

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	119	123	125	125
Total Lumens, 4' rail length (1219mm)	12781	13185	13454	13454
Lumens per foot (305mm)	3195	3296	3363	3363
Lumens per foot UP (305mm)	1895	1955	1995	1995
Lumens per foot DOWN (305mm)	1300	1341	1369	1369
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 (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-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens up/85° asymmetric lens down,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	43670	43501	33458
55	37840	38458	29235
65	29731	30695	23656
75	20654	21637	17505
85	9240	9871	10244

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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	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
5	2580.6	2580.6	2578.4	2574.0	2569.6	2563.0	2556.4	2547.6	2536.6	2525.6
10	2736.8	2734.6	2732.4	2725.8	2719.2	2706.0	2695.0	2679.6	2659.8	2642.2
15	2820.4	2818.2	2813.8	2807.2	2798.4	2785.2	2769.8	2752.2	2730.2	2703.8
20	2838.0	2835.8	2833.6	2827.0	2818.2	2802.8	2787.4	2767.6	2745.6	2719.2
25	2800.6	2800.6	2796.2	2789.6	2780.8	2767.6	2754.4	2734.6	2710.4	2684.0
30	2719.2	2717.0	2714.8	2708.2	2699.4	2686.2	2673.0	2653.2	2631.2	2607.0
35	2587.2	2587.2	2582.8	2578.4	2569.6	2558.6	2545.4	2530.0	2508.0	2483.8
40	2404.6	2402.4	2402.4	2398.0	2391.4	2382.6	2371.6	2356.2	2338.6	2316.6
45	2171.4	2171.4	2169.2	2167.0	2162.6	2153.8	2147.2	2136.2	2120.8	2103.2
50	1896.4	1896.4	1894.2	1894.2	1889.8	1885.4	1878.8	1872.2	1861.2	1845.8
55	1595.0	1595.0	1595.0	1592.8	1590.6	1588.4	1584.0	1577.4	1568.6	1559.8
60	1287.0	1287.0	1287.0	1284.8	1282.6	1282.6	1278.2	1273.8	1267.2	1258.4
65	990.0	990.0	990.0	990.0	987.8	985.6	983.4	981.2	974.6	968.0
70	723.8	723.8	723.8	723.8	721.6	721.6	719.4	715.0	710.6	706.2
75	484.0	484.0	484.0	484.0	481.8	481.8	479.6	475.2	473.0	466.4
80	279.4	279.4	279.4	279.4	279.4	277.2	275.0	272.8	270.6	266.2
85	118.8	118.8	118.8	118.8	116.6	114.4	114.4	112.2	110.0	107.8
90	44.0	44.0	41.8	41.8	39.6	37.4	35.2	30.8	28.6	26.4
95	132.0	132.0	132.0	129.8	127.6	125.4	123.2	121.0	116.6	114.4
100	257.4	257.4	257.4	255.2	255.2	253.0	253.0	250.8	248.6	246.4
105	418.0	418.0	418.0	418.0	418.0	418.0	418.0	415.8	415.8	415.8
110	611.6	611.6	613.8	613.8	613.8	613.8	616.0	616.0	618.2	618.2
115	836.0	838.2	838.2	838.2	840.4	842.6	844.8	847.0	849.2	851.4
120	1089.0	1089.0	1091.2	1091.2	1093.4	1095.6	1100.0	1102.2	1106.6	1111.0
125	1359.6	1359.6	1359.6	1361.8	1364.0	1368.4	1370.6	1375.0	1381.6	1386.0
130	1632.4	1632.4	1634.6	1636.8	1639.0	1641.2	1645.6	1650.0	1656.6	1661.0
135	1894.2	1896.4	1896.4	1898.6	1903.0	1905.2	1909.6	1914.0	1918.4	1925.0
140	2138.4	2138.4	2138.4	2140.6	2142.8	2147.2	2149.4	2153.8	2158.2	2162.6
145	2349.6	2349.6	2349.6	2351.8	2354.0	2356.2	2358.4	2362.8	2365.0	2367.2
150	2530.0	2530.0	2530.0	2530.0	2532.2	2534.4	2536.6	2538.8	2541.0	2543.2
155	2677.4	2677.4	2677.4	2677.4	2679.6	2679.6	2681.8	2681.8	2684.0	2684.0
160	2794.0	2794.0	2794.0	2794.0	2796.2	2796.2	2796.2	2796.2	2798.4	2798.4
165	2882.0	2882.0	2882.0	2882.0	2882.0	2882.0	2882.0	2884.2	2884.2	2884.2
170	2941.4	2941.4	2943.6	2941.4	2941.4	2941.4	2941.4	2943.6	2943.6	2943.6
175	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
180	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4

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	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
5	2512.4	2499.2	2483.8	2468.4	2450.8	2433.2	2415.6	2395.8	2376.0	2354.0
10	2618.0	2593.8	2565.2	2534.4	2501.4	2466.2	2428.8	2389.2	2345.2	2299.0
15	2675.2	2642.2	2604.8	2565.2	2519.0	2470.6	2415.6	2358.4	2292.4	2224.2
20	2684.0	2648.8	2607.0	2560.8	2505.8	2446.4	2376.0	2301.2	2217.6	2127.4
25	2651.0	2613.6	2569.6	2519.0	2457.4	2387.0	2310.0	2222.0	2120.8	2008.6
30	2576.2	2536.6	2492.6	2439.8	2376.0	2301.2	2215.4	2118.6	1999.8	1870.0
35	2455.2	2417.8	2373.8	2321.0	2259.4	2182.4	2092.2	1984.4	1856.8	1711.6
40	2288.0	2252.8	2215.4	2164.8	2103.2	2026.2	1933.8	1823.8	1687.4	1533.4
45	2079.0	2048.2	2010.8	1964.6	1907.4	1832.6	1742.4	1632.4	1496.0	1337.6
50	1826.0	1801.8	1768.8	1724.8	1674.2	1606.0	1518.0	1414.6	1280.4	1133.0
55	1542.2	1522.4	1496.0	1458.6	1414.6	1353.0	1276.0	1179.2	1062.6	926.2
60	1247.4	1229.8	1207.8	1179.2	1139.6	1089.0	1023.0	941.6	840.4	723.8

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CANDELA TABULATION - (Cont.)

65	957.0	943.8	926.2	902.0	871.2	831.6	778.8	715.0	635.8	541.2
70	697.4	686.4	673.2	653.4	629.2	598.4	558.8	510.4	451.0	382.8
75	459.8	453.2	442.2	429.0	411.4	391.6	363.0	330.0	290.4	248.6
80	261.8	255.2	248.6	239.8	228.8	217.8	200.2	182.6	160.6	136.4
85	103.4	101.2	96.8	92.4	88.0	81.4	77.0	68.2	59.4	50.6
90	22.0	19.8	15.4	13.2	11.0	8.8	6.6	6.6	4.4	6.6
95	110.0	105.6	103.4	99.0	96.8	94.6	92.4	90.2	88.0	90.2
100	244.2	239.8	237.6	235.4	233.2	231.0	231.0	228.8	226.6	228.8
105	415.8	413.6	413.6	411.4	411.4	409.2	409.2	409.2	407.0	409.2
110	618.2	620.4	620.4	622.6	622.6	622.6	622.6	622.6	622.6	622.6
115	853.6	855.8	858.0	860.2	862.4	864.6	866.8	866.8	866.8	866.8
120	1113.2	1117.6	1122.0	1126.4	1130.8	1133.0	1135.2	1135.2	1135.2	1135.2
125	1390.4	1394.8	1401.4	1405.8	1410.2	1412.4	1414.6	1416.8	1416.8	1416.8
130	1667.6	1672.0	1678.6	1683.0	1687.4	1689.6	1691.8	1694.0	1694.0	1694.0
135	1929.4	1933.8	1938.2	1942.6	1947.0	1949.2	1951.4	1953.6	1953.6	1953.6
140	2167.0	2171.4	2173.6	2178.0	2180.2	2182.4	2184.6	2186.8	2186.8	2186.8
145	2371.6	2373.8	2378.2	2378.2	2382.6	2382.6	2384.8	2384.8	2387.0	2384.8
150	2545.4	2547.6	2547.6	2549.8	2552.0	2552.0	2552.0	2554.2	2554.2	2554.2
155	2686.2	2686.2	2688.4	2688.4	2690.6	2690.6	2690.6	2690.6	2690.6	2690.6
160	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2802.8	2802.8	2802.8	2802.8
165	2884.2	2884.2	2884.2	2884.2	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4
170	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6
175	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2978.8	2976.6	2976.6	2976.6
180	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
5	2334.2	2314.4	2292.4	2272.6	2255.0	2235.2	2217.6	2200.0	2184.6	2169.2
10	2255.0	2208.8	2160.4	2114.2	2068.0	2024.0	1982.2	1938.2	1900.8	1865.6
15	2153.8	2081.2	2004.2	1927.2	1854.6	1782.0	1713.8	1645.6	1586.2	1531.2
20	2028.4	1929.4	1826.0	1722.6	1617.0	1520.2	1430.0	1344.2	1271.6	1203.4
25	1889.8	1762.2	1630.2	1504.8	1372.8	1260.6	1157.2	1062.6	983.4	915.2
30	1731.4	1579.6	1427.8	1282.6	1139.6	1018.6	913.0	820.6	743.6	679.8
35	1555.4	1388.2	1221.0	1067.0	921.8	805.2	706.2	622.6	554.4	503.8
40	1366.2	1190.2	1018.6	869.0	730.4	624.8	539.0	468.6	413.6	374.0
45	1170.4	994.4	829.4	690.8	569.8	479.6	409.2	354.2	314.6	283.8
50	972.4	809.6	664.4	543.4	442.2	369.6	314.6	272.8	244.2	222.2
55	754.6	638.0	517.0	418.0	338.8	283.8	242.0	211.2	191.4	178.2
60	605.0	490.6	393.8	319.0	257.4	215.6	187.0	167.2	151.8	140.8
65	451.0	363.0	290.4	235.4	195.8	165.0	143.0	127.6	116.6	110.0
70	319.0	259.6	206.8	173.8	140.8	121.0	105.6	94.6	88.0	81.4
75	206.8	171.6	138.6	114.4	94.6	81.4	72.6	66.0	59.4	55.0
80	114.4	94.6	77.0	63.8	55.0	48.4	41.8	37.4	35.2	33.0
85	44.0	37.4	30.8	26.4	22.0	19.8	17.6	17.6	15.4	15.4
90	6.6	8.8	11.0	13.2	15.4	19.8	22.0	26.4	28.6	30.8
95	92.4	94.6	96.8	99.0	103.4	105.6	110.0	114.4	116.6	121.0
100	231.0	231.0	233.2	235.4	237.6	239.8	244.2	246.4	248.6	250.8
105	409.2	409.2	411.4	411.4	413.6	413.6	415.8	415.8	415.8	415.8
110	622.6	622.6	622.6	622.6	620.4	620.4	618.2	618.2	618.2	616.0
115	866.8	864.6	862.4	860.2	858.0	855.8	853.6	851.4	849.2	847.0
120	1135.2	1133.0	1130.8	1126.4	1122.0	1117.6	1113.2	1111.0	1106.6	1102.2
125	1414.6	1412.4	1410.2	1405.8	1401.4	1394.8	1390.4	1386.0	1381.6	1375.0
130	1691.8	1689.6	1687.4	1683.0	1678.6	1672.0	1667.6	1661.0	1656.6	1650.0
135	1951.4	1949.2	1947.0	1942.6	1938.2	1933.8	1929.4	1925.0	1918.4	1914.0

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CANDELA TABULATION - (Cont.)

140	2184.6	2182.4	2180.2	2178.0	2173.6	2171.4	2167.0	2162.6	2158.2	2153.8
145	2384.8	2382.6	2382.6	2378.2	2378.2	2373.8	2371.6	2367.2	2365.0	2362.8
150	2552.0	2552.0	2552.0	2549.8	2547.6	2547.6	2545.4	2543.2	2541.0	2538.8
155	2690.6	2690.6	2690.6	2688.4	2688.4	2686.2	2686.2	2684.0	2684.0	2681.8
160	2802.8	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2798.4	2798.4	2796.2
165	2886.4	2886.4	2886.4	2884.2	2884.2	2884.2	2884.2	2884.2	2884.2	2884.2
170	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6	2943.6
175	2978.8	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
180	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
5	2156.0	2147.2	2136.2	2129.6	2125.2	2120.8	2120.8
10	1834.8	1808.4	1786.4	1768.8	1757.8	1749.0	1746.8
15	1485.0	1443.2	1410.2	1383.8	1366.2	1355.2	1350.8
20	1146.2	1100.0	1060.4	1031.8	1009.8	996.6	994.4
25	855.8	809.6	774.4	745.8	726.0	715.0	710.6
30	629.2	589.6	558.8	534.6	519.2	510.4	506.0
35	462.0	429.0	404.8	387.2	374.0	367.4	365.2
40	341.0	319.0	301.4	288.2	281.6	275.0	275.0
45	261.8	246.4	233.2	224.4	220.0	215.6	215.6
50	206.8	195.8	187.0	182.6	180.4	178.2	176.0
55	167.2	158.4	154.0	149.6	147.4	145.2	145.2
60	132.0	127.6	123.2	121.0	118.8	116.6	116.6
65	103.4	99.0	96.8	94.6	92.4	92.4	92.4
70	77.0	74.8	72.6	70.4	70.4	68.2	68.2
75	52.8	50.6	48.4	48.4	48.4	46.2	46.2
80	30.8	30.8	28.6	28.6	28.6	28.6	28.6
85	13.2	13.2	13.2	13.2	13.2	13.2	13.2
90	35.2	37.4	39.6	41.8	41.8	44.0	44.0
95	123.2	125.4	127.6	129.8	132.0	132.0	132.0
100	253.0	253.0	255.2	255.2	257.4	257.4	257.4
105	418.0	418.0	418.0	418.0	418.0	418.0	418.0
110	616.0	613.8	613.8	613.8	613.8	611.6	611.6
115	844.8	842.6	840.4	838.2	838.2	838.2	836.0
120	1100.0	1095.6	1093.4	1091.2	1091.2	1089.0	1089.0
125	1370.6	1368.4	1364.0	1361.8	1359.6	1359.6	1359.6
130	1645.6	1641.2	1639.0	1636.8	1634.6	1632.4	1632.4
135	1909.6	1905.2	1903.0	1898.6	1896.4	1896.4	1894.2
140	2149.4	2147.2	2142.8	2140.6	2138.4	2138.4	2138.4
145	2358.4	2356.2	2354.0	2351.8	2349.6	2349.6	2349.6
150	2536.6	2534.4	2532.2	2530.0	2530.0	2530.0	2530.0
155	2681.8	2679.6	2679.6	2677.4	2677.4	2677.4	2677.4
160	2796.2	2796.2	2796.2	2794.0	2794.0	2794.0	2794.0
165	2882.0	2882.0	2882.0	2882.0	2882.0	2882.0	2882.0
170	2941.4	2941.4	2941.4	2941.4	2943.6	2941.4	2941.4
175	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
180	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4	2985.4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	837.32	N.A.	6.20
0-30	1715.77	N.A.	12.80
0-40	2721.01	N.A.	20.30
0-60	4529.06	N.A.	33.70
0-80	5382.37	N.A.	40.10
0-90	5465.06	N.A.	40.70
10-90	5241.83	N.A.	39.00
20-40	1883.69	N.A.	14.00
20-50	2870.14	N.A.	21.40
40-70	2369.99	N.A.	17.60
60-80	853.30	N.A.	6.40
70-80	291.36	N.A.	2.20
80-90	82.69	N.A.	0.60
90-110	580.86	N.A.	4.30
90-120	1430.22	N.A.	10.60
90-130	2670.66	N.A.	19.90
90-150	5630.81	N.A.	41.90
90-180	7964.26	N.A.	59.30
110-180	7383.4	N.A.	55.00
0-180	13429.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.24
10-20	614.09
20-30	878.45
30-40	1005.24
40-50	986.45
50-60	821.60
60-70	561.94
70-80	291.36
80-90	82.69
90-100	134.66
100-110	446.21
110-120	849.35
120-130	1240.44
130-140	1481.35
140-150	1478.79
150-160	1236.46
160-170	813.95
170-180	283.04

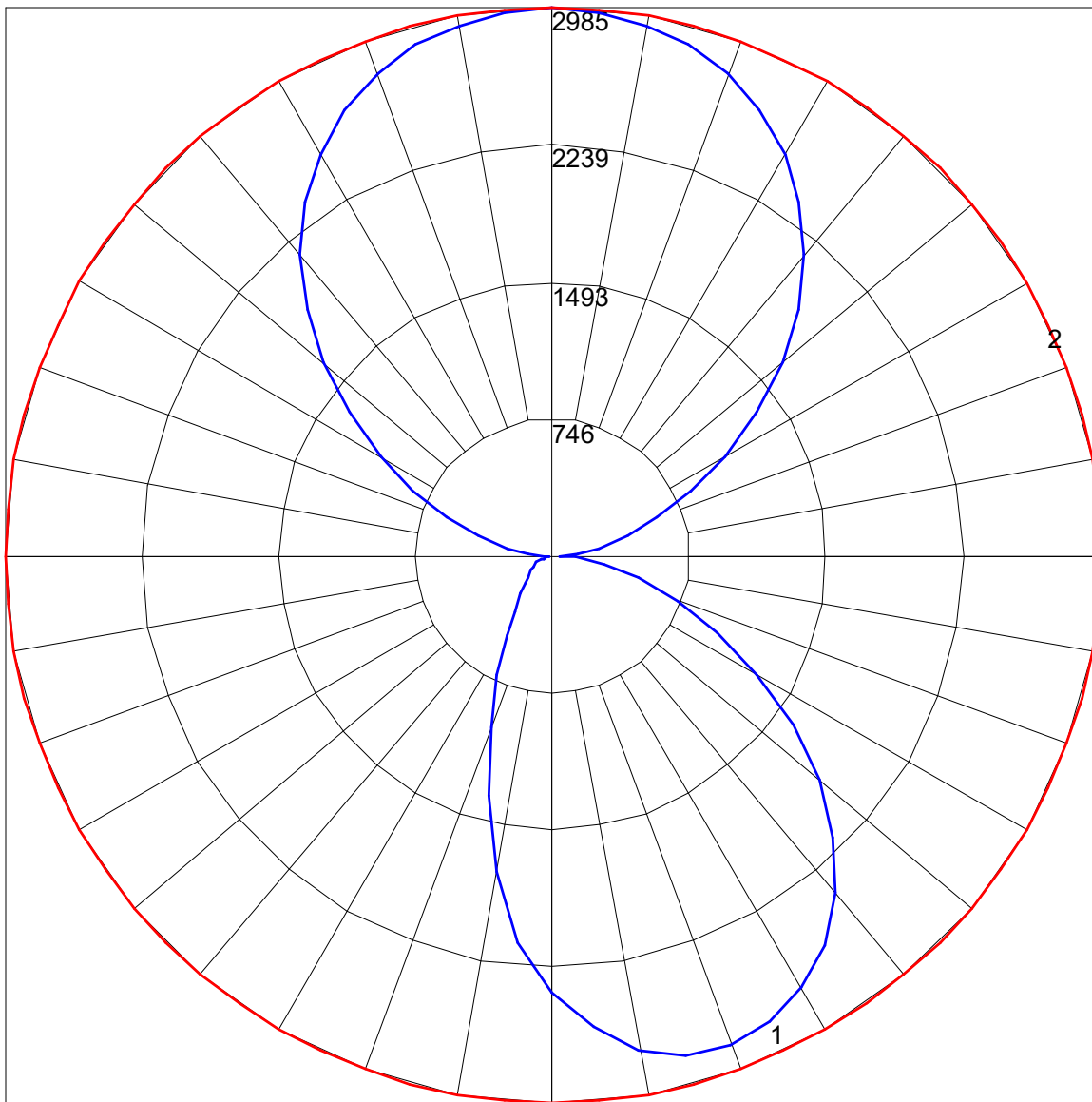
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U1A1.IES

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 2985.4 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.)