

## IES Report

# ZipTwo® | 707 | Micro 3508, 85° Asymmetric | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	41	42	43	43
Total Lumens, 4' rail length (1219mm)	1048	1081	1103	1103
Lumens per foot (305mm)	262	270	276	276
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\_A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911529 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-SO-35-A1-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, micro 3508, 85° asymmetric black lens,

[MORE] standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	26.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.08
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	88505	58157	8741
55	82151	47821	6229
65	71927	36383	5145
75	63293	29034	4441
85	71591	29165	3164

**IES INDOOR REPORT**  
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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>	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983
<b>5</b>	318.153	317.283	316.112	313.977	310.868	306.588	301.728	296.183	290.151	283.736
<b>10</b>	466.738	465.566	461.576	455.451	446.600	435.905	423.365	408.587	392.347	376.791
<b>15</b>	640.401	638.058	631.260	620.368	605.102	586.334	564.166	538.008	509.901	478.883
<b>20</b>	809.784	806.478	797.233	782.942	762.526	735.591	703.401	667.336	626.980	583.225
<b>25</b>	944.159	940.273	930.065	912.270	887.864	857.136	820.572	775.553	723.434	667.916
<b>30</b>	1021.368	1017.865	1006.880	989.956	964.772	930.935	890.683	840.803	783.824	721.300
<b>35</b>	1040.230	1036.240	1026.322	1008.144	982.856	948.346	907.213	854.607	794.704	728.689
<b>40</b>	1002.890	999.584	989.863	972.161	944.553	910.809	868.515	815.028	754.360	687.172
<b>45</b>	926.469	922.478	913.140	893.212	866.369	831.465	788.092	734.814	674.238	608.791
<b>50</b>	819.111	815.132	804.147	785.575	758.048	722.564	677.440	626.203	569.711	507.570
<b>55</b>	697.566	694.852	683.565	664.808	638.360	602.469	559.016	510.586	458.861	406.058
<b>60</b>	571.752	568.632	557.937	540.340	515.446	481.899	443.108	400.316	355.204	308.142
<b>65</b>	450.010	447.482	437.946	422.785	399.643	372.221	339.068	301.820	263.610	227.627
<b>70</b>	340.715	338.384	330.600	317.770	299.002	274.978	248.437	219.368	190.101	163.166
<b>75</b>	242.510	240.468	234.436	224.425	210.030	192.142	172.596	151.206	130.291	111.244
<b>80</b>	158.885	157.528	153.050	146.044	135.940	123.494	110.165	95.967	82.163	69.820
<b>85</b>	92.371	91.594	88.682	84.007	77.697	69.913	61.747	52.989	44.927	37.630
<b>90</b>	42.978	42.398	40.739	38.118	34.719	30.636	26.448	22.168	18.189	14.778
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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>	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983
<b>5</b>	276.150	268.563	260.977	252.323	244.354	236.188	227.731	219.855	211.584	202.246
<b>10</b>	358.510	339.451	319.522	299.686	280.523	261.081	242.892	225.295	208.081	191.064
<b>15</b>	447.192	413.447	378.740	346.840	314.952	283.249	254.469	226.270	200.692	176.970
<b>20</b>	534.018	486.376	436.496	384.958	343.627	299.292	258.448	222.476	190.588	160.927
<b>25</b>	607.237	545.977	481.702	418.215	362.013	306.971	255.629	212.558	175.322	141.091
<b>30</b>	651.189	579.919	504.554	430.372	363.857	301.333	244.447	196.898	155.672	120.965
<b>35</b>	654.692	575.928	497.164	408.007	348.684	280.430	221.305	173.374	133.017	99.957
<b>40</b>	615.693	534.505	457.005	383.009	309.604	244.261	190.588	145.951	109.295	81.490
<b>45</b>	539.760	466.146	393.901	323.014	259.620	201.956	155.382	117.462	91.501	64.276
<b>50</b>	444.558	381.072	317.770	258.355	205.946	159.570	120.965	92.765	68.069	50.367
<b>55</b>	350.436	296.078	244.551	197.676	157.331	121.545	92.475	70.203	52.896	39.765
<b>60</b>	263.123	221.699	182.514	147.506	117.659	92.278	71.085	53.963	41.424	31.506

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

<b>65</b>	192.525	161.797	132.820	107.544	89.656	68.556	53.383	41.516	32.190	24.986
<b>70</b>	137.495	114.643	95.004	77.697	62.431	49.984	39.289	31.111	24.406	19.152
<b>75</b>	93.542	77.790	64.473	52.606	42.781	34.417	27.225	21.588	17.017	13.514
<b>80</b>	58.441	48.418	40.066	32.677	26.251	21.008	16.530	13.027	10.115	7.876
<b>85</b>	31.111	25.381	20.613	16.333	12.934	9.918	7.482	5.545	4.083	3.016
<b>90</b>	11.670	9.141	6.809	5.058	3.503	2.332	1.264	0.684	0.394	0.197
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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. 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>
<b>0</b>	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983	209.983
<b>5</b>	194.857	187.758	180.960	174.835	168.513	163.166	158.201	153.340	149.454	145.754
<b>10</b>	176.587	162.968	150.324	139.246	128.551	119.700	111.824	104.818	98.797	93.740
<b>15</b>	156.646	138.168	121.939	108.228	96.071	86.153	77.790	70.690	64.658	59.902
<b>20</b>	136.428	114.550	100.247	83.334	71.085	61.642	54.068	47.943	42.978	39.092
<b>25</b>	115.026	97.533	76.618	63.104	52.513	44.532	38.025	33.153	29.557	26.645
<b>30</b>	97.916	75.168	58.928	47.456	38.895	32.480	27.515	23.826	21.193	19.152
<b>35</b>	76.618	58.928	45.600	36.169	29.174	24.209	20.613	17.992	16.043	14.488
<b>40</b>	61.167	45.994	35.299	28.002	22.458	18.862	16.240	14.198	12.841	11.670
<b>45</b>	47.943	36.076	27.805	22.272	18.084	15.266	13.317	11.670	10.602	9.721
<b>50</b>	37.920	28.780	22.562	18.374	15.068	12.934	11.275	10.011	9.048	8.364
<b>55</b>	30.148	23.432	18.862	15.463	12.841	11.090	9.825	8.654	7.876	7.192
<b>60</b>	24.604	19.453	15.846	13.224	11.182	9.628	8.456	7.482	6.809	6.229
<b>65</b>	19.929	16.043	13.131	10.892	9.338	8.074	7.006	6.229	5.638	5.058
<b>70</b>	15.358	12.540	10.312	8.654	7.296	6.322	5.440	4.860	4.280	3.886
<b>75</b>	10.788	8.746	7.296	6.125	5.058	4.478	3.886	3.503	3.213	2.726
<b>80</b>	6.322	5.058	4.176	3.503	2.923	2.529	2.239	1.949	1.752	1.554
<b>85</b>	2.332	1.949	1.659	1.357	1.172	0.974	0.870	0.870	0.777	0.777
<b>90</b>	0.197	0.197	0.197	0.197	0.197	0.197	0.197	0.290	0.394	0.394
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1\_BL.IES**

**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. 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>	209.983	209.983	209.983	209.983	209.983	209.983	209.983
<b>5</b>	142.842	140.024	137.878	136.323	134.966	134.189	133.992
<b>10</b>	89.459	85.956	83.137	80.898	79.344	78.567	78.184
<b>15</b>	56.005	52.803	50.367	48.418	47.258	46.481	46.087
<b>20</b>	35.983	33.547	31.796	30.438	29.557	29.070	28.780
<b>25</b>	24.314	22.759	21.390	20.520	19.836	19.546	19.453
<b>30</b>	17.597	16.437	15.463	14.883	14.396	14.198	14.198
<b>35</b>	13.421	12.540	11.960	11.472	11.182	11.090	10.892
<b>40</b>	10.788	10.208	9.721	9.338	9.141	9.048	8.944
<b>45</b>	9.141	8.561	8.166	7.969	7.784	7.586	7.586
<b>50</b>	7.784	7.389	7.006	6.809	6.612	6.612	6.612
<b>55</b>	6.705	6.322	6.032	5.835	5.638	5.638	5.440
<b>60</b>	5.638	5.348	5.058	4.860	4.663	4.663	4.663
<b>65</b>	4.663	4.280	4.083	3.886	3.793	3.700	3.700
<b>70</b>	3.503	3.306	3.109	2.923	2.923	2.726	2.726
<b>75</b>	2.529	2.332	2.134	2.134	1.949	1.949	1.949
<b>80</b>	1.462	1.357	1.264	1.172	1.172	1.172	1.172
<b>85</b>	0.684	0.684	0.580	0.580	0.580	0.580	0.580
<b>90</b>	0.394	0.394	0.394	0.394	0.394	0.394	0.394
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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\_A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	100.03	N.A.	9.10
0-30	255.81	N.A.	23.20
0-40	472.93	N.A.	42.90
0-60	881.77	N.A.	79.90
0-80	1074.74	N.A.	97.40
0-90	1100.63	N.A.	99.80
10-90	1079.1	N.A.	97.80
20-40	372.90	N.A.	33.80
20-50	598.05	N.A.	54.20
40-70	533.09	N.A.	48.30
60-80	192.98	N.A.	17.50
70-80	68.73	N.A.	6.20
80-90	25.89	N.A.	2.30
90-110	2.55	N.A.	0.20
90-120	2.55	N.A.	0.20
90-130	2.55	N.A.	0.20
90-150	2.55	N.A.	0.20
90-180	2.55	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	1103.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	21.53
10-20	78.50
20-30	155.77
30-40	217.13
40-50	225.15
50-60	183.69
60-70	124.25
70-80	68.73
80-90	25.89
90-100	2.55
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

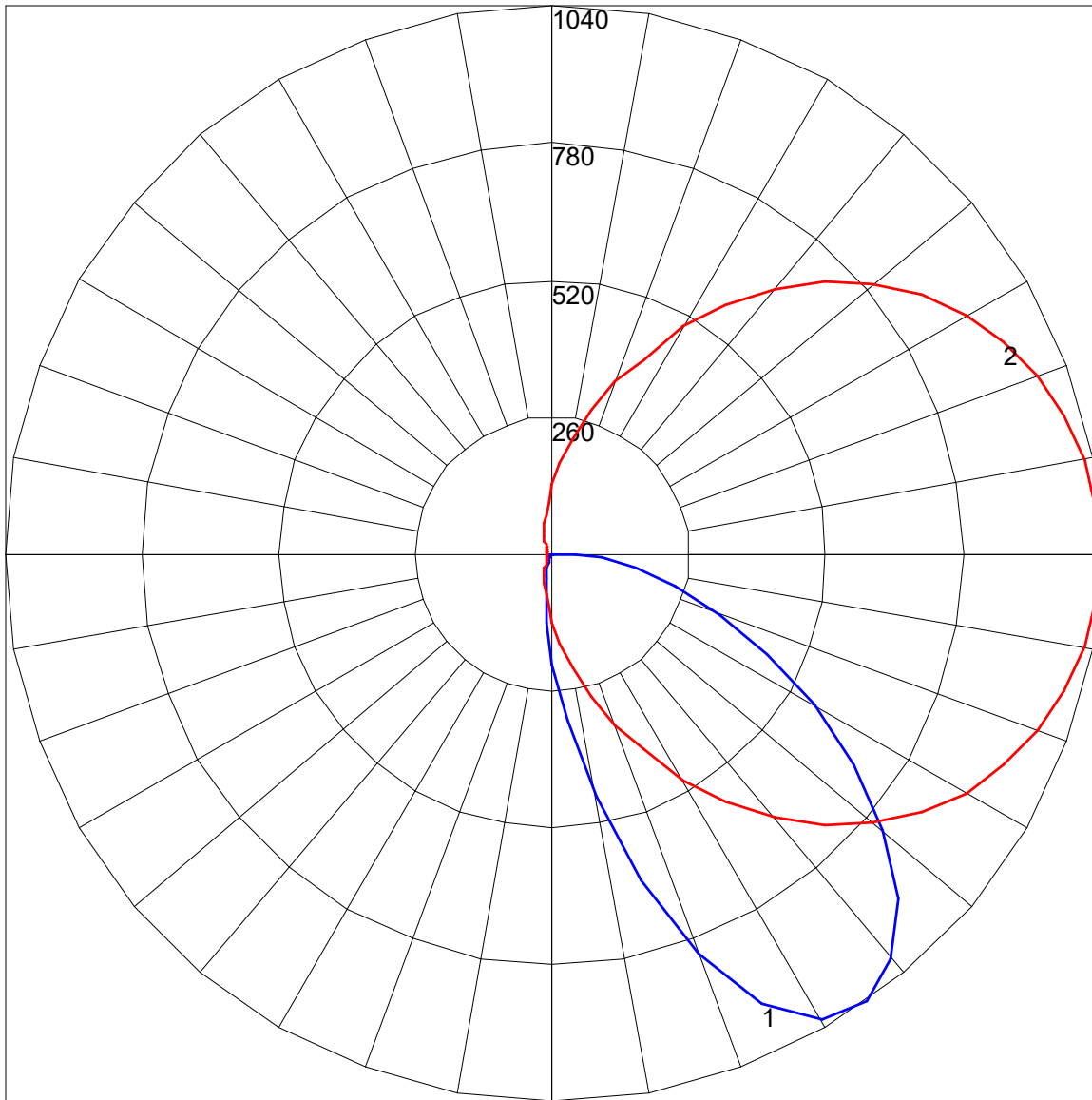
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_SO\_35\_A1\_BL.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	53	41	32	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1040.23 Located At Horizontal Angle = 0, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)