

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 85° Asymmetric, down | 80 CRI | HO**

**107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1A1-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	82
Total Lumens, 4' rail length (1219mm)	7505	7742	7900	8058
Lumens per foot (305mm)	1876	1935	1975	2014
Lumens per foot UP (305mm)	1329	1371	1399	1427
Lumens per foot DOWN (305mm)	547	565	576	588
Input Power (W), 4' rail length (1219mm)	98.4	98.4	98.4	98.4
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	85	85	85	85

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\_35\_G1A1\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L011800109 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 1/12/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-DB-48-Z-HO-35-G1A1-BL  
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 120° batwing lens up with white polycarbonate reflectors/85° black asymmetric lens down, high output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	98.44
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16507	18451	20604
55	9674	10867	12741
65	4458	5440	8372
75	785	1870	5533
85	19	66	2562

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>
0	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045
5	1464.095	1463.390	1462.663	1451.621	1442.981	1432.181	1419.332	1404.543	1387.881	1369.522
10	1697.256	1695.273	1686.170	1675.393	1661.309	1644.008	1623.643	1597.195	1568.477	1537.554
15	1832.317	1828.989	1819.424	1808.426	1793.483	1771.311	1746.868	1720.376	1692.033	1658.400
20	1875.141	1870.821	1863.813	1854.181	1836.483	1818.366	1798.288	1771.818	1746.097	1703.009
25	1843.315	1837.673	1833.464	1820.680	1807.963	1791.103	1772.126	1756.257	1715.990	1673.651
30	1740.829	1736.113	1732.498	1722.624	1711.935	1699.064	1685.399	1660.626	1629.351	1591.530
35	1589.657	1585.073	1580.643	1576.675	1565.920	1554.261	1540.001	1512.693	1487.612	1448.292
40	1402.604	1400.047	1394.890	1389.291	1383.627	1374.657	1353.058	1331.613	1303.534	1263.641
45	1186.656	1187.008	1184.584	1181.366	1174.732	1164.968	1146.455	1128.206	1093.316	1059.485
50	961.561	960.702	960.724	958.894	952.943	946.199	933.350	910.406	867.583	823.260
55	739.001	739.486	742.373	742.792	730.339	735.232	724.477	705.567	678.854	648.042
60	534.404	535.285	538.768	540.641	540.840	537.644	529.379	517.918	498.964	469.893
65	350.282	353.015	357.731	361.456	364.145	364.806	361.522	354.161	342.788	326.589
70	192.541	195.958	201.754	206.294	213.193	217.579	219.188	218.042	213.457	207.066
75	61.492	67.090	76.148	78.022	85.868	94.023	100.062	104.954	112.051	109.605
80	4.033	10.227	8.463	10.579	12.783	15.230	17.566	23.803	26.206	33.501
85	1.455	2.094	2.248	2.336	2.358	2.380	2.204	2.226	2.579	3.659
90	2.028	2.204	2.204	2.204	2.006	2.006	2.006	2.006	2.006	2.006
95	56.004	90.276	94.111	101.097	107.070	112.095	115.203	128.427	119.236	108.459
100	279.269	292.581	299.215	305.518	309.111	310.279	309.971	306.709	293.352	277.814
105	506.215	516.375	524.155	528.211	531.935	534.955	531.384	520.012	504.760	475.777
110	752.908	761.240	768.270	771.797	775.698	772.700	768.182	752.644	724.345	680.022
115	1012.055	1016.507	1021.400	1022.854	1022.414	1018.424	1004.693	981.331	948.712	894.251
120	1263.884	1265.096	1268.160	1267.454	1265.228	1251.696	1232.874	1210.922	1154.389	1086.131
125	1497.045	1496.670	1495.502	1489.970	1483.623	1462.112	1440.446	1393.391	1336.043	1263.862
130	1693.598	1691.989	1687.449	1674.952	1660.450	1636.272	1600.368	1550.558	1481.749	1396.234
135	1848.054	1845.012	1835.800	1819.512	1797.737	1770.892	1721.544	1670.830	1588.357	1505.508
140	1956.050	1950.408	1936.875	1916.114	1889.820	1857.179	1802.850	1738.537	1662.830	1569.226
145	2012.406	2004.979	1989.044	1965.086	1930.836	1889.974	1840.627	1768.776	1693.752	1605.812
150	2008.020	2000.284	1985.121	1955.102	1918.450	1874.811	1824.824	1760.908	1686.875	1605.945
155	1939.939	1931.960	1918.979	1890.172	1855.173	1812.812	1764.082	1712.221	1646.432	1578.086
160	1815.854	1811.269	1796.965	1778.341	1747.728	1712.817	1672.990	1626.662	1578.174	1530.898
165	1660.670	1657.628	1647.644	1636.007	1619.676	1594.285	1566.559	1536.805	1505.288	1470.817
170	1510.952	1508.947	1503.723	1497.750	1490.301	1481.419	1471.148	1455.852	1439.917	1423.255
175	1404.433	1403.595	1402.758	1400.311	1398.284	1395.925	1393.281	1390.371	1387.220	1383.848
180	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460

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>
0	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045
5	1349.575	1328.219	1305.606	1281.890	1257.294	1231.948	1206.029	1179.867	1153.530	1125.274
10	1504.715	1470.200	1435.113	1385.655	1335.955	1285.219	1233.799	1181.961	1130.299	1075.023
15	1614.981	1559.727	1503.128	1445.582	1387.418	1313.584	1238.604	1163.602	1089.658	1009.630
20	1652.030	1598.627	1544.189	1465.969	1388.542	1312.173	1216.344	1120.205	1026.513	926.518
25	1633.671	1575.772	1506.434	1439.873	1348.782	1256.853	1158.753	1046.944	939.962	827.602
30	1543.549	1490.719	1428.875	1345.961	1267.410	1164.572	1068.786	946.794	832.892	715.176
35	1401.303	1354.005	1286.100	1212.861	1127.126	1032.662	929.846	817.265	705.875	593.824
40	1219.187	1164.307	1101.559	1032.177	945.758	856.893	764.303	666.864	564.599	467.006
45	1010.754	960.062	898.372	831.503	762.738	689.037	603.213	516.353	431.367	351.163
50	802.851	757.867	701.026	641.673	584.082	517.808	447.324	377.766	313.144	255.906
55	610.111	567.221	521.709	472.626	422.970	371.176	319.602	269.703	221.260	186.480
60	440.425	406.858	371.616	334.501	296.438	258.595	222.053	188.883	170.017	131.733

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1A1\_BLI.IES**

**CANDELA TABULATION - (Cont.)**

65	302.896	277.131	252.777	227.078	202.922	183.174	162.677	129.331	111.082	93.009
70	192.586	178.260	162.743	147.139	131.711	117.010	102.376	88.006	77.052	65.723
75	106.145	101.957	94.001	86.860	78.529	69.514	62.153	55.761	48.510	42.978
80	39.253	40.818	40.928	39.209	37.424	34.581	31.429	29.379	26.712	24.442
85	5.179	6.303	6.546	6.678	8.596	9.962	9.698	10.469	10.249	9.742
90	2.006	1.653	1.829	1.829	1.653	1.653	1.829	1.653	1.829	2.380
95	103.875	92.634	78.683	69.250	63.607	58.318	52.058	53.689	52.720	49.678
100	258.661	230.318	204.311	187.957	175.615	169.466	165.168	162.479	164.529	159.944
105	441.131	398.704	353.786	320.087	295.027	276.095	267.676	265.273	259.697	258.595
110	634.091	575.795	514.370	465.882	431.345	404.831	391.144	382.482	379.573	378.295
115	815.282	747.443	677.201	612.271	563.497	529.202	509.587	500.220	492.858	491.448
120	1005.663	919.355	827.756	738.693	686.127	651.987	626.531	608.943	603.389	604.645
125	1163.558	1061.601	959.666	857.003	797.584	758.044	730.868	713.677	705.522	705.544
130	1298.883	1187.074	1080.291	984.857	909.613	858.568	824.296	804.218	796.283	794.983
135	1394.956	1285.681	1177.553	1084.434	1007.735	951.577	915.101	891.738	879.749	883.297
140	1469.804	1361.323	1259.520	1167.128	1094.242	1035.968	997.090	972.074	958.255	962.244
145	1509.101	1414.659	1319.954	1236.003	1165.475	1111.609	1072.114	1049.368	1034.205	1037.687
150	1522.038	1437.823	1356.738	1286.276	1220.862	1178.170	1139.556	1120.822	1106.121	1108.656
155	1509.299	1442.209	1379.219	1318.323	1273.339	1233.226	1202.348	1184.408	1169.641	1172.748
160	1481.551	1430.660	1381.688	1345.145	1309.771	1275.631	1257.536	1241.161	1226.923	1231.331
165	1438.639	1411.177	1383.715	1356.452	1329.497	1314.796	1301.616	1288.987	1277.615	1280.811
170	1406.064	1388.432	1370.888	1361.058	1351.603	1342.390	1333.464	1324.824	1316.780	1318.852
175	1380.255	1376.530	1372.651	1368.662	1364.585	1360.463	1356.231	1352.154	1348.077	1349.024
180	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460

**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	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045
5	1097.283	1069.844	1043.021	1017.058	992.175	968.548	946.354	925.768	906.924	889.997
10	1020.628	967.225	915.255	865.070	817.023	777.439	740.478	706.228	674.975	646.962
15	931.322	854.535	784.800	718.901	659.723	603.389	550.251	508.595	475.645	444.767
20	829.277	738.472	655.690	579.167	505.223	452.129	403.596	357.114	316.208	292.890
25	719.055	621.264	531.340	447.434	387.133	328.220	281.385	248.721	217.887	191.814
30	602.265	506.722	412.479	345.719	281.010	237.613	200.366	170.171	152.076	134.025
35	488.737	396.500	318.566	255.377	208.565	170.744	144.384	123.887	108.635	98.739
40	378.691	298.576	238.914	187.252	152.980	126.708	106.740	94.155	83.201	76.920
45	281.715	220.885	174.954	140.858	113.704	96.491	84.061	73.856	68.699	63.629
50	205.479	162.743	128.603	106.299	89.482	76.831	68.324	62.968	58.693	55.938
55	150.599	120.956	98.739	82.121	71.343	63.938	58.538	54.593	52.058	50.031
60	108.481	90.540	76.633	66.164	58.693	53.822	50.648	47.606	45.380	43.882
65	79.190	68.037	59.618	53.337	48.576	45.226	42.493	40.179	39.231	38.526
70	57.414	50.516	45.469	41.435	38.570	36.300	34.647	33.501	33.082	32.884
75	38.658	35.462	32.002	30.107	29.049	27.859	26.977	26.095	25.831	25.897
80	22.503	20.674	20.211	19.572	19.087	18.646	18.051	18.073	18.381	18.425
85	9.609	9.345	9.940	10.182	9.345	8.838	8.397	8.067	8.089	8.089
90	2.204	2.006	2.006	2.006	2.380	2.380	2.380	2.380	2.380	2.557
95	52.411	55.893	60.588	68.015	73.063	78.749	86.926	94.441	88.006	86.948
100	163.471	165.763	172.375	182.447	198.867	214.163	234.285	247.112	249.515	255.532
105	264.370	270.078	278.806	300.008	332.209	364.960	394.560	418.363	435.224	443.445
110	382.394	393.811	409.834	438.949	482.522	531.362	575.927	612.800	641.342	640.703
115	497.619	512.320	537.005	576.500	634.818	705.853	774.111	818.169	848.187	864.188
120	612.470	627.126	654.676	699.241	766.088	857.268	943.775	1009.212	1062.130	1097.879
125	713.699	732.257	764.127	816.472	900.268	993.409	1089.966	1188.970	1258.837	1307.214
130	805.033	827.580	865.709	931.322	1015.118	1111.742	1217.446	1313.848	1398.041	1465.263
135	895.287	918.208	962.619	1027.218	1108.480	1206.580	1309.705	1416.797	1498.037	1576.742

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1A1\_BL.IES**

**CANDELA TABULATION - (Cont.)**

<b>140</b>	974.983	999.073	1045.798	1106.232	1187.647	1280.105	1380.542	1477.473	1570.262	1642.597
<b>145</b>	1048.641	1076.632	1118.133	1174.930	1247.993	1332.891	1419.663	1509.828	1593.955	1668.582
<b>150</b>	1114.937	1143.964	1176.451	1229.061	1286.805	1358.457	1434.033	1509.586	1584.742	1655.513
<b>155</b>	1179.030	1199.439	1229.634	1264.523	1315.568	1369.103	1427.421	1488.383	1549.919	1610.507
<b>160</b>	1237.855	1245.150	1271.245	1297.671	1325.419	1366.502	1409.745	1451.576	1491.623	1534.381
<b>165</b>	1285.263	1290.266	1295.864	1317.022	1337.586	1358.590	1379.880	1406.240	1434.980	1460.503
<b>170</b>	1321.562	1324.604	1328.064	1331.877	1336.043	1349.333	1362.623	1375.627	1388.211	1400.289
<b>175</b>	1350.016	1351.184	1352.330	1353.543	1354.777	1356.033	1357.333	1358.634	1359.956	1361.257
<b>180</b>	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460

**Vert. Horizontal Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045	1161.045
<b>5</b>	875.098	862.337	851.846	843.669	837.917	834.633	833.817
<b>10</b>	622.454	600.149	581.724	567.354	557.193	551.309	549.766
<b>15</b>	417.504	394.141	374.900	358.988	347.461	340.760	338.931
<b>20</b>	272.128	253.085	237.106	224.698	215.221	209.512	207.903
<b>25</b>	177.554	165.146	154.434	145.574	139.249	135.127	133.959
<b>30</b>	121.044	113.616	107.114	101.671	97.637	95.103	94.441
<b>35</b>	89.086	84.325	80.600	77.449	75.024	73.592	73.217
<b>40</b>	71.762	67.663	65.525	63.674	62.285	61.403	61.117
<b>45</b>	60.897	58.031	56.687	55.717	54.946	54.285	54.174
<b>50</b>	53.910	52.565	51.353	50.648	50.185	49.788	49.788
<b>55</b>	48.907	47.871	47.254	46.835	46.372	46.086	46.130
<b>60</b>	43.044	42.581	42.647	42.802	43.088	42.978	43.198
<b>65</b>	38.107	37.975	37.865	38.129	38.394	39.297	39.540
<b>70</b>	33.324	33.523	33.479	33.280	32.531	33.214	34.052
<b>75</b>	26.228	26.933	27.814	28.388	27.991	26.404	28.542
<b>80</b>	18.976	19.395	20.078	20.696	21.379	20.431	21.599
<b>85</b>	8.287	8.552	8.706	9.169	9.654	10.205	9.521
<b>90</b>	2.557	2.557	2.557	2.557	2.380	2.380	2.116
<b>95</b>	82.562	80.821	80.049	81.129	83.488	89.901	80.887
<b>100</b>	253.967	256.722	260.535	264.612	268.006	264.149	316.605
<b>105</b>	446.971	454.531	463.237	470.576	469.650	472.031	535.131
<b>110</b>	662.192	674.270	675.989	671.360	681.477	739.729	764.259
<b>115</b>	880.211	888.675	896.058	914.307	954.508	1000.550	1002.181
<b>120</b>	1113.549	1132.878	1158.180	1191.218	1220.024	1227.915	1230.581
<b>125</b>	1360.132	1380.321	1409.568	1423.497	1431.895	1438.154	1442.871
<b>130</b>	1517.322	1554.393	1580.643	1597.018	1610.088	1620.733	1624.789
<b>135</b>	1629.660	1680.947	1710.062	1732.983	1751.585	1764.985	1768.269
<b>140</b>	1706.623	1762.583	1794.717	1821.738	1844.285	1860.815	1866.722
<b>145</b>	1741.204	1790.331	1830.444	1864.694	1890.172	1907.342	1914.681
<b>150</b>	1718.591	1769.041	1812.437	1848.407	1877.521	1892.663	1900.399
<b>155</b>	1658.554	1704.243	1744.312	1777.085	1803.864	1816.338	1823.898
<b>160</b>	1575.089	1609.868	1640.724	1668.186	1685.531	1696.882	1703.846
<b>165</b>	1484.460	1506.632	1526.821	1540.287	1550.161	1557.368	1561.843
<b>170</b>	1411.926	1419.574	1426.275	1432.005	1436.699	1440.336	1442.871
<b>175</b>	1362.535	1363.813	1365.025	1366.193	1367.318	1368.353	1369.301
<b>180</b>	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460	1355.460

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	414.13	N.A.	5.20
0-30	855.77	N.A.	10.80
0-40	1339.18	N.A.	17.00
0-60	2058.47	N.A.	26.10
0-80	2293.07	N.A.	29.00
0-90	2303.79	N.A.	29.20
10-90	2194.86	N.A.	27.80
20-40	925.04	N.A.	11.70
20-50	1346.34	N.A.	17.00
40-70	889.04	N.A.	11.30
60-80	234.61	N.A.	3.00
70-80	64.85	N.A.	0.80
80-90	10.72	N.A.	0.10
90-110	542.55	N.A.	6.90
90-120	1316.55	N.A.	16.70
90-130	2329.3	N.A.	29.50
90-150	4348.67	N.A.	55.00
90-180	5595.84	N.A.	70.80
110-180	5053.29	N.A.	64.00
0-180	7899.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.93
10-20	305.21
20-30	441.64
30-40	483.40
40-50	421.29
50-60	298.00
60-70	169.75
70-80	64.85
80-90	10.72
90-100	109.87
100-110	432.68
110-120	774.00
120-130	1012.75
130-140	1068.76
140-150	950.61
150-160	705.08
160-170	410.48
170-180	131.62

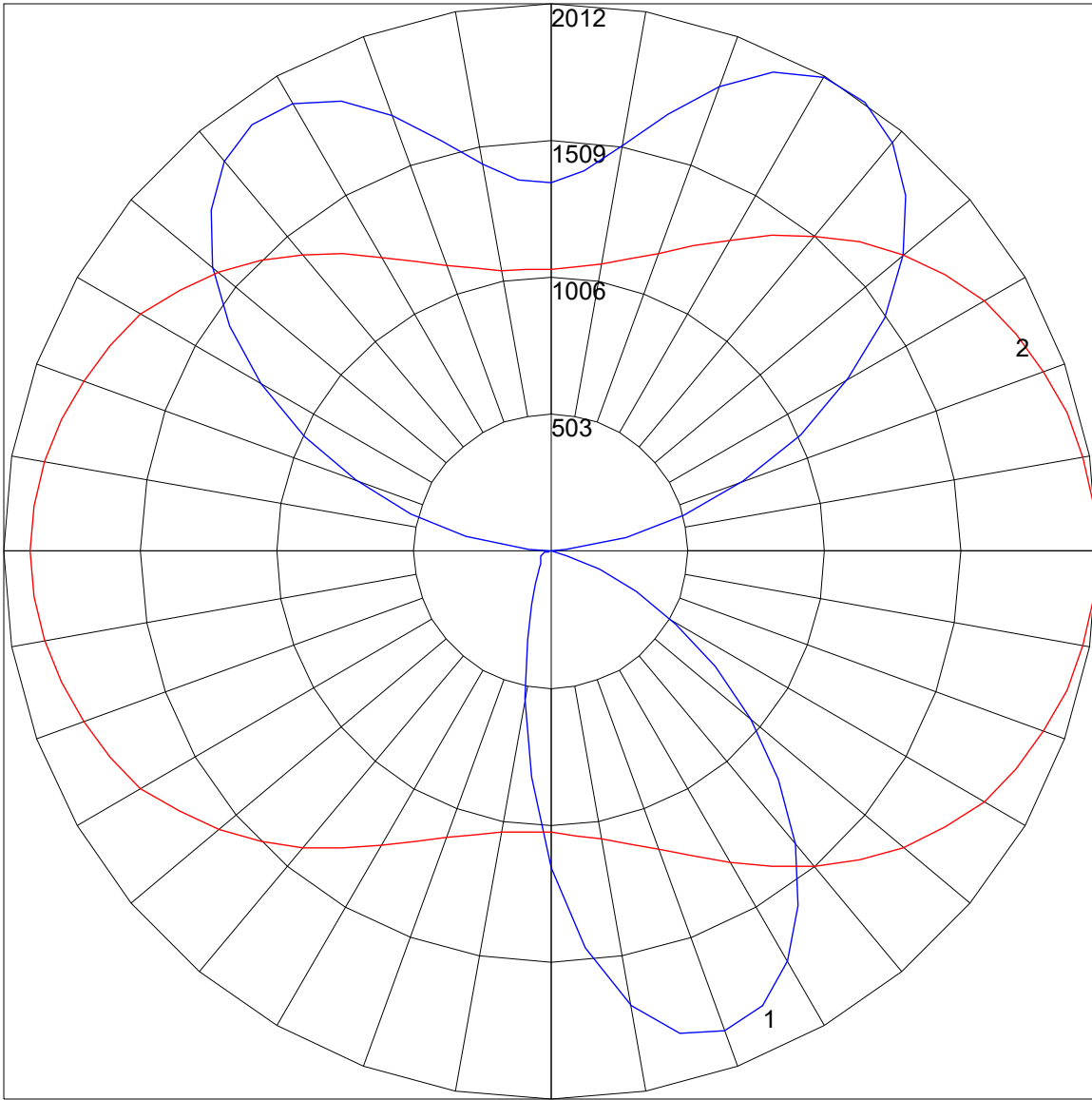
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1A1\_BLI.IES**

**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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	33	33	32	26
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22
3	78	70	63	57	70	63	57	52	50	46	43	38	35	33	27	25	24	19
4	72	62	54	49	64	56	50	45	45	40	37	34	31	29	24	23	21	17
5	66	55	48	42	59	50	43	39	40	35	32	31	28	25	22	20	19	15
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13
7	56	45	37	32	50	41	34	29	33	28	25	25	22	20	19	16	15	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	18	17	15	13	11
9	48	37	30	25	44	34	27	23	27	23	19	21	18	16	16	14	12	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 2012.406 Located At Horizontal Angle = 0, Vertical Angle = 145  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)