

## IES Report

# ZipTwo® | 707 | Square 3572, Single Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-HA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	103	105	105
Total Lumens, 4' rail length (1219mm)	1478	1524	1555	1555
Lumens per foot (305mm)	369	381	389	389
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\_HA\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (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-HA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] single side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	24	56
55	0	25	40
65	0	26	40
75	0	27	31
85	0	29	22

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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>	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757
<b>5</b>	0.487	0.534	0.534	0.534	0.586	0.586	0.632	0.632	0.632	0.679
<b>10</b>	0.389	0.389	0.389	0.487	0.487	0.487	0.487	0.487	0.534	0.586
<b>15</b>	0.487	0.435	0.487	0.435	0.487	0.487	0.487	0.487	0.487	0.487
<b>20</b>	0.487	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.534
<b>25</b>	0.679	0.679	0.679	0.679	0.632	0.632	0.632	0.632	0.632	0.632
<b>30</b>	0.777	0.777	0.829	0.829	0.829	0.731	0.731	0.731	0.679	0.632
<b>35</b>	0.974	0.974	0.974	0.922	0.922	0.922	0.876	0.829	0.777	0.777
<b>40</b>	1.166	1.166	1.119	1.119	1.119	1.021	1.021	0.974	0.876	0.876
<b>45</b>	1.264	1.264	1.264	1.264	1.218	1.218	1.119	1.067	0.974	0.974
<b>50</b>	1.462	1.462	1.409	1.409	1.409	1.311	1.311	1.218	1.166	1.067
<b>55</b>	1.554	1.554	1.554	1.554	1.508	1.508	1.409	1.311	1.264	1.166
<b>60</b>	1.752	1.699	1.699	1.699	1.607	1.607	1.508	1.462	1.363	1.264
<b>65</b>	1.850	1.850	1.798	1.798	1.752	1.699	1.607	1.554	1.462	1.363
<b>70</b>	1.943	1.943	1.897	1.897	1.850	1.798	1.699	1.653	1.554	1.462
<b>75</b>	2.042	2.042	1.995	1.995	1.943	1.897	1.798	1.699	1.653	1.508
<b>80</b>	2.140	2.140	2.088	2.088	1.995	1.995	1.897	1.798	1.699	1.554
<b>85</b>	2.239	2.239	2.187	2.140	2.088	1.995	1.943	1.850	1.752	1.653
<b>90</b>	2.239	2.239	2.239	2.187	2.187	2.088	1.995	1.897	1.798	1.653
<b>95</b>	2.332	2.332	2.332	2.285	2.239	2.187	2.088	1.995	1.850	1.752
<b>100</b>	2.430	2.384	2.332	2.332	2.285	2.239	2.140	1.995	1.897	1.752
<b>105</b>	2.430	2.430	2.430	2.430	2.332	2.285	2.187	2.088	1.995	1.850
<b>110</b>	2.529	2.482	2.430	2.430	2.384	2.332	2.239	2.140	1.995	1.897
<b>115</b>	2.529	2.529	2.482	2.430	2.430	2.332	2.239	2.187	2.088	1.897
<b>120</b>	2.529	2.529	2.482	2.430	2.430	2.332	2.285	2.187	2.088	1.943
<b>125</b>	2.529	2.529	2.482	2.430	2.430	2.332	2.239	2.140	2.042	1.943
<b>130</b>	2.430	2.482	2.430	2.430	2.332	2.332	2.239	2.187	2.042	1.943
<b>135</b>	2.430	2.384	2.384	2.332	2.332	2.239	2.140	2.088	2.042	1.995
<b>140</b>	2.332	2.332	2.285	2.285	2.239	2.088	2.140	2.088	2.042	1.995
<b>145</b>	2.239	2.239	2.239	2.187	1.995	2.042	2.140	2.140	2.140	2.088
<b>150</b>	2.140	2.140	2.140	1.943	1.943	2.042	2.088	2.239	2.239	2.187
<b>155</b>	2.042	1.943	1.897	1.798	1.897	1.995	2.239	2.239	2.239	2.187
<b>160</b>	1.850	1.850	1.607	1.699	1.897	2.187	2.239	2.239	2.187	2.285
<b>165</b>	1.850	1.607	1.554	1.752	2.239	2.384	2.482	2.627	2.627	2.720
<b>170</b>	2.332	2.042	2.088	2.529	2.674	2.772	2.819	2.819	2.819	2.819
<b>175</b>	1.752	2.042	2.430	2.627	2.720	2.819	2.819	2.871	2.917	2.871
<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>	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757
<b>5</b>	0.679	0.731	0.777	0.876	1.119	1.607	2.529	3.938	5.788	8.219
<b>10</b>	0.586	0.586	0.632	0.632	0.731	0.731	0.922	1.995	5.446	11.084
<b>15</b>	0.534	0.534	0.586	0.632	0.632	0.731	0.731	1.166	5.203	14.053
<b>20</b>	0.534	0.534	0.534	0.586	0.632	0.632	0.731	0.876	4.814	16.971
<b>25</b>	0.534	0.534	0.534	0.534	0.586	0.632	0.731	0.829	4.860	19.645
<b>30</b>	0.632	0.632	0.586	0.534	0.534	0.632	0.679	0.829	4.617	22.266
<b>35</b>	0.679	0.679	0.632	0.586	0.586	0.632	0.679	0.829	3.793	24.551
<b>40</b>	0.777	0.731	0.679	0.632	0.586	0.534	0.632	0.777	3.503	27.324
<b>45</b>	0.876	0.777	0.777	0.679	0.632	0.586	0.632	0.777	3.207	29.267
<b>50</b>	0.974	0.876	0.777	0.679	0.679	0.586	0.586	0.731	2.871	30.972
<b>55</b>	1.067	0.974	0.876	0.777	0.679	0.586	0.586	0.679	2.674	32.283
<b>60</b>	1.166	1.021	0.922	0.829	0.731	0.679	0.586	0.632	2.384	36.656

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**CANDELA TABULATION - (Cont.)**

65	1.264	1.119	0.974	0.876	0.777	0.679	0.586	0.586	2.964	40.206
70	1.264	1.166	1.021	0.922	0.777	0.679	0.586	0.534	2.720	39.869
75	1.363	1.218	1.067	0.922	0.829	0.731	0.586	0.534	2.430	40.206
80	1.462	1.264	1.119	0.974	0.829	0.731	0.632	0.534	2.187	40.206
85	1.462	1.311	1.166	1.021	0.876	0.731	0.679	0.586	1.798	39.718
90	1.508	1.363	1.218	1.021	0.922	0.777	0.679	0.586	1.462	40.304
95	1.554	1.409	1.218	1.067	0.922	0.829	0.679	0.586	1.363	39.527
100	1.607	1.462	1.311	1.119	0.974	0.829	0.731	0.586	1.264	38.506
105	1.653	1.508	1.363	1.218	1.021	0.876	0.777	0.679	1.653	37.143
110	1.752	1.554	1.409	1.218	1.067	0.974	0.829	0.731	1.554	27.277
115	1.798	1.607	1.462	1.311	1.166	1.021	0.922	0.922	1.554	24.308
120	1.798	1.653	1.508	1.363	1.218	1.067	0.974	1.119	1.554	20.857
125	1.798	1.699	1.554	1.409	1.264	1.166	1.067	1.218	1.607	17.307
130	1.798	1.699	1.607	1.508	1.311	1.264	1.264	1.363	1.653	13.856
135	1.897	1.798	1.699	1.508	1.409	1.409	1.462	1.462	1.699	11.525
140	1.943	1.850	1.699	1.607	1.554	1.607	1.554	1.607	1.752	9.872
145	2.042	1.943	1.850	1.699	1.798	1.850	1.699	1.699	1.850	7.975
150	2.088	2.042	1.943	2.042	2.088	2.042	1.897	1.897	2.140	7.047
155	2.088	2.088	2.239	2.332	2.239	2.140	2.088	2.140	2.285	6.368
160	2.430	2.482	2.529	2.430	2.332	2.285	2.285	2.332	2.384	5.301
165	2.674	2.674	2.575	2.482	2.430	2.430	2.430	2.482	2.482	4.280
170	2.772	2.674	2.627	2.627	2.674	2.674	2.674	2.720	2.674	3.596
175	2.871	2.819	2.871	2.871	2.917	2.917	2.917	2.917	2.917	3.207
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**

	<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	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757	6.757
5	10.695	13.369	15.996	18.525	21.054	23.339	25.572	27.666	29.609	31.308
10	16.919	22.997	29.023	34.812	40.745	46.139	51.289	56.301	60.917	65.146
15	23.241	32.770	42.346	51.487	61.062	69.815	78.225	86.490	94.175	100.978
20	29.267	42.346	55.471	68.214	81.676	93.977	105.937	117.607	128.545	138.365
25	35.102	51.487	68.214	84.593	101.807	117.850	133.458	149.257	163.212	176.239
30	42.734	60.482	80.753	100.688	121.986	141.769	161.072	180.809	195.106	213.724
35	47.792	69.525	92.620	116.000	141.236	164.668	187.665	209.838	230.788	250.867
40	51.342	77.447	103.559	130.396	159.274	186.354	212.071	238.571	262.879	286.213
45	55.668	84.547	113.622	144.542	174.928	199.433	234.239	264.967	292.488	318.739
50	59.560	89.946	123.685	156.356	189.759	222.041	254.904	288.741	318.693	347.861
55	62.715	95.097	130.198	166.419	198.749	238.229	274.549	308.676	341.249	372.511
60	65.296	99.424	136.468	173.565	209.687	250.624	287.918	325.061	359.432	393.565
65	66.172	102.683	141.189	179.933	220.968	260.153	298.804	337.554	374.309	407.467
70	67.628	105.061	144.785	184.602	226.757	267.107	306.634	347.571	383.792	417.774
75	68.359	107.689	146.972	187.473	230.306	271.144	311.205	351.364	388.165	423.267
80	69.670	108.274	147.848	188.738	230.544	272.797	312.904	352.965	389.627	424.583
85	69.327	108.031	147.604	189.706	230.063	270.802	311.883	351.608	387.776	422.246
90	68.747	107.056	147.558	187.955	227.824	267.983	307.214	347.374	382.771	416.655
95	67.582	104.139	143.956	184.701	223.839	263.216	302.696	340.570	375.231	408.001
100	65.975	101.662	140.505	179.156	219.559	257.677	294.918	331.574	365.023	396.871
105	63.933	98.693	136.132	173.565	206.289	249.313	285.145	320.491	353.649	383.258
110	60.239	94.998	131.028	166.907	201.573	239.441	273.719	308.334	338.917	367.210
115	56.591	90.816	125.094	159.077	195.251	227.923	260.397	292.337	322.144	348.882
120	52.217	85.956	118.047	150.179	184.312	214.890	245.375	275.419	302.551	328.315
125	46.481	76.624	106.476	137.100	168.803	198.314	228.845	256.754	282.083	305.904
130	44.387	66.120	94.807	122.131	149.791	177.260	205.169	233.902	259.521	281.839
135	32.283	55.326	81.919	106.523	130.976	155.283	180.229	204.438	228.700	253.495

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	25.769	50.808	68.017	90.573	114.109	134.624	155.527	176.871	196.707	217.952
<b>145</b>	20.613	38.651	56.881	74.675	96.315	117.363	133.504	149.692	166.663	182.074
<b>150</b>	16.971	31.308	47.548	62.425	78.277	96.506	114.202	127.670	138.852	151.154
<b>155</b>	14.245	25.474	38.118	51.144	64.566	75.696	89.552	105.015	115.031	123.244
<b>160</b>	11.617	20.323	29.655	39.283	49.399	59.363	68.747	77.888	87.661	94.708
<b>165</b>	8.851	14.923	21.831	28.443	36.024	42.636	49.056	55.280	61.306	68.260
<b>170</b>	6.177	10.017	14.245	18.717	23.096	26.935	30.972	35.102	38.309	41.134
<b>175</b>	3.938	5.348	7.291	9.286	11.472	13.613	15.411	17.116	18.525	19.790
<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>	6.757	6.757	6.757	6.757	6.757	6.757	6.757
<b>5</b>	32.816	34.127	35.200	36.076	36.708	37.045	37.143
<b>10</b>	68.846	71.955	74.582	76.717	78.225	79.100	79.344
<b>15</b>	107.254	112.503	116.974	120.570	123.053	124.561	125.141
<b>20</b>	147.459	155.138	161.658	166.808	170.456	172.741	173.565
<b>25</b>	188.251	197.873	206.289	213.237	218.196	221.258	222.378
<b>30</b>	228.456	241.680	252.718	261.273	267.496	271.533	272.745
<b>35</b>	269.149	284.612	297.882	308.142	315.775	320.636	322.144
<b>40</b>	307.267	325.206	341.005	353.597	362.448	367.894	369.791
<b>45</b>	342.710	363.080	381.019	395.218	405.084	411.208	413.447
<b>50</b>	374.361	396.819	416.510	432.216	443.248	450.057	452.441
<b>55</b>	400.855	425.262	445.974	463.478	475.484	482.972	485.205
<b>60</b>	422.489	448.160	469.939	487.931	500.476	508.590	511.073
<b>65</b>	437.755	465.276	487.734	506.015	519.193	527.603	530.230
<b>70</b>	448.601	475.774	499.890	518.027	531.199	539.707	542.381
<b>75</b>	455.114	482.195	505.673	523.763	536.987	545.444	547.926
<b>80</b>	456.280	483.163	506.259	524.198	537.619	545.641	548.216
<b>85</b>	453.461	479.956	502.611	520.649	533.339	541.215	543.936
<b>90</b>	447.186	473.002	495.366	512.871	525.173	532.753	535.282
<b>95</b>	437.656	462.794	483.946	501.543	513.602	521.037	523.421
<b>100</b>	425.453	449.668	470.038	486.765	498.626	505.870	508.155
<b>105</b>	410.628	433.869	453.508	469.551	480.785	488.029	490.262
<b>110</b>	392.735	414.909	434.594	449.326	460.265	467.120	469.162
<b>115</b>	373.677	394.487	412.624	426.625	436.833	443.248	445.341
<b>120</b>	351.555	371.200	388.119	401.000	410.872	416.655	418.505
<b>125</b>	327.491	345.628	361.375	373.729	382.527	387.921	389.719
<b>130</b>	301.385	318.008	332.352	343.731	351.654	356.567	358.312
<b>135</b>	273.621	288.596	301.432	311.692	318.936	323.309	324.672
<b>140</b>	240.172	257.624	268.905	278.000	284.658	288.550	289.959
<b>145</b>	201.718	220.093	235.265	243.333	248.826	252.474	253.593
<b>150</b>	165.109	180.078	195.443	207.454	212.268	215.232	216.352
<b>155</b>	130.639	141.282	153.926	168.507	175.415	178.037	178.820
<b>160</b>	100.589	105.305	113.866	123.685	136.665	139.241	139.925
<b>165</b>	72.442	75.116	76.525	81.774	89.651	98.600	99.081
<b>170</b>	44.051	45.849	46.238	46.238	49.932	58.974	63.104
<b>175</b>	20.665	21.100	21.245	20.080	18.717	19.012	25.862
<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\_HA\_WH.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	13.34	N.A.	0.90
0-30	45.47	N.A.	2.90
0-40	106.88	N.A.	6.90
0-60	331.17	N.A.	21.30
0-80	659.17	N.A.	42.40
0-90	836.46	N.A.	53.80
10-90	834.80	N.A.	53.70
20-40	93.54	N.A.	6.00
20-50	189.01	N.A.	12.20
40-70	380.01	N.A.	24.40
60-80	328.00	N.A.	21.10
70-80	172.28	N.A.	11.10
80-90	177.29	N.A.	11.40
90-110	327.61	N.A.	21.10
90-120	461.07	N.A.	29.60
90-130	566.45	N.A.	36.40
90-150	686.79	N.A.	44.20
90-180	719.03	N.A.	46.20
110-180	391.42	N.A.	25.20
0-180	1555.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.65
10-20	11.68
20-30	32.13
30-40	61.41
40-50	95.47
50-60	128.82
60-70	155.73
70-80	172.28
80-90	177.29
90-100	171.46
100-110	156.15
110-120	133.46
120-130	105.38
130-140	74.51
140-150	45.83
150-160	23.19
160-170	8.02
170-180	1.03

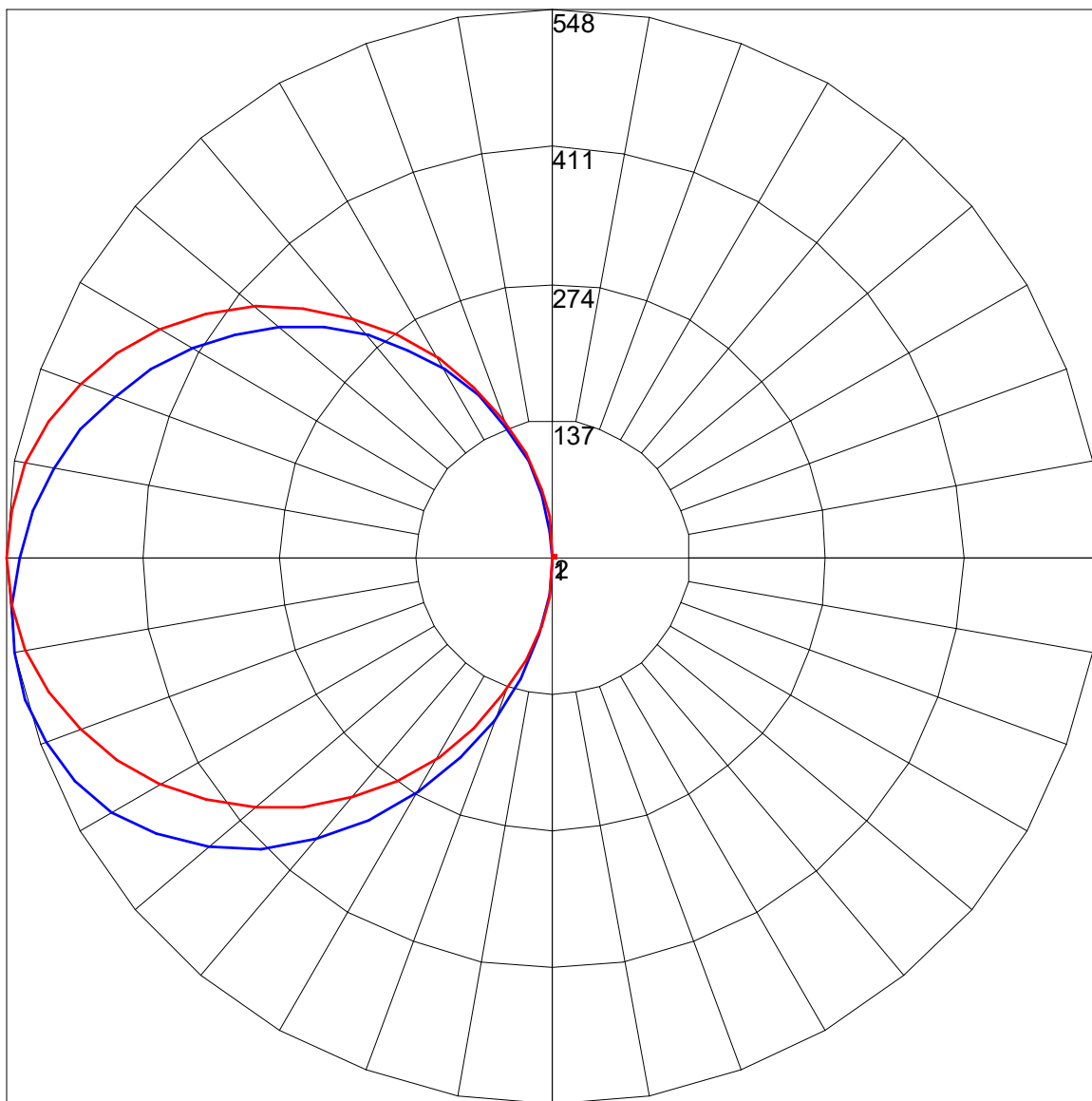
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_35\_HA\_WH.IES**

**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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	69	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	40	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	28	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 548.216 Located At Horizontal Angle = 180, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)