

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	90	92	94
Total Lumens, 4' rail length (1219mm)	8551	8821	9001	9181
Lumens per foot (305mm)	2138	2205	2250	2295
Lumens per foot UP (305mm)	1403	1448	1477	1507
Lumens per foot DOWN (305mm)	735	758	773	789
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800105 (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
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/85° white 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	9001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	25214	26336	24398
55	16233	16664	19538
65	8343	8670	15641
75	2386	3370	11480
85	44	202	5123

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	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528
5	1302.696	1300.889	1296.481	1289.494	1279.973	1268.005	1253.679	1237.127	1218.459	1197.808
10	1670.169	1666.158	1656.548	1641.407	1620.866	1595.145	1564.399	1526.843	1485.143	1439.565
15	1988.625	1982.696	1969.428	1948.931	1920.588	1882.062	1837.541	1787.444	1732.234	1669.177
20	2208.606	2201.465	2187.470	2165.077	2130.364	2090.384	2044.276	1988.890	1930.506	1848.671
25	2308.161	2300.447	2288.898	2264.125	2234.746	2197.388	2154.586	2111.520	2030.722	1943.002
30	2298.640	2291.499	2280.942	2259.827	2234.041	2203.096	2167.039	2109.713	2039.890	1964.205
35	2201.642	2194.413	2182.665	2167.722	2142.024	2114.628	2081.590	2019.371	1961.097	1883.054
40	2034.380	2027.658	2014.346	1996.736	1976.040	1950.584	1907.055	1859.405	1801.990	1723.925
45	1812.570	1806.354	1793.681	1775.520	1755.486	1725.864	1681.894	1642.928	1575.000	1512.275
50	1540.596	1532.044	1521.553	1508.197	1490.102	1460.459	1421.007	1374.326	1317.243	1248.808
55	1240.103	1231.595	1225.468	1217.842	1197.521	1162.764	1132.878	1087.454	1049.324	993.762
60	935.929	930.815	924.336	893.568	862.579	840.539	816.648	794.806	770.739	726.747
65	655.558	652.494	620.977	590.892	578.506	572.489	563.431	548.774	534.580	520.519
70	402.274	386.626	359.032	358.062	362.646	363.131	359.913	348.695	342.964	336.639
75	187.031	165.036	172.772	175.637	178.348	184.607	184.739	186.943	194.679	197.500
80	36.234	41.876	39.628	42.163	45.094	48.334	50.912	59.155	65.856	78.242
85	3.306	5.863	5.003	4.672	4.408	5.047	4.342	5.642	8.728	11.218
90	2.160	2.204	2.380	2.380	2.380	2.380	2.380	2.380	2.380	2.380
95	81.989	84.832	77.008	74.076	73.327	75.134	76.920	80.226	84.545	85.052
100	312.593	258.441	262.474	257.427	255.311	250.925	245.812	251.587	241.382	238.076
105	532.927	457.374	470.003	460.217	462.399	457.661	451.710	447.324	445.517	432.182
110	784.756	757.316	697.169	687.339	693.092	692.783	687.736	675.195	661.398	631.975
115	1031.825	1031.075	983.006	941.879	923.807	920.236	911.795	897.138	877.853	847.769
120	1273.405	1270.606	1262.848	1232.278	1194.965	1174.181	1156.108	1139.975	1105.570	1056.267
125	1497.772	1493.607	1487.281	1478.818	1465.572	1433.856	1414.792	1362.138	1314.311	1245.018
130	1693.598	1688.418	1678.500	1664.791	1649.077	1623.268	1586.483	1535.461	1466.762	1380.079
135	1846.974	1842.037	1830.158	1812.481	1789.406	1760.864	1711.252	1660.560	1578.769	1495.789
140	1952.391	1946.286	1931.167	1909.678	1882.987	1849.531	1796.326	1732.763	1658.532	1563.782
145	2008.373	2000.857	1984.482	1960.678	1927.001	1887.395	1839.502	1765.448	1688.771	1602.308
150	2001.430	1992.835	1977.561	1949.835	1914.438	1870.998	1820.702	1757.249	1685.090	1607.157
155	1927.486	1919.882	1907.540	1881.224	1848.980	1808.845	1762.274	1712.839	1651.545	1589.018
160	1809.264	1802.806	1791.874	1774.705	1747.045	1716.034	1680.969	1639.181	1595.608	1554.635
165	1666.158	1661.640	1654.278	1644.162	1630.431	1610.242	1588.048	1564.069	1538.524	1509.233
170	1543.175	1540.596	1536.893	1532.111	1526.270	1519.482	1511.724	1500.417	1488.560	1476.151
175	1467.754	1466.850	1465.814	1464.690	1463.478	1462.200	1460.855	1459.445	1457.990	1456.513
180	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436

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	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528
5	1175.371	1151.281	1125.737	1098.936	1071.078	1042.360	1013.025	983.271	953.318	929.824
10	1390.482	1338.247	1283.367	1229.523	1173.872	1116.833	1058.780	1000.087	941.240	895.111
15	1597.327	1516.616	1432.931	1346.820	1253.261	1174.556	1089.878	1004.693	919.817	852.441
20	1755.023	1656.372	1555.561	1441.085	1325.486	1203.935	1100.105	991.425	883.958	799.391
25	1855.305	1744.819	1619.631	1496.604	1359.405	1221.391	1087.983	960.173	834.897	737.216
30	1866.810	1755.464	1633.759	1489.419	1349.862	1195.582	1046.217	906.505	771.400	666.291
35	1792.183	1696.022	1563.606	1427.024	1275.763	1123.269	969.275	827.844	693.445	587.961
40	1640.129	1540.552	1426.142	1296.283	1153.507	1012.716	855.240	719.716	602.287	504.716
45	1424.511	1338.048	1235.739	1117.340	992.660	844.110	725.998	620.536	510.799	425.769
50	1183.063	1108.921	1014.501	912.192	820.483	709.137	609.538	512.893	420.567	351.516
55	922.925	850.678	786.277	715.947	646.786	568.478	488.913	410.759	339.306	286.740
60	698.337	661.354	612.756	558.626	498.919	438.221	378.317	319.933	269.770	228.753

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

65	503.239	473.463	442.585	405.933	367.297	326.390	282.531	241.360	207.529	176.937
70	326.456	318.037	302.741	279.644	255.444	228.863	201.556	176.122	152.451	131.270
75	191.902	192.586	195.605	184.717	171.934	152.869	130.851	112.867	100.657	89.042
80	81.857	88.843	95.565	88.733	83.752	76.060	68.853	61.602	55.078	50.295
85	13.048	17.257	19.616	19.638	23.869	23.847	21.798	20.938	20.497	20.189
90	2.380	2.204	2.204	2.204	2.204	2.006	2.006	2.204	2.006	2.380
95	85.383	78.506	73.437	67.266	59.464	58.472	55.497	53.866	56.929	58.053
100	236.732	220.466	205.347	189.434	179.494	173.852	169.025	165.146	169.289	168.209
105	408.533	381.424	352.552	319.316	296.636	286.608	284.647	278.409	279.269	286.145
110	599.201	558.978	511.328	464.691	436.458	422.110	410.517	406.175	407.387	410.870
115	798.289	734.902	670.347	612.536	572.753	549.325	534.250	528.673	533.302	537.247
120	991.580	900.797	819.557	752.622	699.858	669.663	656.902	650.180	648.240	653.354
125	1148.571	1049.435	955.566	876.597	810.521	772.568	754.495	744.974	742.109	746.627
130	1284.161	1177.796	1078.682	993.651	926.958	888.344	865.665	854.954	854.116	863.064
135	1385.765	1281.626	1182.512	1097.967	1031.230	986.180	963.390	951.467	947.632	958.211
140	1464.955	1362.028	1267.542	1183.812	1121.726	1074.208	1050.074	1037.026	1032.552	1044.740
145	1509.718	1420.941	1334.125	1259.255	1200.849	1158.356	1130.035	1118.772	1115.092	1128.272
150	1529.488	1452.524	1379.329	1319.711	1265.537	1231.882	1201.753	1194.634	1191.791	1205.346
155	1526.733	1467.093	1412.411	1360.265	1324.538	1293.990	1273.097	1265.515	1261.151	1274.639
160	1511.812	1467.555	1425.525	1396.454	1368.662	1341.222	1333.662	1327.006	1322.642	1335.470
165	1482.278	1460.459	1438.903	1417.723	1395.903	1390.129	1385.016	1380.542	1377.346	1387.462
170	1463.280	1450.056	1436.810	1432.446	1428.412	1424.732	1421.426	1418.406	1415.982	1423.189
175	1455.015	1453.516	1452.017	1450.519	1449.042	1447.609	1446.155	1444.876	1443.598	1447.367
180	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436

Vert. Angles **Horizontal 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	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528	957.528
5	906.549	883.672	861.323	839.702	818.940	799.237	780.723	763.532	747.795	733.623
10	849.532	804.724	761.041	718.768	677.179	650.775	625.341	601.758	580.247	560.940
15	786.101	720.906	658.577	615.577	574.296	535.065	498.104	471.259	451.908	433.901
20	716.476	635.876	579.740	525.213	472.516	439.632	410.473	382.923	358.988	346.160
25	641.805	564.885	500.066	440.425	403.244	367.208	339.063	320.153	302.830	288.570
30	563.254	492.770	422.727	379.683	339.129	312.681	290.399	272.547	262.056	252.116
35	492.550	422.022	364.894	322.688	292.228	268.646	252.182	239.905	230.825	224.808
40	422.198	356.828	312.439	275.544	251.807	234.307	221.392	213.303	206.493	202.614
45	357.202	302.565	264.789	237.878	217.447	204.994	196.266	189.676	186.304	183.637
50	297.452	255.532	223.728	203.914	189.919	180.023	173.477	170.083	167.504	166.292
55	244.754	212.862	189.676	173.477	163.537	157.079	152.914	150.864	149.718	149.277
60	197.875	174.425	157.696	146.346	138.918	134.510	132.527	131.402	131.050	131.513
65	155.051	138.676	127.171	120.052	115.423	112.580	111.633	111.126	111.324	111.346
70	116.680	105.836	98.387	94.463	91.444	89.857	89.482	89.504	89.835	90.011
75	79.741	74.032	70.175	68.456	67.288	67.244	67.442	67.905	68.170	68.500
80	46.174	44.521	43.926	43.970	43.904	45.028	45.513	46.108	46.989	47.717
85	19.616	20.740	22.128	22.789	22.415	22.327	21.996	21.753	21.467	21.864
90	2.557	2.557	2.380	2.557	2.557	2.755	2.931	2.931	2.931	2.931
95	59.133	60.654	66.561	77.294	88.358	101.979	114.961	120.889	127.193	138.521
100	171.427	176.210	185.246	198.360	219.342	249.867	279.688	303.381	318.214	329.983
105	292.801	298.311	313.497	339.791	379.463	425.636	470.025	508.683	537.644	554.306
110	420.435	434.386	457.418	494.511	549.678	613.439	675.107	724.675	752.137	801.595
115	546.680	566.141	598.849	645.662	702.944	773.207	875.186	951.841	1004.737	1039.715
120	669.156	694.502	735.541	791.875	868.023	963.611	1058.890	1145.992	1216.057	1272.457
125	761.107	799.369	855.240	921.955	1016.220	1115.599	1221.876	1327.205	1403.022	1462.332
130	882.900	916.533	967.843	1043.374	1139.622	1248.808	1362.689	1463.456	1554.173	1625.538
135	980.229	1015.669	1074.031	1151.215	1245.745	1355.173	1466.453	1581.568	1668.097	1752.356

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

140	1067.662	1104.160	1164.043	1237.744	1331.701	1435.972	1548.046	1652.295	1750.461	1826.719
145	1149.540	1188.573	1241.667	1310.322	1395.308	1492.990	1591.178	1691.658	1782.639	1860.881
150	1223.198	1262.099	1304.944	1368.816	1438.992	1522.303	1607.906	1692.738	1775.410	1852.286
155	1291.456	1321.452	1361.036	1405.799	1467.335	1531.295	1599.002	1667.590	1736.443	1803.577
160	1350.567	1367.516	1401.281	1436.237	1472.272	1521.421	1572.554	1622.166	1669.772	1718.481
165	1398.813	1410.714	1424.225	1450.320	1476.812	1503.547	1530.414	1562.482	1597.018	1627.941
170	1430.991	1439.014	1447.323	1455.874	1464.778	1481.639	1498.566	1515.052	1530.965	1546.194
175	1451.136	1455.037	1458.850	1462.618	1466.321	1469.914	1473.396	1476.702	1479.854	1482.785
180	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	957.528	957.528	957.528	957.528	957.528	957.528	957.528
5	721.149	710.481	701.665	694.789	685.797	686.039	686.304
10	544.035	528.806	516.177	506.281	499.206	493.542	493.762
15	418.055	404.522	393.480	384.135	377.259	371.727	371.881
20	334.964	324.803	316.318	309.816	304.637	300.317	300.515
25	280.746	274.089	268.337	263.598	260.336	258.132	257.692
30	245.041	240.567	236.776	233.778	231.729	230.406	230.230
35	219.496	216.323	213.986	212.576	211.452	210.901	210.835
40	199.506	197.258	195.649	194.922	194.812	194.900	195.098
45	181.852	180.486	179.736	179.295	180.023	180.353	180.441
50	165.366	164.815	164.110	163.757	164.330	165.080	165.454
55	149.034	148.572	148.285	147.778	148.021	148.285	148.616
60	130.874	130.918	131.160	130.521	130.345	130.367	130.675
65	111.368	111.478	111.765	111.941	111.434	111.104	111.633
70	90.606	90.893	91.312	91.819	91.135	90.871	91.135
75	69.294	69.867	70.308	70.418	70.065	69.889	70.286
80	48.488	49.061	49.083	48.819	48.973	47.518	48.686
85	21.864	21.136	20.607	19.836	18.690	17.059	15.009
90	2.931	2.931	2.931	2.931	3.108	3.108	3.130
95	131.601	125.055	121.484	115.203	106.343	100.546	71.013
100	335.449	336.970	334.854	329.123	324.385	316.098	306.356
105	569.249	572.930	568.919	565.568	561.866	553.248	546.107
110	801.022	815.304	822.180	821.034	819.249	810.697	805.981
115	1065.921	1081.349	1084.368	1087.189	1083.090	1080.357	1077.205
120	1302.101	1321.893	1336.528	1339.635	1340.208	1341.398	1338.930
125	1512.561	1536.386	1559.749	1568.433	1574.802	1579.717	1579.761
130	1678.346	1716.012	1742.416	1758.197	1770.561	1779.862	1781.074
135	1804.657	1855.349	1884.442	1907.386	1923.717	1935.024	1936.633
140	1892.178	1947.432	1981.705	2008.880	2029.950	2043.901	2049.742
145	1937.052	1986.774	2027.482	2061.688	2085.116	2101.227	2109.052
150	1919.596	1972.117	2017.101	2053.114	2081.149	2096.709	2105.746
155	1856.936	1907.496	1951.157	1985.892	2014.059	2027.327	2035.460
160	1764.941	1804.349	1839.084	1869.874	1888.740	1903.198	1907.716
165	1656.945	1683.768	1708.166	1724.410	1736.201	1746.383	1749.601
170	1560.763	1570.725	1579.364	1586.638	1592.456	1597.569	1599.531
175	1485.496	1487.942	1490.146	1492.064	1494.334	1495.127	1495.943
180	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436	1452.436

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PHOTOMETRIC FILENAME : VODE_107_DB_HO_35_G1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	395.24	N.A.	4.40
0-30	899.05	N.A.	10.00
0-40	1526.23	N.A.	17.00
0-60	2632.41	N.A.	29.20
0-80	3068.44	N.A.	34.10
0-90	3093.41	N.A.	34.40
10-90	2998.89	N.A.	33.30
20-40	1130.98	N.A.	12.60
20-50	1748.68	N.A.	19.40
40-70	1409.18	N.A.	15.70
60-80	436.03	N.A.	4.80
70-80	133.04	N.A.	1.50
80-90	24.97	N.A.	0.30
90-110	567.92	N.A.	6.30
90-120	1382.45	N.A.	15.40
90-130	2447.4	N.A.	27.20
90-150	4580.22	N.A.	50.90
90-180	5908.02	N.A.	65.60
110-180	5340.1	N.A.	59.30
0-180	9001.43	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.53
10-20	300.72
20-30	503.81
30-40	627.18
40-50	617.69
50-60	488.49
60-70	303.00
70-80	133.04
80-90	24.97
90-100	114.37
100-110	453.55
110-120	814.52
120-130	1064.95
130-140	1127.11
140-150	1005.71
150-160	749.05
160-170	437.97
170-180	140.78

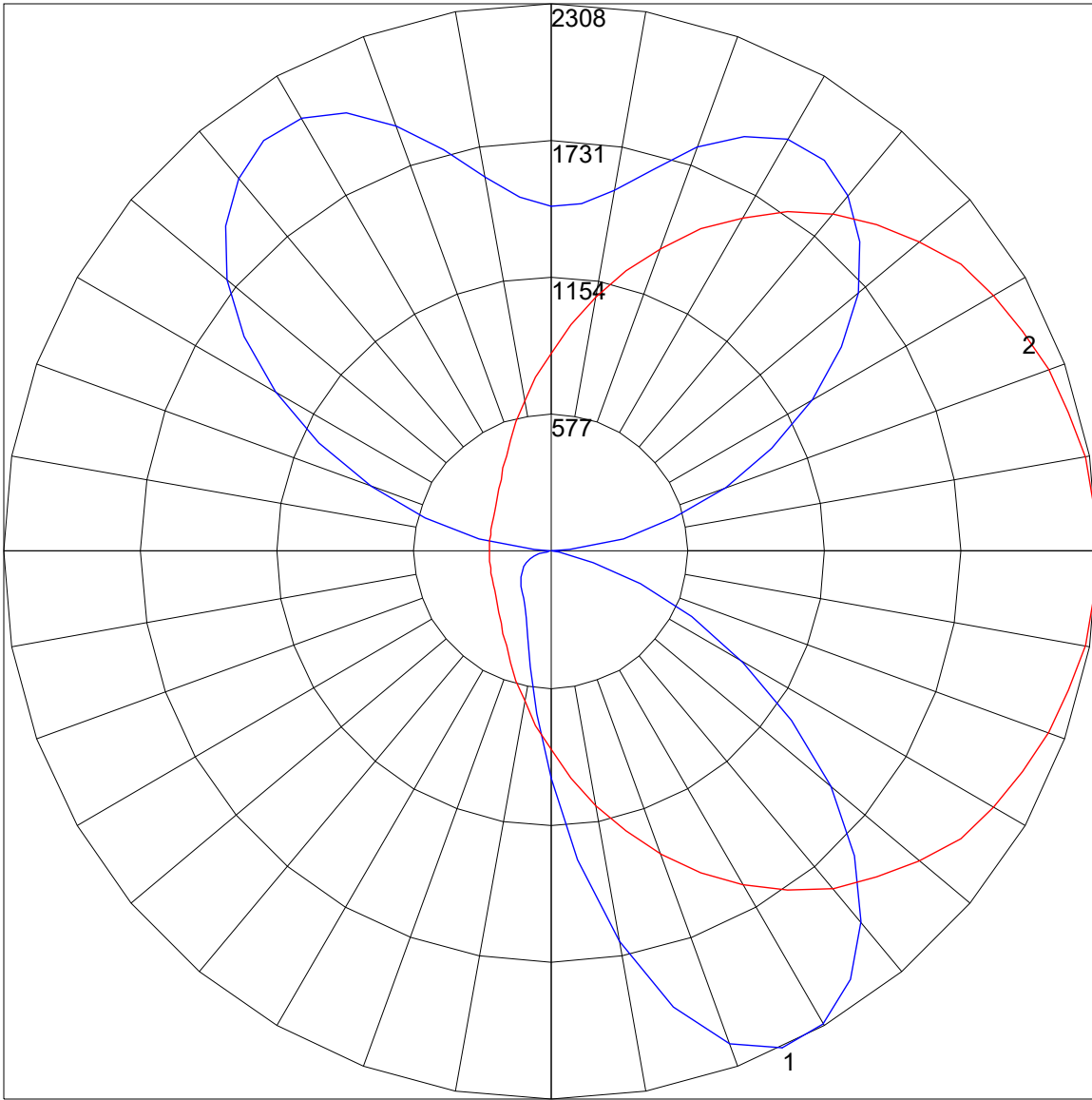
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_35_G1A1.IES

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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	34
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	30	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	62	54	48	65	56	49	44	45	41	37	35	32	30	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	32	28	26	24	21	19	16
6	61	49	41	36	55	45	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 2308.161 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)