

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	29	30	31	31
Total Lumens, 4' rail length (1219mm)	429	443	452	452
Lumens per foot (305mm)	107	111	113	113
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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\_LO\_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-LO-35-FA-BL

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

[MORE] square 3519, single side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	452
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	30
Total Luminaire Watts	14.89
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	0	0	1
55	1	1	2
65	1	1	2
75	2	2	3
85	7	5	10

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_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>	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259
<b>5</b>	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389
<b>10</b>	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.342
<b>15</b>	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.290	0.290
<b>20</b>	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
<b>25</b>	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.197
<b>30</b>	0.290	0.290	0.290	0.290	0.244	0.244	0.244	0.244	0.197	0.197
<b>35</b>	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.244	0.244
<b>40</b>	0.389	0.389	0.389	0.389	0.342	0.342	0.342	0.290	0.290	0.290
<b>45</b>	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.342	0.342	0.290
<b>50</b>	0.487	0.487	0.487	0.487	0.435	0.435	0.389	0.389	0.342	0.342
<b>55</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.435	0.435	0.435	0.389
<b>60</b>	0.586	0.586	0.586	0.586	0.534	0.534	0.487	0.487	0.435	0.389
<b>65</b>	0.586	0.586	0.586	0.586	0.586	0.586	0.534	0.487	0.487	0.435
<b>70</b>	0.679	0.679	0.632	0.632	0.586	0.586	0.586	0.534	0.487	0.435
<b>75</b>	0.679	0.679	0.679	0.679	0.632	0.586	0.586	0.534	0.534	0.487
<b>80</b>	0.679	0.679	0.679	0.679	0.679	0.632	0.586	0.586	0.534	0.487
<b>85</b>	0.679	0.679	0.679	0.679	0.679	0.679	0.632	0.586	0.534	0.534
<b>90</b>	0.777	0.777	0.731	0.731	0.679	0.679	0.632	0.632	0.534	0.534
<b>95</b>	0.777	0.777	0.777	0.777	0.731	0.679	0.679	0.632	0.586	0.586
<b>100</b>	0.876	0.876	0.876	0.876	0.829	0.829	0.777	0.731	0.679	0.632
<b>105</b>	0.974	0.974	0.974	0.974	0.922	0.922	0.876	0.829	0.777	0.731
<b>110</b>	1.067	1.067	1.021	1.021	1.021	0.974	0.922	0.922	0.829	0.829
<b>115</b>	1.067	1.119	1.067	1.067	1.067	1.021	1.021	1.021	0.922	0.876
<b>120</b>	1.166	1.166	1.166	1.119	1.119	1.119	1.067	1.021	0.974	0.922
<b>125</b>	1.166	1.218	1.218	1.166	1.119	1.119	1.119	1.021	1.021	0.922
<b>130</b>	1.166	1.218	1.218	1.218	1.166	1.119	1.119	1.119	0.922	0.922
<b>135</b>	1.166	1.166	1.218	1.119	1.119	1.119	1.067	0.974	0.974	0.974
<b>140</b>	1.166	1.166	1.218	1.218	1.218	1.067	1.021	1.021	1.021	1.021
<b>145</b>	1.166	1.166	1.218	1.218	1.067	1.021	1.067	1.067	1.067	1.119
<b>150</b>	1.166	1.218	1.218	1.067	1.021	1.067	1.067	1.119	1.264	1.218
<b>155</b>	1.166	1.218	1.218	0.974	1.067	1.067	1.166	1.264	1.264	1.218
<b>160</b>	1.166	1.166	0.974	1.021	1.021	1.264	1.264	1.264	1.264	1.264
<b>165</b>	1.166	0.922	0.922	1.021	1.311	1.409	1.508	1.699	1.995	2.332
<b>170</b>	2.332	2.088	2.187	2.529	2.627	2.720	2.819	2.917	3.016	3.115
<b>175</b>	2.430	2.720	3.016	3.260	3.306	3.352	3.405	3.451	3.503	3.550
<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>	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259
<b>5</b>	0.389	0.389	0.389	0.435	0.487	0.534	0.632	0.777	0.974	1.311
<b>10</b>	0.342	0.389	0.389	0.389	0.389	0.389	0.435	0.586	0.922	1.897
<b>15</b>	0.290	0.290	0.290	0.389	0.389	0.389	0.389	0.487	0.974	2.482
<b>20</b>	0.197	0.290	0.290	0.290	0.290	0.389	0.389	0.435	0.974	3.207
<b>25</b>	0.197	0.197	0.197	0.290	0.290	0.290	0.389	0.389	0.922	3.840
<b>30</b>	0.197	0.197	0.197	0.197	0.290	0.290	0.290	0.389	0.974	4.570
<b>35</b>	0.244	0.197	0.197	0.197	0.197	0.290	0.290	0.342	0.974	5.249
<b>40</b>	0.244	0.244	0.197	0.197	0.197	0.197	0.290	0.290	1.021	5.881
<b>45</b>	0.290	0.244	0.244	0.197	0.197	0.197	0.290	0.290	1.021	6.467
<b>50</b>	0.342	0.290	0.244	0.244	0.197	0.197	0.197	0.290	1.021	6.954
<b>55</b>	0.342	0.342	0.244	0.244	0.244	0.197	0.197	0.290	1.067	7.488
<b>60</b>	0.342	0.342	0.290	0.244	0.244	0.197	0.197	0.197	1.021	7.876

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

**CANDELA TABULATION - (Cont.)**

65	0.389	0.342	0.342	0.244	0.244	0.197	0.197	0.197	1.067	8.265
70	0.435	0.342	0.342	0.290	0.244	0.244	0.197	0.197	1.021	8.509
75	0.435	0.389	0.342	0.342	0.244	0.244	0.197	0.197	1.021	8.752
80	0.435	0.435	0.342	0.342	0.244	0.244	0.197	0.197	1.021	8.944
85	0.435	0.435	0.342	0.342	0.244	0.244	0.197	0.197	0.974	8.944
90	0.487	0.435	0.342	0.342	0.244	0.244	0.244	0.197	0.876	8.944
95	0.534	0.487	0.435	0.342	0.342	0.290	0.244	0.197	0.534	9.094
100	0.586	0.534	0.487	0.435	0.389	0.342	0.290	0.290	0.632	9.187
105	0.679	0.632	0.534	0.487	0.435	0.389	0.290	0.290	0.731	8.897
110	0.731	0.679	0.632	0.534	0.487	0.389	0.389	0.389	0.876	7.830
115	0.829	0.731	0.632	0.586	0.586	0.487	0.487	0.534	1.067	6.954
120	0.876	0.829	0.731	0.731	0.632	0.632	0.534	0.829	1.264	5.881
125	0.876	0.829	0.777	0.777	0.731	0.731	0.679	1.166	1.508	5.348
130	0.922	0.876	0.829	0.777	0.777	0.777	0.829	1.409	1.699	4.524
135	0.974	0.922	0.922	0.829	0.829	0.876	1.166	1.607	1.850	4.228
140	0.974	1.021	0.922	0.876	0.829	1.119	1.462	1.752	1.995	3.938
145	1.166	1.021	0.922	0.876	1.067	1.607	1.699	1.943	2.140	3.648
150	1.218	1.119	1.067	1.264	1.699	2.140	2.140	2.285	2.575	3.695
155	1.218	1.166	1.508	1.943	2.285	2.430	2.575	2.720	2.964	3.892
160	1.508	1.897	2.285	2.575	2.674	2.772	2.917	3.062	3.306	3.985
165	2.529	2.772	2.917	3.016	3.016	3.115	3.260	3.405	3.550	3.985
170	3.161	3.260	3.306	3.352	3.405	3.503	3.596	3.741	3.840	4.083
175	3.550	3.550	3.596	3.695	3.793	3.840	3.985	4.037	4.083	4.135
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	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259	1.259
5	1.752	2.239	2.772	3.306	3.892	4.373	4.860	5.348	5.788	6.177
10	3.062	4.373	5.736	7.047	8.219	9.286	10.359	11.327	12.250	13.079
15	4.524	6.658	8.607	10.452	12.302	14.053	15.799	17.452	18.914	20.323
20	6.026	8.851	11.380	13.955	16.576	19.157	21.535	23.919	26.059	28.101
25	7.488	10.892	14.198	17.597	21.100	24.406	27.614	30.775	33.692	36.412
30	8.799	12.882	17.017	21.199	25.671	29.800	33.837	37.920	41.569	45.165
35	9.918	14.923	19.882	24.894	30.241	35.299	40.304	45.217	49.834	54.207
40	11.182	17.017	22.707	28.588	35.003	40.936	46.916	52.850	58.534	63.690
45	12.400	18.769	25.526	32.283	39.573	46.574	53.430	60.430	67.193	73.318
50	13.468	20.665	28.147	35.786	44.144	52.020	59.949	68.260	75.748	82.847
55	14.587	22.365	30.728	39.185	48.424	57.368	66.219	75.603	84.059	92.226
60	15.556	24.018	33.060	42.346	52.507	62.280	72.100	82.459	91.889	101.030
65	16.339	25.474	35.154	45.165	56.103	66.654	77.302	88.583	98.936	108.907
70	17.116	26.982	36.998	47.595	59.218	70.447	81.774	93.832	104.968	115.565
75	17.939	28.002	38.460	49.590	61.747	73.509	85.422	97.672	109.684	120.866
80	18.427	28.780	39.626	51.098	63.690	75.847	88.050	100.688	112.601	124.462
85	18.717	29.319	40.403	52.072	64.908	77.256	89.703	102.486	114.591	126.504
90	18.862	29.609	40.745	52.554	65.488	77.836	90.381	103.170	115.223	127.037
95	18.960	29.655	40.791	52.554	65.441	77.836	90.184	102.828	114.788	126.504
100	19.012	29.609	40.594	52.217	64.954	77.111	89.262	101.662	113.326	124.851
105	18.914	29.365	40.113	51.440	63.788	75.603	87.510	99.569	110.850	121.933
110	18.572	28.878	39.283	50.222	62.182	73.561	84.889	96.460	107.300	117.897
115	17.116	28.101	38.118	48.569	59.653	70.835	81.629	92.568	102.776	112.746
120	14.488	26.494	36.465	46.574	57.031	67.141	77.592	87.754	97.283	106.569
125	12.690	22.556	32.816	42.102	52.020	61.990	72.541	82.261	91.014	99.470
130	10.747	18.328	28.733	37.828	46.429	55.326	64.223	73.805	83.381	91.646
135	9.042	15.996	22.951	32.816	40.890	48.523	56.446	64.566	72.541	81.096

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

**CANDELA TABULATION - (Cont.)**

<b>140</b>	7.923	13.369	18.670	25.862	35.490	42.589	48.859	55.668	62.327	69.327
<b>145</b>	6.954	10.794	16.095	20.567	27.179	36.807	42.734	47.548	52.652	58.244
<b>150</b>	6.757	9.773	13.323	17.992	21.976	27.034	34.324	40.304	44.289	47.792
<b>155</b>	6.223	8.996	11.815	14.587	18.525	21.930	25.085	29.708	33.692	37.630
<b>160</b>	5.638	8.074	10.359	12.592	14.732	17.017	19.737	22.556	25.236	26.837
<b>165</b>	5.058	6.658	8.654	10.405	12.058	13.758	15.022	16.530	17.841	19.691
<b>170</b>	4.617	5.493	6.612	7.975	9.187	10.260	11.136	11.861	12.789	13.514
<b>175</b>	4.327	4.617	5.058	5.493	6.026	6.658	7.198	7.679	7.975	8.311
<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>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	1.259	1.259	1.259	1.259	1.259	1.259	1.259
<b>5</b>	6.467	6.757	7.001	7.198	7.343	7.389	7.389
<b>10</b>	13.810	14.442	15.022	15.411	15.706	15.799	15.851
<b>15</b>	21.588	22.608	23.484	24.261	24.696	24.940	25.085
<b>20</b>	29.951	31.506	32.816	33.837	34.568	34.957	35.102
<b>25</b>	38.895	41.035	42.879	44.242	45.263	45.849	46.093
<b>30</b>	48.378	51.098	53.482	55.228	56.591	57.420	57.756
<b>35</b>	58.244	61.648	64.612	66.949	68.649	69.716	70.012
<b>40</b>	68.602	72.784	76.380	79.245	81.339	82.702	83.137
<b>45</b>	79.100	84.112	88.531	91.936	94.511	96.164	96.651
<b>50</b>	89.459	95.532	100.734	104.870	107.932	109.875	110.461
<b>55</b>	99.766	106.766	112.793	117.560	121.110	123.441	124.172
<b>60</b>	109.487	117.462	124.364	129.711	133.702	136.323	137.199
<b>65</b>	118.192	126.892	134.479	140.406	144.832	147.749	148.671
<b>70</b>	125.918	134.867	142.935	149.304	154.071	157.134	158.108
<b>75</b>	131.608	140.946	149.402	155.968	160.828	164.088	165.109
<b>80</b>	135.401	144.977	153.538	160.242	165.201	168.362	169.383
<b>85</b>	137.588	147.262	155.771	162.481	167.342	170.555	171.523
<b>90</b>	138.075	147.651	156.014	162.580	167.440	170.555	171.622
<b>95</b>	137.298	146.682	154.993	161.460	166.228	169.337	170.259
<b>100</b>	135.401	144.542	152.610	158.932	163.647	166.663	167.637
<b>105</b>	132.194	141.091	148.869	154.993	159.610	162.435	163.357
<b>110</b>	127.670	136.132	143.620	149.547	153.828	156.600	157.522
<b>115</b>	121.887	129.856	136.909	142.547	146.537	149.066	149.843
<b>120</b>	115.078	122.421	128.888	134.090	137.831	140.116	140.894
<b>125</b>	107.254	113.958	119.892	124.607	127.965	130.053	130.784
<b>130</b>	98.646	104.580	109.927	114.156	117.172	119.016	119.602
<b>135</b>	89.407	94.662	99.377	103.020	105.601	107.254	107.735
<b>140</b>	76.769	84.204	88.241	91.501	93.687	95.143	95.584
<b>145</b>	64.223	70.400	76.960	79.588	81.583	82.749	83.137
<b>150</b>	52.362	57.078	62.524	67.628	69.281	70.302	70.592
<b>155</b>	40.594	44.289	48.279	53.238	56.689	57.513	57.855
<b>160</b>	27.759	28.977	31.993	35.444	40.693	41.957	42.201
<b>165</b>	20.857	21.634	21.686	23.432	25.816	29.563	29.655
<b>170</b>	13.903	14.100	13.514	12.835	13.810	16.675	18.862
<b>175</b>	8.462	8.462	8.311	7.633	6.757	6.856	10.017
<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\_LO\_35\_FA\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2.71	N.A.	0.60
0-30	9.41	N.A.	2.10
0-40	22.78	N.A.	5.00
0-60	77.03	N.A.	17.00
0-80	168.31	N.A.	37.20
0-90	221.53	N.A.	49.00
10-90	221.19	N.A.	48.90
20-40	20.07	N.A.	4.40
20-50	42.19	N.A.	9.30
40-70	96.14	N.A.	21.30
60-80	91.27	N.A.	20.20
70-80	49.39	N.A.	10.90
80-90	53.22	N.A.	11.80
90-110	103.13	N.A.	22.80
90-120	146.51	N.A.	32.40
90-130	180.89	N.A.	40.00
90-150	219.89	N.A.	48.60
90-180	230.48	N.A.	51.00
110-180	127.35	N.A.	28.20
0-180	452.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.33
10-20	2.38
20-30	6.70
30-40	13.37
40-50	22.12
50-60	32.13
60-70	41.88
70-80	49.39
80-90	53.22
90-100	53.24
100-110	49.89
110-120	43.38
120-130	34.39
130-140	24.19
140-150	14.81
150-160	7.41
160-170	2.68
170-180	0.49

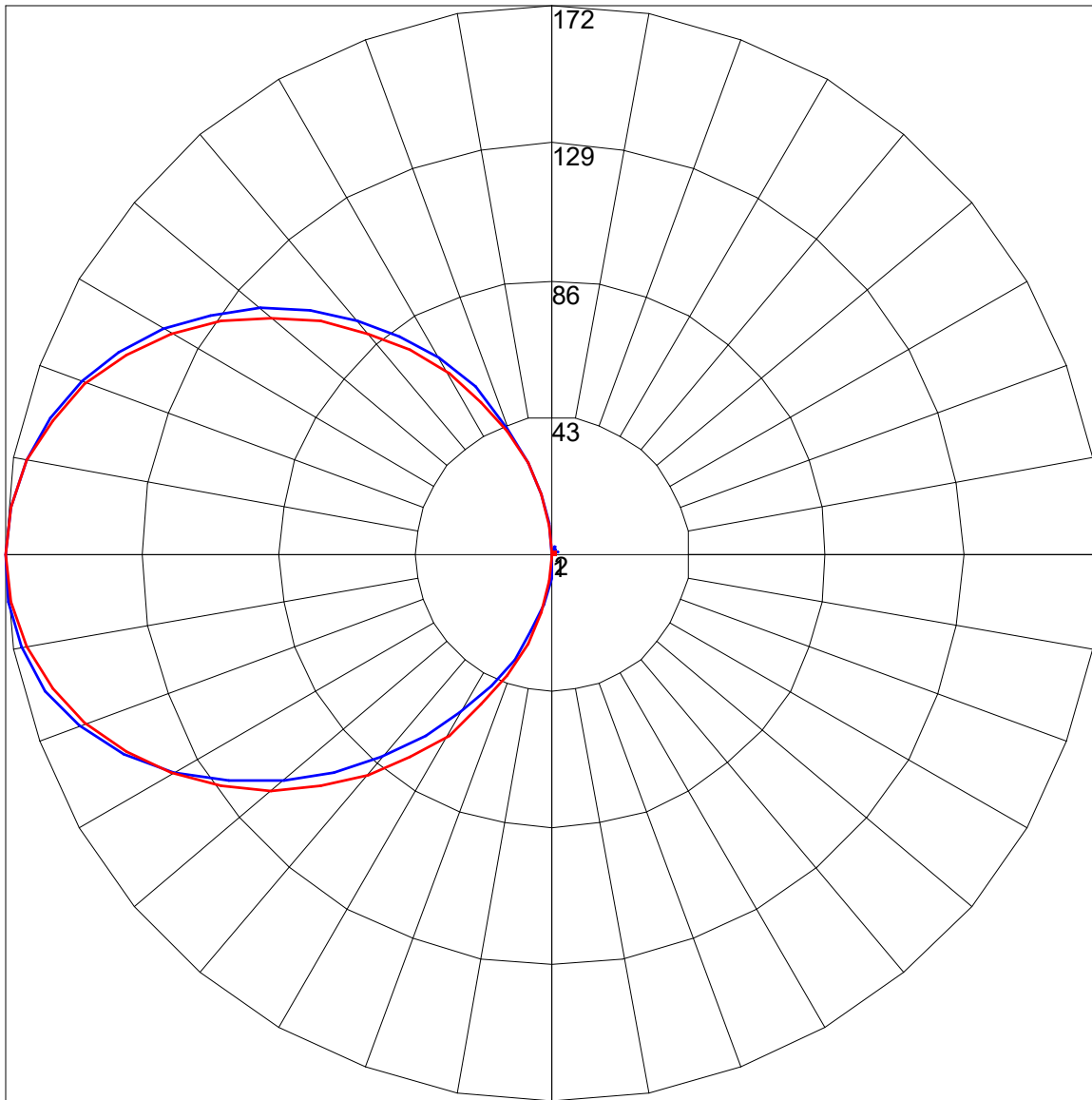
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_FA\_BL.IES**

**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 = 171.622 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.)