

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-HO-35-U2A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	117	120	123	123
Total Lumens, 4' rail length (1219mm)	12513	12909	13172	13172
Lumens per foot (305mm)	3128	3227	3293	3293
Lumens per foot UP (305mm)	1843	1902	1940	1940
Lumens per foot DOWN (305mm)	1285	1325	1353	1353
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_U2A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010918 (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-U2A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens with edgeglow

[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	13148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	36591	37995	36066
55	30376	32329	31414
65	23124	24835	24802
75	15866	17248	17770
85	7015	7857	10244

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1_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	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
5	2631.2	2631.2	2631.2	2629.0	2626.8	2624.6	2622.4	2618.0	2615.8	2609.2
10	2670.8	2670.8	2670.8	2668.6	2664.2	2662.0	2657.6	2651.0	2646.6	2637.8
15	2659.8	2659.8	2657.6	2657.6	2655.4	2651.0	2646.6	2642.2	2635.6	2624.6
20	2611.4	2609.2	2609.2	2607.0	2604.8	2602.6	2598.2	2593.8	2587.2	2580.6
25	2527.8	2527.8	2527.8	2525.6	2523.4	2521.2	2516.8	2512.4	2505.8	2499.2
30	2409.0	2411.2	2409.0	2409.0	2406.8	2404.6	2400.2	2395.8	2391.4	2384.8
35	2255.0	2255.0	2255.0	2255.0	2255.0	2252.8	2252.8	2250.6	2246.2	2239.6
40	2057.0	2057.0	2057.0	2059.2	2061.4	2061.4	2063.6	2061.4	2061.4	2059.2
45	1819.4	1819.4	1821.6	1821.6	1826.0	1828.2	1832.6	1834.8	1837.0	1837.0
50	1553.2	1553.2	1555.4	1557.6	1562.0	1564.2	1570.8	1575.2	1579.6	1584.0
55	1280.4	1280.4	1282.6	1284.8	1287.0	1291.4	1295.8	1300.2	1304.6	1311.2
60	1014.2	1014.2	1016.4	1018.6	1020.8	1023.0	1027.4	1029.6	1034.0	1038.4
65	770.0	770.0	772.2	772.2	774.4	776.6	778.8	781.0	781.0	783.2
70	556.6	556.6	558.8	558.8	558.8	561.0	561.0	561.0	563.2	565.4
75	371.8	371.8	371.8	371.8	371.8	371.8	371.8	371.8	371.8	371.8
80	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	213.4	213.4
85	90.2	90.2	90.2	88.0	88.0	88.0	88.0	88.0	85.8	85.8
90	70.4	70.4	68.2	66.0	63.8	59.4	55.0	50.6	46.2	41.8
95	165.0	165.0	165.0	162.8	160.6	156.2	151.8	147.4	143.0	138.6
100	294.8	294.8	294.8	292.6	290.4	288.2	286.0	281.6	277.2	272.8
105	459.8	459.8	457.6	457.6	455.4	455.4	453.2	451.0	446.6	444.4
110	655.6	655.6	655.6	655.6	655.6	655.6	653.4	651.2	649.0	646.8
115	884.4	884.4	884.4	884.4	884.4	884.4	884.4	882.2	882.2	880.0
120	1137.4	1137.4	1137.4	1137.4	1137.4	1137.4	1137.4	1137.4	1137.4	1137.4
125	1403.6	1403.6	1403.6	1405.8	1405.8	1405.8	1405.8	1405.8	1405.8	1408.0
130	1667.6	1669.8	1669.8	1669.8	1669.8	1669.8	1672.0	1672.0	1672.0	1674.2
135	1918.4	1918.4	1918.4	1920.6	1920.6	1920.6	1922.8	1922.8	1922.8	1925.0
140	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2147.2	2147.2	2147.2	2149.4
145	2340.8	2338.6	2340.8	2340.8	2340.8	2340.8	2340.8	2340.8	2340.8	2340.8
150	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2505.8	2503.6	2503.6
155	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2635.6	2635.6	2635.6
160	2741.2	2741.2	2741.2	2741.2	2741.2	2741.2	2741.2	2739.0	2739.0	2736.8
165	2818.2	2818.2	2818.2	2818.2	2818.2	2818.2	2816.0	2816.0	2816.0	2813.8
170	2868.8	2868.8	2868.8	2868.8	2868.8	2868.8	2866.6	2866.6	2866.6	2866.6
175	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0
180	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2

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	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
5	2604.8	2598.2	2593.8	2585.0	2578.4	2571.8	2563.0	2554.2	2547.6	2538.8
10	2629.0	2622.4	2611.4	2598.2	2585.0	2569.6	2552.0	2536.6	2516.8	2497.0
15	2615.8	2604.8	2591.6	2576.2	2558.6	2538.8	2514.6	2490.4	2461.8	2426.6
20	2569.6	2558.6	2545.4	2527.8	2508.0	2483.8	2455.2	2422.2	2384.8	2338.6
25	2490.4	2479.4	2468.4	2448.6	2426.6	2402.4	2369.4	2329.8	2281.4	2226.4
30	2378.2	2367.2	2354.0	2338.6	2318.8	2288.0	2255.0	2211.0	2153.8	2085.6
35	2233.0	2226.4	2213.2	2200.0	2180.2	2149.4	2114.2	2065.8	2002.0	1922.8
40	2054.8	2048.2	2039.4	2024.0	2006.4	1980.0	1942.6	1892.0	1821.6	1735.8
45	1837.0	1834.8	1828.2	1817.2	1801.8	1775.4	1740.2	1687.4	1612.6	1520.2
50	1586.2	1586.2	1581.8	1575.2	1562.0	1540.0	1504.8	1456.4	1383.8	1289.2
55	1313.4	1317.8	1315.6	1311.2	1302.4	1282.6	1251.8	1207.8	1141.8	1047.2
60	1040.6	1042.8	1042.8	1040.6	1031.8	1018.6	992.2	952.6	895.4	814.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1_BL.IES

CANDELA TABULATION - (Cont.)

65	785.4	785.4	783.2	781.0	774.4	763.4	741.4	715.0	666.6	600.6
70	563.2	561.0	558.8	554.4	547.8	539.0	523.6	499.4	464.2	415.8
75	369.6	369.6	365.2	360.8	354.2	347.6	334.4	319.0	294.8	266.2
80	211.2	209.0	206.8	202.4	198.0	191.4	184.8	173.8	160.6	143.0
85	85.8	85.8	83.6	81.4	79.2	74.8	70.4	66.0	59.4	52.8
90	37.4	33.0	26.4	22.0	17.6	13.2	11.0	6.6	4.4	4.4
95	132.0	125.4	118.8	114.4	107.8	101.2	96.8	92.4	88.0	85.8
100	268.4	261.8	257.4	250.8	244.2	239.8	233.2	228.8	222.2	220.0
105	440.0	435.6	431.2	426.8	420.2	415.8	409.2	404.8	400.4	393.8
110	644.6	642.4	638.0	633.6	629.2	624.8	620.4	613.8	609.4	602.8
115	877.8	875.6	873.4	871.2	866.8	864.6	858.0	853.6	849.2	840.4
120	1135.2	1135.2	1133.0	1133.0	1128.6	1126.4	1122.0	1117.6	1111.0	1104.4
125	1408.0	1408.0	1405.8	1405.8	1403.6	1401.4	1397.0	1392.6	1388.2	1379.4
130	1674.2	1674.2	1674.2	1674.2	1672.0	1669.8	1667.6	1663.2	1656.6	1650.0
135	1925.0	1925.0	1925.0	1925.0	1922.8	1920.6	1918.4	1914.0	1907.4	1903.0
140	2149.4	2149.4	2149.4	2147.2	2147.2	2145.0	2140.6	2136.2	2131.8	2127.4
145	2343.0	2343.0	2340.8	2338.6	2336.4	2334.2	2332.0	2327.6	2323.2	2318.8
150	2503.6	2503.6	2501.4	2499.2	2497.0	2494.8	2492.6	2488.2	2486.0	2481.6
155	2635.6	2633.4	2631.2	2629.0	2626.8	2624.6	2622.4	2620.2	2618.0	2613.6
160	2736.8	2736.8	2734.6	2732.4	2732.4	2728.0	2728.0	2723.6	2721.4	2719.2
165	2813.8	2811.6	2811.6	2809.4	2807.2	2807.2	2805.0	2802.8	2802.8	2800.6
170	2864.4	2864.4	2864.4	2862.2	2862.2	2860.0	2860.0	2860.0	2857.8	2855.6
175	2890.8	2890.8	2890.8	2890.8	2890.8	2888.6	2888.6	2888.6	2888.6	2888.6
180	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
5	2527.8	2519.0	2510.2	2501.4	2490.4	2481.6	2472.8	2466.2	2457.4	2450.8
10	2475.0	2453.0	2428.8	2406.8	2382.6	2358.4	2336.4	2312.2	2292.4	2272.6
15	2393.6	2356.2	2316.6	2274.8	2233.0	2189.0	2147.2	2105.4	2065.8	2028.4
20	2290.2	2235.2	2178.0	2116.4	2050.4	1984.4	1918.4	1852.4	1790.8	1731.4
25	2162.6	2090.0	2008.6	1925.0	1834.8	1742.4	1650.0	1562.0	1482.8	1405.8
30	2006.4	1916.2	1815.0	1705.0	1586.2	1476.2	1366.2	1260.6	1166.0	1082.4
35	1828.2	1718.2	1595.0	1467.4	1328.8	1201.2	1080.2	970.2	875.6	792.0
40	1630.2	1502.6	1361.8	1221.0	1073.6	941.6	822.8	715.0	629.2	558.8
45	1405.8	1271.6	1124.2	979.0	833.8	710.6	605.0	510.4	440.0	380.6
50	1174.8	1034.0	893.2	739.2	629.2	521.4	433.4	358.6	301.4	257.4
55	937.2	809.6	686.4	567.6	457.6	371.8	303.6	246.4	204.6	173.8
60	721.6	611.6	508.2	411.4	327.8	261.8	209.0	169.4	140.8	116.6
65	525.8	440.0	358.6	288.2	228.8	187.0	145.2	116.6	96.8	81.4
70	360.8	303.6	246.4	195.8	154.0	123.2	96.8	79.2	66.0	55.0
75	228.8	191.4	154.0	123.2	96.8	77.0	61.6	50.6	41.8	35.2
80	123.2	103.4	83.6	66.0	52.8	41.8	35.2	28.6	24.2	19.8
85	44.0	37.4	30.8	24.2	19.8	15.4	13.2	11.0	8.8	8.8
90	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	8.8
95	83.6	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	83.6
100	217.8	213.4	211.2	209.0	206.8	204.6	202.4	202.4	200.2	200.2
105	391.6	385.0	382.8	376.2	371.8	367.4	365.2	360.8	356.4	354.2
110	598.4	591.8	585.2	578.6	572.0	565.4	556.6	552.2	545.6	539.0
115	833.8	827.2	818.4	809.6	800.8	792.0	783.2	774.4	765.6	759.0
120	1097.8	1089.0	1078.0	1069.2	1058.2	1047.2	1036.2	1025.2	1014.2	1005.4
125	1372.8	1364.0	1353.0	1342.0	1328.8	1317.8	1304.6	1293.6	1282.6	1271.6
130	1643.4	1634.6	1623.6	1612.6	1601.6	1590.6	1577.4	1566.4	1555.4	1544.4
135	1894.2	1887.6	1878.8	1870.0	1859.0	1848.0	1837.0	1828.2	1817.2	1806.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1_BL.IES

CANDELA TABULATION - (Cont.)

140	2120.8	2114.2	2107.6	2098.8	2090.0	2081.2	2072.4	2063.6	2054.8	2048.2
145	2314.4	2310.0	2303.4	2296.8	2290.2	2283.6	2277.0	2270.4	2263.8	2257.2
150	2477.2	2472.8	2468.4	2464.0	2459.6	2455.2	2448.6	2444.2	2439.8	2435.4
155	2611.4	2607.0	2604.8	2600.4	2598.2	2593.8	2589.4	2587.2	2582.8	2580.6
160	2717.0	2714.8	2712.6	2710.4	2708.2	2706.0	2701.6	2699.4	2697.2	2695.0
165	2798.4	2796.2	2794.0	2791.8	2789.6	2789.6	2787.4	2785.2	2785.2	2783.0
170	2855.6	2853.4	2853.4	2851.2	2851.2	2849.0	2849.0	2846.8	2846.8	2846.8
175	2888.6	2886.4	2886.4	2886.4	2886.4	2884.2	2884.2	2884.2	2884.2	2884.2
180	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
5	2446.4	2439.8	2435.4	2431.0	2428.8	2426.6	2426.6
10	2255.0	2239.6	2224.2	2215.4	2206.6	2202.2	2200.0
15	1993.2	1962.4	1938.2	1918.4	1903.0	1892.0	1889.8
20	1678.6	1634.6	1595.0	1564.2	1542.2	1529.0	1524.6
25	1337.6	1282.6	1236.4	1196.8	1170.4	1155.0	1150.6
30	1009.8	948.2	902.0	864.6	838.2	820.6	816.2
35	723.8	668.8	627.0	591.8	569.8	554.4	550.0
40	499.4	455.4	418.0	391.6	374.0	363.0	358.6
45	336.6	301.4	272.8	253.0	239.8	233.2	228.8
50	224.4	198.0	178.2	165.0	156.2	149.6	147.4
55	147.4	129.8	116.6	107.8	101.2	99.0	96.8
60	101.2	88.0	79.2	72.6	70.4	66.0	66.0
65	68.2	61.6	55.0	50.6	48.4	46.2	46.2
70	46.2	41.8	37.4	35.2	33.0	33.0	30.8
75	30.8	26.4	24.2	24.2	22.0	22.0	22.0
80	17.6	15.4	15.4	13.2	13.2	13.2	13.2
85	6.6	6.6	6.6	6.6	6.6	6.6	6.6
90	8.8	11.0	11.0	11.0	13.2	13.2	13.2
95	83.6	83.6	83.6	83.6	83.6	83.6	85.8
100	198.0	198.0	195.8	195.8	195.8	195.8	195.8
105	349.8	347.6	345.4	343.2	343.2	343.2	341.0
110	534.6	530.2	528.0	523.6	521.4	521.4	521.4
115	752.4	745.8	741.4	737.0	734.8	732.6	732.6
120	996.6	990.0	983.4	979.0	974.6	972.4	970.2
125	1262.8	1254.0	1247.4	1240.8	1236.4	1234.2	1234.2
130	1533.4	1526.8	1518.0	1513.6	1509.2	1507.0	1504.8
135	1799.6	1790.8	1784.2	1777.6	1775.4	1773.2	1771.0
140	2039.4	2032.8	2028.4	2024.0	2019.6	2017.4	2017.4
145	2250.6	2248.4	2244.0	2239.6	2237.4	2235.2	2235.2
150	2431.0	2426.6	2422.2	2420.0	2417.8	2417.8	2417.8
155	2576.2	2574.0	2571.8	2569.6	2569.6	2567.4	2567.4
160	2692.8	2692.8	2690.6	2688.4	2688.4	2686.2	2686.2
165	2783.0	2780.8	2780.8	2780.8	2778.6	2778.6	2776.4
170	2844.6	2844.6	2844.6	2844.6	2842.4	2842.4	2842.4
175	2884.2	2882.0	2882.0	2882.0	2882.0	2882.0	2882.0
180	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2	2895.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	905.56	N.A.	6.90
0-30	1846.65	N.A.	14.00
0-40	2881.5	N.A.	21.90
0-60	4597.43	N.A.	35.00
0-80	5331.25	N.A.	40.50
0-90	5400.3	N.A.	41.10
10-90	5160.09	N.A.	39.20
20-40	1975.94	N.A.	15.00
20-50	2937.04	N.A.	22.30
40-70	2205.49	N.A.	16.80
60-80	733.82	N.A.	5.60
70-80	244.26	N.A.	1.90
80-90	69.05	N.A.	0.50
90-110	561.77	N.A.	4.30
90-120	1387.33	N.A.	10.60
90-130	2596.32	N.A.	19.70
90-150	5480.47	N.A.	41.70
90-180	7747.79	N.A.	58.90
110-180	7186.02	N.A.	54.70
0-180	13148.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.21
10-20	665.35
20-30	941.09
30-40	1034.85
40-50	961.10
50-60	754.83
60-70	489.56
70-80	244.26
80-90	69.05
90-100	129.79
100-110	431.98
110-120	825.56
120-130	1208.98
130-140	1444.18
140-150	1439.97
150-160	1202.29
160-170	790.39
170-180	274.65

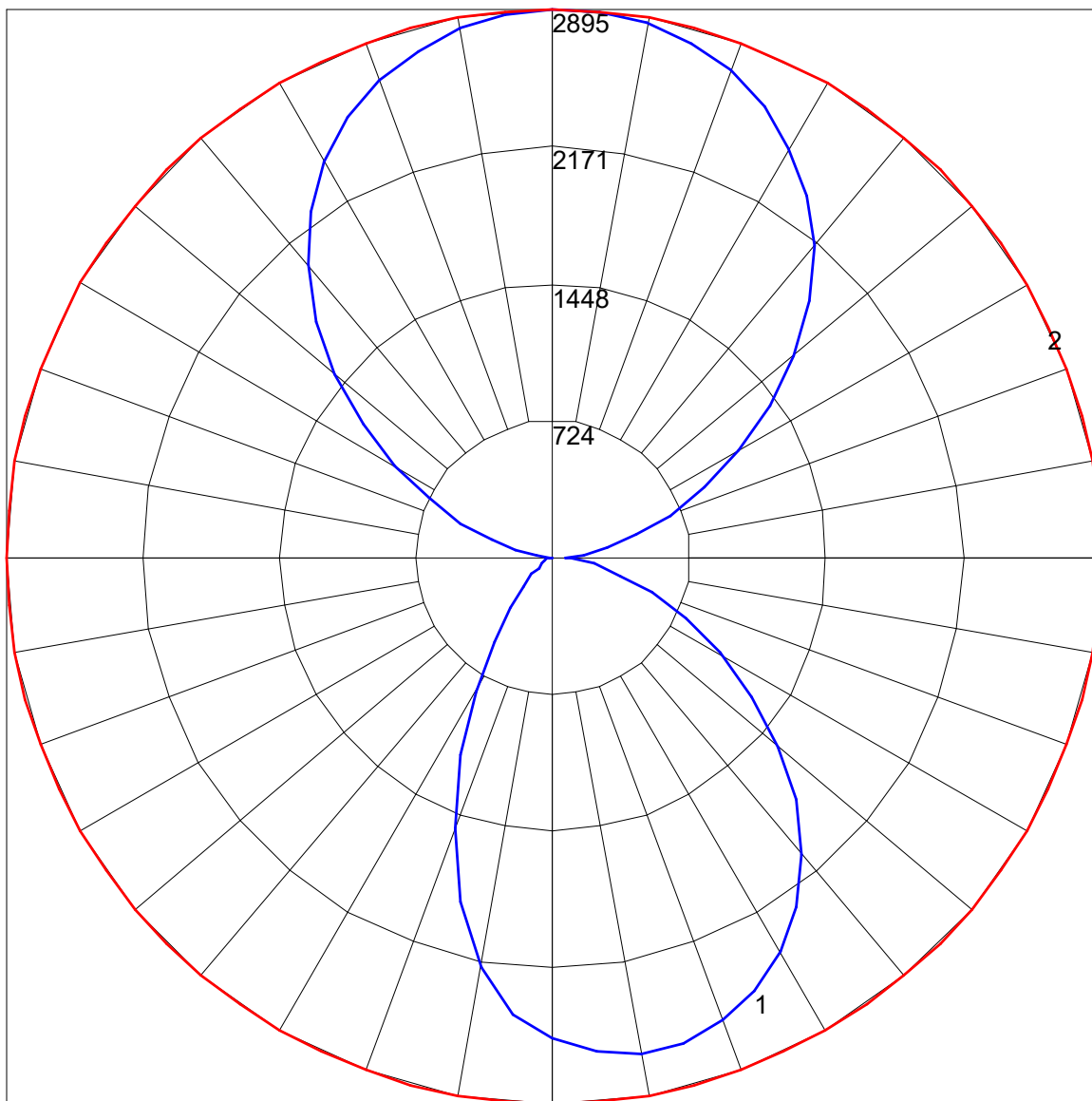
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_35_U2A1_BL.IES

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

POLAR GRAPH



Maximum Candela = 2895.2 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.)