

## IES Report

# ZipTwo® | 707 | Square 3519, Single Side Diffuse | 80 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	35	35
Total Lumens, 4' rail length (1219mm)	1288	1329	1356	1356
Lumens per foot (305mm)	322	332	339	339
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\_FA\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011215 (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-FA-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3519, 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	1356
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
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	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1	1	4
55	2	2	5
65	4	3	7
75	7	5	10
85	20	16	29

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_35\_FA\_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>	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776
<b>5</b>	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166
<b>10</b>	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	1.027
<b>15</b>	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.870	0.870
<b>20</b>	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
<b>25</b>	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
<b>30</b>	0.870	0.870	0.870	0.870	0.731	0.731	0.731	0.731	0.592	0.592
<b>35</b>	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.731	0.731
<b>40</b>	1.166	1.166	1.166	1.166	1.027	1.027	1.027	0.870	0.870	0.870
<b>45</b>	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.027	1.027	0.870
<b>50</b>	1.462	1.462	1.462	1.462	1.305	1.305	1.166	1.166	1.027	1.027
<b>55</b>	1.462	1.462	1.462	1.462	1.462	1.462	1.305	1.305	1.305	1.166
<b>60</b>	1.757	1.757	1.757	1.757	1.601	1.601	1.462	1.462	1.305	1.166
<b>65</b>	1.757	1.757	1.757	1.757	1.757	1.757	1.601	1.462	1.462	1.305
<b>70</b>	2.036	2.036	1.897	1.897	1.757	1.757	1.757	1.601	1.462	1.305
<b>75</b>	2.036	2.036	2.036	2.036	1.897	1.757	1.757	1.601	1.601	1.462
<b>80</b>	2.036	2.036	2.036	2.036	2.036	1.897	1.757	1.757	1.601	1.462
<b>85</b>	2.036	2.036	2.036	2.036	2.036	2.036	1.897	1.757	1.601	1.601
<b>90</b>	2.332	2.332	2.192	2.192	2.036	2.036	1.897	1.897	1.601	1.601
<b>95</b>	2.332	2.332	2.332	2.332	2.192	2.036	2.036	1.897	1.757	1.757
<b>100</b>	2.627	2.627	2.627	2.627	2.488	2.488	2.332	2.192	2.036	1.897
<b>105</b>	2.923	2.923	2.923	2.923	2.767	2.767	2.627	2.488	2.332	2.192
<b>110</b>	3.202	3.202	3.062	3.062	3.062	2.923	2.767	2.767	2.488	2.488
<b>115</b>	3.202	3.358	3.202	3.202	3.202	3.062	3.062	3.062	2.767	2.627
<b>120</b>	3.497	3.497	3.497	3.358	3.358	3.358	3.202	3.062	2.923	2.767
<b>125</b>	3.497	3.654	3.654	3.497	3.358	3.358	3.358	3.062	3.062	2.767
<b>130</b>	3.497	3.654	3.654	3.654	3.497	3.358	3.358	3.358	2.767	2.767
<b>135</b>	3.497	3.497	3.654	3.358	3.358	3.358	3.202	2.923	2.923	2.923
<b>140</b>	3.497	3.497	3.654	3.654	3.654	3.202	3.062	3.062	3.062	3.062
<b>145</b>	3.497	3.497	3.654	3.654	3.202	3.062	3.202	3.202	3.202	3.358
<b>150</b>	3.497	3.654	3.654	3.202	3.062	3.202	3.202	3.358	3.793	3.654
<b>155</b>	3.497	3.654	3.654	2.923	3.202	3.202	3.497	3.793	3.793	3.654
<b>160</b>	3.497	3.497	2.923	3.062	3.062	3.793	3.793	3.793	3.793	3.793
<b>165</b>	3.497	2.767	2.767	3.062	3.932	4.228	4.524	5.098	5.986	6.995
<b>170</b>	6.995	6.264	6.560	7.586	7.882	8.161	8.456	8.752	9.048	9.344
<b>175</b>	7.291	8.161	9.048	9.779	9.918	10.057	10.214	10.353	10.510	10.649
<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>	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776
<b>5</b>	1.166	1.166	1.166	1.305	1.462	1.601	1.897	2.332	2.923	3.932
<b>10</b>	1.027	1.166	1.166	1.166	1.166	1.166	1.305	1.757	2.767	5.690
<b>15</b>	0.870	0.870	0.870	1.166	1.166	1.166	1.166	1.462	2.923	7.447
<b>20</b>	0.592	0.870	0.870	0.870	0.870	1.166	1.166	1.305	2.923	9.622
<b>25</b>	0.592	0.592	0.592	0.870	0.870	0.870	1.166	1.166	2.767	11.519
<b>30</b>	0.592	0.592	0.592	0.592	0.870	0.870	0.870	1.166	2.923	13.711
<b>35</b>	0.731	0.592	0.592	0.592	0.592	0.870	0.870	1.027	2.923	15.747
<b>40</b>	0.731	0.731	0.592	0.592	0.592	0.592	0.870	0.870	3.062	17.644
<b>45</b>	0.870	0.731	0.731	0.592	0.592	0.592	0.870	0.870	3.062	19.401
<b>50</b>	1.027	0.870	0.731	0.731	0.592	0.592	0.592	0.870	3.062	20.863
<b>55</b>	1.027	1.027	0.731	0.731	0.731	0.592	0.592	0.870	3.202	22.463
<b>60</b>	1.027	1.027	0.870	0.731	0.731	0.592	0.592	0.592	3.062	23.629

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

**CANDELA TABULATION - (Cont.)**

65	1.166	1.027	1.027	0.731	0.731	0.592	0.592	0.592	3.202	24.795
70	1.305	1.027	1.027	0.870	0.731	0.731	0.592	0.592	3.062	25.526
75	1.305	1.166	1.027	1.027	0.731	0.731	0.592	0.592	3.062	26.257
80	1.305	1.305	1.027	1.027	0.731	0.731	0.592	0.592	3.062	26.831
85	1.305	1.305	1.027	1.027	0.731	0.731	0.592	0.592	2.923	26.831
90	1.462	1.305	1.027	1.027	0.731	0.731	0.731	0.592	2.627	26.831
95	1.601	1.462	1.305	1.027	1.027	0.870	0.731	0.592	1.601	27.283
100	1.757	1.601	1.462	1.305	1.166	1.027	0.870	0.870	1.897	27.562
105	2.036	1.897	1.601	1.462	1.305	1.166	0.870	0.870	2.192	26.692
110	2.192	2.036	1.897	1.601	1.462	1.166	1.166	1.166	2.627	23.490
115	2.488	2.192	1.897	1.757	1.757	1.462	1.462	1.601	3.202	20.863
120	2.627	2.488	2.192	2.192	1.897	1.897	1.601	2.488	3.793	17.644
125	2.627	2.488	2.332	2.332	2.192	2.192	2.036	3.497	4.524	16.043
130	2.767	2.627	2.488	2.332	2.332	2.332	2.488	4.228	5.098	13.572
135	2.923	2.767	2.767	2.488	2.488	2.627	3.497	4.820	5.551	12.685
140	2.923	3.062	2.767	2.627	2.488	3.358	4.385	5.255	5.986	11.815
145	3.497	3.062	2.767	2.627	3.202	4.820	5.098	5.829	6.421	10.945
150	3.654	3.358	3.202	3.793	5.098	6.421	6.421	6.856	7.726	11.084
155	3.654	3.497	4.524	5.829	6.856	7.291	7.726	8.161	8.891	11.675
160	4.524	5.690	6.856	7.726	8.021	8.317	8.752	9.187	9.918	11.954
165	7.586	8.317	8.752	9.048	9.048	9.344	9.779	10.214	10.649	11.954
170	9.483	9.779	9.918	10.057	10.214	10.510	10.788	11.223	11.519	12.250
175	10.649	10.649	10.788	11.084	11.380	11.519	11.954	12.110	12.250	12.406
180	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>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	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776	3.776
5	5.255	6.716	8.317	9.918	11.675	13.120	14.581	16.043	17.365	18.531
10	9.187	13.120	17.209	21.141	24.656	27.857	31.076	33.982	36.749	39.237
15	13.572	19.975	25.822	31.355	36.905	42.160	47.398	52.357	56.741	60.970
20	18.079	26.552	34.139	41.864	49.729	57.472	64.606	71.758	78.178	84.303
25	22.463	32.677	42.595	52.792	63.301	73.219	82.841	92.324	101.077	109.237
30	26.396	38.645	51.052	63.597	77.012	89.401	101.512	113.761	124.706	135.494
35	29.754	44.770	59.647	74.681	90.724	105.896	120.913	135.650	149.501	162.620
40	33.547	51.052	68.121	85.765	105.009	122.809	140.749	158.549	175.601	191.069
45	37.201	56.306	76.577	96.848	118.720	139.722	160.289	181.291	201.579	219.953
50	40.403	61.996	84.442	107.358	132.431	156.061	179.846	204.781	227.244	248.542
55	43.761	67.094	92.185	117.554	145.273	172.103	198.656	226.809	252.178	276.677
60	46.667	72.053	99.180	127.037	157.522	186.841	216.299	247.376	275.668	303.091
65	49.016	76.421	105.461	135.494	168.310	199.961	231.907	265.750	296.809	326.720
70	51.347	80.945	110.995	142.784	177.654	211.340	245.323	281.497	314.905	346.695
75	53.818	84.007	115.379	148.770	185.240	220.528	256.267	293.016	329.051	362.599
80	55.280	86.339	118.877	153.294	191.069	227.540	264.149	302.064	337.804	373.387
85	56.150	87.957	121.208	156.217	194.723	231.768	269.108	307.458	343.772	379.511
90	56.585	88.827	122.235	157.661	196.463	233.508	271.144	309.511	345.668	381.112
95	56.881	88.966	122.374	157.661	196.324	233.508	270.553	308.485	344.363	379.511
100	57.037	88.827	121.783	156.652	194.863	231.333	267.786	304.987	339.979	374.552
105	56.741	88.096	120.338	154.321	191.365	226.809	262.531	298.706	332.549	365.800
110	55.715	86.635	117.850	150.667	186.545	220.684	254.666	289.379	321.900	353.690
115	51.347	84.303	114.353	145.708	178.959	212.506	244.888	277.704	308.328	338.239
120	43.465	79.483	109.394	139.722	171.094	201.422	232.777	263.262	291.850	319.708
125	38.071	67.669	98.449	126.307	156.061	185.971	217.622	246.784	273.041	298.410
130	32.242	54.984	86.200	113.483	139.287	165.979	192.670	221.415	250.142	274.937
135	27.127	47.989	68.852	98.449	122.670	145.568	169.337	193.697	217.622	243.287

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

**CANDELA TABULATION - (Cont.)**

<b>140</b>	23.768	40.107	56.011	77.587	106.471	127.768	146.578	167.005	186.980	207.982
<b>145</b>	20.863	32.381	48.285	61.700	81.536	110.420	128.203	142.645	157.957	174.731
<b>150</b>	20.271	29.319	39.968	53.975	65.929	81.101	102.973	120.913	132.866	143.376
<b>155</b>	18.670	26.987	35.444	43.761	55.576	65.789	75.255	89.123	101.077	112.891
<b>160</b>	16.913	24.221	31.076	37.775	44.196	51.052	59.212	67.669	75.707	80.510
<b>165</b>	15.173	19.975	25.961	31.216	36.175	41.273	45.066	49.590	53.522	59.073
<b>170</b>	13.850	16.478	19.836	23.925	27.562	30.781	33.408	35.583	38.367	40.542
<b>175</b>	12.980	13.850	15.173	16.478	18.079	19.975	21.593	23.038	23.925	24.934
<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>	3.776	3.776	3.776	3.776	3.776	3.776	3.776
<b>5</b>	19.401	20.271	21.002	21.593	22.028	22.168	22.168
<b>10</b>	41.429	43.326	45.066	46.232	47.119	47.398	47.554
<b>15</b>	64.763	67.825	70.453	72.784	74.089	74.820	75.255
<b>20</b>	89.854	94.517	98.449	101.512	103.704	104.870	105.305
<b>25</b>	116.684	123.105	128.638	132.727	135.790	137.547	138.278
<b>30</b>	145.133	153.294	160.445	165.683	169.772	172.260	173.269
<b>35</b>	174.731	184.945	193.836	200.848	205.946	209.148	210.035
<b>40</b>	205.807	218.353	229.141	237.736	244.018	248.107	249.412
<b>45</b>	237.301	252.335	265.594	275.807	283.533	288.492	289.954
<b>50</b>	268.378	286.595	302.203	314.609	323.797	329.626	331.383
<b>55</b>	299.297	320.299	338.378	352.681	363.329	370.324	372.517
<b>60</b>	328.460	352.385	373.091	389.134	401.105	408.970	411.597
<b>65</b>	354.577	380.677	403.436	421.219	434.495	443.248	446.014
<b>70</b>	377.754	404.602	428.806	447.911	462.214	471.401	474.324
<b>75</b>	394.823	422.837	448.207	467.903	482.485	492.263	495.326
<b>80</b>	406.203	434.930	460.613	480.727	495.604	505.087	508.150
<b>85</b>	412.763	441.786	467.312	487.444	502.025	511.664	514.570
<b>90</b>	414.224	442.952	468.043	487.739	502.321	511.664	514.866
<b>95</b>	411.893	440.046	464.980	484.381	498.684	508.010	510.777
<b>100</b>	406.203	433.625	457.829	476.795	490.941	499.989	502.912
<b>105</b>	396.581	423.272	446.606	464.980	478.831	487.304	490.071
<b>110</b>	383.009	408.395	430.859	448.642	461.483	469.800	472.567
<b>115</b>	365.661	389.569	410.727	427.640	439.611	447.197	449.529
<b>120</b>	345.233	367.262	386.663	402.271	413.494	420.349	422.681
<b>125</b>	321.761	341.875	359.675	373.822	383.896	390.160	392.353
<b>130</b>	295.939	313.739	329.782	342.467	351.515	357.048	358.805
<b>135</b>	268.221	283.985	298.132	309.059	316.802	321.761	323.205
<b>140</b>	230.306	252.613	264.724	274.502	281.062	285.430	286.752
<b>145</b>	192.670	211.201	230.881	238.763	244.748	248.246	249.412
<b>150</b>	157.087	171.233	187.572	202.884	207.843	210.905	211.775
<b>155</b>	121.783	132.866	144.838	159.715	170.068	172.538	173.565
<b>160</b>	83.276	86.930	95.978	106.331	122.078	125.872	126.602
<b>165</b>	62.570	64.902	65.059	70.296	77.447	88.688	88.966
<b>170</b>	41.708	42.299	40.542	38.506	41.429	50.025	56.585
<b>175</b>	25.387	25.387	24.934	22.898	20.271	20.567	30.050
<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\_FA\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	8.14	N.A.	0.60
0-30	28.24	N.A.	2.10
0-40	68.34	N.A.	5.00
0-60	231.10	N.A.	17.00
0-80	504.92	N.A.	37.20
0-90	664.58	N.A.	49.00
10-90	663.58	N.A.	48.90
20-40	60.20	N.A.	4.40
20-50	126.56	N.A.	9.30
40-70	288.41	N.A.	21.30
60-80	273.82	N.A.	20.20
70-80	148.17	N.A.	10.90
80-90	159.66	N.A.	11.80
90-110	309.38	N.A.	22.80
90-120	439.52	N.A.	32.40
90-130	542.68	N.A.	40.00
90-150	659.68	N.A.	48.60
90-180	691.44	N.A.	51.00
110-180	382.06	N.A.	28.20
0-180	1356.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.00
10-20	7.14
20-30	20.10
30-40	40.10
40-50	66.35
50-60	96.40
60-70	125.65
70-80	148.17
80-90	159.66
90-100	159.71
100-110	149.67
110-120	130.14
120-130	103.16
130-140	72.57
140-150	44.43
150-160	22.24
160-170	8.05
170-180	1.47

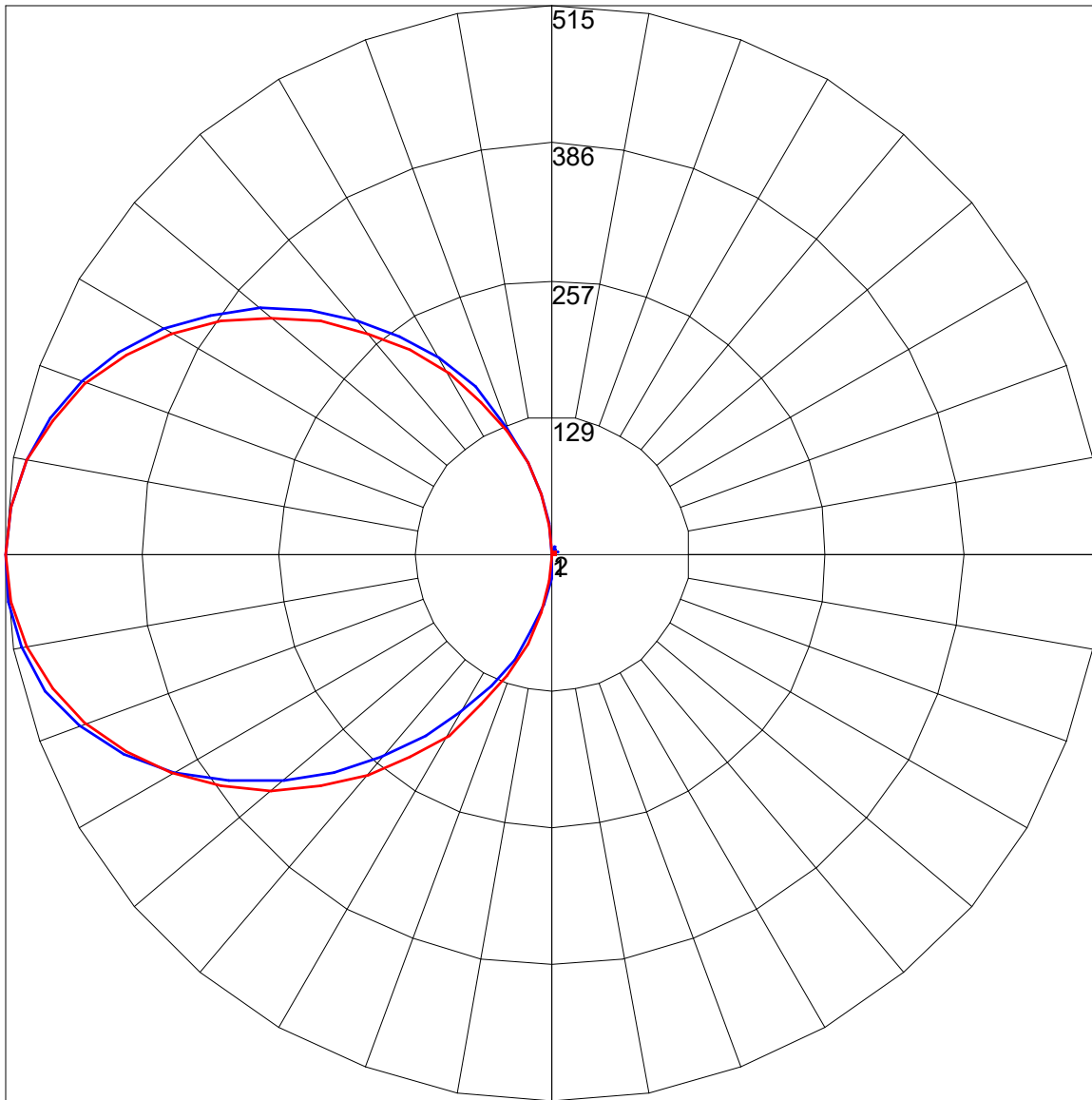
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_35\_FA\_BL.IES**

**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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	91	85	78	73	83	77	72	67	63	59	55	51	48	45	39	37	35	29
2	81	70	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	72	60	50	43	65	55	46	39	44	37	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	59	45	36	28	54	41	32	26	33	26	21	26	20	16	19	15	11	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	13	17	13	9	6
7	50	36	27	20	45	33	24	18	26	20	15	21	15	11	15	11	8	5
8	46	32	23	17	42	29	21	16	24	17	13	19	13	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	15	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 514.866 Located At Horizontal Angle = 180, Vertical Angle = 90  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)