

## IES Report

# ZipTwo® | 707 | Square 3572, Single Side Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-HA-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	111
Total Lumens, 4' rail length (1219mm)	4163	4294	4382	4382
Lumens per foot (305mm)	1041	1074	1095	1095
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	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\_Z2\_HO\_35\_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-35-HA-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 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	4382
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	64	68
55	0	68	59
65	0	73	51
75	0	76	65
85	0	81	61

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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>
<b>0</b>	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316
<b>5</b>	1.757	1.757	1.757	1.897	1.897	1.897	1.897	2.192	2.192	2.192
<b>10</b>	1.166	1.166	1.166	1.166	1.166	1.166	1.305	1.462	1.462	1.462
<b>15</b>	1.166	1.166	1.166	1.166	1.166	1.305	1.462	1.462	1.462	1.462
<b>20</b>	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462
<b>25</b>	1.757	1.757	1.897	1.897	1.897	1.897	1.757	1.757	1.601	1.601
<b>30</b>	2.332	2.332	2.192	2.192	2.192	2.192	2.192	1.897	1.897	1.897
<b>35</b>	2.627	2.627	2.627	2.627	2.627	2.488	2.488	2.332	2.192	2.036
<b>40</b>	3.202	3.202	3.202	3.062	3.062	3.062	2.767	2.627	2.488	2.332
<b>45</b>	3.497	3.654	3.654	3.497	3.358	3.358	3.202	3.062	2.923	2.627
<b>50</b>	4.089	4.089	4.089	3.932	3.793	3.654	3.654	3.358	3.202	2.923
<b>55</b>	4.385	4.385	4.385	4.385	4.228	4.089	3.932	3.654	3.497	3.202
<b>60</b>	4.663	4.663	4.663	4.663	4.524	4.524	4.228	3.932	3.793	3.497
<b>65</b>	5.255	5.098	4.959	4.959	4.820	4.820	4.524	4.228	4.089	3.793
<b>70</b>	5.551	5.394	5.394	5.255	5.098	5.098	4.820	4.524	4.385	4.089
<b>75</b>	5.551	5.690	5.551	5.551	5.394	5.255	5.098	4.820	4.524	4.228
<b>80</b>	5.829	5.829	5.829	5.829	5.690	5.394	5.255	4.959	4.663	4.385
<b>85</b>	6.125	6.125	6.125	5.986	5.986	5.690	5.394	5.255	4.959	4.663
<b>90</b>	6.421	6.421	6.264	6.125	5.986	5.986	5.690	5.394	4.959	4.663
<b>95</b>	6.421	6.421	6.421	6.264	6.125	5.986	5.690	5.394	5.098	4.663
<b>100</b>	6.716	6.560	6.560	6.421	6.264	5.986	5.829	5.551	5.255	4.959
<b>105</b>	6.716	6.716	6.716	6.560	6.264	5.986	5.986	5.690	5.255	4.959
<b>110</b>	6.716	6.716	6.716	6.560	6.560	6.264	5.986	5.829	5.551	5.098
<b>115</b>	6.716	6.716	6.716	6.560	6.560	6.264	5.986	5.829	5.551	5.098
<b>120</b>	6.716	6.716	6.716	6.560	6.264	6.264	5.986	5.829	5.394	4.959
<b>125</b>	6.716	6.716	6.560	6.560	6.264	6.125	5.986	5.690	5.394	5.098
<b>130</b>	6.421	6.421	6.264	6.264	6.125	5.986	5.690	5.690	5.255	4.959
<b>135</b>	6.125	6.125	6.125	5.986	5.986	5.690	5.551	5.394	5.394	5.098
<b>140</b>	5.829	5.829	5.829	5.690	5.690	5.394	5.394	5.394	5.394	5.098
<b>145</b>	5.551	5.551	5.394	5.394	5.255	5.255	5.394	5.394	5.394	5.255
<b>150</b>	5.255	5.098	5.098	4.820	4.959	5.098	5.394	5.551	5.394	5.255
<b>155</b>	4.663	4.663	4.385	4.524	4.820	5.098	5.255	5.394	5.394	5.098
<b>160</b>	4.089	4.089	3.932	4.089	4.524	4.959	5.098	5.098	4.959	4.959
<b>165</b>	3.793	3.358	3.497	3.793	4.385	4.524	4.663	5.098	5.551	5.829
<b>170</b>	4.385	4.663	4.820	5.551	5.986	6.125	6.264	6.560	6.856	6.716
<b>175</b>	4.385	4.820	5.551	5.986	6.125	6.125	6.264	6.421	6.421	6.421
<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>	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316
<b>5</b>	2.332	2.488	2.488	2.488	2.627	2.767	2.923	3.654	4.663	6.995
<b>10</b>	1.757	1.757	2.036	2.192	2.332	2.488	2.627	2.767	4.524	11.519
<b>15</b>	1.462	1.462	1.601	1.757	2.036	2.332	2.488	2.767	4.385	18.966
<b>20</b>	1.462	1.601	1.601	1.601	1.757	2.036	2.332	2.767	4.385	27.997
<b>25</b>	1.601	1.601	1.601	1.601	1.601	1.897	2.192	2.627	4.228	36.905
<b>30</b>	1.757	1.601	1.601	1.601	1.601	1.757	2.036	2.488	4.089	43.900
<b>35</b>	2.036	1.897	1.757	1.601	1.601	1.601	2.036	2.488	4.385	51.922
<b>40</b>	2.192	2.036	1.897	1.757	1.601	1.601	1.897	2.488	4.228	59.212
<b>45</b>	2.332	2.332	2.036	1.897	1.757	1.601	1.897	2.332	3.932	68.121
<b>50</b>	2.627	2.332	2.332	2.036	1.757	1.757	1.601	2.332	3.932	74.246
<b>55</b>	2.923	2.627	2.332	2.036	2.036	1.757	1.601	2.036	3.932	79.640
<b>60</b>	3.202	2.923	2.627	2.332	2.036	1.757	1.601	2.036	3.932	84.303

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	3.497	3.202	2.767	2.332	2.036	1.757	1.757	1.757	3.793	88.096
<b>70</b>	3.793	3.202	2.923	2.627	2.332	2.036	1.757	1.601	3.497	88.096
<b>75</b>	3.793	3.497	3.062	2.627	2.332	2.036	1.757	1.601	5.098	100.642
<b>80</b>	4.089	3.654	3.202	2.767	2.332	2.036	1.757	1.601	4.959	102.103
<b>85</b>	4.089	3.654	3.358	2.767	2.488	2.036	1.757	1.601	4.959	103.112
<b>90</b>	4.228	3.932	3.358	2.767	2.488	2.192	1.897	1.601	4.385	116.980
<b>95</b>	4.385	3.932	3.358	3.062	2.488	2.192	1.897	1.757	4.385	115.658
<b>100</b>	4.524	3.932	3.654	3.062	2.767	2.332	2.036	1.757	3.932	103.112
<b>105</b>	4.524	4.228	3.654	3.202	2.767	2.488	2.036	1.757	3.654	100.642
<b>110</b>	4.663	4.228	3.654	3.358	2.767	2.488	2.192	1.897	3.358	84.738
<b>115</b>	4.663	4.228	3.793	3.358	3.062	2.627	2.332	2.192	4.385	74.089
<b>120</b>	4.663	4.385	3.793	3.497	3.202	2.627	2.332	2.627	4.228	61.996
<b>125</b>	4.820	4.228	3.932	3.654	3.202	2.923	2.488	2.923	4.228	51.191
<b>130</b>	4.663	4.385	4.089	3.793	3.497	2.923	2.767	3.202	4.385	43.900
<b>135</b>	4.959	4.524	4.089	3.793	3.497	3.062	3.358	3.358	4.524	36.749
<b>140</b>	4.959	4.663	4.385	3.932	3.654	3.358	3.793	3.497	4.663	32.242
<b>145</b>	5.098	4.820	4.385	3.932	3.654	4.228	3.932	3.793	4.820	28.588
<b>150</b>	4.959	4.663	4.524	4.089	4.524	4.820	4.228	4.228	5.255	26.117
<b>155</b>	4.820	4.663	4.524	4.959	5.255	4.959	4.663	4.663	5.986	23.629
<b>160</b>	4.820	5.394	5.829	5.829	5.551	5.098	5.098	5.098	6.560	21.002
<b>165</b>	6.264	6.421	6.421	5.986	5.690	5.551	5.551	5.551	7.291	18.235
<b>170</b>	6.856	6.560	6.264	6.125	6.125	5.986	6.125	6.264	8.161	15.608
<b>175</b>	6.264	6.125	6.125	6.125	6.125	6.264	6.264	6.264	8.317	12.406
<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**

	<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>
<b>0</b>	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316	6.316
<b>5</b>	10.510	15.904	22.324	29.319	36.175	42.874	49.016	54.984	60.239	65.059
<b>10</b>	26.117	42.595	59.508	75.847	91.889	106.906	122.235	135.650	148.196	160.010
<b>15</b>	44.492	70.748	97.423	123.836	149.066	173.565	197.786	220.823	241.529	261.226
<b>20</b>	63.005	98.310	135.215	171.825	207.251	241.686	276.103	308.920	338.674	366.966
<b>25</b>	80.666	125.437	171.964	217.761	265.019	311.112	354.421	397.747	437.123	474.463
<b>30</b>	97.875	151.537	208.435	264.428	323.657	379.216	433.486	487.444	536.738	582.535
<b>35</b>	112.160	176.627	243.148	308.624	379.511	445.440	510.203	576.845	633.447	688.431
<b>40</b>	135.355	199.822	275.668	350.784	432.164	508.306	583.126	655.475	725.911	790.238
<b>45</b>	142.506	223.451	305.126	389.569	480.588	566.057	648.028	732.192	809.779	884.599
<b>50</b>	154.756	242.852	331.679	424.003	523.914	600.039	708.267	801.026	886.495	968.902
<b>55</b>	165.404	259.625	354.856	457.394	559.062	657.215	757.422	860.830	952.580	1041.842
<b>60</b>	174.296	270.553	378.050	483.355	590.417	694.852	800.731	909.394	1007.269	1101.785
<b>65</b>	181.743	281.636	390.299	503.643	601.066	727.668	837.636	947.621	1049.133	1147.426
<b>70</b>	187.137	290.110	402.114	515.005	615.351	748.966	861.857	974.591	1078.452	1181.564
<b>75</b>	188.007	295.939	410.431	525.219	636.805	762.677	877.012	994.288	1098.723	1196.146
<b>80</b>	190.478	299.297	414.816	530.613	652.987	768.802	883.589	1000.552	1104.987	1201.696
<b>85</b>	191.504	303.821	415.982	531.640	653.422	768.802	882.128	994.723	1097.836	1196.581
<b>90</b>	194.132	302.934	413.354	527.986	634.909	762.242	873.671	983.935	1085.151	1181.860
<b>95</b>	192.235	299.297	408.239	524.192	615.803	746.338	858.638	965.996	1064.584	1158.666
<b>100</b>	188.442	293.173	403.141	512.534	605.294	728.399	837.340	941.201	1036.153	1127.015
<b>105</b>	184.075	282.367	388.264	497.657	597.133	705.796	810.370	910.420	1001.283	1088.074
<b>110</b>	178.228	273.180	374.692	475.925	583.996	681.280	778.424	874.106	960.010	1043.008
<b>115</b>	171.233	262.096	358.510	454.627	557.305	649.351	741.083	831.372	915.240	990.930
<b>120</b>	152.424	248.385	339.979	430.424	526.820	601.205	699.219	786.445	862.866	933.458
<b>125</b>	139.148	227.087	310.085	394.980	487.009	572.912	652.987	731.757	802.923	870.609
<b>130</b>	115.223	195.298	276.834	351.793	433.330	511.073	580.499	668.299	740.213	802.784
<b>135</b>	94.813	164.517	240.364	310.816	379.651	449.233	517.337	581.960	654.884	724.310

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	75.255	140.314	201.857	269.683	331.818	389.290	446.745	508.306	556.730	624.260
<b>145</b>	60.830	111.134	171.964	221.119	280.923	342.328	388.559	433.034	480.292	529.447
<b>150</b>	52.652	88.827	136.225	179.986	228.549	282.959	334.880	372.517	403.436	437.854
<b>155</b>	45.797	74.385	108.367	146.299	185.815	219.658	261.800	306.884	336.481	361.711
<b>160</b>	39.376	62.275	86.339	111.725	141.340	170.363	197.925	224.617	254.510	277.130
<b>165</b>	32.381	47.833	67.234	84.442	103.565	121.348	140.174	157.383	174.731	195.593
<b>170</b>	25.091	34.852	46.667	59.647	71.462	81.832	92.029	101.512	109.098	116.684
<b>175</b>	17.069	22.324	27.857	33.547	39.533	45.658	50.912	55.419	59.073	62.431
<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>	6.316	6.316	6.316	6.316	6.316	6.316	6.316
<b>5</b>	69.287	73.080	75.986	78.317	80.075	80.945	81.101
<b>10</b>	170.503	179.116	186.702	192.531	196.620	198.952	199.822
<b>15</b>	278.574	293.451	306.153	316.071	322.927	326.998	328.460
<b>20</b>	392.353	413.929	432.599	447.041	456.959	463.379	465.276
<b>25</b>	508.445	537.173	561.394	580.934	593.183	601.066	603.832
<b>30</b>	623.964	660.139	690.623	715.558	732.766	744.285	747.643
<b>35</b>	738.317	782.078	820.132	850.477	872.053	885.764	890.288
<b>40</b>	848.441	900.502	944.837	979.411	1004.641	1020.841	1025.939
<b>45</b>	951.989	1010.035	1060.652	1100.028	1128.755	1147.286	1153.115
<b>50</b>	1044.017	1108.206	1164.199	1208.395	1240.202	1260.038	1266.302
<b>55</b>	1122.926	1192.213	1253.183	1301.015	1335.154	1356.156	1363.447
<b>60</b>	1186.958	1260.317	1324.645	1375.557	1411.436	1433.447	1441.625
<b>65</b>	1235.818	1312.256	1376.862	1431.411	1468.612	1491.354	1498.505
<b>70</b>	1268.930	1346.516	1412.010	1466.124	1503.760	1528.259	1535.846
<b>75</b>	1284.677	1365.187	1430.819	1484.655	1522.430	1546.495	1554.220
<b>80</b>	1289.636	1369.415	1436.370	1487.561	1524.901	1548.965	1555.978
<b>85</b>	1285.703	1361.254	1426.452	1477.347	1513.382	1537.012	1544.006
<b>90</b>	1268.338	1342.149	1406.024	1455.475	1491.789	1513.817	1521.265
<b>95</b>	1242.238	1313.996	1375.992	1424.695	1459.268	1480.409	1487.422
<b>100</b>	1207.960	1276.812	1336.459	1384.013	1416.969	1437.101	1443.956
<b>105</b>	1165.957	1231.729	1287.600	1334.423	1366.074	1385.475	1392.313
<b>110</b>	1117.237	1179.668	1232.320	1275.785	1307.001	1325.671	1331.935
<b>115</b>	1061.383	1120.456	1170.185	1210.727	1239.611	1257.985	1263.675
<b>120</b>	997.055	1054.231	1102.360	1138.969	1166.096	1183.322	1188.716
<b>125</b>	930.691	982.039	1026.513	1060.356	1085.151	1101.194	1105.857
<b>130</b>	858.064	904.435	944.837	976.053	999.386	1013.393	1017.761
<b>135</b>	780.025	822.185	858.934	887.957	907.497	920.199	924.131
<b>140</b>	686.969	735.829	768.071	793.736	811.675	822.324	826.413
<b>145</b>	578.741	631.115	673.989	696.157	711.764	721.247	724.310
<b>150</b>	477.821	518.798	564.752	596.107	609.383	617.543	620.171
<b>155</b>	382.713	412.763	446.310	489.775	509.176	516.171	518.363
<b>160</b>	294.043	307.754	331.818	362.164	400.217	407.960	409.857
<b>165</b>	208.435	216.004	219.953	236.292	260.356	287.326	288.492
<b>170</b>	124.706	129.665	129.804	129.526	140.888	168.902	182.021
<b>175</b>	64.328	65.059	64.606	59.508	54.253	54.984	79.640
<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\_35\_HA\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	33.26	N.A.	0.80
0-30	118.96	N.A.	2.70
0-40	286.35	N.A.	6.50
0-60	909.42	N.A.	20.80
0-80	1832.02	N.A.	41.80
0-90	2333.93	N.A.	53.30
10-90	2330.39	N.A.	53.20
20-40	253.09	N.A.	5.80
20-50	516.96	N.A.	11.80
40-70	1059.93	N.A.	24.20
60-80	922.60	N.A.	21.10
70-80	485.74	N.A.	11.10
80-90	501.91	N.A.	11.50
90-110	930.02	N.A.	21.20
90-120	1309.65	N.A.	29.90
90-130	1609.83	N.A.	36.70
90-150	1954.44	N.A.	44.60
90-180	2047.77	N.A.	46.70
110-180	1117.75	N.A.	25.50
0-180	4381.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.54
10-20	29.72
20-30	85.70
30-40	167.39
40-50	263.88
50-60	359.19
60-70	436.87
70-80	485.74
80-90	501.91
90-100	486.33
100-110	443.68
110-120	379.63
120-130	300.19
130-140	212.86
140-150	131.75
150-160	67.16
160-170	23.14
170-180	3.02

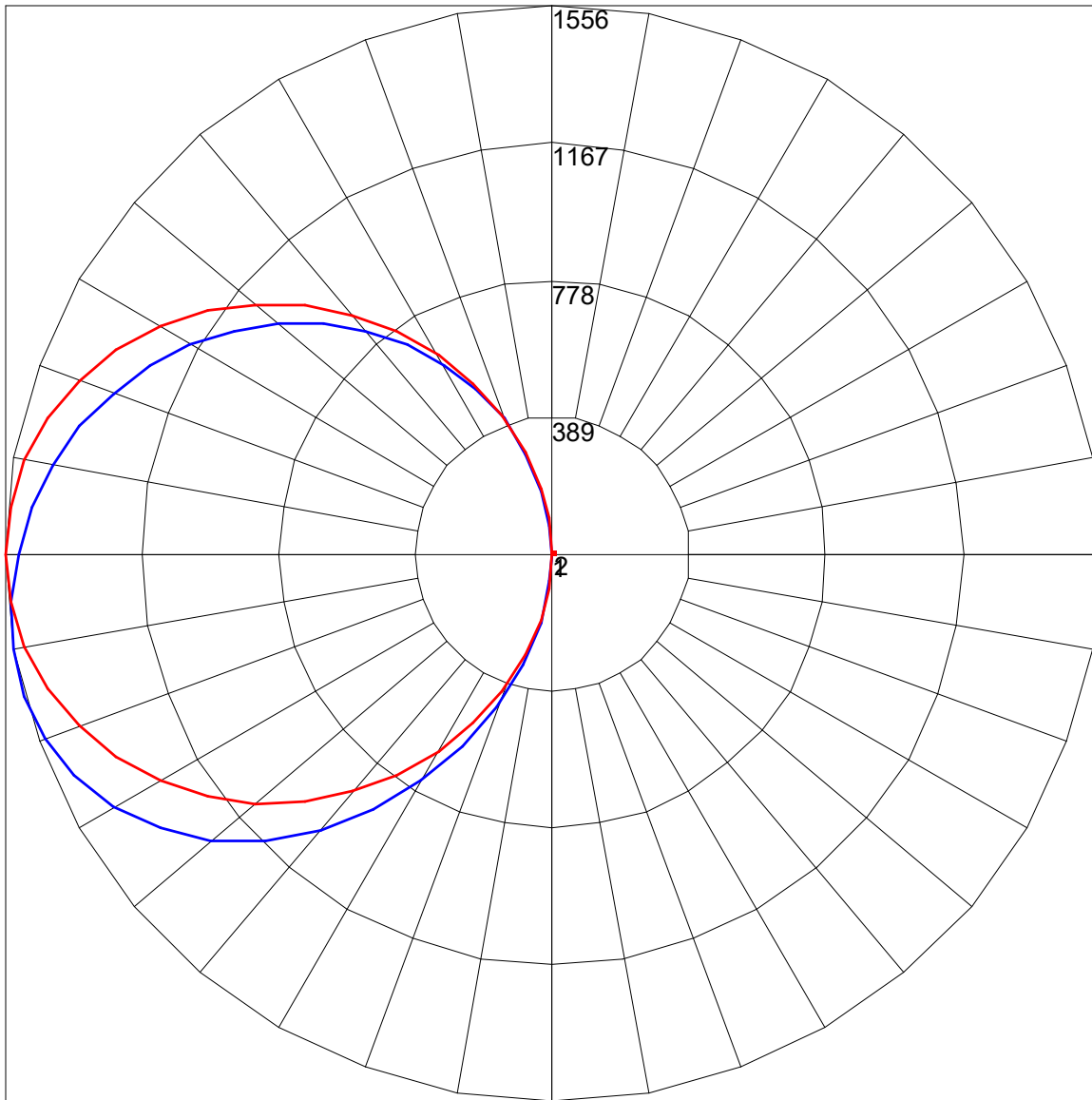
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_35\_HA\_BL.IES**

**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	47	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	32	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 = 1555.978 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.)