065.9	1065.9
<b>130</b>	1324.3	1318.6	1311.0	1307.2	1303.4	1301.5	1299.6
<b>135</b>	1554.2	1546.6	1540.9	1535.2	1533.3	1531.4	1529.5
<b>140</b>	1761.3	1755.6	1751.8	1748.0	1744.2	1742.3	1742.3
<b>145</b>	1943.7	1941.8	1938.0	1934.2	1932.3	1930.4	1930.4
<b>150</b>	2099.5	2095.7	2091.9	2090.0	2088.1	2088.1	2088.1
<b>155</b>	2224.9	2223.0	2221.1	2219.2	2219.2	2217.3	2217.3
<b>160</b>	2325.6	2325.6	2323.7	2321.8	2321.8	2319.9	2319.9
<b>165</b>	2403.5	2401.6	2401.6	2401.6	2399.7	2399.7	2397.8
<b>170</b>	2456.7	2456.7	2456.7	2456.7	2454.8	2454.8	2454.8
<b>175</b>	2490.9	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0
<b>180</b>	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_HO\_359\_U2A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	782.07	N.A.	6.90
0-30	1594.83	N.A.	14.00
0-40	2488.57	N.A.	21.90
0-60	3970.51	N.A.	35.00
0-80	4604.26	N.A.	40.50
0-90	4663.9	N.A.	41.10
10-90	4456.44	N.A.	39.20
20-40	1706.49	N.A.	15.00
20-50	2536.54	N.A.	22.30
40-70	1904.74	N.A.	16.80
60-80	633.75	N.A.	5.60
70-80	210.95	N.A.	1.90
80-90	59.64	N.A.	0.50
90-110	485.17	N.A.	4.30
90-120	1198.15	N.A.	10.60
90-130	2242.27	N.A.	19.70
90-150	4733.13	N.A.	41.70
90-180	6691.27	N.A.	58.90
110-180	6206.1	N.A.	54.70
0-180	11355.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	207.46
10-20	574.62
20-30	812.76
30-40	893.74
40-50	830.04
50-60	651.90
60-70	422.80
70-80	210.95
80-90	59.64
90-100	112.09
100-110	373.08
110-120	712.98
120-130	1044.12
130-140	1247.25
140-150	1243.61
150-160	1038.34
160-170	682.61
170-180	237.20

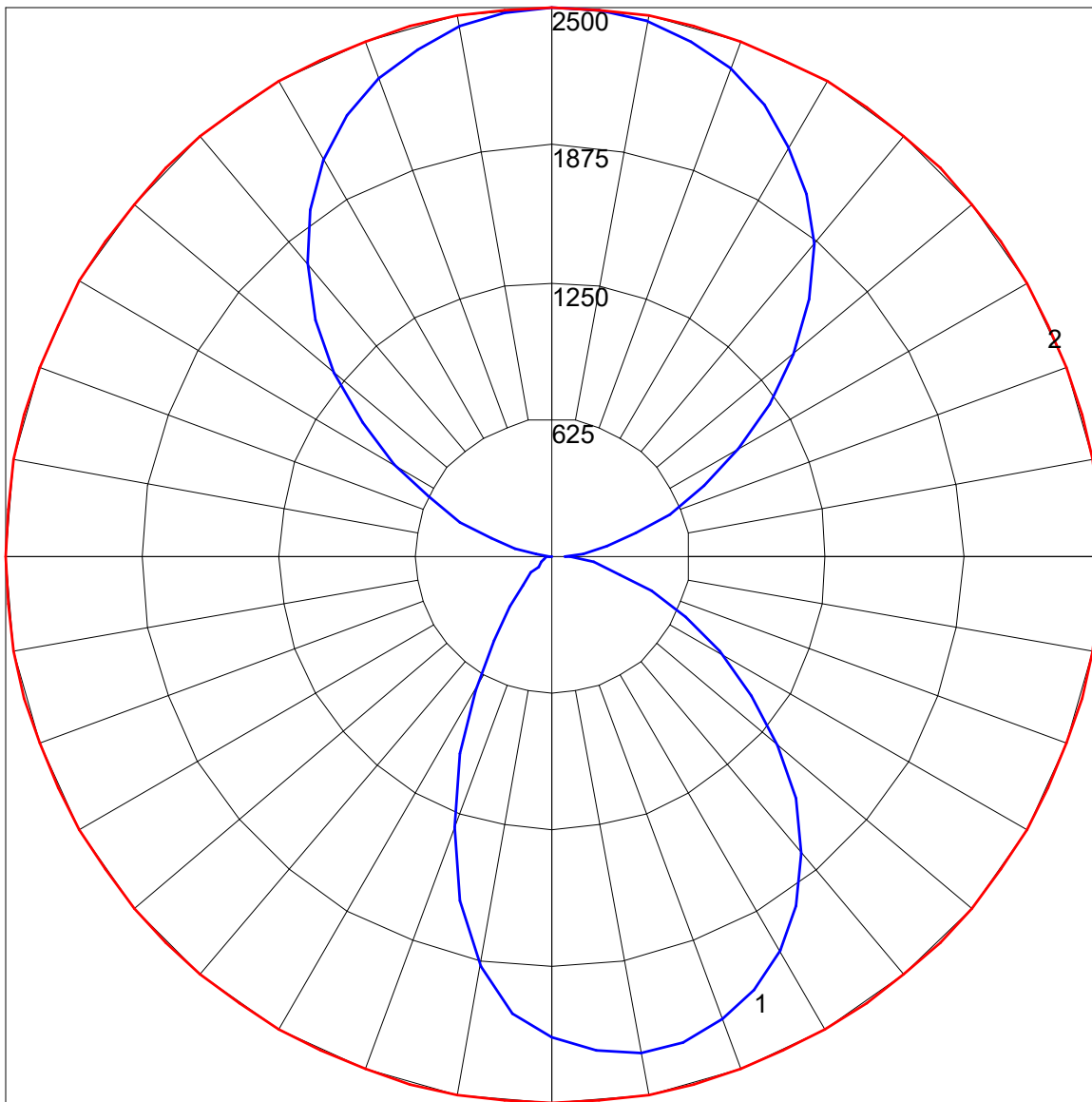
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_HO\_359\_U2A1\_BL.IES**

**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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	58	54	49	47	45	38	37	35	30
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	28	27	23
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	23	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	21	19	17	14
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	18	16	14	12

POLAR GRAPH



Maximum Candela = 2500.4 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)