

IES Report

ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 80 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-35-U2A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	105
Total Lumens, 4' rail length (1219mm)	10461	10791	11011	11231
Lumens per foot (305mm)	2615	2698	2753	2808
Lumens per foot UP (305mm)	1645	1697	1732	1678
Lumens per foot DOWN (305mm)	970	1001	1021	990
Input Power (W), 4' rail length (1219mm)	107.2	107.2	107.2	107.2
Watts per foot (305mm)	26.8	26.8	26.8	26.8
CRI	85	85	85	85

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_Z3_HO_35_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704237 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z3-48-Z-HO-35-U2A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board,
[MORE] symmetric w/edgeglow up/85 deg asymmetric down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10776
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	107.2
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.19 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	32505	32097	19943
55	27786	28221	17872
65	21078	21944	14648
75	13712	14700	10798
85	4725	5314	6110

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>
0	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6
5	1722.6	1720.4	1718.2	1713.8	1709.4	1700.6	1691.8	1683.0	1669.8	1656.6
10	1949.2	1947.0	1942.6	1933.8	1922.8	1907.4	1892.0	1870.0	1848.0	1821.6
15	2116.4	2114.2	2107.6	2098.8	2083.4	2065.8	2043.8	2015.2	1984.4	1949.2
20	2215.4	2213.2	2206.6	2195.6	2182.4	2162.6	2138.4	2109.8	2076.8	2035.0
25	2248.4	2246.2	2239.6	2230.8	2217.6	2200.0	2175.8	2149.4	2114.2	2074.6
30	2219.8	2217.6	2213.2	2204.4	2193.4	2178.0	2158.2	2131.8	2103.2	2065.8
35	2129.6	2129.6	2125.2	2118.6	2109.8	2098.8	2081.2	2061.4	2035.0	2002.0
40	1982.2	1982.2	1980.0	1975.6	1969.0	1960.2	1949.2	1933.8	1914.0	1887.6
45	1786.4	1784.2	1784.2	1782.0	1777.6	1773.2	1764.4	1753.4	1740.2	1720.4
50	1548.8	1548.8	1548.8	1546.6	1544.4	1542.2	1537.8	1531.2	1522.4	1509.2
55	1289.2	1289.2	1289.2	1287.0	1287.0	1284.8	1282.6	1278.2	1273.8	1265.0
60	1023.0	1023.0	1023.0	1023.0	1023.0	1020.8	1020.8	1018.6	1014.2	1009.8
65	767.8	770.0	770.0	770.0	770.0	767.8	767.8	767.8	763.4	761.2
70	545.6	545.6	545.6	545.6	545.6	545.6	545.6	543.4	543.4	541.2
75	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	347.6	345.4
80	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	182.6
85	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	61.6
90	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	2.2
95	57.2	57.2	59.4	59.4	59.4	59.4	61.6	61.6	63.8	63.8
100	156.2	156.2	156.2	158.4	160.6	162.8	165.0	167.2	169.4	173.8
105	286.0	286.0	288.2	290.4	292.6	297.0	301.4	305.8	310.2	314.6
110	448.8	448.8	451.0	453.2	457.6	462.0	468.6	475.2	481.8	488.4
115	642.4	644.6	646.8	649.0	655.6	662.2	666.6	675.4	682.0	690.8
120	866.8	866.8	869.0	873.4	880.0	884.4	893.2	899.8	908.6	917.4
125	1106.6	1106.6	1108.8	1113.2	1117.6	1124.2	1130.8	1137.4	1146.2	1152.8
130	1344.2	1346.4	1346.4	1350.8	1355.2	1359.6	1366.2	1372.8	1381.6	1390.4
135	1568.6	1568.6	1570.8	1573.0	1577.4	1581.8	1588.4	1595.0	1601.6	1610.4
140	1773.2	1773.2	1775.4	1777.6	1779.8	1784.2	1790.8	1795.2	1799.6	1806.2
145	1951.4	1953.6	1953.6	1955.8	1958.0	1960.2	1962.4	1966.8	1971.2	1973.4
150	2103.2	2103.2	2103.2	2105.4	2105.4	2107.6	2107.6	2109.8	2114.2	2116.4
155	2224.2	2224.2	2224.2	2224.2	2226.4	2228.6	2228.6	2230.8	2233.0	2235.2
160	2323.2	2323.2	2323.2	2323.2	2323.2	2325.4	2325.4	2327.6	2329.8	2332.0
165	2400.2	2400.2	2400.2	2400.2	2402.4	2402.4	2404.6	2406.8	2406.8	2409.0
170	2459.6	2459.6	2461.8	2461.8	2461.8	2461.8	2464.0	2464.0	2466.2	2468.4
175	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2505.8	2505.8	2505.8
180	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4

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>
0	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6
5	1643.4	1628.0	1610.4	1592.8	1575.2	1557.6	1537.8	1518.0	1498.2	1478.4
10	1790.8	1757.8	1724.8	1687.4	1650.0	1608.2	1568.6	1526.8	1482.8	1441.0
15	1909.6	1865.6	1815.0	1760.0	1705.0	1643.4	1584.0	1518.0	1452.0	1388.2
20	1991.0	1936.0	1876.6	1810.6	1740.2	1661.0	1579.6	1496.0	1410.2	1326.6
25	2026.2	1971.2	1905.2	1832.6	1751.2	1658.8	1559.8	1460.8	1355.2	1251.8
30	2019.6	1964.6	1898.6	1821.6	1735.8	1634.6	1522.4	1408.0	1289.2	1168.2
35	1962.4	1911.8	1850.2	1775.4	1687.4	1584.0	1465.2	1337.6	1203.4	1073.6
40	1852.4	1810.6	1755.6	1687.4	1606.0	1502.6	1381.6	1249.6	1111.0	963.6
45	1694.0	1661.0	1617.0	1557.6	1485.0	1392.6	1273.8	1137.4	996.6	847.0
50	1491.6	1467.4	1434.4	1388.2	1324.4	1243.0	1135.2	1009.8	866.8	726.0
55	1254.0	1236.4	1214.4	1179.2	1128.6	1060.4	968.0	858.0	726.0	598.4
60	1003.2	992.2	974.6	948.2	910.8	858.0	783.2	693.0	585.2	475.2

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CANDELA TABULATION - (Cont.)

65	756.8	748.0	737.0	715.0	693.0	653.4	598.4	528.0	440.0	358.6
70	536.8	530.2	521.4	510.4	490.6	462.0	422.4	371.8	312.4	253.0
75	343.2	341.0	334.4	325.6	314.6	297.0	270.6	239.8	200.2	165.0
80	182.6	180.4	178.2	173.8	169.4	158.4	147.4	129.8	110.0	92.4
85	61.6	61.6	61.6	61.6	59.4	57.2	52.8	46.2	39.6	35.2
90	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	8.8
95	66.0	66.0	68.2	68.2	70.4	72.6	74.8	74.8	77.0	81.4
100	176.0	178.2	182.6	184.8	189.2	191.4	193.6	195.8	198.0	202.4
105	321.2	325.6	330.0	336.6	341.0	343.2	347.6	349.8	354.2	356.4
110	495.0	503.8	510.4	514.8	521.4	525.8	530.2	532.4	536.8	541.2
115	699.6	708.4	717.2	723.8	730.4	734.8	739.2	743.6	748.0	752.4
120	926.2	935.0	943.8	950.4	957.0	963.6	968.0	974.6	981.2	985.6
125	1161.6	1172.6	1179.2	1188.0	1194.6	1199.0	1205.6	1212.2	1218.8	1223.2
130	1397.0	1405.8	1412.4	1419.0	1425.6	1430.0	1436.6	1443.2	1452.0	1456.4
135	1617.0	1623.6	1628.0	1632.4	1639.0	1645.6	1652.2	1658.8	1665.4	1674.2
140	1810.6	1815.0	1819.4	1823.8	1830.4	1837.0	1843.6	1850.2	1856.8	1865.6
145	1977.8	1982.2	1984.4	1991.0	1995.4	2002.0	2008.6	2015.2	2021.8	2030.6
150	2118.6	2123.0	2127.4	2131.8	2136.2	2142.8	2147.2	2153.8	2160.4	2167.0
155	2237.4	2241.8	2244.0	2248.4	2252.8	2257.2	2263.8	2270.4	2274.8	2281.4
160	2334.2	2338.6	2340.8	2345.2	2349.6	2354.0	2358.4	2362.8	2367.2	2371.6
165	2411.2	2413.4	2417.8	2420.0	2424.4	2426.6	2431.0	2433.2	2437.6	2442.0
170	2468.4	2470.6	2472.8	2475.0	2477.2	2479.4	2483.8	2486.0	2488.2	2490.4
175	2508.0	2508.0	2510.2	2510.2	2512.4	2512.4	2514.6	2514.6	2516.8	2516.8
180	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6
5	1460.8	1441.0	1421.2	1403.6	1386.0	1370.6	1353.0	1339.8	1326.6	1315.6
10	1397.0	1355.2	1313.4	1276.0	1236.4	1203.4	1172.6	1141.8	1115.4	1091.2
15	1326.6	1260.6	1201.2	1144.0	1089.0	1040.6	994.4	952.6	917.4	886.6
20	1243.0	1159.4	1082.4	1009.8	941.6	882.2	831.6	783.2	743.6	708.4
25	1150.6	1051.6	959.2	877.8	803.0	739.2	684.2	633.6	591.8	558.8
30	1051.6	937.2	838.2	752.4	671.0	607.2	552.2	503.8	464.2	429.0
35	941.6	822.8	719.4	631.4	552.2	488.4	435.6	391.6	354.2	323.4
40	829.4	710.6	607.2	521.4	444.4	387.2	338.8	299.2	266.2	242.0
45	715.0	594.0	497.2	415.8	352.0	299.2	257.4	224.4	200.2	184.8
50	598.4	488.4	393.8	325.6	270.6	228.8	195.8	171.6	156.2	143.0
55	484.0	387.2	310.2	250.8	204.6	178.2	151.8	134.2	123.2	116.6
60	378.4	299.2	235.4	191.4	156.2	134.2	118.8	107.8	99.0	94.6
65	283.8	222.2	180.4	143.0	118.8	103.4	92.4	83.6	79.2	74.8
70	202.4	158.4	127.6	105.6	88.0	77.0	70.4	63.8	59.4	57.2
75	132.0	105.6	85.8	72.6	61.6	52.8	48.4	44.0	41.8	39.6
80	74.8	61.6	50.6	41.8	37.4	33.0	28.6	26.4	26.4	24.2
85	30.8	24.2	22.0	17.6	15.4	15.4	13.2	13.2	11.0	11.0
90	11.0	13.2	17.6	19.8	24.2	28.6	33.0	37.4	41.8	46.2
95	83.6	88.0	92.4	96.8	101.2	105.6	110.0	114.4	118.8	123.2
100	204.6	209.0	211.2	215.6	220.0	222.2	226.6	228.8	233.2	235.4
105	358.6	363.0	365.2	367.4	371.8	374.0	376.2	378.4	380.6	382.8
110	543.4	545.6	547.8	550.0	552.2	554.4	556.6	558.8	558.8	561.0
115	756.8	759.0	759.0	761.2	761.2	763.4	763.4	765.6	765.6	767.8
120	990.0	990.0	992.2	992.2	992.2	994.4	994.4	996.6	996.6	996.6
125	1227.6	1232.0	1232.0	1232.0	1234.2	1234.2	1234.2	1236.4	1236.4	1236.4
130	1463.0	1467.4	1469.6	1469.6	1471.8	1471.8	1471.8	1474.0	1474.0	1474.0
135	1678.6	1685.2	1687.4	1689.6	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8

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CANDELA TABULATION - (Cont.)

140	1870.0	1876.6	1881.0	1883.2	1885.4	1885.4	1887.6	1887.6	1887.6	1887.6
145	2035.0	2041.6	2046.0	2048.2	2050.4	2052.6	2054.8	2057.0	2057.0	2057.0
150	2173.6	2180.2	2184.6	2186.8	2191.2	2193.4	2195.6	2197.8	2197.8	2200.0
155	2288.0	2292.4	2296.8	2301.2	2303.4	2307.8	2307.8	2312.2	2312.2	2314.4
160	2378.2	2380.4	2384.8	2389.2	2393.6	2395.8	2398.0	2400.2	2402.4	2404.6
165	2446.4	2448.6	2453.0	2455.2	2459.6	2461.8	2464.0	2466.2	2468.4	2468.4
170	2492.6	2494.8	2497.0	2499.2	2501.4	2503.6	2505.8	2508.0	2508.0	2510.2
175	2519.0	2519.0	2521.2	2521.2	2523.4	2523.4	2525.6	2525.6	2527.8	2527.8
180	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4

Vert. Angles Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6	1502.6
5	1304.6	1295.8	1287.0	1282.6	1278.2	1276.0	1273.8
10	1071.4	1053.8	1038.4	1027.4	1020.8	1014.2	1014.2
15	860.2	838.2	818.4	805.2	794.2	789.8	787.6
20	679.8	655.6	635.8	622.6	611.6	605.0	602.8
25	528.0	506.0	486.2	470.8	462.0	455.4	453.2
30	402.6	380.6	363.0	349.8	338.8	334.4	332.2
35	299.2	279.4	264.0	253.0	246.4	242.0	239.8
40	222.2	206.8	195.8	189.2	184.8	182.6	180.4
45	169.4	160.6	154.0	149.6	145.2	143.0	143.0
50	134.2	129.8	125.4	121.0	118.8	118.8	118.8
55	110.0	105.6	103.4	101.2	101.2	99.0	99.0
60	90.2	88.0	85.8	83.6	83.6	81.4	81.4
65	72.6	70.4	68.2	66.0	66.0	66.0	66.0
70	55.0	52.8	50.6	50.6	50.6	48.4	48.4
75	37.4	37.4	35.2	35.2	35.2	35.2	33.0
80	24.2	22.0	22.0	22.0	22.0	19.8	19.8
85	11.0	11.0	11.0	11.0	11.0	8.8	8.8
90	48.4	52.8	55.0	57.2	59.4	61.6	61.6
95	125.4	129.8	132.0	134.2	136.4	136.4	136.4
100	239.8	242.0	242.0	244.2	246.4	246.4	246.4
105	385.0	385.0	387.2	387.2	387.2	387.2	387.2
110	561.0	561.0	561.0	561.0	561.0	561.0	561.0
115	767.8	767.8	767.8	767.8	765.6	765.6	765.6
120	996.6	996.6	996.6	996.6	996.6	996.6	996.6
125	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
130	1474.0	1474.0	1474.0	1474.0	1474.0	1474.0	1474.0
135	1691.8	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0
140	1887.6	1887.6	1889.8	1889.8	1889.8	1889.8	1889.8
145	2057.0	2059.2	2059.2	2059.2	2059.2	2059.2	2059.2
150	2200.0	2202.2	2202.2	2202.2	2202.2	2204.4	2202.2
155	2316.6	2316.6	2318.8	2318.8	2318.8	2318.8	2318.8
160	2406.8	2406.8	2406.8	2409.0	2409.0	2409.0	2409.0
165	2470.6	2470.6	2472.8	2472.8	2472.8	2472.8	2475.0
170	2510.2	2512.4	2512.4	2514.6	2514.6	2514.6	2514.6
175	2527.8	2527.8	2527.8	2527.8	2530.0	2530.0	2530.0
180	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	552.35	N.A.	5.10
0-30	1175.82	N.A.	10.90
0-40	1922.77	N.A.	17.80
0-60	3305.58	N.A.	30.70
0-80	3942.22	N.A.	36.60
0-90	3997.53	N.A.	37.10
10-90	3855.05	N.A.	35.80
20-40	1370.42	N.A.	12.70
20-50	2122.28	N.A.	19.70
40-70	1808.15	N.A.	16.80
60-80	636.64	N.A.	5.90
70-80	211.30	N.A.	2.00
80-90	55.30	N.A.	0.50
90-110	481.79	N.A.	4.50
90-120	1207.67	N.A.	11.20
90-130	2275.82	N.A.	21.10
90-150	4803.64	N.A.	44.60
90-180	6778.27	N.A.	62.90
110-180	6296.48	N.A.	58.40
0-180	10775.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.48
10-20	409.87
20-30	623.47
30-40	746.95
40-50	751.86
50-60	630.95
60-70	425.34
70-80	211.30
80-90	55.30
90-100	108.41
100-110	373.38
110-120	725.88
120-130	1068.15
130-140	1269.57
140-150	1258.25
150-160	1047.31
160-170	688.07
170-180	239.25

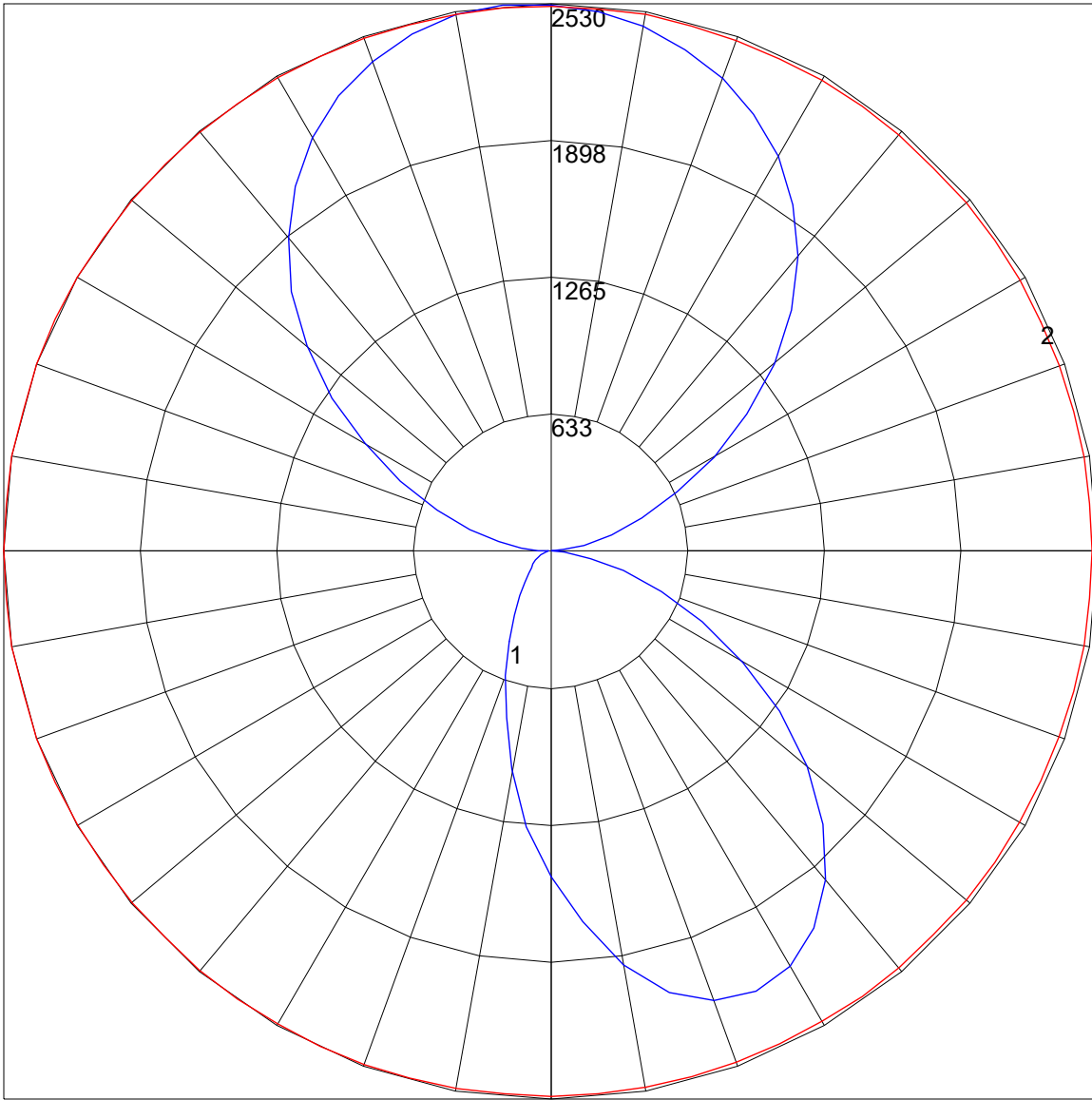
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1.IES

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	39	38	38	32
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

POLAR GRAPH



Maximum Candela = 2530 Located At Horizontal Angle = 170, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)