

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-HO-359-U1A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	88	92
Total Lumens, 4' rail length (1219mm)	8957	9240	9428	9617
Lumens per foot (305mm)	2239	2310	2357	2404
Lumens per foot UP (305mm)	1453	1499	1530	1482
Lumens per foot DOWN (305mm)	786	811	827	802
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_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L091700107 (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-U1A1
 [LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] symmetric 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	9428
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	32705	30910	12014
55	29403	28738	11506
65	23889	23717	10247
75	17239	17224	8403
85	8021	7868	4691

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	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4
5	1067.8	1065.9	1064.0	1058.3	1050.7	1043.1	1031.7	1020.3	1007.0	991.8
10	1349.0	1347.1	1339.5	1328.1	1312.9	1293.9	1271.1	1244.5	1214.1	1179.9
15	1624.5	1620.7	1611.2	1594.1	1571.3	1542.8	1508.6	1466.8	1421.2	1368.0
20	1852.5	1848.7	1837.3	1818.3	1791.7	1757.5	1717.6	1666.3	1607.4	1542.8
25	2004.5	2000.7	1991.2	1972.2	1945.6	1913.3	1869.6	1818.3	1753.7	1681.5
30	2067.2	2063.4	2055.8	2040.6	2017.8	1989.3	1951.3	1903.8	1843.0	1772.7
35	2046.3	2044.4	2036.8	2025.4	2008.3	1983.6	1953.2	1915.2	1865.8	1803.1
40	1953.2	1951.3	1945.6	1938.0	1924.7	1907.6	1884.8	1854.4	1814.5	1763.2
45	1797.4	1797.4	1793.6	1787.9	1778.4	1767.0	1749.9	1727.1	1696.7	1656.8
50	1596.0	1596.0	1594.1	1588.4	1582.7	1573.2	1561.8	1544.7	1523.8	1495.3
55	1364.2	1362.3	1360.4	1358.5	1352.8	1345.2	1335.7	1324.3	1309.1	1288.2
60	1115.3	1115.3	1113.4	1111.5	1107.7	1102.0	1094.4	1084.9	1071.6	1056.4
65	870.2	870.2	868.3	866.4	862.6	858.8	851.2	843.6	834.1	822.7
70	642.2	640.3	640.3	638.4	634.6	630.8	625.1	619.4	613.7	604.2
75	437.0	437.0	435.1	433.2	431.3	427.5	423.7	418.0	412.3	404.7
80	256.5	256.5	254.6	252.7	250.8	248.9	245.1	241.3	237.5	231.8
85	108.3	108.3	108.3	106.4	104.5	102.6	100.7	98.8	95.0	91.2
90	39.9	39.9	39.9	39.9	38.0	36.1	34.2	32.3	28.5	26.6
95	127.3	127.3	125.4	125.4	123.5	121.6	117.8	115.9	112.1	106.4
100	245.1	243.2	243.2	243.2	241.3	239.4	235.6	233.7	229.9	224.2
105	383.8	383.8	383.8	383.8	381.9	380.0	378.1	376.2	372.4	368.6
110	551.0	551.0	551.0	551.0	551.0	549.1	547.2	543.4	541.5	537.7
115	741.0	741.0	741.0	741.0	739.1	739.1	737.2	733.4	731.5	727.7
120	948.1	948.1	948.1	946.2	946.2	946.2	944.3	944.3	940.5	938.6
125	1160.9	1160.9	1160.9	1160.9	1159.0	1159.0	1159.0	1159.0	1157.1	1155.2
130	1369.9	1369.9	1368.0	1368.0	1368.0	1368.0	1368.0	1366.1	1366.1	1366.1
135	1561.8	1561.8	1561.8	1561.8	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
140	1732.8	1732.8	1732.8	1732.8	1732.8	1730.9	1730.9	1730.9	1730.9	1730.9
145	1881.0	1881.0	1881.0	1881.0	1881.0	1879.1	1879.1	1879.1	1879.1	1877.2
150	2006.4	2006.4	2006.4	2004.5	2004.5	2004.5	2002.6	2002.6	2002.6	2000.7
155	2109.0	2109.0	2109.0	2107.1	2107.1	2107.1	2105.2	2105.2	2103.3	2103.3
160	2188.8	2188.8	2188.8	2188.8	2188.8	2186.9	2186.9	2185.0	2185.0	2183.1
165	2249.6	2249.6	2249.6	2249.6	2247.7	2247.7	2247.7	2245.8	2245.8	2245.8
170	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2287.6	2287.6	2287.6
175	2314.2	2314.2	2314.2	2314.2	2314.2	2312.3	2312.3	2312.3	2312.3	2312.3
180	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9

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	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4
5	976.6	959.5	940.5	921.5	902.5	883.5	864.5	845.5	824.6	807.5
10	1143.8	1105.8	1064.0	1022.2	982.3	940.5	896.8	856.9	817.0	780.9
15	1312.9	1252.1	1187.5	1122.9	1058.3	989.9	925.3	864.5	803.7	748.6
20	1470.6	1390.8	1305.3	1216.0	1126.7	1035.5	948.1	864.5	784.7	714.4
25	1601.7	1506.7	1404.1	1295.8	1185.6	1071.6	963.3	858.8	760.0	674.5
30	1689.1	1590.3	1478.2	1354.7	1229.3	1096.3	969.0	843.6	729.6	632.7
35	1725.2	1628.3	1516.2	1387.0	1252.1	1103.9	955.7	818.9	695.4	587.1
40	1694.8	1613.1	1508.6	1383.2	1244.5	1094.4	931.0	784.7	640.3	532.0
45	1605.5	1537.1	1444.0	1333.8	1202.7	1054.5	893.0	741.0	600.4	476.9
50	1455.4	1402.2	1331.9	1238.8	1119.1	982.3	826.5	657.4	537.7	419.9
55	1259.7	1219.8	1166.6	1094.4	993.7	870.2	735.3	598.5	467.4	359.1
60	1035.5	1007.0	967.1	910.1	834.1	733.4	623.2	503.5	391.4	298.3

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1.IES

CANDELA TABULATION - (Cont.)

65	805.6	784.7	754.3	712.5	655.5	581.4	494.0	397.1	307.8	237.5
70	590.9	573.8	551.0	520.6	480.7	427.5	361.0	294.5	229.9	176.7
75	395.2	383.8	366.7	345.8	319.2	285.0	241.3	195.7	155.8	119.7
80	224.2	216.6	207.1	193.8	178.6	157.7	134.9	110.2	87.4	66.5
85	87.4	83.6	77.9	72.2	66.5	58.9	49.4	39.9	30.4	24.7
90	22.8	19.0	15.2	13.3	9.5	7.6	5.7	3.8	1.9	1.9
95	102.6	96.9	91.2	85.5	79.8	74.1	68.4	62.7	57.0	51.3
100	220.4	214.7	209.0	201.4	195.7	186.2	178.6	171.0	161.5	153.9
105	362.9	357.2	351.5	343.9	336.3	328.7	319.2	309.7	300.2	290.7
110	532.0	526.3	520.6	514.9	507.3	499.7	490.2	480.7	469.3	457.9
115	723.9	720.1	714.4	708.7	703.0	695.4	685.9	676.4	665.0	651.7
120	934.8	931.0	929.1	923.4	919.6	912.0	902.5	893.0	881.6	870.2
125	1153.3	1149.5	1147.6	1143.8	1140.0	1134.3	1124.8	1117.2	1105.8	1094.4
130	1364.2	1362.3	1360.4	1356.6	1352.8	1347.1	1339.5	1331.9	1322.4	1312.9
135	1559.9	1558.0	1556.1	1552.3	1548.5	1542.8	1537.1	1529.5	1521.9	1516.2
140	1730.9	1729.0	1727.1	1723.3	1719.5	1715.7	1710.0	1704.3	1700.5	1694.8
145	1877.2	1875.3	1873.4	1869.6	1867.7	1863.9	1860.1	1856.3	1852.5	1848.7
150	1998.8	1996.9	1995.0	1993.1	1989.3	1987.4	1983.6	1981.7	1979.8	1976.0
155	2101.4	2099.5	2097.6	2095.7	2093.8	2090.0	2088.1	2086.2	2086.2	2084.3
160	2181.2	2181.2	2179.3	2177.4	2175.5	2173.6	2173.6	2171.7	2171.7	2169.8
165	2243.9	2243.9	2242.0	2240.1	2240.1	2240.1	2238.2	2238.2	2236.3	2236.3
170	2287.6	2285.7	2285.7	2285.7	2285.7	2283.8	2283.8	2283.8	2283.8	2283.8
175	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2310.4
180	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4	828.4
5	788.5	769.5	754.3	737.2	722.0	708.7	695.4	684.0	672.6	663.1
10	744.8	708.7	678.3	647.9	621.3	596.6	575.7	554.8	537.7	522.5
15	697.3	647.9	606.1	566.2	530.1	499.7	473.1	448.4	427.5	410.4
20	649.8	589.0	535.8	492.1	450.3	416.1	387.6	361.0	340.1	323.0
25	598.5	530.1	471.2	421.8	378.1	343.9	317.3	290.7	271.7	254.6
30	547.2	471.2	410.4	361.0	317.3	285.0	258.4	235.6	218.5	205.2
35	495.9	418.0	355.3	305.9	266.0	235.6	212.8	193.8	180.5	169.1
40	438.9	361.0	302.1	256.5	220.4	195.7	176.7	161.5	152.0	144.4
45	383.8	309.7	254.6	214.7	184.3	163.4	150.1	138.7	131.1	127.3
50	330.6	264.1	214.7	178.6	157.7	138.7	127.3	119.7	114.0	110.2
55	277.4	220.4	178.6	155.8	131.1	117.8	110.2	102.6	98.8	96.9
60	229.9	180.5	153.9	125.4	108.3	98.8	91.2	87.4	83.6	79.8
65	182.4	148.2	117.8	100.7	89.3	79.8	74.1	70.3	66.5	64.6
70	138.7	108.3	89.3	77.9	68.4	60.8	57.0	53.2	49.4	47.5
75	93.1	74.1	62.7	53.2	47.5	41.8	38.0	36.1	34.2	32.3
80	53.2	43.7	36.1	30.4	26.6	24.7	20.9	20.9	19.0	17.1
85	19.0	15.2	13.3	11.4	9.5	9.5	7.6	7.6	7.6	5.7
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	47.5	43.7	39.9	36.1	32.3	30.4	28.5	26.6	24.7	24.7
100	146.3	140.6	133.0	127.3	121.6	115.9	110.2	106.4	102.6	98.8
105	281.2	271.7	262.2	254.6	245.1	237.5	229.9	222.3	216.6	210.9
110	446.5	435.1	423.7	412.3	402.8	391.4	381.9	372.4	362.9	353.4
115	638.4	627.0	613.7	602.3	589.0	575.7	564.3	551.0	541.5	530.1
120	856.9	843.6	830.3	815.1	799.9	786.6	773.3	760.0	746.7	735.3
125	1083.0	1069.7	1056.4	1043.1	1027.9	1014.6	1001.3	988.0	974.7	963.3
130	1303.4	1293.9	1282.5	1271.1	1257.8	1246.4	1233.1	1219.8	1208.4	1197.0
135	1508.6	1501.0	1491.5	1483.9	1472.5	1463.0	1451.6	1442.1	1430.7	1421.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1.IES

CANDELA TABULATION - (Cont.)

140	1689.1	1683.4	1677.7	1672.0	1664.4	1656.8	1649.2	1639.7	1634.0	1626.4
145	1844.9	1841.1	1837.3	1833.5	1827.8	1822.1	1818.3	1812.6	1806.9	1801.2
150	1974.1	1972.2	1970.3	1968.4	1964.6	1960.8	1958.9	1955.1	1951.3	1949.4
155	2082.4	2080.5	2080.5	2078.6	2076.7	2074.8	2072.9	2071.0	2069.1	2069.1
160	2169.8	2167.9	2167.9	2166.0	2166.0	2166.0	2164.1	2164.1	2162.2	2162.2
165	2236.3	2236.3	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2232.5	2232.5
170	2283.8	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9
175	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4
180	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	828.4	828.4	828.4	828.4	828.4	828.4	828.4
5	653.6	647.9	642.2	638.4	634.6	632.7	632.7
10	509.2	497.8	488.3	482.6	476.9	475.0	473.1
15	395.2	383.8	374.3	366.7	361.0	357.2	355.3
20	307.8	296.4	286.9	279.3	275.5	271.7	271.7
25	241.3	231.8	224.2	218.5	212.8	210.9	210.9
30	193.8	186.2	180.5	174.8	172.9	171.0	171.0
35	161.5	157.7	152.0	150.1	148.2	146.3	146.3
40	140.6	136.8	133.0	131.1	131.1	129.2	129.2
45	123.5	119.7	117.8	117.8	115.9	115.9	115.9
50	108.3	106.4	104.5	104.5	102.6	102.6	102.6
55	93.1	91.2	91.2	89.3	89.3	89.3	89.3
60	77.9	76.0	76.0	74.1	74.1	74.1	74.1
65	62.7	60.8	58.9	58.9	57.0	57.0	57.0
70	45.6	45.6	43.7	43.7	41.8	41.8	41.8
75	30.4	30.4	28.5	28.5	28.5	28.5	26.6
80	17.1	17.1	15.2	15.2	15.2	15.2	15.2
85	5.7	5.7	5.7	5.7	5.7	5.7	5.7
90	1.9	1.9	1.9	0.0	0.0	0.0	0.0
95	22.8	22.8	22.8	22.8	20.9	20.9	20.9
100	95.0	93.1	91.2	89.3	87.4	87.4	87.4
105	205.2	199.5	195.7	191.9	190.0	188.1	188.1
110	347.7	340.1	334.4	330.6	326.8	324.9	324.9
115	520.6	513.0	505.4	499.7	495.9	494.0	492.1
120	725.8	716.3	708.7	701.1	697.3	693.5	693.5
125	951.9	942.4	932.9	927.2	923.4	919.6	917.7
130	1187.5	1178.0	1170.4	1162.8	1159.0	1155.2	1155.2
135	1413.6	1406.0	1398.4	1394.6	1388.9	1387.0	1387.0
140	1618.8	1613.1	1607.4	1605.5	1601.7	1599.8	1599.8
145	1797.4	1793.6	1789.8	1786.0	1784.1	1784.1	1782.2
150	1945.6	1943.7	1939.9	1939.9	1938.0	1938.0	1936.1
155	2067.2	2065.3	2063.4	2063.4	2061.5	2061.5	2061.5
160	2162.2	2160.3	2160.3	2160.3	2158.4	2158.4	2158.4
165	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5
170	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9
175	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4
180	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	337.50	N.A.	3.60
0-30	780.45	N.A.	8.30
0-40	1371.97	N.A.	14.60
0-60	2602.77	N.A.	27.60
0-80	3247.19	N.A.	34.40
0-90	3309.13	N.A.	35.10
10-90	3228.27	N.A.	34.20
20-40	1034.48	N.A.	11.00
20-50	1682.16	N.A.	17.80
40-70	1650.79	N.A.	17.50
60-80	644.42	N.A.	6.80
70-80	224.43	N.A.	2.40
80-90	61.93	N.A.	0.70
90-110	403.02	N.A.	4.30
90-120	1042.53	N.A.	11.10
90-130	2001.2	N.A.	21.20
90-150	4306.43	N.A.	45.70
90-180	6119.04	N.A.	64.90
110-180	5716.01	N.A.	60.60
0-180	9428.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.85
10-20	256.64
20-30	442.96
30-40	591.52
40-50	647.68
50-60	583.12
60-70	419.99
70-80	224.43
80-90	61.93
90-100	84.49
100-110	318.53
110-120	639.51
120-130	958.66
130-140	1153.98
140-150	1151.25
150-160	960.85
160-170	631.97
170-180	219.79

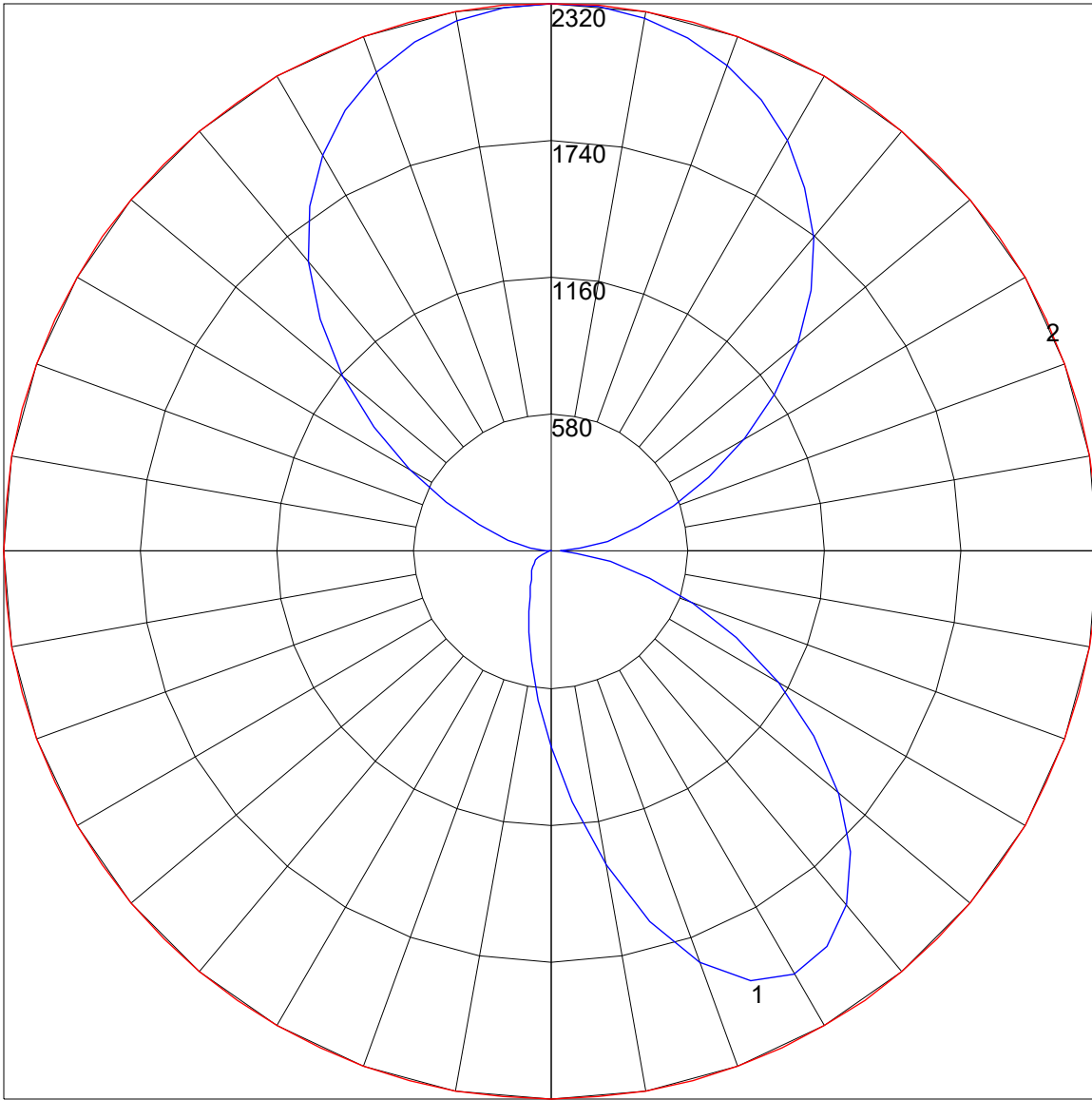
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1.IES

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	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	81	78	75	65	63	61	51	49	48	37	36	35	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	32	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	34	31	28	25	23	21	17
5	65	54	45	40	58	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16	13
7	55	43	35	29	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 2319.9 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)