

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 85° Asymmetric, down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	83	84
Total Lumens, 4' rail length (1219mm)	7716	7960	8123	8204
Lumens per foot (305mm)	1929	1990	2031	2051
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	713	735	750	758
Input Power (W), 4' rail length (1219mm)	98.1	98.1	98.1	98.1
Watts per foot (305mm)	24.6	24.6	24.6	24.6
CRI	94	94	94	94

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\_DB\_HO\_359\_G1A1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911511 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-359-G1A1-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] 85° asymmetric lens down, high 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	8123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	98.12
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	0.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21270	22034	30664
55	13319	13660	23761
65	6632	7436	18500
75	1756	2975	13454
85	8	17	6301

**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>	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
<b>5</b>	1609.224	1606.032	1604.436	1599.990	1594.727	1588.362	1579.926	1572.269	1560.014	1547.740
<b>10</b>	1872.963	1868.992	1864.850	1855.597	1844.292	1828.218	1809.256	1788.394	1761.965	1733.921
<b>15</b>	2037.959	2034.311	2029.200	2018.066	2002.296	1983.809	1959.926	1932.053	1897.644	1859.112
<b>20</b>	2102.635	2101.837	2094.978	2084.148	2068.549	2047.839	2023.158	1991.618	1954.036	1911.039
<b>25</b>	2083.825	2081.279	2074.762	2064.559	2048.789	2028.725	2002.296	1969.806	1929.184	1884.743
<b>30</b>	2004.196	2001.650	1995.114	1983.980	1966.937	1944.631	1916.454	1882.045	1838.402	1789.344
<b>35</b>	1878.701	1875.832	1868.669	1856.243	1836.806	1811.650	1779.635	1739.184	1692.045	1638.693
<b>40</b>	1710.190	1707.815	1699.835	1685.984	1664.647	1637.097	1600.294	1554.903	1504.097	1446.451
<b>45</b>	1503.793	1500.753	1493.761	1480.062	1458.079	1428.781	1390.705	1343.566	1290.537	1230.649
<b>50</b>	1264.887	1262.816	1257.078	1244.975	1226.507	1196.563	1160.254	1116.459	1065.957	1012.928
<b>55</b>	1009.109	1007.513	1003.219	994.935	980.115	957.030	926.459	887.908	844.740	799.995
<b>60</b>	753.331	752.856	751.412	746.966	737.561	722.266	700.606	672.581	640.566	608.076
<b>65</b>	520.809	521.113	521.911	521.588	518.244	511.252	499.453	482.733	462.821	442.434
<b>70</b>	313.120	314.070	316.616	319.808	322.677	323.152	320.929	315.191	307.059	297.198
<b>75</b>	138.567	139.669	143.659	149.226	156.237	163.723	169.613	173.432	175.028	174.401
<b>80</b>	21.033	21.508	22.933	25.954	30.267	36.480	44.593	54.302	63.859	71.668
<b>85</b>	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.950
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	43.168	53.105	50.103	51.243	52.972	55.879	57.323	68.837	75.411	80.484
<b>100</b>	166.744	175.009	179.132	187.663	198.645	210.349	223.839	235.239	250.477	251.807
<b>105</b>	400.235	372.799	398.962	409.412	421.344	440.838	455.620	468.084	479.883	476.862
<b>110</b>	746.168	721.620	724.090	739.860	765.358	766.726	793.269	773.718	754.148	707.313
<b>115</b>	1193.542	1188.640	1146.536	1124.857	1114.673	1108.479	1078.079	1035.424	981.293	914.280
<b>120</b>	1518.917	1509.417	1488.498	1449.149	1413.011	1362.452	1308.777	1247.863	1154.098	1055.925
<b>125</b>	1730.577	1719.519	1693.850	1661.417	1620.871	1544.377	1475.350	1375.334	1275.090	1162.211
<b>130</b>	1821.055	1811.289	1783.302	1740.951	1689.366	1620.700	1533.471	1438.832	1330.589	1219.306
<b>135</b>	1820.086	1811.859	1785.696	1744.523	1687.580	1621.593	1538.183	1451.714	1351.755	1251.929
<b>140</b>	1761.167	1752.769	1729.038	1692.140	1643.101	1582.149	1510.139	1431.745	1347.917	1261.771
<b>145</b>	1668.143	1660.657	1641.695	1612.378	1570.825	1520.247	1461.271	1394.296	1324.813	1253.924
<b>150</b>	1559.843	1553.079	1539.209	1515.307	1483.425	1443.145	1395.797	1344.440	1292.000	1234.981
<b>155</b>	1447.401	1442.480	1433.303	1415.025	1391.959	1362.452	1327.739	1290.461	1251.739	1212.561
<b>160</b>	1341.647	1339.044	1331.520	1321.203	1304.787	1286.072	1264.564	1238.705	1211.573	1187.272
<b>165</b>	1251.036	1249.117	1244.367	1238.762	1231.162	1219.819	1207.222	1193.447	1178.608	1161.432
<b>170</b>	1183.339	1182.294	1179.995	1177.430	1174.257	1170.533	1166.258	1159.494	1152.483	1145.168
<b>175</b>	1142.736	1142.242	1141.843	1140.646	1139.753	1138.784	1137.739	1136.618	1135.440	1134.205
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

**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>	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
<b>5</b>	1535.162	1519.392	1499.328	1478.143	1456.654	1433.873	1409.971	1385.138	1359.488	1327.796
<b>10</b>	1703.198	1666.072	1624.671	1580.401	1535.010	1486.104	1435.621	1382.592	1329.392	1278.586
<b>15</b>	1816.590	1765.784	1707.967	1645.381	1579.755	1509.037	1435.298	1357.588	1280.011	1202.776
<b>20</b>	1861.981	1803.366	1736.163	1660.980	1581.351	1492.963	1399.787	1302.469	1205.322	1106.579
<b>25</b>	1831.087	1768.178	1695.389	1613.366	1525.776	1424.943	1320.481	1210.110	1099.891	996.360
<b>30</b>	1733.294	1667.668	1592.504	1507.935	1416.982	1313.147	1204.524	1088.909	974.548	866.723
<b>35</b>	1579.432	1511.754	1436.096	1353.123	1263.937	1163.123	1057.521	946.675	836.627	732.621
<b>40</b>	1384.663	1317.137	1243.702	1165.669	1083.969	992.066	897.617	800.318	698.535	607.126
<b>45</b>	1170.286	1105.154	1039.053	968.335	897.313	818.938	734.844	644.385	571.615	495.634
<b>50</b>	954.009	899.213	842.042	783.427	724.508	660.953	595.650	528.599	462.194	397.366
<b>55</b>	753.483	709.213	664.297	618.279	574.788	526.224	471.903	419.349	367.270	315.666
<b>60</b>	576.384	544.046	510.758	477.318	443.555	406.923	367.118	327.446	286.672	247.342

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	420.945	399.114	377.777	355.794	332.063	305.634	276.963	247.817	218.348	188.898
<b>70</b>	286.520	274.740	262.466	248.938	233.491	216.448	197.961	178.068	157.985	138.890
<b>75</b>	172.330	168.511	163.571	157.358	149.397	139.669	129.010	117.059	104.804	93.499
<b>80</b>	77.254	80.427	81.377	80.750	78.679	74.860	70.243	64.828	58.767	53.352
<b>85</b>	3.021	7.961	15.618	21.337	24.206	25.004	24.681	23.731	22.306	21.337
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	81.681	101.061	98.705	79.211	73.682	74.176	72.713	70.015	71.516	70.015
<b>100</b>	251.408	250.363	231.876	206.549	189.297	174.021	160.341	155.116	155.762	155.116
<b>105</b>	463.771	427.709	385.928	336.661	299.782	272.403	252.757	242.801	241.281	242.801
<b>110</b>	642.295	583.946	520.182	454.727	405.517	372.438	348.536	336.452	335.901	336.452
<b>115</b>	825.873	728.137	640.414	565.079	507.756	468.521	441.484	427.063	425.885	427.063
<b>120</b>	950.836	839.458	742.976	665.627	603.497	561.089	535.192	518.491	511.727	518.491
<b>125</b>	1042.416	931.855	833.929	752.894	687.990	643.454	616.683	600.495	592.477	600.495
<b>130</b>	1108.574	1005.119	912.570	832.865	768.398	720.005	687.401	666.729	651.244	666.729
<b>135</b>	1151.267	1058.015	972.173	900.866	841.643	796.689	766.992	748.524	740.905	748.524
<b>140</b>	1174.960	1095.768	1021.478	955.510	903.925	861.536	833.226	815.974	807.956	815.974
<b>145</b>	1184.289	1118.492	1057.103	1001.984	956.897	921.443	894.862	880.954	872.936	880.954
<b>150</b>	1181.439	1129.911	1079.998	1038.901	1000.255	974.320	950.532	940.728	934.097	940.728
<b>155</b>	1172.452	1134.072	1098.941	1064.722	1040.079	1018.286	1002.022	993.567	987.449	993.567
<b>160</b>	1161.603	1134.471	1108.251	1089.498	1071.410	1054.006	1046.387	1039.927	1035.063	1039.927
<b>165</b>	1145.491	1132.419	1119.328	1106.332	1093.507	1087.674	1082.810	1078.383	1074.887	1078.383
<b>170</b>	1137.625	1129.930	1122.311	1118.663	1115.319	1112.203	1109.334	1106.636	1104.356	1106.636
<b>175</b>	1132.932	1131.621	1130.272	1128.923	1127.574	1126.225	1124.857	1123.584	1122.349	1123.584
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

**Vert.  
Angles**

**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>	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
<b>5</b>	1303.913	1276.040	1252.157	1230.326	1207.545	1186.854	1167.892	1148.626	1254.855	1244.025
<b>10</b>	1229.053	1179.045	1130.158	1085.394	1040.478	1018.020	983.459	947.321	918.479	890.777
<b>15</b>	1130.310	1057.996	989.672	927.086	865.773	812.421	764.313	817.190	778.658	747.593
<b>20</b>	1016.918	928.834	847.457	774.991	706.021	721.468	667.964	618.583	581.324	550.107
<b>25</b>	897.313	801.268	714.628	639.616	569.848	513.475	465.861	432.250	398.962	371.564
<b>30</b>	765.586	670.358	586.416	515.546	451.991	402.306	365.047	330.163	303.411	282.530
<b>35</b>	637.868	550.430	474.297	412.813	358.834	318.212	287.318	259.920	239.704	224.409
<b>40</b>	523.355	447.374	383.192	332.234	289.066	256.728	231.572	212.629	198.132	186.979
<b>45</b>	425.391	362.330	310.251	269.629	235.391	211.508	192.869	178.220	167.865	160.227
<b>50</b>	339.245	289.712	250.040	218.519	193.192	175.028	161.823	153.368	145.882	140.638
<b>55</b>	271.548	232.693	202.578	178.847	160.379	148.428	138.719	131.708	126.939	123.747
<b>60</b>	213.902	184.756	161.823	145.407	133.152	123.918	117.382	117.059	113.715	111.492
<b>65</b>	164.844	145.255	128.839	116.907	107.825	101.460	97.470	94.772	93.005	92.055
<b>70</b>	122.645	108.623	97.945	90.136	84.417	80.598	78.204	76.608	75.810	75.335
<b>75</b>	83.771	75.658	69.445	65.132	61.959	60.211	59.242	58.615	58.444	58.615
<b>80</b>	49.058	45.714	43.168	41.572	40.774	40.299	40.451	40.622	41.249	41.895
<b>85</b>	21.033	21.033	21.337	21.660	22.306	23.256	23.883	24.206	24.054	23.883
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	72.713	74.176	73.682	79.211	98.705	101.061	81.681	80.484	75.411	68.837
<b>100</b>	160.341	174.021	189.297	206.549	231.876	250.363	251.408	251.807	250.477	235.239
<b>105</b>	252.757	272.403	299.782	336.661	385.928	427.709	463.771	476.862	479.883	468.084
<b>110</b>	348.536	372.438	405.517	454.727	520.182	583.946	642.295	707.313	754.148	773.718
<b>115</b>	441.484	468.521	507.756	565.079	640.414	728.137	825.873	914.280	981.293	1035.424
<b>120</b>	535.192	561.089	603.497	665.627	742.976	839.458	950.836	1055.925	1154.098	1247.863
<b>125</b>	616.683	643.454	687.990	752.894	833.929	931.855	1042.416	1162.211	1275.090	1375.334
<b>130</b>	687.401	720.005	768.398	832.865	912.570	1005.119	1108.574	1219.306	1330.589	1438.832
<b>135</b>	766.992	796.689	841.643	900.866	972.173	1058.015	1151.267	1251.929	1351.755	1451.714

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	833.226	861.536	903.925	955.510	1021.478	1095.768	1174.960	1261.771	1347.917	1431.745
<b>145</b>	894.862	921.443	956.897	1001.984	1057.103	1118.492	1184.289	1253.924	1324.813	1394.296
<b>150</b>	950.532	974.320	1000.255	1038.901	1079.998	1129.911	1181.439	1234.981	1292.000	1344.440
<b>155</b>	1002.022	1018.286	1040.079	1064.722	1098.941	1134.072	1172.452	1212.561	1251.739	1290.461
<b>160</b>	1046.387	1054.006	1071.410	1089.498	1108.251	1134.471	1161.603	1187.272	1211.573	1238.705
<b>165</b>	1082.810	1087.674	1093.507	1106.332	1119.328	1132.419	1145.491	1161.432	1178.608	1193.447
<b>170</b>	1109.334	1112.203	1115.319	1118.663	1122.311	1129.930	1137.625	1145.168	1152.483	1159.494
<b>175</b>	1124.857	1126.225	1127.574	1128.923	1130.272	1131.621	1132.932	1134.205	1135.440	1136.618
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

**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>	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691	1369.691
<b>5</b>	1238.135	1236.539	1238.933	1245.298	1248.319	1242.752	1383.067
<b>10</b>	868.642	954.807	946.998	943.654	941.108	932.501	1056.571
<b>15</b>	720.670	702.354	688.351	679.592	673.056	663.974	759.069
<b>20</b>	525.578	508.535	493.088	482.733	475.722	467.438	531.943
<b>25</b>	349.581	332.861	360.411	351.177	344.812	338.599	379.696
<b>30</b>	265.658	276.488	272.023	265.012	259.920	255.778	280.953
<b>35</b>	212.135	223.611	215.973	211.033	207.993	204.972	220.419
<b>40</b>	178.847	172.805	180.291	177.099	175.351	173.603	183.483
<b>45</b>	155.914	160.379	157.681	155.914	155.135	154.337	161.177
<b>50</b>	137.123	139.840	139.365	138.719	138.396	138.092	142.709
<b>55</b>	121.676	124.868	124.222	123.918	123.595	123.424	126.768
<b>60</b>	110.219	109.573	109.421	109.250	109.250	109.098	111.796
<b>65</b>	91.428	94.126	94.126	94.449	94.772	94.449	96.520
<b>70</b>	75.335	77.729	78.033	78.356	78.679	78.679	80.598
<b>75</b>	58.938	61.009	61.484	61.959	62.282	62.434	63.707
<b>80</b>	42.522	44.270	44.916	45.391	46.037	46.341	47.462
<b>85</b>	23.883	24.054	24.852	25.004	25.327	25.479	26.125
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	57.323	55.879	52.972	51.243	50.103	53.105	43.168
<b>100</b>	223.839	210.349	198.645	187.663	179.132	175.009	166.744
<b>105</b>	455.620	440.838	421.344	409.412	398.962	372.799	400.235
<b>110</b>	793.269	766.726	765.358	739.860	724.090	721.620	746.168
<b>115</b>	1078.079	1108.479	1114.673	1124.857	1146.536	1188.640	1193.542
<b>120</b>	1308.777	1362.452	1413.011	1449.149	1488.498	1509.417	1518.917
<b>125</b>	1475.350	1544.377	1620.871	1661.417	1693.850	1719.519	1730.577
<b>130</b>	1533.471	1620.700	1689.366	1740.951	1783.302	1811.289	1821.055
<b>135</b>	1538.183	1621.593	1687.580	1744.523	1785.696	1811.859	1820.086
<b>140</b>	1510.139	1582.149	1643.101	1692.140	1729.038	1752.769	1761.167
<b>145</b>	1461.271	1520.247	1570.825	1612.378	1641.695	1660.657	1668.143
<b>150</b>	1395.797	1443.145	1483.425	1515.307	1539.209	1553.079	1559.843
<b>155</b>	1327.739	1362.452	1391.959	1415.025	1433.303	1442.480	1447.401
<b>160</b>	1264.564	1286.072	1304.787	1321.203	1331.520	1339.044	1341.647
<b>165</b>	1207.222	1219.819	1231.162	1238.762	1244.367	1249.117	1251.036
<b>170</b>	1166.258	1170.533	1174.257	1177.430	1179.995	1182.294	1183.339
<b>175</b>	1137.739	1138.784	1139.753	1140.646	1141.843	1142.242	1142.736
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G1A1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	501.56	N.A.	6.20
0-30	1034.88	N.A.	12.70
0-40	1625.87	N.A.	20.00
0-60	2589.82	N.A.	31.90
0-80	2976.32	N.A.	36.60
0-90	3001.44	N.A.	36.90
10-90	2870.4	N.A.	35.30
20-40	1124.31	N.A.	13.80
20-50	1667.85	N.A.	20.50
40-70	1230.9	N.A.	15.20
60-80	386.49	N.A.	4.80
70-80	119.55	N.A.	1.50
80-90	25.13	N.A.	0.30
90-110	513.74	N.A.	6.30
90-120	1333.11	N.A.	16.40
90-130	2355.04	N.A.	29.00
90-150	4120.00	N.A.	50.70
90-180	5122.00	N.A.	63.10
110-180	4608.27	N.A.	56.70
0-180	8123.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.04
10-20	370.52
20-30	533.32
30-40	590.99
40-50	543.54
50-60	420.41
60-70	266.95
70-80	119.55
80-90	25.13
90-100	96.28
100-110	417.46
110-120	819.37
120-130	1021.93
130-140	973.35
140-150	791.62
150-160	562.84
160-170	330.61
170-180	108.55

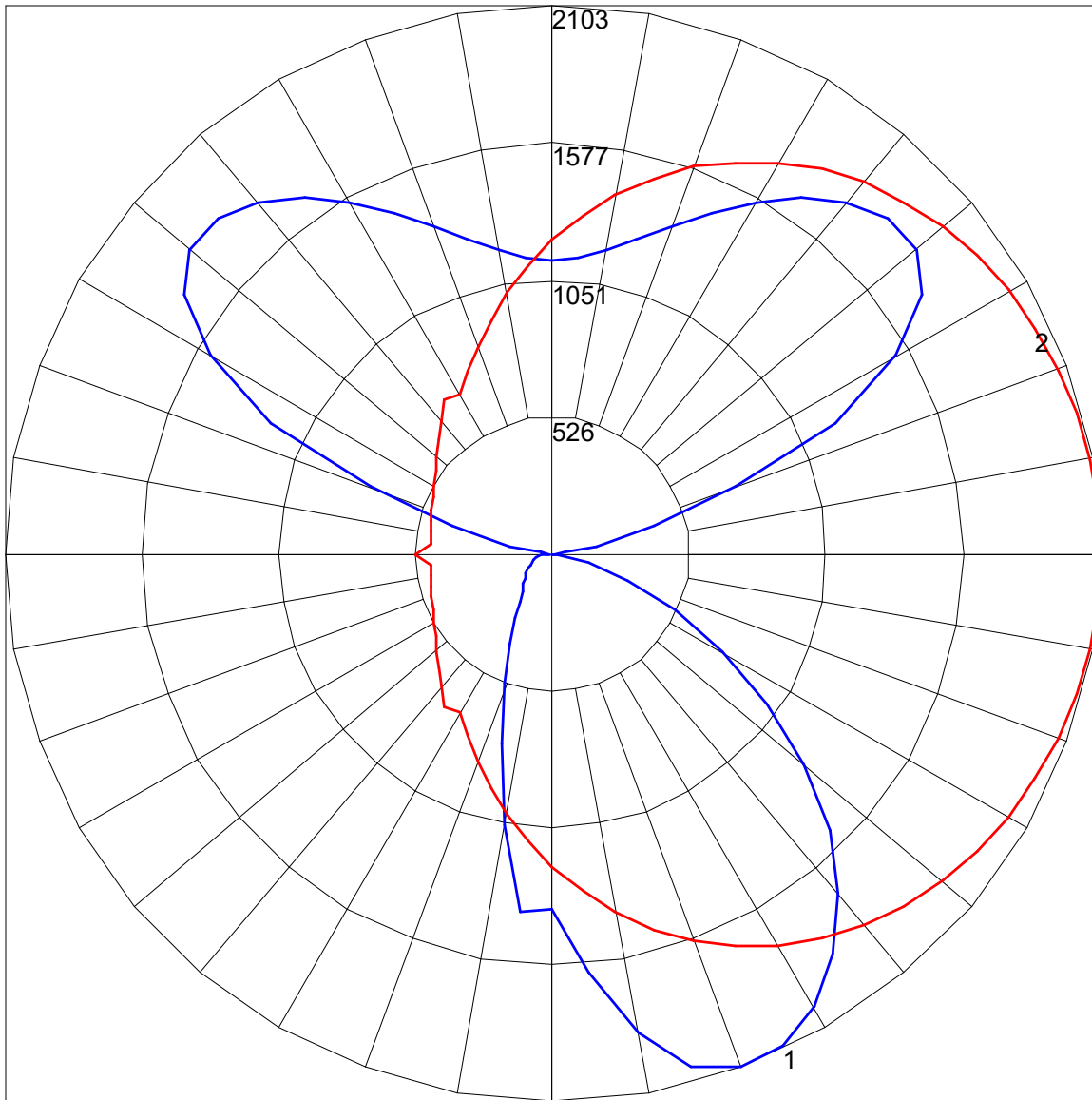
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G1A1.IES**

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	27
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39	37	34	31	29	26	25	21
5	67	56	48	43	61	51	45	39	42	37	33	34	30	27	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 2102.635 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)