

## IES Report

# ZipTwo® | 707 | Square 3572, Single Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-HA-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	97
Total Lumens, 4' rail length (1219mm)	3588	3702	3777	3815
Lumens per foot (305mm)	897	925	944	954
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	95	95	95	95

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\_Z2\_HO\_359\_HA\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011205 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-HA-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] single side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	39.55
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	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_HA\_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>
<b>0</b>	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445
<b>5</b>	1.515	1.515	1.515	1.635	1.635	1.635	1.635	1.890	1.890	1.890
<b>10</b>	1.005	1.005	1.005	1.005	1.005	1.005	1.125	1.260	1.260	1.260
<b>15</b>	1.005	1.005	1.005	1.005	1.005	1.125	1.260	1.260	1.260	1.260
<b>20</b>	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260
<b>25</b>	1.515	1.515	1.635	1.635	1.635	1.635	1.515	1.515	1.380	1.380
<b>30</b>	2.010	2.010	1.890	1.890	1.890	1.890	1.890	1.635	1.635	1.635
<b>35</b>	2.265	2.265	2.265	2.265	2.265	2.145	2.145	2.010	1.890	1.755
<b>40</b>	2.760	2.760	2.760	2.640	2.640	2.640	2.385	2.265	2.145	2.010
<b>45</b>	3.015	3.150	3.150	3.015	2.895	2.895	2.760	2.640	2.520	2.265
<b>50</b>	3.525	3.525	3.525	3.390	3.270	3.150	3.150	2.895	2.760	2.520
<b>55</b>	3.780	3.780	3.780	3.780	3.645	3.525	3.390	3.150	3.015	2.760
<b>60</b>	4.020	4.020	4.020	4.020	3.900	3.900	3.645	3.390	3.270	3.015
<b>65</b>	4.530	4.395	4.275	4.275	4.155	4.155	3.900	3.645	3.525	3.270
<b>70</b>	4.785	4.650	4.650	4.530	4.395	4.395	4.155	3.900	3.780	3.525
<b>75</b>	4.785	4.905	4.785	4.785	4.650	4.530	4.395	4.155	3.900	3.645
<b>80</b>	5.025	5.025	5.025	5.025	4.905	4.650	4.530	4.275	4.020	3.780
<b>85</b>	5.280	5.280	5.280	5.160	5.160	4.905	4.650	4.530	4.275	4.020
<b>90</b>	5.535	5.535	5.400	5.280	5.160	5.160	4.905	4.650	4.275	4.020
<b>95</b>	5.535	5.535	5.535	5.400	5.280	5.160	4.905	4.650	4.395	4.020
<b>100</b>	5.790	5.655	5.655	5.535	5.400	5.160	5.025	4.785	4.530	4.275
<b>105</b>	5.790	5.790	5.790	5.655	5.400	5.400	5.160	4.905	4.530	4.275
<b>110</b>	5.790	5.790	5.790	5.655	5.655	5.400	5.160	5.025	4.785	4.395
<b>115</b>	5.790	5.790	5.790	5.655	5.655	5.400	5.160	5.025	4.785	4.395
<b>120</b>	5.790	5.790	5.790	5.655	5.400	5.400	5.160	5.025	4.650	4.275
<b>125</b>	5.790	5.790	5.655	5.655	5.400	5.280	5.160	4.905	4.650	4.395
<b>130</b>	5.535	5.535	5.400	5.400	5.280	5.160	4.905	4.905	4.530	4.275
<b>135</b>	5.280	5.280	5.280	5.160	5.160	4.905	4.785	4.650	4.650	4.395
<b>140</b>	5.025	5.025	5.025	4.905	4.905	4.650	4.650	4.650	4.650	4.395
<b>145</b>	4.785	4.785	4.650	4.650	4.530	4.530	4.650	4.650	4.650	4.530
<b>150</b>	4.530	4.395	4.395	4.155	4.275	4.395	4.650	4.785	4.650	4.530
<b>155</b>	4.020	4.020	3.780	3.900	4.155	4.395	4.530	4.650	4.650	4.395
<b>160</b>	3.525	3.525	3.390	3.525	3.900	4.275	4.395	4.395	4.275	4.275
<b>165</b>	3.270	2.895	3.015	3.270	3.780	3.900	4.020	4.395	4.785	5.025
<b>170</b>	3.780	4.020	4.155	4.785	5.160	5.280	5.400	5.655	5.910	5.790
<b>175</b>	3.780	4.155	4.785	5.160	5.280	5.280	5.400	5.535	5.535	5.535
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>
<b>0</b>	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445
<b>5</b>	2.010	2.145	2.145	2.145	2.265	2.385	2.520	3.150	4.020	6.030
<b>10</b>	1.515	1.515	1.755	1.890	2.010	2.145	2.265	2.385	3.900	9.930
<b>15</b>	1.260	1.260	1.380	1.515	1.755	2.010	2.145	2.385	3.780	16.350
<b>20</b>	1.260	1.380	1.380	1.380	1.515	1.755	2.010	2.385	3.780	24.135
<b>25</b>	1.380	1.380	1.380	1.380	1.380	1.635	1.890	2.265	3.645	31.815
<b>30</b>	1.515	1.380	1.380	1.380	1.380	1.515	1.755	2.145	3.525	37.845
<b>35</b>	1.755	1.635	1.515	1.380	1.380	1.380	1.755	2.145	3.780	44.760
<b>40</b>	1.890	1.755	1.635	1.515	1.380	1.380	1.635	2.145	3.645	51.045
<b>45</b>	2.010	2.010	1.755	1.635	1.515	1.380	1.635	2.010	3.390	58.725
<b>50</b>	2.265	2.010	2.010	1.755	1.515	1.515	1.380	2.010	3.390	64.005
<b>55</b>	2.520	2.265	2.010	1.755	1.755	1.515	1.380	1.755	3.390	68.655
<b>60</b>	2.760	2.520	2.265	2.010	1.755	1.515	1.380	1.755	3.390	72.675

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_HA\_BL.IES**

**CANDELA TABULATION - (Cont.)**

65	3.015	2.760	2.385	2.010	1.755	1.515	1.515	1.515	3.270	75.945
70	3.270	2.760	2.520	2.265	2.010	1.755	1.515	1.380	3.015	75.945
75	3.270	3.015	2.640	2.265	2.010	1.755	1.515	1.380	4.395	86.760
80	3.525	3.150	2.760	2.385	2.010	1.755	1.515	1.380	4.275	88.020
85	3.525	3.150	2.895	2.385	2.145	1.755	1.515	1.380	4.275	88.890
90	3.645	3.390	2.895	2.385	2.145	1.890	1.635	1.380	3.780	100.845
95	3.780	3.390	2.895	2.640	2.145	1.890	1.635	1.515	3.780	99.705
100	3.900	3.390	3.150	2.640	2.385	2.010	1.755	1.515	3.390	88.890
105	3.900	3.645	3.150	2.760	2.385	2.145	1.755	1.515	3.150	86.760
110	4.020	3.645	3.150	2.895	2.385	2.145	1.890	1.635	2.895	73.050
115	4.020	3.645	3.270	2.895	2.640	2.265	2.010	1.890	3.780	63.870
120	4.020	3.780	3.270	3.015	2.760	2.265	2.010	2.265	3.645	53.445
125	4.155	3.645	3.390	3.150	2.760	2.520	2.145	2.520	3.645	44.130
130	4.020	3.780	3.525	3.270	3.015	2.520	2.385	2.760	3.780	37.845
135	4.275	3.900	3.525	3.270	3.015	2.640	2.895	2.895	3.900	31.680
140	4.275	4.020	3.780	3.390	3.150	2.895	3.270	3.015	4.020	27.795
145	4.395	4.155	3.780	3.390	3.150	3.645	3.390	3.270	4.155	24.645
150	4.275	4.020	3.900	3.525	3.900	4.155	3.645	3.645	4.530	22.515
155	4.155	4.020	3.900	4.275	4.530	4.275	4.020	4.020	5.160	20.370
160	4.155	4.650	5.025	5.025	4.785	4.395	4.395	4.395	5.655	18.105
165	5.400	5.535	5.535	5.160	4.905	4.785	4.785	4.785	6.285	15.720
170	5.910	5.655	5.400	5.280	5.280	5.160	5.280	5.400	7.035	13.455
175	5.400	5.280	5.280	5.280	5.280	5.400	5.400	5.400	7.170	10.695
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
0	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445	5.445
5	9.060	13.710	19.245	25.275	31.185	36.960	42.255	47.400	51.930	56.085
10	22.515	36.720	51.300	65.385	79.215	92.160	105.375	116.940	127.755	137.940
15	38.355	60.990	83.985	106.755	128.505	149.625	170.505	190.365	208.215	225.195
20	54.315	84.750	116.565	148.125	178.665	208.350	238.020	266.310	291.960	316.350
25	69.540	108.135	148.245	187.725	228.465	268.200	305.535	342.885	376.830	409.020
30	84.375	130.635	179.685	227.955	279.015	326.910	373.695	420.210	462.705	502.185
35	96.690	152.265	209.610	266.055	327.165	384.000	439.830	497.280	546.075	593.475
40	116.685	172.260	237.645	302.400	372.555	438.195	502.695	565.065	625.785	681.240
45	122.850	192.630	263.040	335.835	414.300	487.980	558.645	631.200	698.085	762.585
50	133.410	209.355	285.930	365.520	451.650	517.275	610.575	690.540	764.220	835.260
55	142.590	223.815	305.910	394.305	481.950	566.565	652.950	742.095	821.190	898.140
60	150.255	233.235	325.905	416.685	508.980	599.010	690.285	783.960	868.335	949.815
65	156.675	242.790	336.465	434.175	518.160	627.300	722.100	816.915	904.425	989.160
70	161.325	250.095	346.650	443.970	530.475	645.660	742.980	840.165	929.700	1018.590
75	162.075	255.120	353.820	452.775	548.970	657.480	756.045	857.145	947.175	1031.160
80	164.205	258.015	357.600	457.425	562.920	662.760	761.715	862.545	952.575	1035.945
85	165.090	261.915	358.605	458.310	563.295	662.760	760.455	857.520	946.410	1031.535
90	167.355	261.150	356.340	455.160	547.335	657.105	753.165	848.220	935.475	1018.845
95	165.720	258.015	351.930	451.890	530.865	643.395	740.205	832.755	917.745	998.850
100	162.450	252.735	347.535	441.840	521.805	627.930	721.845	811.380	893.235	971.565
105	158.685	243.420	334.710	429.015	514.770	608.445	698.595	784.845	863.175	937.995
110	153.645	235.500	323.010	410.280	503.445	587.310	671.055	753.540	827.595	899.145
115	147.615	225.945	309.060	391.920	480.435	559.785	638.865	716.700	789.000	854.250
120	131.400	214.125	293.085	371.055	454.155	518.280	602.775	677.970	743.850	804.705
125	119.955	195.765	267.315	340.500	419.835	493.890	562.920	630.825	692.175	750.525
130	99.330	168.360	238.650	303.270	373.560	440.580	500.430	576.120	638.115	692.055
135	81.735	141.825	207.210	267.945	327.285	387.270	445.980	501.690	564.555	624.405

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_HA\_BL.IES**

**CANDELA TABULATION - (Cont.)**

<b>140</b>	64.875	120.960	174.015	232.485	286.050	335.595	385.125	438.195	479.940	538.155
<b>145</b>	52.440	95.805	148.245	190.620	242.175	295.110	334.965	373.305	414.045	456.420
<b>150</b>	45.390	76.575	117.435	155.160	197.025	243.930	288.690	321.135	347.790	377.460
<b>155</b>	39.480	64.125	93.420	126.120	160.185	189.360	225.690	264.555	290.070	311.820
<b>160</b>	33.945	53.685	74.430	96.315	121.845	146.865	170.625	193.635	219.405	238.905
<b>165</b>	27.915	41.235	57.960	72.795	89.280	104.610	120.840	135.675	150.630	168.615
<b>170</b>	21.630	30.045	40.230	51.420	61.605	70.545	79.335	87.510	94.050	100.590
<b>175</b>	14.715	19.245	24.015	28.920	34.080	39.360	43.890	47.775	50.925	53.820
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	5.445	5.445	5.445	5.445	5.445	5.445	5.445
<b>5</b>	59.730	63.000	65.505	67.515	69.030	69.780	69.915
<b>10</b>	146.985	154.410	160.950	165.975	169.500	171.510	172.260
<b>15</b>	240.150	252.975	263.925	272.475	278.385	281.895	283.155
<b>20</b>	338.235	356.835	372.930	385.380	393.930	399.465	401.100
<b>25</b>	438.315	463.080	483.960	500.805	511.365	518.160	520.545
<b>30</b>	537.900	569.085	595.365	616.860	631.695	641.625	644.520
<b>35</b>	636.480	674.205	707.010	733.170	751.770	763.590	767.490
<b>40</b>	731.415	776.295	814.515	844.320	866.070	880.035	884.430
<b>45</b>	820.680	870.720	914.355	948.300	973.065	989.040	994.065
<b>50</b>	900.015	955.350	1003.620	1041.720	1069.140	1086.240	1091.640
<b>55</b>	968.040	1027.770	1080.330	1121.565	1150.995	1169.100	1175.385
<b>60</b>	1023.240	1086.480	1141.935	1185.825	1216.755	1235.730	1242.780
<b>65</b>	1065.360	1131.255	1186.950	1233.975	1266.045	1285.650	1291.815
<b>70</b>	1093.905	1160.790	1217.250	1263.900	1296.345	1317.465	1324.005
<b>75</b>	1107.480	1176.885	1233.465	1279.875	1312.440	1333.185	1339.845
<b>80</b>	1111.755	1180.530	1238.250	1282.380	1314.570	1335.315	1341.360
<b>85</b>	1108.365	1173.495	1229.700	1273.575	1304.640	1325.010	1331.040
<b>90</b>	1093.395	1157.025	1212.090	1254.720	1286.025	1305.015	1311.435
<b>95</b>	1070.895	1132.755	1186.200	1228.185	1257.990	1276.215	1282.260
<b>100</b>	1041.345	1100.700	1152.120	1193.115	1221.525	1238.880	1244.790
<b>105</b>	1005.135	1061.835	1110.000	1150.365	1177.650	1194.375	1200.270
<b>110</b>	963.135	1016.955	1062.345	1099.815	1126.725	1142.820	1148.220
<b>115</b>	914.985	965.910	1008.780	1043.730	1068.630	1084.470	1089.375
<b>120</b>	859.530	908.820	950.310	981.870	1005.255	1020.105	1024.755
<b>125</b>	802.320	846.585	884.925	914.100	935.475	949.305	953.325
<b>130</b>	739.710	779.685	814.515	841.425	861.540	873.615	877.380
<b>135</b>	672.435	708.780	740.460	765.480	782.325	793.275	796.665
<b>140</b>	592.215	634.335	662.130	684.255	699.720	708.900	712.425
<b>145</b>	498.915	544.065	581.025	600.135	613.590	621.765	624.405
<b>150</b>	411.915	447.240	486.855	513.885	525.330	532.365	534.630
<b>155</b>	329.925	355.830	384.750	422.220	438.945	444.975	446.865
<b>160</b>	253.485	265.305	286.050	312.210	345.015	351.690	353.325
<b>165</b>	179.685	186.210	189.615	203.700	224.445	247.695	248.700
<b>170</b>	107.505	111.780	111.900	111.660	121.455	145.605	156.915
<b>175</b>	55.455	56.085	55.695	51.300	46.770	47.400	68.655
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_HA\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	28.67	N.A.	0.80
0-30	102.55	N.A.	2.70
0-40	246.85	N.A.	6.50
0-60	783.98	N.A.	20.80
0-80	1579.33	N.A.	41.80
0-90	2012.01	N.A.	53.30
10-90	2008.96	N.A.	53.20
20-40	218.18	N.A.	5.80
20-50	445.66	N.A.	11.80
40-70	913.74	N.A.	24.20
60-80	795.35	N.A.	21.10
70-80	418.74	N.A.	11.10
80-90	432.68	N.A.	11.50
90-110	801.74	N.A.	21.20
90-120	1129.01	N.A.	29.90
90-130	1387.79	N.A.	36.70
90-150	1684.87	N.A.	44.60
90-180	1765.32	N.A.	46.70
110-180	963.58	N.A.	25.50
0-180	3777.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.05
10-20	25.62
20-30	73.88
30-40	144.30
40-50	227.48
50-60	309.65
60-70	376.61
70-80	418.74
80-90	432.68
90-100	419.25
100-110	382.49
110-120	327.27
120-130	258.78
130-140	183.50
140-150	113.58
150-160	57.90
160-170	19.95
170-180	2.61

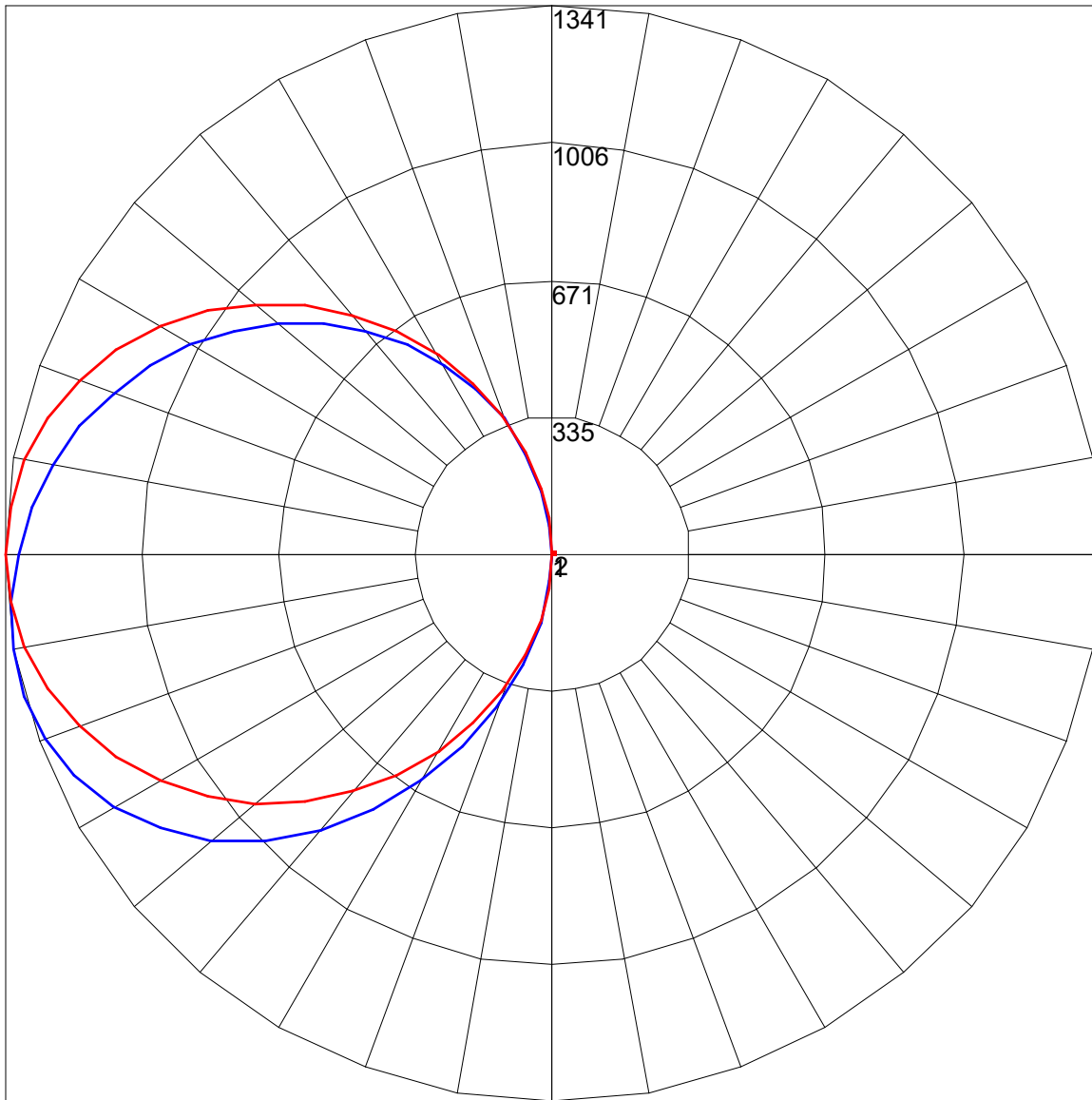
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_HA\_BL.IES**

**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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	93	86	79	74	85	79	73	68	66	61	58	54	51	48	43	40	38	33
2	82	71	63	56	75	65	58	51	54	48	43	44	39	35	34	31	27	23
3	73	61	51	43	67	56	47	40	46	39	33	37	31	27	28	24	21	16
4	66	53	43	35	60	48	39	32	39	32	27	32	26	21	24	20	16	12
5	60	46	36	29	54	42	33	26	35	27	22	28	22	17	21	17	13	10
6	55	41	31	24	50	37	28	22	31	24	18	24	19	14	19	14	11	8
7	50	36	27	20	46	33	25	19	27	20	15	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	11	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1341.36 Located At Horizontal Angle = 180, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)