

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	96	99	101	105
Total Lumens, 4' rail length (1219mm)	10244	10567	10783	10891
Lumens per foot (305mm)	2561	2642	2696	2723
Lumens per foot UP (305mm)	1498	1546	1577	1593
Lumens per foot DOWN (305mm)	1063	1096	1118	1130
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.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010917 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-48-Z-HO-359-U1A1-BL

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

[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	10783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	31295	32421	30085
55	25828	27452	25980
65	19457	20966	20572
75	13216	14367	14774
85	6502	6959	8519

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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	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
5	2219.2	2219.2	2217.3	2217.3	2215.4	2213.5	2209.7	2207.8	2204.0	2198.3
10	2259.1	2259.1	2259.1	2257.2	2253.4	2251.5	2245.8	2242.0	2236.3	2228.7
15	2259.1	2257.2	2257.2	2255.3	2253.4	2249.6	2243.9	2238.2	2232.5	2223.0
20	2223.0	2221.1	2221.1	2219.2	2215.4	2213.5	2207.8	2202.1	2196.4	2186.9
25	2156.5	2154.6	2154.6	2152.7	2150.8	2147.0	2143.2	2137.5	2131.8	2124.2
30	2059.6	2059.6	2059.6	2057.7	2055.8	2052.0	2048.2	2044.4	2038.7	2031.1
35	1930.4	1930.4	1930.4	1930.4	1928.5	1926.6	1924.7	1920.9	1915.2	1909.5
40	1761.3	1761.3	1761.3	1763.2	1763.2	1763.2	1763.2	1761.3	1759.4	1755.6
45	1556.1	1556.1	1558.0	1558.0	1559.9	1563.7	1565.6	1567.5	1567.5	1567.5
50	1326.2	1326.2	1328.1	1330.0	1331.9	1335.7	1339.5	1343.3	1345.2	1349.0
55	1088.7	1088.7	1090.6	1092.5	1094.4	1098.2	1102.0	1105.8	1109.6	1113.4
60	858.8	858.8	860.7	860.7	864.5	866.4	868.3	872.1	875.9	879.7
65	647.9	647.9	647.9	649.8	649.8	651.7	653.6	657.4	659.3	661.2
70	465.5	465.5	467.4	467.4	467.4	469.3	469.3	471.2	471.2	473.1
75	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
80	182.4	182.4	182.4	182.4	182.4	180.5	180.5	180.5	178.6	178.6
85	83.6	83.6	83.6	83.6	81.7	81.7	79.8	79.8	77.9	76.0
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
100	180.5	180.5	180.5	180.5	182.4	182.4	182.4	184.3	184.3	186.2
105	305.9	305.9	305.9	307.8	307.8	309.7	311.6	313.5	315.4	317.3
110	454.1	454.1	456.0	457.9	459.8	461.7	465.5	467.4	471.2	475.0
115	628.9	628.9	630.8	632.7	634.6	638.4	642.2	646.0	651.7	655.5
120	824.6	824.6	826.5	828.4	830.3	836.0	839.8	845.5	851.2	856.9
125	1035.5	1035.5	1037.4	1041.2	1045.0	1048.8	1054.5	1060.2	1065.9	1073.5
130	1257.8	1257.8	1259.7	1263.5	1267.3	1271.1	1276.8	1282.5	1290.1	1295.8
135	1480.1	1480.1	1482.0	1485.8	1489.6	1493.4	1499.1	1504.8	1512.4	1518.1
140	1694.8	1694.8	1696.7	1698.6	1702.4	1706.2	1711.9	1715.7	1721.4	1727.1
145	1888.6	1890.5	1892.4	1894.3	1896.2	1900.0	1903.8	1907.6	1911.4	1917.1
150	2059.6	2059.6	2061.5	2063.4	2065.3	2067.2	2069.1	2072.9	2074.8	2076.7
155	2202.1	2202.1	2202.1	2204.0	2205.9	2205.9	2207.8	2209.7	2211.6	2211.6
160	2312.3	2312.3	2312.3	2312.3	2312.3	2314.2	2314.2	2314.2	2314.2	2316.1
165	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1
170	2445.3	2445.3	2445.3	2445.3	2445.3	2445.3	2445.3	2445.3	2445.3	2445.3
175	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9	2471.9
180	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7

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	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
5	2194.5	2188.8	2183.1	2177.4	2169.8	2162.2	2154.6	2147.0	2139.4	2131.8
10	2221.1	2211.6	2200.2	2188.8	2177.4	2162.2	2147.0	2129.9	2112.8	2093.8
15	2213.5	2204.0	2190.7	2175.5	2158.4	2141.3	2118.5	2093.8	2067.2	2036.8
20	2177.4	2166.0	2152.7	2135.6	2116.6	2095.7	2067.2	2036.8	2000.7	1958.9
25	2114.7	2103.3	2088.1	2071.0	2050.1	2025.4	1995.0	1957.0	1915.2	1860.1
30	2021.6	2010.2	1996.9	1979.8	1958.9	1934.2	1900.0	1856.3	1805.0	1740.4
35	1901.9	1892.4	1879.1	1862.0	1841.1	1814.5	1778.4	1734.7	1673.9	1599.8
40	1749.9	1740.4	1730.9	1715.7	1696.7	1670.1	1634.0	1586.5	1521.9	1436.4
45	1563.7	1558.0	1550.4	1539.0	1521.9	1497.2	1461.1	1413.6	1345.2	1255.9
50	1349.0	1347.1	1341.4	1333.8	1318.6	1297.7	1265.4	1219.8	1151.4	1060.2
55	1115.3	1117.2	1115.3	1109.6	1098.2	1079.2	1050.7	1007.0	944.3	864.5
60	881.6	883.5	881.6	877.8	870.2	855.0	830.3	794.2	742.9	651.7

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CANDELA TABULATION - (Cont.)

65	661.2	663.1	661.2	657.4	651.7	640.3	623.2	594.7	552.9	494.0
70	473.1	473.1	471.2	467.4	461.7	452.2	438.9	418.0	385.7	340.1
75	307.8	307.8	305.9	304.0	298.3	292.6	281.2	267.9	245.1	218.5
80	176.7	174.8	172.9	169.1	167.2	161.5	155.8	146.3	133.0	117.8
85	74.1	72.2	70.3	68.4	66.5	62.7	60.8	55.1	49.4	41.8
90	1.9	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7
95	79.8	79.8	79.8	79.8	77.9	77.9	77.9	77.9	77.9	79.8
100	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	188.1
105	319.2	321.1	323.0	324.9	324.9	326.8	326.8	326.8	326.8	328.7
110	478.8	482.6	484.5	486.4	488.3	490.2	490.2	490.2	492.1	492.1
115	659.3	665.0	668.8	670.7	672.6	674.5	676.4	676.4	676.4	676.4
120	862.6	868.3	872.1	875.9	879.7	881.6	881.6	881.6	881.6	879.7
125	1079.2	1084.9	1090.6	1096.3	1098.2	1102.0	1102.0	1102.0	1102.0	1098.2
130	1303.4	1309.1	1314.8	1320.5	1324.3	1326.2	1328.1	1328.1	1326.2	1322.4
135	1525.7	1531.4	1537.1	1540.9	1544.7	1546.6	1548.5	1548.5	1546.6	1542.8
140	1732.8	1738.5	1742.3	1746.1	1748.0	1749.9	1751.8	1751.8	1749.9	1746.1
145	1920.9	1924.7	1926.6	1928.5	1930.4	1932.3	1932.3	1930.4	1930.4	1926.6
150	2080.5	2082.4	2084.3	2086.2	2086.2	2086.2	2086.2	2086.2	2082.4	2080.5
155	2211.6	2213.5	2213.5	2215.4	2215.4	2213.5	2213.5	2213.5	2211.6	2207.8
160	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2314.2	2314.2	2312.3	2308.5
165	2392.1	2392.1	2392.1	2392.1	2392.1	2392.1	2390.2	2390.2	2388.3	2386.4
170	2445.3	2445.3	2443.4	2443.4	2443.4	2443.4	2441.5	2441.5	2439.6	2439.6
175	2471.9	2471.9	2471.9	2471.9	2471.9	2470.0	2470.0	2470.0	2470.0	2468.1
180	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
5	2122.3	2114.7	2105.2	2097.6	2088.1	2080.5	2072.9	2065.3	2057.7	2052.0
10	2074.8	2053.9	2033.0	2010.2	1987.4	1964.6	1943.7	1920.9	1901.9	1881.0
15	2004.5	1968.4	1932.3	1892.4	1852.5	1810.7	1770.8	1727.1	1689.1	1651.1
20	1915.2	1863.9	1805.0	1746.1	1683.4	1620.7	1556.1	1489.6	1430.7	1375.6
25	1801.2	1732.8	1653.0	1571.3	1485.8	1398.4	1312.9	1225.5	1151.4	1081.1
30	1666.3	1580.8	1478.2	1375.6	1267.3	1160.9	1058.3	961.4	879.7	805.6
35	1512.4	1407.9	1290.1	1164.7	1043.1	927.2	820.8	722.0	642.2	573.8
40	1337.6	1221.7	1088.7	953.8	826.5	712.5	611.8	522.5	452.2	395.2
45	1149.5	1026.0	889.2	754.3	636.5	532.0	440.8	368.6	311.6	266.0
50	953.8	830.3	699.2	583.3	469.3	381.9	311.6	254.6	210.9	176.7
55	763.8	640.3	535.8	433.2	340.1	271.7	218.5	172.9	142.5	119.7
60	583.3	486.4	395.2	313.5	243.2	191.9	157.7	121.6	98.8	83.6
65	425.6	349.6	281.2	222.3	171.0	134.9	106.4	85.5	70.3	58.9
70	292.6	241.3	190.0	155.8	117.8	91.2	72.2	58.9	47.5	39.9
75	186.2	153.9	121.6	96.9	76.0	58.9	45.6	38.0	32.3	26.6
80	98.8	81.7	64.6	51.3	41.8	32.3	26.6	20.9	19.0	15.2
85	36.1	30.4	24.7	19.0	15.2	13.3	11.4	9.5	7.6	5.7
90	7.6	7.6	9.5	9.5	9.5	9.5	11.4	11.4	11.4	11.4
95	81.7	83.6	87.4	89.3	89.3	91.2	93.1	93.1	93.1	93.1
100	191.9	193.8	195.7	197.6	197.6	199.5	199.5	199.5	197.6	197.6
105	328.7	330.6	332.5	332.5	332.5	330.6	330.6	328.7	328.7	326.8
110	492.1	492.1	492.1	492.1	490.2	488.3	484.5	482.6	480.7	476.9
115	674.5	672.6	672.6	670.7	668.8	665.0	661.2	657.4	653.6	649.8
120	877.8	875.9	872.1	868.3	864.5	860.7	856.9	851.2	847.4	841.7
125	1096.3	1092.5	1086.8	1081.1	1075.4	1069.7	1064.0	1058.3	1052.6	1048.8
130	1318.6	1312.9	1307.2	1299.6	1292.0	1286.3	1278.7	1273.0	1267.3	1259.7
135	1537.1	1531.4	1523.8	1516.2	1506.7	1499.1	1491.5	1483.9	1478.2	1470.6

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CANDELA TABULATION - (Cont.)

140	1740.4	1734.7	1725.2	1717.6	1708.1	1700.5	1692.9	1685.3	1677.7	1672.0
145	1920.9	1915.2	1907.6	1900.0	1892.4	1882.9	1875.3	1867.7	1862.0	1856.3
150	2074.8	2071.0	2065.3	2057.7	2050.1	2044.4	2036.8	2029.2	2023.5	2019.7
155	2205.9	2202.1	2196.4	2190.7	2185.0	2181.2	2175.5	2169.8	2164.1	2158.4
160	2306.6	2304.7	2300.9	2297.1	2293.3	2289.5	2285.7	2281.9	2278.1	2274.3
165	2384.5	2382.6	2380.7	2378.8	2375.0	2373.1	2371.2	2367.4	2365.5	2363.6
170	2437.7	2437.7	2435.8	2433.9	2433.9	2432.0	2430.1	2430.1	2428.2	2426.3
175	2468.1	2468.1	2468.1	2466.2	2466.2	2466.2	2466.2	2464.3	2464.3	2464.3
180	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
5	2046.3	2040.6	2036.8	2033.0	2031.1	2029.2	2029.2
10	1863.9	1848.7	1835.4	1825.9	1818.3	1812.6	1812.6
15	1618.8	1588.4	1563.7	1544.7	1529.5	1521.9	1518.1
20	1324.3	1282.5	1246.4	1217.9	1197.0	1185.6	1181.8
25	1020.3	970.9	927.2	894.9	874.0	860.7	855.0
30	742.9	693.5	653.6	623.2	602.3	590.9	585.2
35	518.7	475.0	440.8	416.1	397.1	387.6	383.8
40	349.6	315.4	286.9	267.9	254.6	247.0	245.1
45	231.8	205.2	184.3	171.0	161.5	155.8	153.9
50	157.7	134.9	121.6	110.2	104.5	100.7	98.8
55	102.6	89.3	79.8	74.1	70.3	66.5	66.5
60	70.3	62.7	55.1	51.3	47.5	47.5	45.6
65	49.4	43.7	39.9	36.1	34.2	34.2	32.3
70	34.2	30.4	28.5	26.6	24.7	22.8	22.8
75	22.8	20.9	19.0	17.1	17.1	15.2	15.2
80	13.3	11.4	11.4	11.4	9.5	9.5	9.5
85	5.7	5.7	5.7	3.8	3.8	3.8	3.8
90	11.4	11.4	11.4	11.4	11.4	11.4	11.4
95	93.1	93.1	93.1	93.1	93.1	93.1	93.1
100	197.6	197.6	195.7	195.7	195.7	195.7	195.7
105	324.9	323.0	323.0	321.1	321.1	319.2	319.2
110	475.0	473.1	471.2	469.3	467.4	465.5	465.5
115	646.0	644.1	640.3	638.4	636.5	634.6	634.6
120	837.9	832.2	830.3	826.5	824.6	822.7	822.7
125	1043.1	1037.4	1033.6	1029.8	1027.9	1026.0	1026.0
130	1254.0	1250.2	1246.4	1242.6	1238.8	1236.9	1236.9
135	1464.9	1461.1	1455.4	1451.6	1449.7	1447.8	1447.8
140	1666.3	1660.6	1656.8	1653.0	1651.1	1649.2	1649.2
145	1850.6	1844.9	1841.1	1839.2	1835.4	1835.4	1835.4
150	2012.1	2008.3	2006.4	2002.6	2000.7	1998.8	1998.8
155	2154.6	2150.8	2148.9	2145.1	2143.2	2143.2	2141.3
160	2272.4	2268.6	2266.7	2264.8	2262.9	2262.9	2261.0
165	2361.7	2359.8	2357.9	2357.9	2356.0	2356.0	2356.0
170	2426.3	2424.4	2424.4	2422.5	2422.5	2422.5	2422.5
175	2464.3	2464.3	2464.3	2462.4	2462.4	2462.4	2462.4
180	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	756.95	N.A.	7.00
0-30	1536.02	N.A.	14.20
0-40	2390.77	N.A.	22.20
0-60	3811.71	N.A.	35.30
0-80	4419.16	N.A.	41.00
0-90	4473.9	N.A.	41.50
10-90	4272.29	N.A.	39.60
20-40	1633.83	N.A.	15.20
20-50	2429.22	N.A.	22.50
40-70	1826.22	N.A.	16.90
60-80	607.45	N.A.	5.60
70-80	202.16	N.A.	1.90
80-90	54.74	N.A.	0.50
90-110	445.63	N.A.	4.10
90-120	1099.31	N.A.	10.20
90-130	2054.19	N.A.	19.10
90-150	4394.81	N.A.	40.80
90-180	6309.13	N.A.	58.50
110-180	5863.49	N.A.	54.40
0-180	10783.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.61
10-20	555.33
20-30	779.07
30-40	854.75
40-50	795.40
50-60	625.54
60-70	405.28
70-80	202.16
80-90	54.74
90-100	99.59
100-110	346.04
110-120	653.68
120-130	954.88
130-140	1158.08
140-150	1182.54
150-160	1008.27
160-170	671.45
170-180	234.59

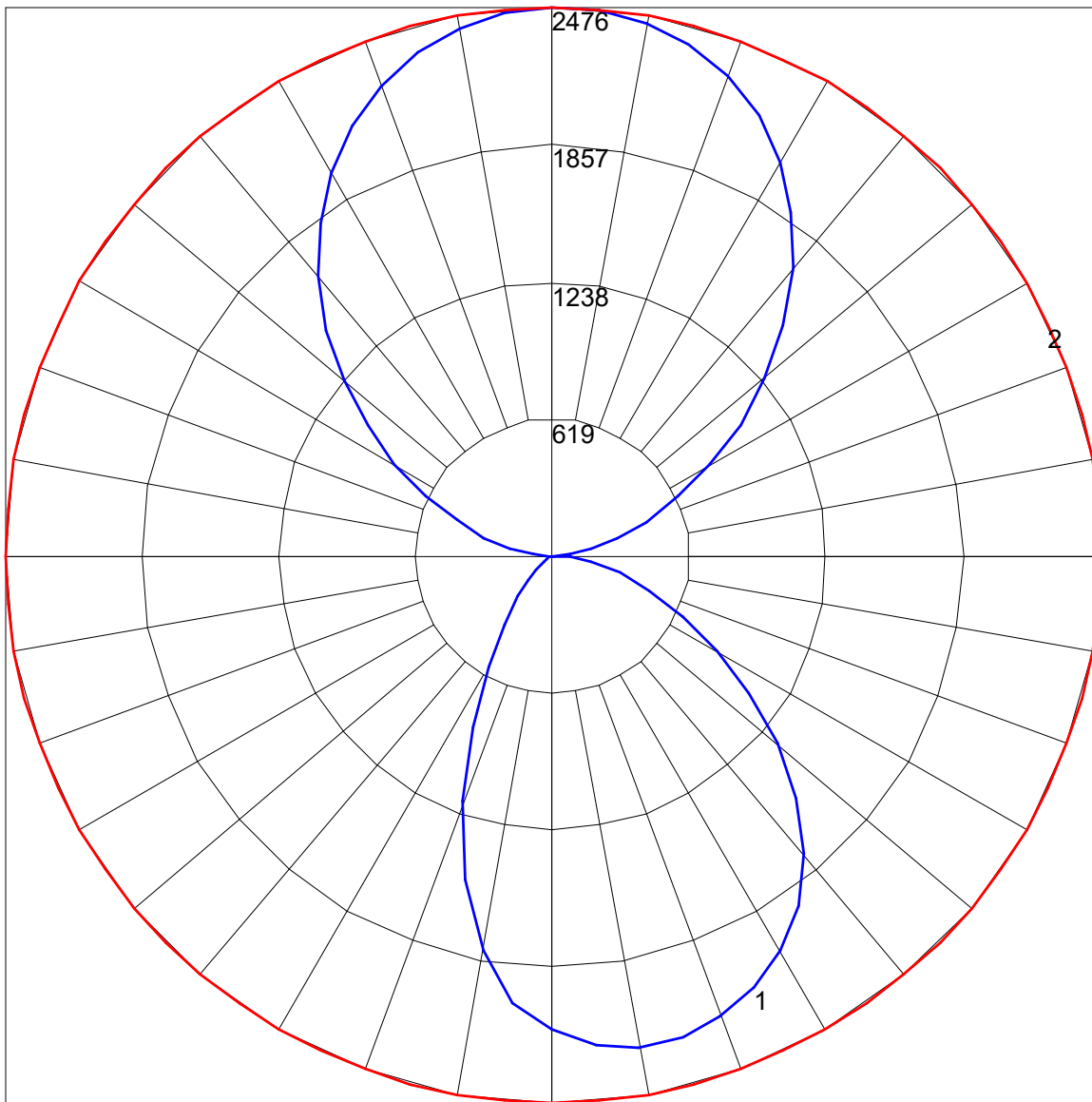
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1_BL.IES

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	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	39	37	36	31
3	80	71	64	59	73	66	59	55	54	50	46	44	41	38	35	32	31	26
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	26	23	21	18
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 2475.7 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.)