

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-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	93
Total Lumens, 4' rail length (1219mm)	9018	9302	9492	9682
Lumens per foot (305mm)	2254	2326	2373	2421
Lumens per foot UP (305mm)	1418	1463	1493	1446
Lumens per foot DOWN (305mm)	836	863	880	853
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	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_Z3_HO_359_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-359-U2A1

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 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	9502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	28664	28303	17586
55	24503	24885	15760
65	18587	19351	12917
75	12092	12963	9521
85	4167	4686	5388

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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>
0	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02
5	1519.02	1517.08	1515.14	1511.26	1507.38	1499.62	1491.86	1484.10	1472.46	1460.82
10	1718.84	1716.90	1713.02	1705.26	1695.56	1681.98	1668.40	1649.00	1629.60	1606.32
15	1866.28	1864.34	1858.52	1850.76	1837.18	1821.66	1802.26	1777.04	1749.88	1718.84
20	1953.58	1951.64	1945.82	1936.12	1924.48	1907.02	1885.68	1860.46	1831.36	1794.50
25	1982.68	1980.74	1974.92	1967.16	1955.52	1940.00	1918.66	1895.38	1864.34	1829.42
30	1957.46	1955.52	1951.64	1943.88	1934.18	1920.60	1903.14	1879.86	1854.64	1821.66
35	1877.92	1877.92	1874.04	1868.22	1860.46	1850.76	1835.24	1817.78	1794.50	1765.40
40	1747.94	1747.94	1746.00	1742.12	1736.30	1728.54	1718.84	1705.26	1687.80	1664.52
45	1575.28	1573.34	1573.34	1571.40	1567.52	1563.64	1555.88	1546.18	1534.54	1517.08
50	1365.76	1365.76	1365.76	1363.82	1361.88	1359.94	1356.06	1350.24	1342.48	1330.84
55	1136.84	1136.84	1136.84	1134.90	1134.90	1132.96	1131.02	1127.14	1123.26	1115.50
60	902.10	902.10	902.10	902.10	902.10	900.16	900.16	898.22	894.34	890.46
65	677.06	679.00	679.00	679.00	679.00	677.06	677.06	677.06	673.18	671.24
70	481.12	481.12	481.12	481.12	481.12	481.12	481.12	479.18	479.18	477.24
75	306.52	306.52	306.52	306.52	306.52	306.52	306.52	306.52	306.52	304.58
80	162.96	162.96	162.96	162.96	162.96	162.96	162.96	162.96	162.96	161.02
85	56.26	56.26	56.26	56.26	56.26	56.26	56.26	56.26	56.26	54.32
90	1.94	1.94	1.94	3.88	3.88	3.88	3.88	3.88	3.88	1.94
95	50.44	50.44	52.38	52.38	52.38	52.38	54.32	54.32	56.26	56.26
100	137.74	137.74	137.74	139.68	141.62	143.56	145.50	147.44	149.38	153.26
105	252.20	252.20	254.14	256.08	258.02	261.90	265.78	269.66	273.54	277.42
110	395.76	395.76	397.70	399.64	403.52	407.40	413.22	419.04	424.86	430.68
115	566.48	568.42	570.36	572.30	578.12	583.94	587.82	595.58	601.40	609.16
120	764.36	764.36	766.30	770.18	776.00	779.88	787.64	793.46	801.22	808.98
125	975.82	975.82	977.76	981.64	985.52	991.34	997.16	1002.98	1010.74	1016.56
130	1185.34	1187.28	1187.28	1191.16	1195.04	1198.92	1204.74	1210.56	1218.32	1226.08
135	1383.22	1383.22	1385.16	1387.10	1390.98	1394.86	1400.68	1406.50	1412.32	1420.08
140	1563.64	1563.64	1565.58	1567.52	1569.46	1573.34	1579.16	1583.04	1586.92	1592.74
145	1720.78	1722.72	1722.72	1724.66	1726.60	1728.54	1730.48	1734.36	1738.24	1740.18
150	1854.64	1854.64	1854.64	1856.58	1856.58	1858.52	1858.52	1860.46	1864.34	1866.28
155	1961.34	1961.34	1961.34	1961.34	1963.28	1965.22	1965.22	1967.16	1969.10	1971.04
160	2048.64	2048.64	2048.64	2048.64	2048.64	2050.58	2050.58	2052.52	2054.46	2056.40
165	2116.54	2116.54	2116.54	2116.54	2118.48	2118.48	2120.42	2122.36	2122.36	2124.30
170	2168.92	2168.92	2170.86	2170.86	2170.86	2170.86	2172.80	2172.80	2174.74	2176.68
175	2207.72	2207.72	2207.72	2207.72	2207.72	2207.72	2207.72	2209.66	2209.66	2209.66
180	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18

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	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02
5	1449.18	1435.60	1420.08	1404.56	1389.04	1373.52	1356.06	1338.60	1321.14	1303.68
10	1579.16	1550.06	1520.96	1487.98	1455.00	1418.14	1383.22	1346.36	1307.56	1270.70
15	1683.92	1645.12	1600.50	1552.00	1503.50	1449.18	1396.80	1338.60	1280.40	1224.14
20	1755.70	1707.20	1654.82	1596.62	1534.54	1464.70	1392.92	1319.20	1243.54	1169.82
25	1786.74	1738.24	1680.04	1616.02	1544.24	1462.76	1375.46	1288.16	1195.04	1103.86
30	1780.92	1732.42	1674.22	1606.32	1530.66	1441.42	1342.48	1241.60	1136.84	1030.14
35	1730.48	1685.86	1631.54	1565.58	1487.98	1396.80	1292.04	1179.52	1061.18	946.72
40	1633.48	1596.62	1548.12	1487.98	1416.20	1325.02	1218.32	1101.92	979.70	849.72
45	1493.80	1464.70	1425.90	1373.52	1309.50	1228.02	1123.26	1002.98	878.82	746.90
50	1315.32	1293.98	1264.88	1224.14	1167.88	1096.10	1001.04	890.46	764.36	640.20
55	1105.80	1090.28	1070.88	1039.84	995.22	935.08	853.60	756.60	640.20	527.68
60	884.64	874.94	859.42	836.14	803.16	756.60	690.64	611.10	516.04	419.04

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CANDELA TABULATION - (Cont.)

65	667.36	659.60	649.90	630.50	611.10	576.18	527.68	465.60	388.00	316.22
70	473.36	467.54	459.78	450.08	432.62	407.40	372.48	327.86	275.48	223.10
75	302.64	300.70	294.88	287.12	277.42	261.90	238.62	211.46	176.54	145.50
80	161.02	159.08	157.14	153.26	149.38	139.68	129.98	114.46	97.00	81.48
85	54.32	54.32	54.32	54.32	52.38	50.44	46.56	40.74	34.92	31.04
90	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88	5.82	7.76
95	58.20	58.20	60.14	60.14	62.08	64.02	65.96	65.96	67.90	71.78
100	155.20	157.14	161.02	162.96	166.84	168.78	170.72	172.66	174.60	178.48
105	283.24	287.12	291.00	296.82	300.70	302.64	306.52	308.46	312.34	314.28
110	436.50	444.26	450.08	453.96	459.78	463.66	467.54	469.48	473.36	477.24
115	616.92	624.68	632.44	638.26	644.08	647.96	651.84	655.72	659.60	663.48
120	816.74	824.50	832.26	838.08	843.90	849.72	853.60	859.42	865.24	869.12
125	1024.32	1034.02	1039.84	1047.60	1053.42	1057.30	1063.12	1068.94	1074.76	1078.64
130	1231.90	1239.66	1245.48	1251.30	1257.12	1261.00	1266.82	1272.64	1280.40	1284.28
135	1425.90	1431.72	1435.60	1439.48	1445.30	1451.12	1456.94	1462.76	1468.58	1476.34
140	1596.62	1600.50	1604.38	1608.26	1614.08	1619.90	1625.72	1631.54	1637.36	1645.12
145	1744.06	1747.94	1749.88	1755.70	1759.58	1765.40	1771.22	1777.04	1782.86	1790.62
150	1868.22	1872.10	1875.98	1879.86	1883.74	1889.56	1893.44	1899.26	1905.08	1910.90
155	1972.98	1976.86	1978.80	1982.68	1986.56	1990.44	1996.26	2002.08	2005.96	2011.78
160	2058.34	2062.22	2064.16	2068.04	2071.92	2075.80	2079.68	2083.56	2087.44	2091.32
165	2126.24	2128.18	2132.06	2134.00	2137.88	2139.82	2143.70	2145.64	2149.52	2153.40
170	2176.68	2178.62	2180.56	2182.50	2184.44	2186.38	2190.26	2192.20	2194.14	2196.08
175	2211.60	2211.60	2213.54	2213.54	2215.48	2215.48	2217.42	2217.42	2219.36	2219.36
180	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18

Vert. Angles	Horizontal Angles									
	100	105	110	115	120	125	130	135	140	145
0	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02
5	1288.16	1270.70	1253.24	1237.72	1222.20	1208.62	1193.10	1181.46	1169.82	1160.12
10	1231.90	1195.04	1158.18	1125.20	1090.28	1061.18	1034.02	1006.86	983.58	962.24
15	1169.82	1111.62	1059.24	1008.80	960.30	917.62	876.88	840.02	808.98	781.82
20	1096.10	1022.38	954.48	890.46	830.32	777.94	733.32	690.64	655.72	624.68
25	1014.62	927.32	845.84	774.06	708.10	651.84	603.34	558.72	521.86	492.76
30	927.32	826.44	739.14	663.48	591.70	535.44	486.94	444.26	409.34	378.30
35	830.32	725.56	634.38	556.78	486.94	430.68	384.12	345.32	312.34	285.18
40	731.38	626.62	535.44	459.78	391.88	341.44	298.76	263.84	234.74	213.40
45	630.50	523.80	438.44	366.66	310.40	263.84	226.98	197.88	176.54	162.96
50	527.68	430.68	347.26	287.12	238.62	201.76	172.66	151.32	137.74	126.10
55	426.80	341.44	273.54	221.16	180.42	157.14	133.86	118.34	108.64	102.82
60	333.68	263.84	207.58	168.78	137.74	118.34	104.76	95.06	87.30	83.42
65	250.26	195.94	159.08	126.10	104.76	91.18	81.48	73.72	69.84	65.96
70	178.48	139.68	112.52	93.12	77.60	67.90	62.08	56.26	52.38	50.44
75	116.40	93.12	75.66	64.02	54.32	46.56	42.68	38.80	36.86	34.92
80	65.96	54.32	44.62	36.86	32.98	29.10	25.22	23.28	23.28	21.34
85	27.16	21.34	19.40	15.52	13.58	13.58	11.64	11.64	9.70	9.70
90	9.70	11.64	15.52	17.46	21.34	25.22	29.10	32.98	36.86	40.74
95	73.72	77.60	81.48	85.36	89.24	93.12	97.00	100.88	104.76	108.64
100	180.42	184.30	186.24	190.12	194.00	195.94	199.82	201.76	205.64	207.58
105	316.22	320.10	322.04	323.98	327.86	329.80	331.74	333.68	335.62	337.56
110	479.18	481.12	483.06	485.00	486.94	488.88	490.82	492.76	492.76	494.70
115	667.36	669.30	669.30	671.24	671.24	673.18	673.18	675.12	675.12	677.06
120	873.00	873.00	874.94	874.94	874.94	876.88	876.88	878.82	878.82	878.82
125	1082.52	1086.40	1086.40	1086.40	1088.34	1088.34	1088.34	1090.28	1090.28	1090.28
130	1290.10	1293.98	1295.92	1295.92	1297.86	1297.86	1297.86	1299.80	1299.80	1299.80
135	1480.22	1486.04	1487.98	1489.92	1491.86	1491.86	1491.86	1491.86	1491.86	1491.86

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CANDELA TABULATION - (Cont.)

140	1649.00	1654.82	1658.70	1660.64	1662.58	1662.58	1664.52	1664.52	1664.52	1664.52
145	1794.50	1800.32	1804.20	1806.14	1808.08	1810.02	1811.96	1813.90	1813.90	1813.90
150	1916.72	1922.54	1926.42	1928.36	1932.24	1934.18	1936.12	1938.06	1938.06	1940.00
155	2017.60	2021.48	2025.36	2029.24	2031.18	2035.06	2035.06	2038.94	2038.94	2040.88
160	2097.14	2099.08	2102.96	2106.84	2110.72	2112.66	2114.60	2116.54	2118.48	2120.42
165	2157.28	2159.22	2163.10	2165.04	2168.92	2170.86	2172.80	2174.74	2176.68	2176.68
170	2198.02	2199.96	2201.90	2203.84	2205.78	2207.72	2209.66	2211.60	2211.60	2213.54
175	2221.30	2221.30	2223.24	2223.24	2225.18	2225.18	2227.12	2227.12	2229.06	2229.06
180	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18

**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	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02	1325.02
5	1150.42	1142.66	1134.90	1131.02	1127.14	1125.20	1123.26
10	944.78	929.26	915.68	905.98	900.16	894.34	894.34
15	758.54	739.14	721.68	710.04	700.34	696.46	694.52
20	599.46	578.12	560.66	549.02	539.32	533.50	531.56
25	465.60	446.20	428.74	415.16	407.40	401.58	399.64
30	355.02	335.62	320.10	308.46	298.76	294.88	292.94
35	263.84	246.38	232.80	223.10	217.28	213.40	211.46
40	195.94	182.36	172.66	166.84	162.96	161.02	159.08
45	149.38	141.62	135.80	131.92	128.04	126.10	126.10
50	118.34	114.46	110.58	106.70	104.76	104.76	104.76
55	97.00	93.12	91.18	89.24	89.24	87.30	87.30
60	79.54	77.60	75.66	73.72	73.72	71.78	71.78
65	64.02	62.08	60.14	58.20	58.20	58.20	58.20
70	48.50	46.56	44.62	44.62	44.62	42.68	42.68
75	32.98	32.98	31.04	31.04	31.04	31.04	29.10
80	21.34	19.40	19.40	19.40	19.40	17.46	17.46
85	9.70	9.70	9.70	9.70	9.70	7.76	7.76
90	42.68	46.56	48.50	50.44	52.38	54.32	54.32
95	110.58	114.46	116.40	118.34	120.28	120.28	120.28
100	211.46	213.40	213.40	215.34	217.28	217.28	217.28
105	339.50	339.50	341.44	341.44	341.44	341.44	341.44
110	494.70	494.70	494.70	494.70	494.70	494.70	494.70
115	677.06	677.06	677.06	677.06	675.12	675.12	675.12
120	878.82	878.82	878.82	878.82	878.82	878.82	878.82
125	1090.28	1090.28	1090.28	1090.28	1090.28	1090.28	1090.28
130	1299.80	1299.80	1299.80	1299.80	1299.80	1299.80	1299.80
135	1491.86	1493.80	1493.80	1493.80	1493.80	1493.80	1493.80
140	1664.52	1664.52	1666.46	1666.46	1666.46	1666.46	1666.46
145	1813.90	1815.84	1815.84	1815.84	1815.84	1815.84	1815.84
150	1940.00	1941.94	1941.94	1941.94	1941.94	1943.88	1941.94
155	2042.82	2042.82	2044.76	2044.76	2044.76	2044.76	2044.76
160	2122.36	2122.36	2122.36	2124.30	2124.30	2124.30	2124.30
165	2178.62	2178.62	2180.56	2180.56	2180.56	2180.56	2182.50
170	2213.54	2215.48	2215.48	2217.42	2217.42	2217.42	2217.42
175	2229.06	2229.06	2229.06	2229.06	2231.00	2231.00	2231.00
180	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18	2225.18

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	487.07	N.A.	5.10
0-30	1036.86	N.A.	10.90
0-40	1695.54	N.A.	17.80
0-60	2914.92	N.A.	30.70
0-80	3476.32	N.A.	36.60
0-90	3525.09	N.A.	37.10
10-90	3399.45	N.A.	35.80
20-40	1208.46	N.A.	12.70
20-50	1871.47	N.A.	19.70
40-70	1594.46	N.A.	16.80
60-80	561.40	N.A.	5.90
70-80	186.33	N.A.	2.00
80-90	48.77	N.A.	0.50
90-110	424.85	N.A.	4.50
90-120	1064.94	N.A.	11.20
90-130	2006.86	N.A.	21.10
90-150	4235.94	N.A.	44.60
90-180	5977.2	N.A.	62.90
110-180	5552.35	N.A.	58.40
0-180	9502.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.64
10-20	361.43
20-30	549.79
30-40	658.67
40-50	663.00
50-60	556.38
60-70	375.07
70-80	186.33
80-90	48.77
90-100	95.60
100-110	329.25
110-120	640.09
120-130	941.92
130-140	1119.53
140-150	1109.55
150-160	923.54
160-170	606.75
170-180	210.97

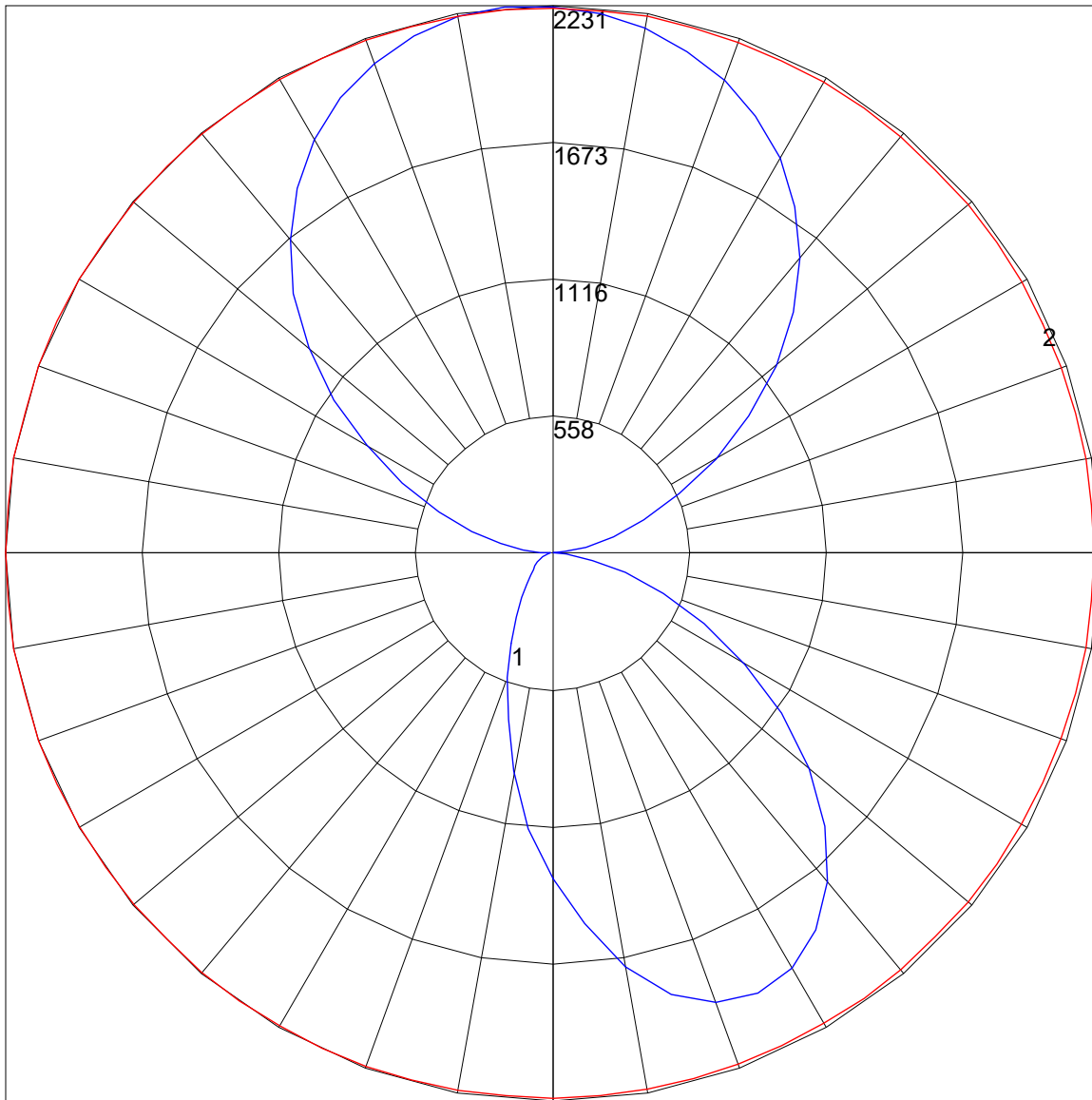
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U2A1.IES

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 = 2231 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.)