

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	111	114	117	117
Total Lumens, 4' rail length (1219mm)	11883	12258	12508	12508
Lumens per foot (305mm)	2971	3065	3127	3127
Lumens per foot UP (305mm)	1738	1793	1830	1830
Lumens per foot DOWN (305mm)	1233	1271	1297	1297
Input Power (W), 4' rail length (1219mm)	107.7	107.7	107.7	107.7
Watts per foot (305mm)	27.0	27.0	27.0	27.0
CRI	82	82	82	82

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_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-35-U1A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 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	12486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	36237	37540	34836
55	29907	31786	30082
65	22530	24277	23820
75	15303	16636	17107
85	7529	8058	9865

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PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1_BL.IES

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	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
5	2569.6	2569.6	2567.4	2567.4	2565.2	2563.0	2558.6	2556.4	2552.0	2545.4
10	2615.8	2615.8	2615.8	2613.6	2609.2	2607.0	2600.4	2596.0	2589.4	2580.6
15	2615.8	2613.6	2613.6	2611.4	2609.2	2604.8	2598.2	2591.6	2585.0	2574.0
20	2574.0	2571.8	2571.8	2569.6	2565.2	2563.0	2556.4	2549.8	2543.2	2532.2
25	2497.0	2494.8	2494.8	2492.6	2490.4	2486.0	2481.6	2475.0	2468.4	2459.6
30	2384.8	2384.8	2384.8	2382.6	2380.4	2376.0	2371.6	2367.2	2360.6	2351.8
35	2235.2	2235.2	2235.2	2235.2	2233.0	2230.8	2228.6	2224.2	2217.6	2211.0
40	2039.4	2039.4	2039.4	2041.6	2041.6	2041.6	2041.6	2039.4	2037.2	2032.8
45	1801.8	1801.8	1804.0	1804.0	1806.2	1810.6	1812.8	1815.0	1815.0	1815.0
50	1535.6	1535.6	1537.8	1540.0	1542.2	1546.6	1551.0	1555.4	1557.6	1562.0
55	1260.6	1260.6	1262.8	1265.0	1267.2	1271.6	1276.0	1280.4	1284.8	1289.2
60	994.4	994.4	996.6	996.6	1001.0	1003.2	1005.4	1009.8	1014.2	1018.6
65	750.2	750.2	750.2	752.4	752.4	754.6	756.8	761.2	763.4	765.6
70	539.0	539.0	541.2	541.2	541.2	543.4	543.4	545.6	545.6	547.8
75	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
80	211.2	211.2	211.2	211.2	211.2	209.0	209.0	209.0	206.8	206.8
85	96.8	96.8	96.8	96.8	94.6	94.6	92.4	92.4	90.2	88.0
90	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
95	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
100	209.0	209.0	209.0	209.0	211.2	211.2	211.2	213.4	213.4	215.6
105	354.2	354.2	354.2	356.4	356.4	358.6	360.8	363.0	365.2	367.4
110	525.8	525.8	528.0	530.2	532.4	534.6	539.0	541.2	545.6	550.0
115	728.2	728.2	730.4	732.6	734.8	739.2	743.6	748.0	754.6	759.0
120	954.8	954.8	957.0	959.2	961.4	968.0	972.4	979.0	985.6	992.2
125	1199.0	1199.0	1201.2	1205.6	1210.0	1214.4	1221.0	1227.6	1234.2	1243.0
130	1456.4	1456.4	1458.6	1463.0	1467.4	1471.8	1478.4	1485.0	1493.8	1500.4
135	1713.8	1713.8	1716.0	1720.4	1724.8	1729.2	1735.8	1742.4	1751.2	1757.8
140	1962.4	1962.4	1964.6	1966.8	1971.2	1975.6	1982.2	1986.6	1993.2	1999.8
145	2186.8	2189.0	2191.2	2193.4	2195.6	2200.0	2204.4	2208.8	2213.2	2219.8
150	2384.8	2384.8	2387.0	2389.2	2391.4	2393.6	2395.8	2400.2	2402.4	2404.6
155	2549.8	2549.8	2549.8	2552.0	2554.2	2554.2	2556.4	2558.6	2560.8	2560.8
160	2677.4	2677.4	2677.4	2677.4	2677.4	2679.6	2679.6	2679.6	2679.6	2681.8
165	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8
170	2831.4	2831.4	2831.4	2831.4	2831.4	2831.4	2831.4	2831.4	2831.4	2831.4
175	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2
180	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6

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	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
5	2541.0	2534.4	2527.8	2521.2	2512.4	2503.6	2494.8	2486.0	2477.2	2468.4
10	2571.8	2560.8	2547.6	2534.4	2521.2	2503.6	2486.0	2466.2	2446.4	2424.4
15	2563.0	2552.0	2536.6	2519.0	2499.2	2479.4	2453.0	2424.4	2393.6	2358.4
20	2521.2	2508.0	2492.6	2472.8	2450.8	2426.6	2393.6	2358.4	2316.6	2268.2
25	2448.6	2435.4	2417.8	2398.0	2373.8	2345.2	2310.0	2266.0	2217.6	2153.8
30	2340.8	2327.6	2312.2	2292.4	2268.2	2239.6	2200.0	2149.4	2090.0	2015.2
35	2202.2	2191.2	2175.8	2156.0	2131.8	2101.0	2059.2	2008.6	1938.2	1852.4
40	2026.2	2015.2	2004.2	1986.6	1964.6	1933.8	1892.0	1837.0	1762.2	1663.2
45	1810.6	1804.0	1795.2	1782.0	1762.2	1733.6	1691.8	1636.8	1557.6	1454.2
50	1562.0	1559.8	1553.2	1544.4	1526.8	1502.6	1465.2	1412.4	1333.2	1227.6
55	1291.4	1293.6	1291.4	1284.8	1271.6	1249.6	1216.6	1166.0	1093.4	1001.0
60	1020.8	1023.0	1020.8	1016.4	1007.6	990.0	961.4	919.6	860.2	754.6

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PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1_BL.IES

CANDELA TABULATION - (Cont.)

65	765.6	767.8	765.6	761.2	754.6	741.4	721.6	688.6	640.2	572.0
70	547.8	547.8	545.6	541.2	534.6	523.6	508.2	484.0	446.6	393.8
75	356.4	356.4	354.2	352.0	345.4	338.8	325.6	310.2	283.8	253.0
80	204.6	202.4	200.2	195.8	193.6	187.0	180.4	169.4	154.0	136.4
85	85.8	83.6	81.4	79.2	77.0	72.6	70.4	63.8	57.2	48.4
90	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6
95	92.4	92.4	92.4	92.4	90.2	90.2	90.2	90.2	90.2	92.4
100	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	217.8
105	369.6	371.8	374.0	376.2	376.2	378.4	378.4	378.4	378.4	380.6
110	554.4	558.8	561.0	563.2	565.4	567.6	567.6	567.6	569.8	569.8
115	763.4	770.0	774.4	776.6	778.8	781.0	783.2	783.2	783.2	783.2
120	998.8	1005.4	1009.8	1014.2	1018.6	1020.8	1020.8	1020.8	1020.8	1018.6
125	1249.6	1256.2	1262.8	1269.4	1271.6	1276.0	1276.0	1276.0	1276.0	1271.6
130	1509.2	1515.8	1522.4	1529.0	1533.4	1535.6	1537.8	1537.8	1535.6	1531.2
135	1766.6	1773.2	1779.8	1784.2	1788.6	1790.8	1793.0	1793.0	1790.8	1786.4
140	2006.4	2013.0	2017.4	2021.8	2024.0	2026.2	2028.4	2028.4	2026.2	2021.8
145	2224.2	2228.6	2230.8	2233.0	2235.2	2237.4	2237.4	2235.2	2235.2	2230.8
150	2409.0	2411.2	2413.4	2415.6	2415.6	2415.6	2415.6	2415.6	2411.2	2409.0
155	2560.8	2563.0	2563.0	2565.2	2565.2	2563.0	2563.0	2563.0	2560.8	2556.4
160	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2679.6	2679.6	2677.4	2673.0
165	2769.8	2769.8	2769.8	2769.8	2769.8	2769.8	2767.6	2767.6	2765.4	2763.2
170	2831.4	2831.4	2829.2	2829.2	2829.2	2829.2	2827.0	2827.0	2824.8	2824.8
175	2862.2	2862.2	2862.2	2862.2	2862.2	2860.0	2860.0	2860.0	2860.0	2857.8
180	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
5	2457.4	2448.6	2437.6	2428.8	2417.8	2409.0	2400.2	2391.4	2382.6	2376.0
10	2402.4	2378.2	2354.0	2327.6	2301.2	2274.8	2250.6	2224.2	2202.2	2178.0
15	2321.0	2279.2	2237.4	2191.2	2145.0	2096.6	2050.4	1999.8	1955.8	1911.8
20	2217.6	2158.2	2090.0	2021.8	1949.2	1876.6	1801.8	1724.8	1656.6	1592.8
25	2085.6	2006.4	1914.0	1819.4	1720.4	1619.2	1520.2	1419.0	1333.2	1251.8
30	1929.4	1830.4	1711.6	1592.8	1467.4	1344.2	1225.4	1113.2	1018.6	932.8
35	1751.2	1630.2	1493.8	1348.6	1207.8	1073.6	950.4	836.0	743.6	664.4
40	1548.8	1414.6	1260.6	1104.4	957.0	825.0	708.4	605.0	523.6	457.6
45	1331.0	1188.0	1029.6	873.4	737.0	616.0	510.4	426.8	360.8	308.0
50	1104.4	961.4	809.6	675.4	543.4	442.2	360.8	294.8	244.2	204.6
55	884.4	741.4	620.4	501.6	393.8	314.6	253.0	200.2	165.0	138.6
60	675.4	563.2	457.6	363.0	281.6	222.2	182.6	140.8	114.4	96.8
65	492.8	404.8	325.6	257.4	198.0	156.2	123.2	99.0	81.4	68.2
70	338.8	279.4	220.0	180.4	136.4	105.6	83.6	68.2	55.0	46.2
75	215.6	178.2	140.8	112.2	88.0	68.2	52.8	44.0	37.4	30.8
80	114.4	94.6	74.8	59.4	48.4	37.4	30.8	24.2	22.0	17.6
85	41.8	35.2	28.6	22.0	17.6	15.4	13.2	11.0	8.8	6.6
90	8.8	8.8	11.0	11.0	11.0	11.0	13.2	13.2	13.2	13.2
95	94.6	96.8	101.2	103.4	103.4	105.6	107.8	107.8	107.8	107.8
100	222.2	224.4	226.6	228.8	228.8	231.0	231.0	231.0	228.8	228.8
105	380.6	382.8	385.0	385.0	385.0	382.8	382.8	380.6	380.6	378.4
110	569.8	569.8	569.8	569.8	567.6	565.4	561.0	558.8	556.6	552.2
115	781.0	778.8	778.8	776.6	774.4	770.0	765.6	761.2	756.8	752.4
120	1016.4	1014.2	1009.8	1005.4	1001.0	996.6	992.2	985.6	981.2	974.6
125	1269.4	1265.0	1258.4	1251.8	1245.2	1238.6	1232.0	1225.4	1218.8	1214.4
130	1526.8	1520.2	1513.6	1504.8	1496.0	1489.4	1480.6	1474.0	1467.4	1458.6
135	1779.8	1773.2	1764.4	1755.6	1744.6	1735.8	1727.0	1718.2	1711.6	1702.8

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1_BL.IES

CANDELA TABULATION - (Cont.)

140	2015.2	2008.6	1997.6	1988.8	1977.8	1969.0	1960.2	1951.4	1942.6	1936.0
145	2224.2	2217.6	2208.8	2200.0	2191.2	2180.2	2171.4	2162.6	2156.0	2149.4
150	2402.4	2398.0	2391.4	2382.6	2373.8	2367.2	2358.4	2349.6	2343.0	2338.6
155	2554.2	2549.8	2543.2	2536.6	2530.0	2525.6	2519.0	2512.4	2505.8	2499.2
160	2670.8	2668.6	2664.2	2659.8	2655.4	2651.0	2646.6	2642.2	2637.8	2633.4
165	2761.0	2758.8	2756.6	2754.4	2750.0	2747.8	2745.6	2741.2	2739.0	2736.8
170	2822.6	2822.6	2820.4	2818.2	2818.2	2816.0	2813.8	2813.8	2811.6	2809.4
175	2857.8	2857.8	2857.8	2855.6	2855.6	2855.6	2855.6	2853.4	2853.4	2853.4
180	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
5	2369.4	2362.8	2358.4	2354.0	2351.8	2349.6	2349.6
10	2158.2	2140.6	2125.2	2114.2	2105.4	2098.8	2098.8
15	1874.4	1839.2	1810.6	1788.6	1771.0	1762.2	1757.8
20	1533.4	1485.0	1443.2	1410.2	1386.0	1372.8	1368.4
25	1181.4	1124.2	1073.6	1036.2	1012.0	996.6	990.0
30	860.2	803.0	756.8	721.6	697.4	684.2	677.6
35	600.6	550.0	510.4	481.8	459.8	448.8	444.4
40	404.8	365.2	332.2	310.2	294.8	286.0	283.8
45	268.4	237.6	213.4	198.0	187.0	180.4	178.2
50	182.6	156.2	140.8	127.6	121.0	116.6	114.4
55	118.8	103.4	92.4	85.8	81.4	77.0	77.0
60	81.4	72.6	63.8	59.4	55.0	55.0	52.8
65	57.2	50.6	46.2	41.8	39.6	39.6	37.4
70	39.6	35.2	33.0	30.8	28.6	26.4	26.4
75	26.4	24.2	22.0	19.8	19.8	17.6	17.6
80	15.4	13.2	13.2	13.2	11.0	11.0	11.0
85	6.6	6.6	6.6	4.4	4.4	4.4	4.4
90	13.2	13.2	13.2	13.2	13.2	13.2	13.2
95	107.8	107.8	107.8	107.8	107.8	107.8	107.8
100	228.8	228.8	226.6	226.6	226.6	226.6	226.6
105	376.2	374.0	374.0	371.8	371.8	369.6	369.6
110	550.0	547.8	545.6	543.4	541.2	539.0	539.0
115	748.0	745.8	741.4	739.2	737.0	734.8	734.8
120	970.2	963.6	961.4	957.0	954.8	952.6	952.6
125	1207.8	1201.2	1196.8	1192.4	1190.2	1188.0	1188.0
130	1452.0	1447.6	1443.2	1438.8	1434.4	1432.2	1432.2
135	1696.2	1691.8	1685.2	1680.8	1678.6	1676.4	1676.4
140	1929.4	1922.8	1918.4	1914.0	1911.8	1909.6	1909.6
145	2142.8	2136.2	2131.8	2129.6	2125.2	2125.2	2125.2
150	2329.8	2325.4	2323.2	2318.8	2316.6	2314.4	2314.4
155	2494.8	2490.4	2488.2	2483.8	2481.6	2481.6	2479.4
160	2631.2	2626.8	2624.6	2622.4	2620.2	2620.2	2618.0
165	2734.6	2732.4	2730.2	2730.2	2728.0	2728.0	2728.0
170	2809.4	2807.2	2807.2	2805.0	2805.0	2805.0	2805.0
175	2853.4	2853.4	2853.4	2851.2	2851.2	2851.2	2851.2
180	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	876.47	N.A.	7.00
0-30	1778.55	N.A.	14.20
0-40	2768.26	N.A.	22.20
0-60	4413.56	N.A.	35.30
0-80	5116.92	N.A.	41.00
0-90	5180.31	N.A.	41.50
10-90	4946.86	N.A.	39.60
20-40	1891.8	N.A.	15.20
20-50	2812.78	N.A.	22.50
40-70	2114.58	N.A.	16.90
60-80	703.36	N.A.	5.60
70-80	234.08	N.A.	1.90
80-90	63.39	N.A.	0.50
90-110	515.99	N.A.	4.10
90-120	1272.89	N.A.	10.20
90-130	2378.54	N.A.	19.10
90-150	5088.73	N.A.	40.80
90-180	7305.3	N.A.	58.50
110-180	6789.31	N.A.	54.40
0-180	12485.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.45
10-20	643.02
20-30	902.08
30-40	989.72
40-50	920.98
50-60	724.31
60-70	469.28
70-80	234.08
80-90	63.39
90-100	115.32
100-110	400.67
110-120	756.89
120-130	1105.65
130-140	1340.93
140-150	1369.26
150-160	1167.47
160-170	777.47
170-180	271.63

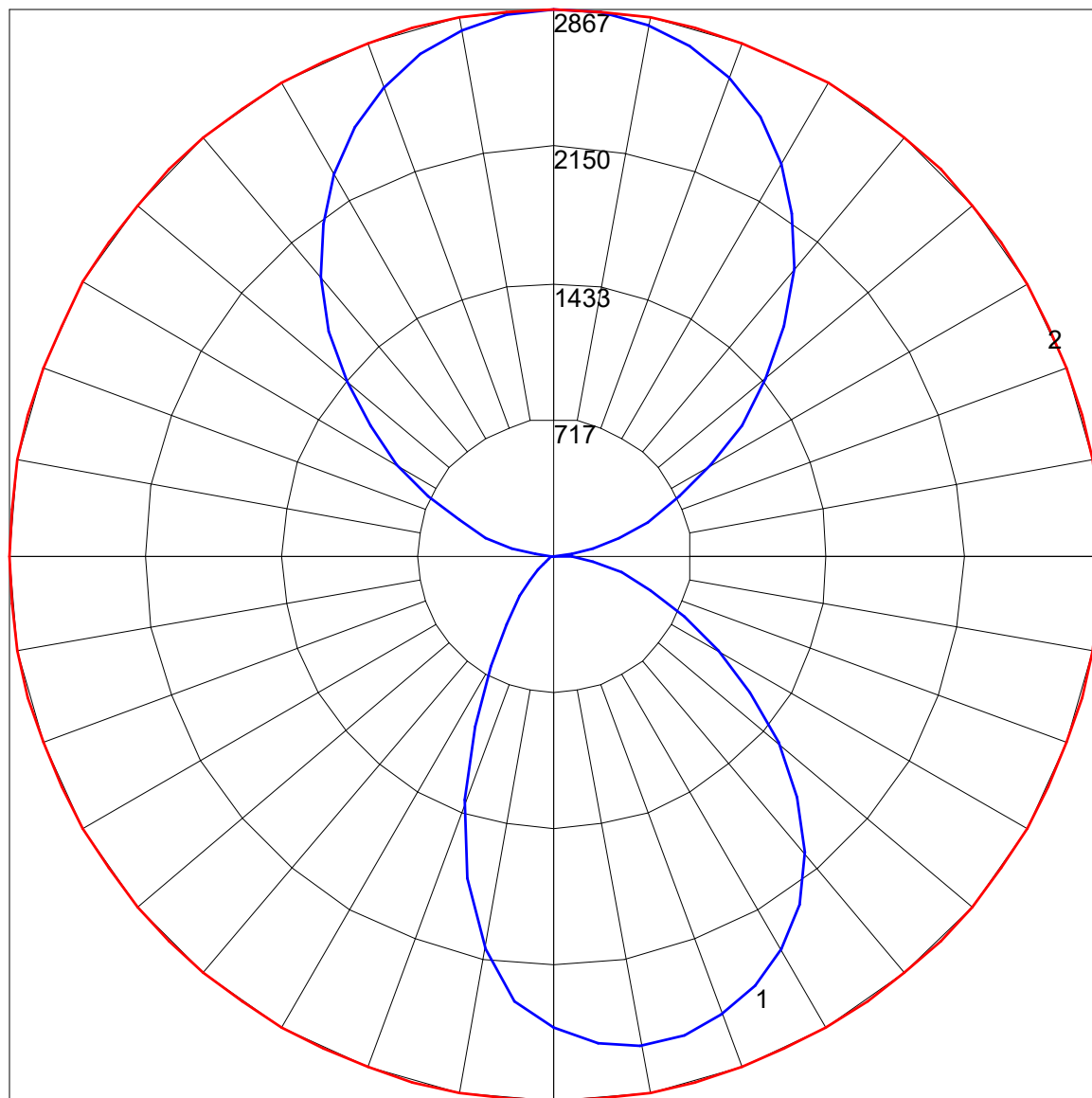
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1_BL.IES

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 = 2866.6 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.)