

## IES Report

# ZipTwo® | 707 | Square 3536/30, Soft Wash | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-A3-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	90	92	92
Total Lumens, 4' rail length (1219mm)	2269	2341	2388	2388
Lumens per foot (305mm)	567	585	597	597
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\_A3\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011502 (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-A3-BL

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

[MORE] square 3536/30 soft wash 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	2388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	26.03
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14119	13890	13416
55	13487	13250	12796
65	12831	12577	12033
75	12187	11837	11182
85	11516	11125	10199

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A3\_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>	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828
<b>5</b>	758.048	757.666	757.271	756.784	755.520	754.452	753.095	751.344	749.499	747.260
<b>10</b>	793.057	792.767	791.793	790.238	788.092	785.575	781.968	778.174	773.906	769.045
<b>15</b>	819.308	818.925	817.266	815.028	811.722	807.256	802.105	796.363	789.844	782.559
<b>20</b>	836.430	835.838	833.704	830.398	826.117	820.085	813.183	805.504	796.850	786.932
<b>25</b>	843.622	842.450	840.211	836.128	830.780	823.786	815.225	805.504	794.809	782.455
<b>30</b>	840.513	839.631	836.615	832.242	825.920	817.661	807.836	796.746	784.206	770.112
<b>35</b>	828.066	826.987	823.878	818.728	811.722	802.488	791.700	779.149	764.950	749.198
<b>40</b>	806.861	805.794	802.001	796.850	789.357	779.543	767.386	753.872	738.317	721.195
<b>45</b>	777.884	776.817	773.128	767.189	759.313	748.618	735.881	721.195	704.770	686.581
<b>50</b>	742.296	740.938	737.238	731.020	722.657	711.277	698.158	682.985	665.770	646.619
<b>55</b>	701.069	699.805	695.722	689.597	680.850	669.471	656.050	640.007	621.435	601.796
<b>60</b>	655.562	654.298	650.412	644.183	635.054	623.384	609.568	593.236	574.467	554.144
<b>65</b>	606.750	605.300	601.309	595.080	586.136	574.177	560.176	543.263	524.204	503.394
<b>70</b>	555.408	553.958	549.968	543.356	534.215	522.162	507.964	491.040	471.691	450.590
<b>75</b>	501.549	500.088	496.190	489.288	479.764	468.002	453.804	436.879	417.333	395.560
<b>80</b>	445.730	444.373	440.185	433.573	424.050	412.380	398.379	383.206	363.857	342.467
<b>85</b>	388.948	388.066	384.563	377.951	368.822	356.851	342.270	326.030	307.458	286.949
<b>90</b>	332.154	330.890	326.714	320.392	311.448	299.686	285.383	269.445	251.453	231.524
<b>95</b>	272.461	271.196	267.299	260.977	252.323	240.955	227.731	211.781	194.567	175.021
<b>100</b>	213.138	212.071	208.185	202.153	193.987	183.094	170.160	155.486	139.246	120.675
<b>105</b>	155.185	154.025	150.522	144.884	137.100	126.985	114.840	101.222	86.049	69.519
<b>110</b>	99.377	98.403	95.097	89.946	82.743	73.022	62.130	49.590	35.682	20.323
<b>115</b>	46.284	45.414	42.398	37.630	30.926	22.365	12.644	3.886	0.777	0.580
<b>120</b>	1.949	1.752	1.172	0.777	0.580	0.580	0.487	0.487	0.487	0.487
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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>	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828
<b>5</b>	744.929	742.493	739.871	736.855	734.129	731.113	728.109	724.896	721.497	718.481
<b>10</b>	763.883	758.153	751.831	745.706	739.280	732.378	725.476	718.574	711.672	704.770
<b>15</b>	774.091	765.635	756.204	746.286	736.461	726.160	715.465	704.862	694.457	683.275
<b>20</b>	775.843	764.370	752.028	738.897	725.673	711.869	697.670	683.762	670.051	655.272
<b>25</b>	769.045	754.940	739.674	723.434	707.194	690.177	672.870	655.852	639.032	621.238
<b>30</b>	753.768	737.342	719.444	700.779	682.010	662.082	641.851	622.015	602.469	582.053
<b>35</b>	730.928	712.646	692.416	671.512	650.215	627.850	605.102	583.318	561.243	538.008
<b>40</b>	701.266	681.036	659.263	636.121	612.979	588.665	563.969	539.655	515.643	490.552
<b>45</b>	665.388	643.997	620.368	596.054	571.068	545.003	518.369	492.698	466.738	439.895
<b>50</b>	624.347	601.889	577.390	551.429	525.468	497.849	469.939	442.621	415.489	387.684
<b>55</b>	579.524	556.290	530.514	503.684	476.551	448.839	418.992	392.057	364.147	335.078
<b>60</b>	531.199	507.082	481.029	453.316	425.500	396.720	368.718	339.741	310.091	280.720

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**CANDELA TABULATION - (Cont.)**

65	479.962	454.778	428.910	398.669	375.237	345.193	314.952	285.685	255.826	226.177
70	427.738	398.182	377.081	349.659	320.299	290.255	260.977	231.710	202.153	173.954
75	375.040	349.566	322.631	294.338	266.232	236.478	207.594	179.011	150.034	122.716
80	319.615	294.524	267.890	240.178	212.361	183.872	155.672	126.985	99.180	74.089
85	264.097	239.586	213.626	186.888	160.242	132.530	104.818	81.293	52.699	27.620
90	208.672	185.820	160.927	135.256	109.875	83.717	57.466	32.190	8.074	0.487
95	153.735	132.043	108.611	84.494	60.680	35.983	11.090	0.487	0.487	0.487
100	100.932	80.608	58.731	36.076	13.804	0.684	0.487	0.487	0.487	0.487
105	50.564	31.506	11.275	0.870	0.487	0.487	0.487	0.487	0.487	0.487
110	4.965	0.580	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
115	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
120	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828	723.828
5	715.360	711.962	709.236	706.521	703.702	701.069	698.645	696.209	694.260	692.323
10	698.053	690.954	684.539	678.217	671.802	666.362	660.910	655.957	651.584	647.303
15	673.067	662.766	652.744	643.406	634.079	625.321	617.642	610.056	603.351	597.319
20	641.758	628.140	615.310	602.956	591.484	580.302	569.606	559.793	551.325	543.263
25	604.418	588.375	572.715	558.041	543.553	530.039	517.290	505.331	494.833	485.205
30	562.994	543.843	526.048	508.741	492.014	476.656	461.773	448.259	436.299	425.024
35	516.618	495.413	475.577	456.425	437.761	420.546	404.109	389.435	376.014	363.567
40	467.318	444.176	422.495	401.975	381.942	363.277	345.576	329.336	314.847	301.530
45	415.199	390.700	367.940	345.866	324.382	304.639	285.975	268.668	253.588	239.494
50	361.816	336.052	312.133	289.176	266.812	245.816	226.850	209.055	193.697	179.591
55	308.432	281.892	257.195	233.659	210.714	189.509	170.358	152.366	136.613	122.032
60	253.588	226.652	200.982	177.550	155.289	134.479	115.327	96.941	81.583	67.094
65	199.137	173.374	147.900	123.876	101.802	81.780	62.327	44.637	29.174	15.173
70	146.636	121.255	96.268	73.706	50.947	30.926	12.934	2.332	1.949	2.134
75	96.848	71.862	47.548	25.276	5.638	0.000	0.000	0.000	0.000	0.000
80	49.300	24.696	4.663	1.067	1.172	0.000	0.000	0.000	0.000	0.000
85	5.835	0.777	0.777	0.974	1.067	0.000	0.000	0.000	0.000	0.000
90	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
95	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
100	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
105	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
110	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
115	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
120	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487	0.487
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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><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>	723.828	723.828	723.828	723.828	723.828	723.828	723.828
<b>5</b>	690.664	689.307	688.135	687.068	686.488	686.094	685.908
<b>10</b>	643.800	640.784	638.162	636.214	634.752	633.975	633.592
<b>15</b>	592.168	587.691	583.805	580.696	578.654	577.390	576.798
<b>20</b>	536.059	530.329	525.167	521.385	518.659	516.908	516.328
<b>25</b>	476.841	469.742	463.617	458.954	455.648	453.804	452.922
<b>30</b>	415.396	407.322	400.316	395.270	391.570	389.238	388.554
<b>35</b>	352.872	343.928	336.342	330.403	326.320	323.698	322.828
<b>40</b>	289.954	280.430	272.159	265.942	261.568	258.750	257.868
<b>45</b>	227.441	217.419	208.765	202.246	197.780	195.158	194.277
<b>50</b>	167.144	156.844	148.086	141.474	136.718	133.794	132.820
<b>55</b>	109.388	99.087	90.816	84.007	79.344	76.328	75.458
<b>60</b>	54.740	44.440	35.786	28.977	24.314	21.588	20.613
<b>65</b>	5.348	2.622	2.726	2.726	2.726	2.726	2.726
<b>70</b>	2.332	2.332	2.529	2.529	2.622	2.726	2.726
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>95</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>100</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>105</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>110</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>115</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>120</b>	0.487	0.487	0.487	0.487	0.487	0.487	0.487
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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\_A3\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	265.00	N.A.	11.10
0-30	561.58	N.A.	23.50
0-40	917.26	N.A.	38.40
0-60	1622.02	N.A.	67.90
0-80	2108.55	N.A.	88.30
0-90	2254.85	N.A.	94.40
10-90	2186.26	N.A.	91.50
20-40	652.26	N.A.	27.30
20-50	1020.26	N.A.	42.70
40-70	980.75	N.A.	41.10
60-80	486.52	N.A.	20.40
70-80	210.54	N.A.	8.80
80-90	146.30	N.A.	6.10
90-110	125.10	N.A.	5.20
90-120	133.19	N.A.	5.60
90-130	133.32	N.A.	5.60
90-150	133.32	N.A.	5.60
90-180	133.32	N.A.	5.60
110-180	8.22	N.A.	0.30
0-180	2388.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.59
10-20	196.41
20-30	296.58
30-40	355.68
40-50	368.00
50-60	336.76
60-70	275.99
70-80	210.54
80-90	146.30
90-100	86.76
100-110	38.33
110-120	8.09
120-130	0.13
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

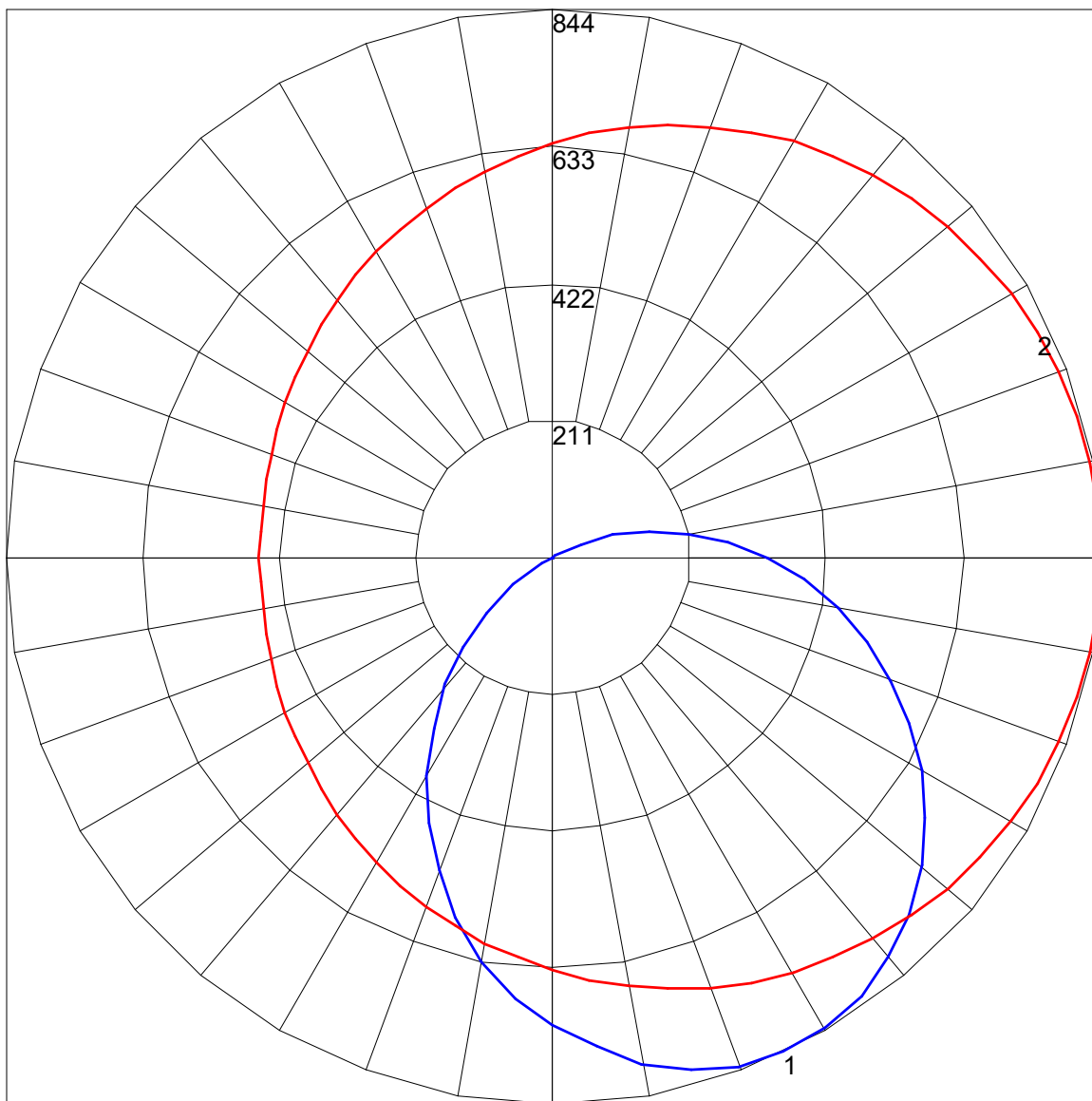
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A3\_BL.IES**

**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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	92	88	84	87	84	81	82	80	77	75
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	64	61
3	87	75	66	60	84	73	65	59	69	62	57	66	60	55	63	58	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	56	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 843.622 Located At Horizontal Angle = 0, Vertical Angle = 25

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)