

**IES Report**

DoubleRace™ | 107 | 120° Batwing, Flat, up | 120° FlyWing™, Flat, down | 80 CRI | SO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	124	127	130	130
Total Lumens, 4' rail length (1219mm)	5887	6073	6197	6197
Lumens per foot (305mm)	1472	1518	1549	1549
Lumens per foot UP (305mm)	731	754	769	769
Lumens per foot DOWN (305mm)	741	764	780	780
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
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\_107\_DR\_SO\_35\_G1G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911515 / L121911516 (SOURCE REPORTS FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 12/23/2019  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DR-48-Z-SO-35-G1G2-AL  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, 120° batwing lens up /  
[MORE] 120° flywing lens down, standard output, clear anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6197
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	47.84
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	Rectangular w/Sides
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15322	17135	31967
55	10890	12945	30299
65	6371	8261	27339
75	1924	3592	20445
85	89	177	7174

**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>	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399
<b>5</b>	969.342	969.586	969.250	968.960	968.275	967.452	966.570	965.607	964.389	963.078
<b>10</b>	1001.045	1001.045	999.584	997.496	994.236	990.489	986.023	980.966	975.525	970.073
<b>15</b>	1045.775	1045.137	1042.422	1037.701	1030.892	1022.679	1013.005	1002.600	990.930	978.878
<b>20</b>	1087.581	1086.363	1082.280	1075.726	1065.808	1053.895	1039.650	1022.876	1004.734	985.780
<b>25</b>	1110.723	1109.702	1105.236	1097.499	1086.468	1072.223	1054.811	1034.256	1010.720	985.049
<b>30</b>	1107.127	1105.666	1101.582	1094.054	1083.359	1069.010	1050.635	1028.514	1002.356	972.892
<b>35</b>	1073.974	1073.139	1069.497	1063.326	1053.500	1040.764	1023.456	1002.066	975.757	944.982
<b>40</b>	1013.098	1012.668	1009.989	1005.175	997.878	987.241	972.648	953.102	927.977	897.979
<b>45</b>	928.510	927.780	926.074	923.163	917.862	909.788	898.269	881.983	860.105	832.393
<b>50</b>	821.350	821.060	820.480	818.774	816.489	811.234	802.975	790.482	772.688	748.815
<b>55</b>	697.670	697.763	698.158	698.158	697.566	695.234	690.420	681.674	668.253	649.055
<b>60</b>	561.637	561.881	563.145	564.410	565.720	565.860	564.259	559.306	550.304	536.013
<b>65</b>	417.820	418.261	420.013	422.681	425.801	428.086	429.107	427.936	423.319	414.514
<b>70</b>	271.486	272.020	274.885	278.968	284.119	289.084	293.016	295.406	295.011	291.322
<b>75</b>	125.245	126.069	129.711	135.650	143.666	152.470	160.834	168.165	172.979	174.882
<b>80</b>	24.499	24.650	25.822	27.805	31.216	36.076	42.932	51.829	61.642	70.644
<b>85</b>	5.545	5.545	5.591	5.742	5.928	6.078	6.322	6.763	7.192	8.074
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	72.442	72.442	72.291	72.048	71.514	70.690	69.426	67.872	65.784	62.280
<b>100</b>	179.893	179.939	180.276	180.473	180.322	179.058	176.390	171.958	164.766	154.895
<b>105</b>	302.888	302.748	302.690	302.458	301.380	299.152	294.965	287.425	276.393	260.930
<b>110</b>	435.325	435.278	434.988	434.107	431.775	428.086	421.370	410.721	394.922	373.381
<b>115</b>	568.934	568.829	567.565	565.628	561.730	555.072	545.200	530.468	510.006	483.360
<b>120</b>	696.209	695.385	693.436	689.690	683.866	674.238	660.817	642.141	617.062	584.675
<b>125</b>	809.680	808.613	805.597	800.110	791.839	779.300	762.909	740.648	710.987	672.974
<b>130</b>	904.000	902.840	898.896	892.330	882.226	867.390	847.600	820.920	786.596	744.198
<b>135</b>	978.390	976.732	972.068	963.705	951.014	933.324	909.544	878.387	840.026	795.006
<b>140</b>	1025.544	1023.456	1016.995	1006.729	991.812	970.897	944.159	910.902	871.380	826.210
<b>145</b>	1040.520	1037.898	1030.950	1019.466	1003.330	981.453	953.694	921.121	882.946	839.341
<b>150</b>	1025.939	1023.746	1016.798	1005.082	988.935	967.591	941.874	911.145	875.858	837.590
<b>155</b>	985.292	983.494	976.836	966.187	951.548	932.594	909.881	883.433	854.166	822.278
<b>160</b>	922.966	921.260	915.820	907.166	895.253	879.988	862.240	842.798	821.257	799.136
<b>165</b>	849.352	848.146	844.840	839.538	832.091	822.765	812.162	800.052	787.315	773.952
<b>170</b>	785.958	785.424	783.916	781.098	777.699	773.511	768.500	763.106	757.422	751.193
<b>175</b>	743.757	743.514	743.026	742.446	741.762	740.602	739.430	738.073	736.658	735.254
<b>180</b>	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

**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>	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399
<b>5</b>	961.617	960.445	959.134	958.021	956.896	956.316	955.921	955.341	954.668	955.341
<b>10</b>	964.285	958.647	953.938	949.657	945.226	941.827	939.983	938.672	937.257	938.672
<b>15</b>	966.570	954.900	943.289	933.023	924.566	917.711	912.410	909.544	908.187	909.544
<b>20</b>	965.503	945.574	926.852	909.498	895.346	883.874	875.417	870.452	868.701	870.452
<b>25</b>	958.067	930.065	903.756	878.920	858.493	841.963	830.154	823.252	820.862	823.252
<b>30</b>	940.319	905.948	872.796	841.093	814.981	793.927	779.149	770.402	766.992	770.402
<b>35</b>	909.011	871.334	832.578	795.725	765.786	740.985	723.295	713.075	709.723	713.075
<b>40</b>	861.613	822.521	781.921	742.493	710.013	683.669	664.808	654.205	650.319	654.205
<b>45</b>	798.498	759.800	718.423	680.502	647.489	621.528	603.444	593.236	590.022	593.236
<b>50</b>	717.947	682.741	645.308	608.942	579.629	556.092	539.806	530.619	527.510	530.619
<b>55</b>	623.094	592.899	560.999	530.085	505.041	485.112	471.842	464.499	461.866	464.499
<b>60</b>	516.328	492.838	467.851	443.596	424.096	409.120	399.156	393.808	392.150	393.808

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**CANDELA TABULATION - (Cont.)**

65	401.488	385.004	368.138	351.561	338.279	328.025	321.274	317.422	316.216	317.422
70	284.757	275.662	266.034	256.557	248.774	242.707	238.612	236.385	235.608	236.385
75	174.197	171.529	167.980	164.082	160.637	157.714	155.776	154.512	154.118	154.512
80	77.210	80.759	82.116	82.267	81.826	81.049	80.411	79.878	79.541	79.878
85	9.582	12.354	16.089	20.416	23.049	24.024	24.116	23.873	23.536	23.873
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	56.933	50.808	44.822	39.579	36.122	34.034	33.014	32.480	31.216	32.480
100	142.355	128.795	115.617	104.388	96.558	91.454	88.102	85.573	83.822	85.573
105	241.384	219.901	198.464	179.498	165.741	156.113	149.652	145.220	143.225	145.220
110	346.701	316.158	285.731	258.112	237.498	222.569	212.848	206.631	204.392	206.631
115	448.595	410.292	371.246	335.124	307.748	287.773	274.688	266.870	264.097	266.870
120	543.506	497.698	450.637	407.230	374.599	349.810	333.372	323.698	320.392	323.698
125	625.855	574.525	522.209	473.442	435.719	406.638	387.579	376.350	372.801	376.350
130	692.520	637.524	582.935	531.303	490.599	459.047	437.703	425.407	421.324	425.407
135	742.539	687.114	631.887	580.650	539.365	506.897	484.915	472.027	467.608	472.027
140	775.216	722.610	670.294	621.284	581.960	551.035	529.401	516.618	512.140	516.618
145	792.814	745.172	698.007	654.344	619.486	590.858	571.022	559.016	554.921	559.016
150	797.094	756.111	717.019	681.036	651.189	627.119	609.568	598.978	595.382	598.978
155	789.798	758.396	728.492	700.686	677.788	658.671	644.821	636.074	633.198	636.074
160	776.191	755.032	733.793	714.340	698.297	685.119	675.108	668.740	666.652	668.740
165	760.194	747.458	734.906	723.341	713.760	705.593	699.515	695.675	694.457	695.675
170	745.068	738.990	733.596	728.004	723.828	719.745	717.216	715.558	715.070	715.558
175	733.688	732.238	730.823	729.756	728.782	728.004	727.517	727.134	727.134	727.134
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

**Vert. Horizontal 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>	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399
<b>5</b>	955.921	956.316	956.896	958.021	959.134	960.445	961.617	963.078	964.389	965.607
<b>10</b>	939.983	941.827	945.226	949.657	953.938	958.647	964.285	970.073	975.525	980.966
<b>15</b>	912.410	917.711	924.566	933.023	943.289	954.900	966.570	978.878	990.930	1002.600
<b>20</b>	875.417	883.874	895.346	909.498	926.852	945.574	965.503	985.780	1004.734	1022.876
<b>25</b>	830.154	841.963	858.493	878.920	903.756	930.065	958.067	985.049	1010.720	1034.256
<b>30</b>	779.149	793.927	814.981	841.093	872.796	905.948	940.319	972.892	1002.356	1028.514
<b>35</b>	723.295	740.985	765.786	795.725	832.578	871.334	909.011	944.982	975.757	1002.066
<b>40</b>	664.808	683.669	710.013	742.493	781.921	822.521	861.613	897.979	927.977	953.102
<b>45</b>	603.444	621.528	647.489	680.502	718.423	759.800	798.498	832.393	860.105	881.983
<b>50</b>	539.806	556.092	579.629	608.942	645.308	682.741	717.947	748.815	772.688	790.482
<b>55</b>	471.842	485.112	505.041	530.085	560.999	592.899	623.094	649.055	668.253	681.674
<b>60</b>	399.156	409.120	424.096	443.596	467.851	492.838	516.328	536.013	550.304	559.306
<b>65</b>	321.274	328.025	338.279	351.561	368.138	385.004	401.488	414.514	423.319	427.936
<b>70</b>	238.612	242.707	248.774	256.557	266.034	275.662	284.757	291.322	295.011	295.406
<b>75</b>	155.776	157.714	160.637	164.082	167.980	171.529	174.197	174.882	172.979	168.165
<b>80</b>	80.411	81.049	81.826	82.267	82.116	80.759	77.210	70.644	61.642	51.829
<b>85</b>	24.116	24.024	23.049	20.416	16.089	12.354	9.582	8.074	7.192	6.763
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	33.014	34.034	36.122	39.579	44.822	50.808	56.933	62.280	65.784	67.872
<b>100</b>	88.102	91.454	96.558	104.388	115.617	128.795	142.355	154.895	164.766	171.958
<b>105</b>	149.652	156.113	165.741	179.498	198.464	219.901	241.384	260.930	276.393	287.425
<b>110</b>	212.848	222.569	237.498	258.112	285.731	316.158	346.701	373.381	394.922	410.721
<b>115</b>	274.688	287.773	307.748	335.124	371.246	410.292	448.595	483.360	510.006	530.468
<b>120</b>	333.372	349.810	374.599	407.230	450.637	497.698	543.506	584.675	617.062	642.141
<b>125</b>	387.579	406.638	435.719	473.442	522.209	574.525	625.855	672.974	710.987	740.648
<b>130</b>	437.703	459.047	490.599	531.303	582.935	637.524	692.520	744.198	786.596	820.920
<b>135</b>	484.915	506.897	539.365	580.650	631.887	687.114	742.539	795.006	840.026	878.387

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	529.401	551.035	581.960	621.284	670.294	722.610	775.216	826.210	871.380	910.902
<b>145</b>	571.022	590.858	619.486	654.344	698.007	745.172	792.814	839.341	882.946	921.121
<b>150</b>	609.568	627.119	651.189	681.036	717.019	756.111	797.094	837.590	875.858	911.145
<b>155</b>	644.821	658.671	677.788	700.686	728.492	758.396	789.798	822.278	854.166	883.433
<b>160</b>	675.108	685.119	698.297	714.340	733.793	755.032	776.191	799.136	821.257	842.798
<b>165</b>	699.515	705.593	713.760	723.341	734.906	747.458	760.194	773.952	787.315	800.052
<b>170</b>	717.216	719.745	723.828	728.004	733.596	738.990	745.068	751.193	757.422	763.106
<b>175</b>	727.517	728.004	728.782	729.756	730.823	732.238	733.688	735.254	736.658	738.073
<b>180</b>	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

**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>	960.399	960.399	960.399	960.399	960.399	960.399	960.399
<b>5</b>	966.570	967.452	968.275	968.960	969.250	969.586	969.342
<b>10</b>	986.023	990.489	994.236	997.496	999.584	1001.045	1001.045
<b>15</b>	1013.005	1022.679	1030.892	1037.701	1042.422	1045.137	1045.775
<b>20</b>	1039.650	1053.895	1065.808	1075.726	1082.280	1086.363	1087.581
<b>25</b>	1054.811	1072.223	1086.468	1097.499	1105.236	1109.702	1110.723
<b>30</b>	1050.635	1069.010	1083.359	1094.054	1101.582	1105.666	1107.127
<b>35</b>	1023.456	1040.764	1053.500	1063.326	1069.497	1073.139	1073.974
<b>40</b>	972.648	987.241	997.878	1005.175	1009.989	1012.668	1013.098
<b>45</b>	898.269	909.788	917.862	923.163	926.074	927.780	928.510
<b>50</b>	802.975	811.234	816.489	818.774	820.480	821.060	821.350
<b>55</b>	690.420	695.234	697.566	698.158	698.158	697.763	697.670
<b>60</b>	564.259	565.860	565.720	564.410	563.145	561.881	561.637
<b>65</b>	429.107	428.086	425.801	422.681	420.013	418.261	417.820
<b>70</b>	293.016	289.084	284.119	278.968	274.885	272.020	271.486
<b>75</b>	160.834	152.470	143.666	135.650	129.711	126.069	125.245
<b>80</b>	42.932	36.076	31.216	27.805	25.822	24.650	24.499
<b>85</b>	6.322	6.078	5.928	5.742	5.591	5.545	5.545
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	69.426	70.690	71.514	72.048	72.291	72.442	72.442
<b>100</b>	176.390	179.058	180.322	180.473	180.276	179.939	179.893
<b>105</b>	294.965	299.152	301.380	302.458	302.690	302.748	302.888
<b>110</b>	421.370	428.086	431.775	434.107	434.988	435.278	435.325
<b>115</b>	545.200	555.072	561.730	565.628	567.565	568.829	568.934
<b>120</b>	660.817	674.238	683.866	689.690	693.436	695.385	696.209
<b>125</b>	762.909	779.300	791.839	800.110	805.597	808.613	809.680
<b>130</b>	847.600	867.390	882.226	892.330	898.896	902.840	904.000
<b>135</b>	909.544	933.324	951.014	963.705	972.068	976.732	978.390
<b>140</b>	944.159	970.897	991.812	1006.729	1016.995	1023.456	1025.544
<b>145</b>	953.694	981.453	1003.330	1019.466	1030.950	1037.898	1040.520
<b>150</b>	941.874	967.591	988.935	1005.082	1016.798	1023.746	1025.939
<b>155</b>	909.881	932.594	951.548	966.187	976.836	983.494	985.292
<b>160</b>	862.240	879.988	895.253	907.166	915.820	921.260	922.966
<b>165</b>	812.162	822.765	832.091	839.538	844.840	848.146	849.352
<b>170</b>	768.500	773.511	777.699	781.098	783.916	785.424	785.958
<b>175</b>	739.430	740.602	741.762	742.446	743.026	743.514	743.757
<b>180</b>	730.533	730.533	730.533	730.533	730.533	730.533	730.533

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_SO\_35\_G1G2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	369.15	N.A.	6.00
0-30	818.37	N.A.	13.20
0-40	1390.37	N.A.	22.40
0-60	2543.78	N.A.	41.00
0-80	3096.66	N.A.	50.00
0-90	3119.65	N.A.	50.30
10-90	3027.52	N.A.	48.90
20-40	1021.22	N.A.	16.50
20-50	1630.6	N.A.	26.30
40-70	1536.97	N.A.	24.80
60-80	552.89	N.A.	8.90
70-80	169.32	N.A.	2.70
80-90	22.98	N.A.	0.40
90-110	323.09	N.A.	5.20
90-120	762.07	N.A.	12.30
90-130	1319.55	N.A.	21.30
90-150	2410.24	N.A.	38.90
90-180	3077.27	N.A.	49.70
110-180	2754.18	N.A.	44.40
0-180	6196.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.12
10-20	277.03
20-30	449.22
30-40	572.00
40-50	609.38
50-60	544.02
60-70	383.57
70-80	169.32
80-90	22.98
90-100	68.96
100-110	254.13
110-120	438.98
120-130	557.48
130-140	580.44
140-150	510.26
150-160	376.57
160-170	219.78
170-180	70.68

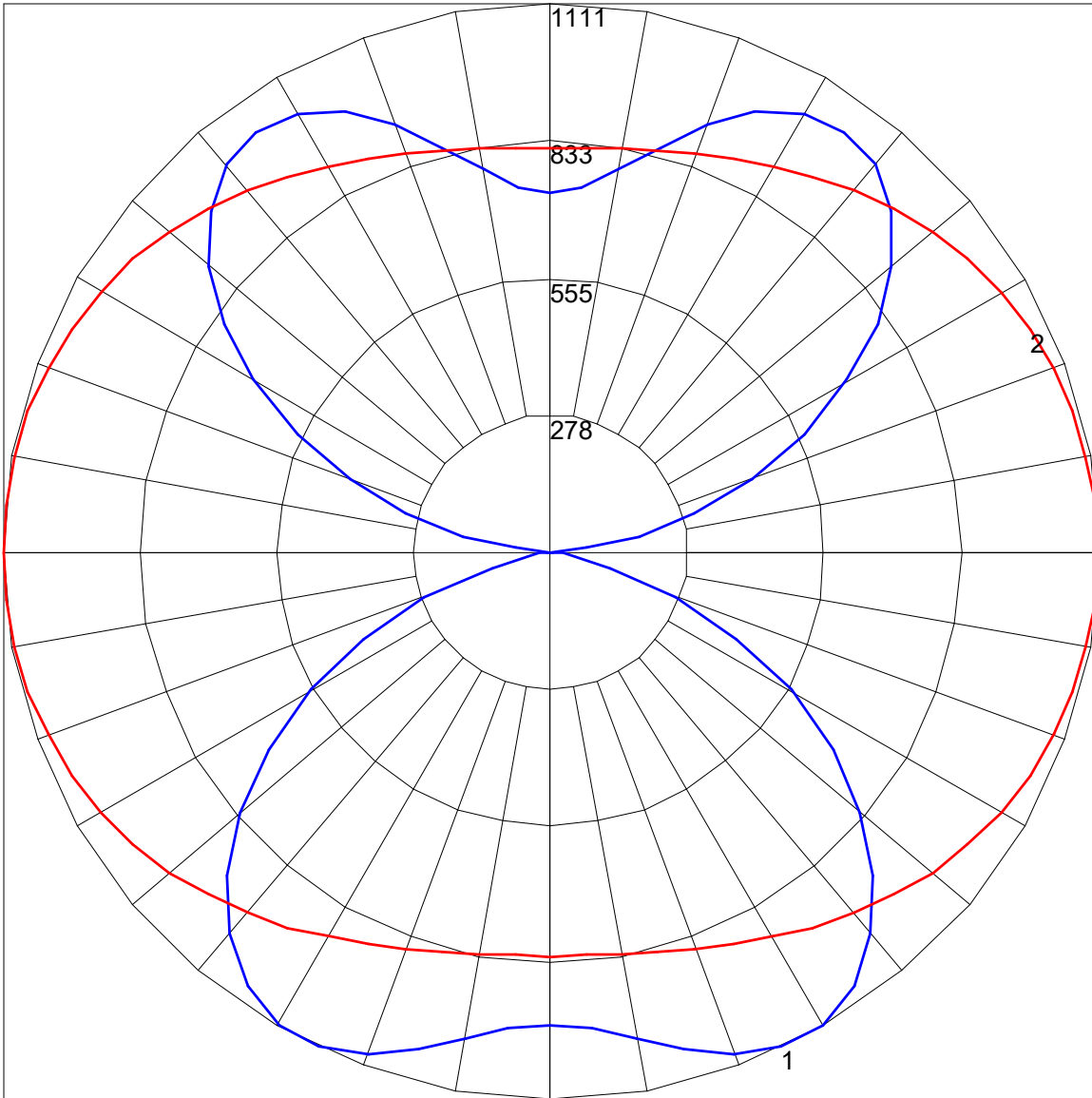
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_SO\_35\_G1G2.IES**

**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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	66	60	55	57	52	48	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	30	26	31	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

POLAR GRAPH



Maximum Candela = 1110.723 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.)