

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-HO-35-U1A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	100	103	105
Total Lumens, 4' rail length (1219mm)	10390	10718	10937	11155
Lumens per foot (305mm)	2597	2679	2734	2789
Lumens per foot UP (305mm)	1686	1739	1775	1720
Lumens per foot DOWN (305mm)	912	940	960	930
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_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-35-U1A1
 [LUMINAIRE] ZipThree LED, 48", 3500K, 80 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	10917
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	37870	35791	13912
55	34045	33276	13323
65	27661	27462	11865
75	19961	19943	9730
85	9287	9110	5431

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2
5	1236.4	1234.2	1232.0	1225.4	1216.6	1207.8	1194.6	1181.4	1166.0	1148.4
10	1562.0	1559.8	1551.0	1537.8	1520.2	1498.2	1471.8	1441.0	1405.8	1366.2
15	1881.0	1876.6	1865.6	1845.8	1819.4	1786.4	1746.8	1698.4	1645.6	1584.0
20	2145.0	2140.6	2127.4	2105.4	2074.6	2035.0	1988.8	1929.4	1861.2	1786.4
25	2321.0	2316.6	2305.6	2283.6	2252.8	2215.4	2164.8	2105.4	2030.6	1947.0
30	2393.6	2389.2	2380.4	2362.8	2336.4	2303.4	2259.4	2204.4	2134.0	2052.6
35	2369.4	2367.2	2358.4	2345.2	2325.4	2296.8	2261.6	2217.6	2160.4	2087.8
40	2261.6	2259.4	2252.8	2244.0	2228.6	2208.8	2182.4	2147.2	2101.0	2041.6
45	2081.2	2081.2	2076.8	2070.2	2059.2	2046.0	2026.2	1999.8	1964.6	1918.4
50	1848.0	1848.0	1845.8	1839.2	1832.6	1821.6	1808.4	1788.6	1764.4	1731.4
55	1579.6	1577.4	1575.2	1573.0	1566.4	1557.6	1546.6	1533.4	1515.8	1491.6
60	1291.4	1291.4	1289.2	1287.0	1282.6	1276.0	1267.2	1256.2	1240.8	1223.2
65	1007.6	1007.6	1005.4	1003.2	998.8	994.4	985.6	976.8	965.8	952.6
70	743.6	741.4	741.4	739.2	734.8	730.4	723.8	717.2	710.6	699.6
75	506.0	506.0	503.8	501.6	499.4	495.0	490.6	484.0	477.4	468.6
80	297.0	297.0	294.8	292.6	290.4	288.2	283.8	279.4	275.0	268.4
85	125.4	125.4	125.4	123.2	121.0	118.8	116.6	114.4	110.0	105.6
90	46.2	46.2	46.2	46.2	44.0	41.8	39.6	37.4	33.0	30.8
95	147.4	147.4	145.2	145.2	143.0	140.8	136.4	134.2	129.8	123.2
100	283.8	281.6	281.6	281.6	279.4	277.2	272.8	270.6	266.2	259.6
105	444.4	444.4	444.4	444.4	442.2	440.0	437.8	435.6	431.2	426.8
110	638.0	638.0	638.0	638.0	638.0	635.8	633.6	629.2	627.0	622.6
115	858.0	858.0	858.0	858.0	855.8	855.8	853.6	849.2	847.0	842.6
120	1097.8	1097.8	1097.8	1095.6	1095.6	1095.6	1093.4	1093.4	1089.0	1086.8
125	1344.2	1344.2	1344.2	1344.2	1342.0	1342.0	1342.0	1342.0	1339.8	1337.6
130	1586.2	1586.2	1584.0	1584.0	1584.0	1584.0	1584.0	1581.8	1581.8	1581.8
135	1808.4	1808.4	1808.4	1808.4	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2
140	2006.4	2006.4	2006.4	2006.4	2006.4	2004.2	2004.2	2004.2	2004.2	2004.2
145	2178.0	2178.0	2178.0	2178.0	2178.0	2175.8	2175.8	2175.8	2175.8	2173.6
150	2323.2	2323.2	2323.2	2321.0	2321.0	2321.0	2318.8	2318.8	2318.8	2316.6
155	2442.0	2442.0	2442.0	2439.8	2439.8	2439.8	2437.6	2437.6	2435.4	2435.4
160	2534.4	2534.4	2534.4	2534.4	2534.4	2532.2	2532.2	2530.0	2530.0	2527.8
165	2604.8	2604.8	2604.8	2604.8	2602.6	2602.6	2602.6	2600.4	2600.4	2600.4
170	2651.0	2651.0	2651.0	2651.0	2651.0	2651.0	2651.0	2648.8	2648.8	2648.8
175	2679.6	2679.6	2679.6	2679.6	2679.6	2677.4	2677.4	2677.4	2677.4	2677.4
180	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2

Vert. Angles Horizontal Angles

	50	55	60	65	70	75	80	85	90	95
0	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2
5	1130.8	1111.0	1089.0	1067.0	1045.0	1023.0	1001.0	979.0	954.8	935.0
10	1324.4	1280.4	1232.0	1183.6	1137.4	1089.0	1038.4	992.2	946.0	904.2
15	1520.2	1449.8	1375.0	1300.2	1225.4	1146.2	1071.4	1001.0	930.6	866.8
20	1702.8	1610.4	1511.4	1408.0	1304.6	1199.0	1097.8	1001.0	908.6	827.2
25	1854.6	1744.6	1625.8	1500.4	1372.8	1240.8	1115.4	994.4	880.0	781.0
30	1955.8	1841.4	1711.6	1568.6	1423.4	1269.4	1122.0	976.8	844.8	732.6
35	1997.6	1885.4	1755.6	1606.0	1449.8	1278.2	1106.6	948.2	805.2	679.8
40	1962.4	1867.8	1746.8	1601.6	1441.0	1267.2	1078.0	908.6	741.4	616.0
45	1859.0	1779.8	1672.0	1544.4	1392.6	1221.0	1034.0	858.0	695.2	552.2
50	1685.2	1623.6	1542.2	1434.4	1295.8	1137.4	957.0	761.2	622.6	486.2
55	1458.6	1412.4	1350.8	1267.2	1150.6	1007.6	851.4	693.0	541.2	415.8
60	1199.0	1166.0	1119.8	1053.8	965.8	849.2	721.6	583.0	453.2	345.4

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CANDELA TABULATION - (Cont.)

65	932.8	908.6	873.4	825.0	759.0	673.2	572.0	459.8	356.4	275.0
70	684.2	664.4	638.0	602.8	556.6	495.0	418.0	341.0	266.2	204.6
75	457.6	444.4	424.6	400.4	369.6	330.0	279.4	226.6	180.4	138.6
80	259.6	250.8	239.8	224.4	206.8	182.6	156.2	127.6	101.2	77.0
85	101.2	96.8	90.2	83.6	77.0	68.2	57.2	46.2	35.2	28.6
90	26.4	22.0	17.6	15.4	11.0	8.8	6.6	4.4	2.2	2.2
95	118.8	112.2	105.6	99.0	92.4	85.8	79.2	72.6	66.0	59.4
100	255.2	248.6	242.0	233.2	226.6	215.6	206.8	198.0	187.0	178.2
105	420.2	413.6	407.0	398.2	389.4	380.6	369.6	358.6	347.6	336.6
110	616.0	609.4	602.8	596.2	587.4	578.6	567.6	556.6	543.4	530.2
115	838.2	833.8	827.2	820.6	814.0	805.2	794.2	783.2	770.0	754.6
120	1082.4	1078.0	1075.8	1069.2	1064.8	1056.0	1045.0	1034.0	1020.8	1007.6
125	1335.4	1331.0	1328.8	1324.4	1320.0	1313.4	1302.4	1293.6	1280.4	1267.2
130	1579.6	1577.4	1575.2	1570.8	1566.4	1559.8	1551.0	1542.2	1531.2	1520.2
135	1806.2	1804.0	1801.8	1797.4	1793.0	1786.4	1779.8	1771.0	1762.2	1755.6
140	2004.2	2002.0	1999.8	1995.4	1991.0	1986.6	1980.0	1973.4	1969.0	1962.4
145	2173.6	2171.4	2169.2	2164.8	2162.6	2158.2	2153.8	2149.4	2145.0	2140.6
150	2314.4	2312.2	2310.0	2307.8	2303.4	2301.2	2296.8	2294.6	2292.4	2288.0
155	2433.2	2431.0	2428.8	2426.6	2424.4	2420.0	2417.8	2415.6	2415.6	2413.4
160	2525.6	2525.6	2523.4	2521.2	2519.0	2516.8	2516.8	2514.6	2514.6	2512.4
165	2598.2	2598.2	2596.0	2593.8	2593.8	2593.8	2591.6	2591.6	2589.4	2589.4
170	2648.8	2646.6	2646.6	2646.6	2646.6	2644.4	2644.4	2644.4	2644.4	2644.4
175	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2675.2
180	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2	959.2
5	913.0	891.0	873.4	853.6	836.0	820.6	805.2	792.0	778.8	767.8
10	862.4	820.6	785.4	750.2	719.4	690.8	666.6	642.4	622.6	605.0
15	807.4	750.2	701.8	655.6	613.8	578.6	547.8	519.2	495.0	475.2
20	752.4	682.0	620.4	569.8	521.4	481.8	448.8	418.0	393.8	374.0
25	693.0	613.8	545.6	488.4	437.8	398.2	367.4	336.6	314.6	294.8
30	633.6	545.6	475.2	418.0	367.4	330.0	299.2	272.8	253.0	237.6
35	574.2	484.0	411.4	354.2	308.0	272.8	246.4	224.4	209.0	195.8
40	508.2	418.0	349.8	297.0	255.2	226.6	204.6	187.0	176.0	167.2
45	444.4	358.6	294.8	248.6	213.4	189.2	173.8	160.6	151.8	147.4
50	382.8	305.8	248.6	206.8	182.6	160.6	147.4	138.6	132.0	127.6
55	321.2	255.2	206.8	180.4	151.8	136.4	127.6	118.8	114.4	112.2
60	266.2	209.0	178.2	145.2	125.4	114.4	105.6	101.2	96.8	92.4
65	211.2	171.6	136.4	116.6	103.4	92.4	85.8	81.4	77.0	74.8
70	160.6	125.4	103.4	90.2	79.2	70.4	66.0	61.6	57.2	55.0
75	107.8	85.8	72.6	61.6	55.0	48.4	44.0	41.8	39.6	37.4
80	61.6	50.6	41.8	35.2	30.8	28.6	24.2	24.2	22.0	19.8
85	22.0	17.6	15.4	13.2	11.0	11.0	8.8	8.8	8.8	6.6
90	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
95	55.0	50.6	46.2	41.8	37.4	35.2	33.0	30.8	28.6	28.6
100	169.4	162.8	154.0	147.4	140.8	134.2	127.6	123.2	118.8	114.4
105	325.6	314.6	303.6	294.8	283.8	275.0	266.2	257.4	250.8	244.2
110	517.0	503.8	490.6	477.4	466.4	453.2	442.2	431.2	420.2	409.2
115	739.2	726.0	710.6	697.4	682.0	666.6	653.4	638.0	627.0	613.8
120	992.2	976.8	961.4	943.8	926.2	910.8	895.4	880.0	864.6	851.4
125	1254.0	1238.6	1223.2	1207.8	1190.2	1174.8	1159.4	1144.0	1128.6	1115.4
130	1509.2	1498.2	1485.0	1471.8	1456.4	1443.2	1427.8	1412.4	1399.2	1386.0
135	1746.8	1738.0	1727.0	1718.2	1705.0	1694.0	1680.8	1669.8	1656.6	1645.6

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CANDELA TABULATION - (Cont.)

140	1955.8	1949.2	1942.6	1936.0	1927.2	1918.4	1909.6	1898.6	1892.0	1883.2
145	2136.2	2131.8	2127.4	2123.0	2116.4	2109.8	2105.4	2098.8	2092.2	2085.6
150	2285.8	2283.6	2281.4	2279.2	2274.8	2270.4	2268.2	2263.8	2259.4	2257.2
155	2411.2	2409.0	2409.0	2406.8	2404.6	2402.4	2400.2	2398.0	2395.8	2395.8
160	2512.4	2510.2	2510.2	2508.0	2508.0	2508.0	2505.8	2505.8	2503.6	2503.6
165	2589.4	2589.4	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2585.0	2585.0
170	2644.4	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2
175	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2
180	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	959.2	959.2	959.2	959.2	959.2	959.2	959.2
5	756.8	750.2	743.6	739.2	734.8	732.6	732.6
10	589.6	576.4	565.4	558.8	552.2	550.0	547.8
15	457.6	444.4	433.4	424.6	418.0	413.6	411.4
20	356.4	343.2	332.2	323.4	319.0	314.6	314.6
25	279.4	268.4	259.6	253.0	246.4	244.2	244.2
30	224.4	215.6	209.0	202.4	200.2	198.0	198.0
35	187.0	182.6	176.0	173.8	171.6	169.4	169.4
40	162.8	158.4	154.0	151.8	151.8	149.6	149.6
45	143.0	138.6	136.4	136.4	134.2	134.2	134.2
50	125.4	123.2	121.0	121.0	118.8	118.8	118.8
55	107.8	105.6	105.6	103.4	103.4	103.4	103.4
60	90.2	88.0	88.0	85.8	85.8	85.8	85.8
65	72.6	70.4	68.2	68.2	66.0	66.0	66.0
70	52.8	52.8	50.6	50.6	48.4	48.4	48.4
75	35.2	35.2	33.0	33.0	33.0	33.0	30.8
80	19.8	19.8	17.6	17.6	17.6	17.6	17.6
85	6.6	6.6	6.6	6.6	6.6	6.6	6.6
90	2.2	2.2	2.2	0.0	0.0	0.0	0.0
95	26.4	26.4	26.4	26.4	24.2	24.2	24.2
100	110.0	107.8	105.6	103.4	101.2	101.2	101.2
105	237.6	231.0	226.6	222.2	220.0	217.8	217.8
110	402.6	393.8	387.2	382.8	378.4	376.2	376.2
115	602.8	594.0	585.2	578.6	574.2	572.0	569.8
120	840.4	829.4	820.6	811.8	807.4	803.0	803.0
125	1102.2	1091.2	1080.2	1073.6	1069.2	1064.8	1062.6
130	1375.0	1364.0	1355.2	1346.4	1342.0	1337.6	1337.6
135	1636.8	1628.0	1619.2	1614.8	1608.2	1606.0	1606.0
140	1874.4	1867.8	1861.2	1859.0	1854.6	1852.4	1852.4
145	2081.2	2076.8	2072.4	2068.0	2065.8	2065.8	2063.6
150	2252.8	2250.6	2246.2	2246.2	2244.0	2244.0	2241.8
155	2393.6	2391.4	2389.2	2389.2	2387.0	2387.0	2387.0
160	2503.6	2501.4	2501.4	2501.4	2499.2	2499.2	2499.2
165	2585.0	2585.0	2585.0	2585.0	2585.0	2585.0	2585.0
170	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2
175	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2
180	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.79	N.A.	3.60
0-30	903.68	N.A.	8.30
0-40	1588.6	N.A.	14.60
0-60	3013.74	N.A.	27.60
0-80	3759.91	N.A.	34.40
0-90	3831.62	N.A.	35.10
10-90	3738.00	N.A.	34.20
20-40	1197.81	N.A.	11.00
20-50	1947.76	N.A.	17.80
40-70	1911.44	N.A.	17.50
60-80	746.17	N.A.	6.80
70-80	259.86	N.A.	2.40
80-90	71.71	N.A.	0.70
90-110	466.66	N.A.	4.30
90-120	1207.14	N.A.	11.10
90-130	2317.18	N.A.	21.20
90-150	4986.39	N.A.	45.70
90-180	7085.2	N.A.	64.90
110-180	6618.54	N.A.	60.60
0-180	10916.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.62
10-20	297.16
20-30	512.90
30-40	684.92
40-50	749.95
50-60	675.19
60-70	486.31
70-80	259.86
80-90	71.71
90-100	97.83
100-110	368.83
110-120	740.49
120-130	1110.03
130-140	1336.18
140-150	1333.03
150-160	1112.57
160-170	731.75
170-180	254.49

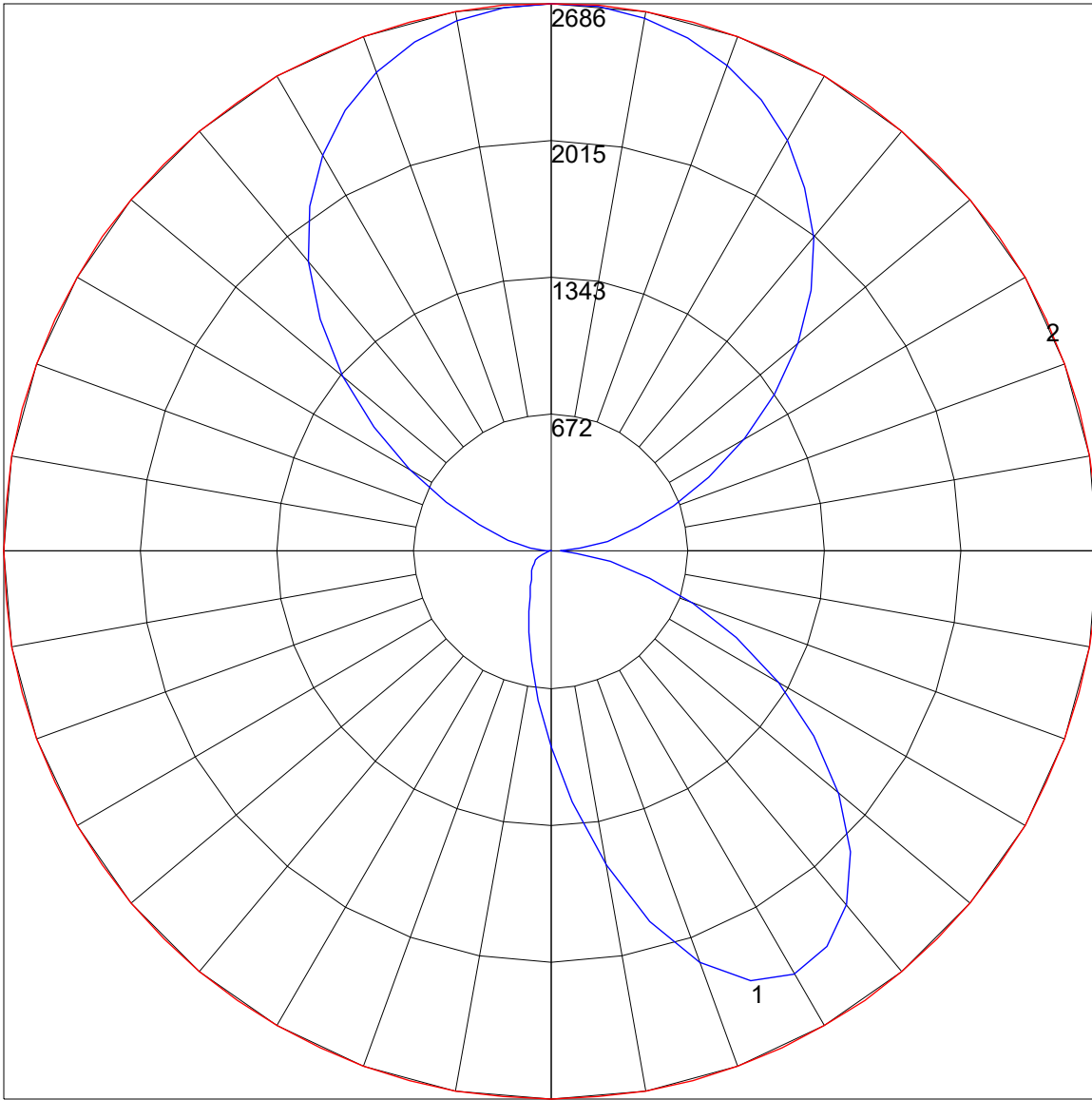
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1.IES

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 = 2686.2 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.)