

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	33	34	35	35
Total Lumens, 4' rail length (1219mm)	859	886	904	904
Lumens per foot (305mm)	215	221	226	226
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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\_SO\_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-SO-35-FA-BL

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

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

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	26.04
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\_SO\_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>	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517
<b>5</b>	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
<b>10</b>	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.684
<b>15</b>	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.580	0.580
<b>20</b>	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394
<b>25</b>	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394
<b>30</b>	0.580	0.580	0.580	0.580	0.487	0.487	0.487	0.487	0.394	0.394
<b>35</b>	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.487	0.487
<b>40</b>	0.777	0.777	0.777	0.777	0.684	0.684	0.684	0.580	0.580	0.580
<b>45</b>	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.684	0.684	0.580
<b>50</b>	0.974	0.974	0.974	0.974	0.870	0.870	0.777	0.777	0.684	0.684
<b>55</b>	0.974	0.974	0.974	0.974	0.974	0.974	0.870	0.870	0.870	0.777
<b>60</b>	1.172	1.172	1.172	1.172	1.067	1.067	0.974	0.974	0.870	0.777
<b>65</b>	1.172	1.172	1.172	1.172	1.172	1.172	1.067	0.974	0.974	0.870
<b>70</b>	1.357	1.357	1.264	1.264	1.172	1.172	1.172	1.067	0.974	0.870
<b>75</b>	1.357	1.357	1.357	1.357	1.264	1.172	1.172	1.067	1.067	0.974
<b>80</b>	1.357	1.357	1.357	1.357	1.357	1.264	1.172	1.172	1.067	0.974
<b>85</b>	1.357	1.357	1.357	1.357	1.357	1.357	1.264	1.172	1.067	1.067
<b>90</b>	1.554	1.554	1.462	1.462	1.357	1.357	1.264	1.264	1.067	1.067
<b>95</b>	1.554	1.554	1.554	1.554	1.462	1.357	1.357	1.264	1.172	1.172
<b>100</b>	1.752	1.752	1.752	1.752	1.659	1.659	1.554	1.462	1.357	1.264
<b>105</b>	1.949	1.949	1.949	1.949	1.844	1.844	1.752	1.659	1.554	1.462
<b>110</b>	2.134	2.134	2.042	2.042	2.042	1.949	1.844	1.844	1.659	1.659
<b>115</b>	2.134	2.239	2.134	2.134	2.134	2.042	2.042	2.042	1.844	1.752
<b>120</b>	2.332	2.332	2.332	2.239	2.239	2.239	2.134	2.042	1.949	1.844
<b>125</b>	2.332	2.436	2.436	2.332	2.239	2.239	2.239	2.042	2.042	1.844
<b>130</b>	2.332	2.436	2.436	2.436	2.332	2.239	2.239	2.239	1.844	1.844
<b>135</b>	2.332	2.332	2.436	2.239	2.239	2.239	2.134	1.949	1.949	1.949
<b>140</b>	2.332	2.332	2.436	2.436	2.436	2.134	2.042	2.042	2.042	2.042
<b>145</b>	2.332	2.332	2.436	2.436	2.134	2.042	2.134	2.134	2.134	2.239
<b>150</b>	2.332	2.436	2.436	2.134	2.042	2.134	2.134	2.239	2.529	2.436
<b>155</b>	2.332	2.436	2.436	1.949	2.134	2.134	2.332	2.529	2.529	2.436
<b>160</b>	2.332	2.332	1.949	2.042	2.042	2.529	2.529	2.529	2.529	2.529
<b>165</b>	2.332	1.844	1.844	2.042	2.622	2.819	3.016	3.399	3.990	4.663
<b>170</b>	4.663	4.176	4.373	5.058	5.255	5.440	5.638	5.835	6.032	6.229
<b>175</b>	4.860	5.440	6.032	6.519	6.612	6.705	6.809	6.902	7.006	7.099
<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>	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517
<b>5</b>	0.777	0.777	0.777	0.870	0.974	1.067	1.264	1.554	1.949	2.622
<b>10</b>	0.684	0.777	0.777	0.777	0.777	0.777	0.870	1.172	1.844	3.793
<b>15</b>	0.580	0.580	0.580	0.777	0.777	0.777	0.777	0.974	1.949	4.965
<b>20</b>	0.394	0.580	0.580	0.580	0.580	0.777	0.777	0.870	1.949	6.415
<b>25</b>	0.394	0.394	0.394	0.580	0.580	0.580	0.777	0.777	1.844	7.679
<b>30</b>	0.394	0.394	0.394	0.394	0.580	0.580	0.580	0.777	1.949	9.141
<b>35</b>	0.487	0.394	0.394	0.394	0.394	0.580	0.580	0.684	1.949	10.498
<b>40</b>	0.487	0.487	0.394	0.394	0.394	0.394	0.580	0.580	2.042	11.762
<b>45</b>	0.580	0.487	0.487	0.394	0.394	0.394	0.580	0.580	2.042	12.934
<b>50</b>	0.684	0.580	0.487	0.487	0.394	0.394	0.394	0.580	2.042	13.908
<b>55</b>	0.684	0.684	0.487	0.487	0.487	0.394	0.394	0.580	2.134	14.976
<b>60</b>	0.684	0.684	0.580	0.487	0.487	0.394	0.394	0.394	2.042	15.753

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

**CANDELA TABULATION - (Cont.)**

65	0.777	0.684	0.684	0.487	0.487	0.394	0.394	0.394	2.134	16.530
70	0.870	0.684	0.684	0.580	0.487	0.487	0.394	0.394	2.042	17.017
75	0.870	0.777	0.684	0.684	0.487	0.487	0.394	0.394	2.042	17.504
80	0.870	0.870	0.684	0.684	0.487	0.487	0.394	0.394	2.042	17.887
85	0.870	0.870	0.684	0.684	0.487	0.487	0.394	0.394	1.949	17.887
90	0.974	0.870	0.684	0.684	0.487	0.487	0.487	0.394	1.752	17.887
95	1.067	0.974	0.870	0.684	0.684	0.580	0.487	0.394	1.067	18.189
100	1.172	1.067	0.974	0.870	0.777	0.684	0.580	0.580	1.264	18.374
105	1.357	1.264	1.067	0.974	0.870	0.777	0.580	0.580	1.462	17.794
110	1.462	1.357	1.264	1.067	0.974	0.777	0.777	0.777	1.752	15.660
115	1.659	1.462	1.264	1.172	1.172	0.974	0.974	1.067	2.134	13.908
120	1.752	1.659	1.462	1.462	1.264	1.264	1.067	1.659	2.529	11.762
125	1.752	1.659	1.554	1.554	1.462	1.462	1.357	2.332	3.016	10.695
130	1.844	1.752	1.659	1.554	1.554	1.554	1.659	2.819	3.399	9.048
135	1.949	1.844	1.844	1.659	1.659	1.752	2.332	3.213	3.700	8.456
140	1.949	2.042	1.844	1.752	1.659	2.239	2.923	3.503	3.990	7.876
145	2.332	2.042	1.844	1.752	2.134	3.213	3.399	3.886	4.280	7.296
150	2.436	2.239	2.134	2.529	3.399	4.280	4.280	4.570	5.150	7.389
155	2.436	2.332	3.016	3.886	4.570	4.860	5.150	5.440	5.928	7.784
160	3.016	3.793	4.570	5.150	5.348	5.545	5.835	6.125	6.612	7.969
165	5.058	5.545	5.835	6.032	6.032	6.229	6.519	6.809	7.099	7.969
170	6.322	6.519	6.612	6.705	6.809	7.006	7.192	7.482	7.679	8.166
175	7.099	7.099	7.192	7.389	7.586	7.679	7.969	8.074	8.166	8.271
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	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517	2.517
5	3.503	4.478	5.545	6.612	7.784	8.746	9.721	10.695	11.577	12.354
10	6.125	8.746	11.472	14.094	16.437	18.572	20.718	22.655	24.499	26.158
15	9.048	13.317	17.214	20.903	24.604	28.107	31.598	34.904	37.828	40.646
20	12.052	17.702	22.759	27.910	33.153	38.315	43.071	47.838	52.119	56.202
25	14.976	21.785	28.397	35.194	42.201	48.813	55.228	61.550	67.384	72.825
30	17.597	25.764	34.034	42.398	51.342	59.601	67.674	75.841	83.137	90.329
35	19.836	29.847	39.765	49.787	60.482	70.598	80.608	90.434	99.667	108.414
40	22.365	34.034	45.414	57.176	70.006	81.873	93.832	105.699	117.067	127.380
45	24.801	37.538	51.052	64.566	79.147	93.148	106.859	120.860	134.386	146.636
50	26.935	41.331	56.295	71.572	88.288	104.040	119.898	136.520	151.496	165.694
55	29.174	44.730	61.457	78.370	96.848	114.736	132.437	151.206	168.119	184.452
60	31.111	48.036	66.120	84.692	105.015	124.561	144.200	164.917	183.779	202.060
65	32.677	50.947	70.308	90.329	112.207	133.307	154.605	177.167	197.873	217.813
70	34.232	53.963	73.996	95.190	118.436	140.894	163.548	187.665	209.937	231.130
75	35.879	56.005	76.920	99.180	123.494	147.018	170.845	195.344	219.368	241.732
80	36.853	57.559	79.251	102.196	127.380	151.693	176.100	201.376	225.202	248.924
85	37.433	58.638	80.806	104.145	129.816	154.512	179.406	204.972	229.181	253.008
90	37.723	59.218	81.490	105.108	130.976	155.672	180.763	206.341	230.446	254.075
95	37.920	59.311	81.583	105.108	130.883	155.672	180.368	205.656	229.576	253.008
100	38.025	59.218	81.188	104.435	129.908	154.222	178.524	203.325	226.652	249.702
105	37.828	58.731	80.226	102.880	127.577	151.206	175.021	199.137	221.699	243.867
110	37.143	57.756	78.567	100.444	124.364	147.123	169.778	192.920	214.600	235.793
115	34.232	56.202	76.235	97.138	119.306	141.671	163.258	185.136	205.552	225.492
120	28.977	52.989	72.929	93.148	114.063	134.282	155.185	175.508	194.567	213.138
125	25.381	45.112	65.633	84.204	104.040	123.981	145.081	164.523	182.027	198.940
130	21.495	36.656	57.466	75.655	92.858	110.652	128.447	147.610	166.762	183.292
135	18.084	31.993	45.901	65.633	81.780	97.046	112.891	129.131	145.081	162.191

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

**CANDELA TABULATION - (Cont.)**

<b>140</b>	15.846	26.738	37.340	51.724	70.980	85.179	97.718	111.337	124.654	138.655
<b>145</b>	13.908	21.588	32.190	41.134	54.358	73.614	85.469	95.097	105.305	116.487
<b>150</b>	13.514	19.546	26.645	35.983	43.952	54.068	68.649	80.608	88.578	95.584
<b>155</b>	12.447	17.992	23.629	29.174	37.050	43.860	50.170	59.415	67.384	75.261
<b>160</b>	11.275	16.147	20.718	25.184	29.464	34.034	39.475	45.112	50.472	53.673
<b>165</b>	10.115	13.317	17.307	20.810	24.116	27.515	30.044	33.060	35.682	39.382
<b>170</b>	9.234	10.985	13.224	15.950	18.374	20.520	22.272	23.722	25.578	27.028
<b>175</b>	8.654	9.234	10.115	10.985	12.052	13.317	14.396	15.358	15.950	16.623
<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>	2.517	2.517	2.517	2.517	2.517	2.517	2.517
<b>5</b>	12.934	13.514	14.001	14.396	14.686	14.778	14.778
<b>10</b>	27.620	28.884	30.044	30.821	31.413	31.598	31.703
<b>15</b>	43.175	45.217	46.968	48.523	49.393	49.880	50.170
<b>20</b>	59.902	63.011	65.633	67.674	69.136	69.913	70.203
<b>25</b>	77.790	82.070	85.759	88.485	90.526	91.698	92.185
<b>30</b>	96.756	102.196	106.964	110.455	113.181	114.840	115.513
<b>35</b>	116.487	123.296	129.224	133.899	137.298	139.432	140.024
<b>40</b>	137.205	145.568	152.760	158.491	162.678	165.404	166.274
<b>45</b>	158.201	168.223	177.062	183.872	189.022	192.328	193.302
<b>50</b>	178.918	191.064	201.469	209.740	215.864	219.750	220.922
<b>55</b>	199.532	213.533	225.585	235.120	242.220	246.883	248.344
<b>60</b>	218.973	234.923	248.727	259.422	267.403	272.646	274.398
<b>65</b>	236.385	253.785	268.958	280.813	289.664	295.498	297.343
<b>70</b>	251.836	269.735	285.870	298.607	308.142	314.267	316.216
<b>75</b>	263.216	281.892	298.804	311.936	321.656	328.176	330.217
<b>80</b>	270.802	289.954	307.075	320.485	330.403	336.725	338.766
<b>85</b>	275.175	294.524	311.541	324.962	334.683	341.110	343.047
<b>90</b>	276.150	295.301	312.028	325.160	334.880	341.110	343.244
<b>95</b>	274.595	293.364	309.987	322.921	332.456	338.674	340.518
<b>100</b>	270.802	289.084	305.219	317.863	327.294	333.326	335.275
<b>105</b>	264.387	282.182	297.737	309.987	319.220	324.870	326.714
<b>110</b>	255.339	272.264	287.239	299.094	307.655	313.200	315.044
<b>115</b>	243.774	259.712	273.818	285.093	293.074	298.132	299.686
<b>120</b>	230.156	244.841	257.775	268.180	275.662	280.233	281.787
<b>125</b>	214.507	227.917	239.784	249.214	255.931	260.107	261.568
<b>130</b>	197.293	209.160	219.855	228.311	234.343	238.032	239.204
<b>135</b>	178.814	189.324	198.754	206.039	211.201	214.507	215.470
<b>140</b>	153.538	168.409	176.482	183.002	187.375	190.286	191.168
<b>145</b>	128.447	140.801	153.920	159.175	163.166	165.497	166.274
<b>150</b>	104.725	114.156	125.048	135.256	138.562	140.604	141.184
<b>155</b>	81.188	88.578	96.558	106.476	113.378	115.026	115.710
<b>160</b>	55.518	57.954	63.986	70.888	81.386	83.914	84.402
<b>165</b>	41.714	43.268	43.372	46.864	51.632	59.125	59.311
<b>170</b>	27.805	28.200	27.028	25.671	27.620	33.350	37.723
<b>175</b>	16.924	16.924	16.623	15.266	13.514	13.711	20.033
<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\_SO\_35\_FA\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5.42	N.A.	0.60
0-30	18.83	N.A.	2.10
0-40	45.56	N.A.	5.00
0-60	154.06	N.A.	17.00
0-80	336.61	N.A.	37.20
0-90	443.05	N.A.	49.00
10-90	442.38	N.A.	48.90
20-40	40.13	N.A.	4.40
20-50	84.37	N.A.	9.30
40-70	192.27	N.A.	21.30
60-80	182.55	N.A.	20.20
70-80	98.78	N.A.	10.90
80-90	106.44	N.A.	11.80
90-110	206.26	N.A.	22.80
90-120	293.01	N.A.	32.40
90-130	361.79	N.A.	40.00
90-150	439.79	N.A.	48.60
90-180	460.96	N.A.	51.00
110-180	254.70	N.A.	28.20
0-180	904.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.67
10-20	4.76
20-30	13.40
30-40	26.73
40-50	44.24
50-60	64.27
60-70	83.77
70-80	98.78
80-90	106.44
90-100	106.47
100-110	99.78
110-120	86.76
120-130	68.77
130-140	48.38
140-150	29.62
150-160	14.82
160-170	5.37
170-180	0.98

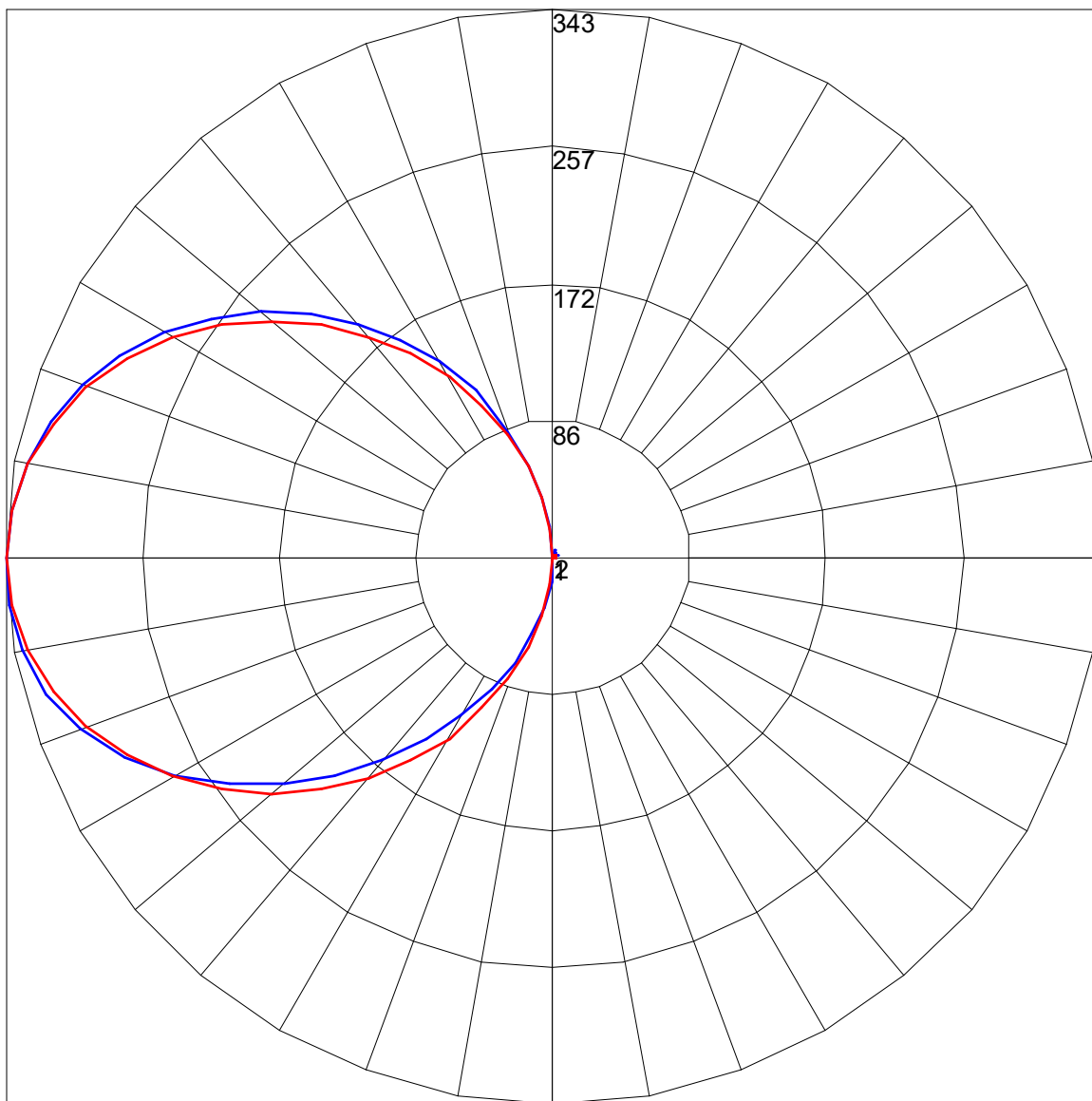
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_FA\_BL.IES**

**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 = 343.244 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.)