

IES Report

DoubleBox™ | 107 | 120° 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	75	78	79	81
Total Lumens, 4' rail length (1219mm)	7372	7605	7760	7915
Lumens per foot (305mm)	1843	1901	1940	1979
Lumens per foot UP (305mm)	1210	1248	1273	1299
Lumens per foot DOWN (305mm)	633	653	667	680
Input Power (W), 4' rail length (1219mm)	98.44	98.44	98.44	98.44
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	96	96	96	96

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] 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-359-G1A1
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 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	7760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	21736	22703	21033
55	13994	14366	16843
65	7192	7475	13483
75	2057	2905	9897
85	38	175	4417

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	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455
5	1123.014	1121.456	1117.656	1111.633	1103.425	1093.108	1080.758	1066.489	1050.396	1032.593
10	1439.801	1436.343	1428.059	1415.006	1397.298	1375.125	1348.620	1316.244	1280.296	1241.004
15	1714.332	1709.221	1697.783	1680.113	1655.679	1622.467	1584.087	1540.900	1493.305	1438.946
20	1903.971	1897.815	1885.750	1866.446	1836.521	1802.055	1762.307	1714.560	1664.229	1593.682
25	1989.794	1983.144	1973.188	1951.832	1926.505	1894.300	1857.402	1820.276	1750.622	1675.002
30	1981.586	1975.430	1966.329	1948.127	1925.897	1899.221	1868.137	1818.718	1758.526	1693.280
35	1897.967	1891.735	1881.608	1868.726	1846.572	1822.955	1794.474	1740.837	1690.601	1623.322
40	1753.776	1747.981	1736.505	1721.324	1703.483	1681.538	1644.013	1602.935	1553.440	1486.142
45	1562.560	1557.202	1546.277	1530.621	1513.350	1487.814	1449.909	1416.317	1357.759	1303.685
50	1328.100	1320.728	1311.684	1300.170	1284.571	1259.016	1225.006	1184.764	1135.554	1076.559
55	1069.054	1061.720	1056.438	1049.864	1032.346	1002.383	976.619	937.460	904.590	856.691
60	806.835	802.427	796.841	770.317	743.603	724.603	704.007	685.178	664.430	626.506
65	565.136	562.495	535.325	509.390	498.712	493.525	485.716	473.081	460.845	448.723
70	346.788	333.298	309.510	308.674	312.626	313.044	310.270	300.599	295.659	290.206
75	161.234	142.272	148.941	151.411	153.748	159.144	159.258	161.158	167.827	170.259
80	31.236	36.100	34.162	36.347	38.874	41.667	43.890	50.996	56.772	67.450
85	2.850	5.054	4.313	4.028	3.800	4.351	3.743	4.864	7.524	9.671
90	1.862	1.900	2.052	2.052	2.052	2.052	2.052	2.052	2.052	2.052
95	70.680	73.131	66.386	63.859	63.213	64.771	66.310	69.160	72.884	73.321
100	269.477	222.794	226.271	221.920	220.096	216.315	211.907	216.885	208.088	205.238
105	459.420	394.288	405.175	396.739	398.620	394.535	389.405	385.624	384.066	372.571
110	676.514	652.859	601.008	592.534	597.493	597.227	592.876	582.065	570.171	544.806
115	889.504	888.858	847.419	811.965	796.385	793.307	786.030	773.395	756.770	730.835
120	1097.763	1095.350	1088.662	1062.309	1030.142	1012.225	996.645	982.737	953.078	910.575
125	1291.183	1287.592	1282.139	1274.843	1263.424	1236.083	1219.648	1174.257	1133.027	1073.291
130	1459.998	1455.533	1446.983	1435.165	1421.618	1399.369	1367.658	1323.673	1264.450	1189.723
135	1592.219	1587.963	1577.722	1562.484	1542.591	1517.986	1475.217	1431.517	1361.008	1289.473
140	1683.096	1677.833	1664.799	1646.274	1623.265	1594.423	1548.557	1493.761	1429.769	1348.088
145	1731.356	1724.877	1710.760	1690.240	1661.208	1627.065	1585.778	1521.938	1455.837	1381.300
150	1725.371	1717.961	1704.794	1680.892	1650.378	1612.929	1569.571	1514.870	1452.664	1385.480
155	1661.626	1655.071	1644.431	1621.745	1593.948	1559.349	1519.202	1476.585	1423.746	1369.843
160	1559.710	1554.143	1544.719	1529.918	1506.073	1479.340	1449.111	1413.087	1375.524	1340.203
165	1436.343	1432.448	1426.102	1417.381	1405.544	1388.140	1369.007	1348.335	1326.314	1301.063
170	1330.323	1328.100	1324.908	1320.785	1315.750	1309.898	1303.210	1293.463	1283.241	1272.544
175	1265.305	1264.526	1263.633	1262.664	1261.619	1260.517	1259.358	1258.142	1256.888	1255.615
180	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100

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	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455
5	1013.251	992.484	970.463	947.359	923.343	898.586	873.297	847.647	821.826	801.572
10	1198.691	1153.661	1106.351	1059.934	1011.959	962.787	912.741	862.144	811.414	771.647
15	1377.006	1307.428	1235.285	1161.052	1080.397	1012.548	939.550	866.115	792.946	734.863
20	1512.951	1427.907	1341.001	1242.315	1142.660	1037.875	948.366	854.677	762.033	689.130
25	1599.401	1504.154	1396.234	1290.176	1171.901	1052.923	937.916	827.735	719.739	635.531
30	1609.319	1513.331	1408.413	1283.982	1163.674	1030.674	901.911	781.470	665.000	574.389
35	1544.985	1462.088	1347.936	1230.193	1099.796	968.335	835.582	713.659	597.797	506.863
40	1413.904	1328.062	1229.433	1117.485	994.403	873.031	737.276	620.445	519.213	435.100
45	1228.027	1153.490	1065.292	963.224	855.741	727.681	625.860	534.945	440.344	367.042
50	1019.882	955.966	874.570	786.372	707.313	611.325	525.464	442.149	362.558	303.031
55	795.625	733.343	677.825	617.196	557.574	490.067	421.477	354.103	292.505	247.190
60	602.015	570.133	528.238	481.574	430.103	377.777	326.135	275.804	232.560	197.201

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CANDELA TABULATION - (Cont.)

65	433.827	408.158	381.539	349.942	316.635	281.371	243.561	208.069	178.904	152.532
70	281.428	274.170	260.984	241.072	220.210	197.296	173.755	151.829	131.423	113.164
75	165.433	166.022	168.625	159.239	148.219	131.784	112.803	97.299	86.773	76.760
80	70.566	76.589	82.384	76.494	72.200	65.569	59.356	53.105	47.481	43.358
85	11.248	14.877	16.910	16.929	20.577	20.558	18.791	18.050	17.670	17.404
90	2.052	1.900	1.900	1.900	1.900	1.729	1.729	1.900	1.729	2.052
95	73.606	67.678	63.308	57.988	51.262	50.407	47.842	46.436	49.077	50.046
100	204.079	190.057	177.023	163.305	154.736	149.872	145.711	142.367	145.939	145.008
105	352.184	328.814	303.924	275.272	255.721	247.076	245.385	240.008	240.749	246.677
110	516.553	481.878	440.800	400.596	376.257	363.888	353.894	350.151	351.196	354.198
115	688.180	633.536	577.885	528.048	493.753	473.556	460.560	455.753	459.743	463.144
120	854.810	776.549	706.515	648.812	603.326	577.296	566.295	560.500	558.828	563.236
125	990.147	904.685	823.764	755.687	698.725	666.007	650.427	642.219	639.749	643.644
130	1107.035	1015.341	929.898	856.596	799.102	765.814	746.263	737.029	736.307	744.021
135	1194.625	1104.850	1019.407	946.523	888.991	850.155	830.509	820.230	816.924	826.044
140	1262.892	1174.162	1092.709	1020.528	967.005	926.041	905.236	893.988	890.131	900.638
145	1301.481	1224.949	1150.108	1085.565	1035.215	998.583	974.168	964.459	961.286	972.648
150	1318.524	1252.176	1189.077	1137.682	1090.980	1061.967	1035.994	1029.857	1027.406	1039.091
155	1316.149	1264.735	1217.596	1172.642	1141.843	1115.509	1097.497	1090.961	1087.199	1098.827
160	1303.286	1265.134	1228.901	1203.840	1179.881	1156.226	1149.709	1143.971	1140.209	1151.267
165	1277.826	1259.016	1240.434	1222.175	1203.365	1198.387	1193.979	1190.122	1187.367	1196.088
170	1261.448	1250.048	1238.629	1234.867	1231.390	1228.217	1225.367	1222.764	1220.674	1226.887
175	1254.323	1253.031	1251.739	1250.447	1249.174	1247.939	1246.685	1245.583	1244.481	1247.730
180	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100

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	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455	825.455
5	781.508	761.786	742.520	723.881	705.983	688.997	673.037	658.217	644.651	632.434
10	732.355	693.728	656.070	619.628	583.775	561.013	539.087	518.757	500.213	483.569
15	677.673	621.471	567.739	530.670	495.083	461.263	429.400	406.258	389.576	374.053
20	617.652	548.169	499.776	452.770	407.341	378.993	353.856	330.106	309.472	298.414
25	553.280	486.970	431.091	379.677	347.624	316.559	292.296	275.994	261.060	248.767
30	485.564	424.802	364.420	327.313	292.353	269.553	250.344	234.954	225.910	217.341
35	424.612	363.812	314.564	278.179	251.921	231.591	217.398	206.815	198.987	193.800
40	363.964	307.610	269.344	237.538	217.075	201.989	190.855	183.882	178.011	174.667
45	307.933	260.832	228.266	205.067	187.454	176.719	169.195	163.514	160.607	158.308
50	256.424	220.286	192.869	175.788	163.723	155.192	149.549	146.623	144.400	143.355
55	210.995	183.502	163.514	149.549	140.980	135.413	131.822	130.055	129.067	128.687
60	170.582	150.366	135.945	126.160	119.757	115.957	114.247	113.278	112.974	113.373
65	133.665	119.548	109.630	103.493	99.503	97.052	96.235	95.798	95.969	95.988
70	100.586	91.238	84.816	81.434	78.831	77.463	77.140	77.159	77.444	77.596
75	68.742	63.821	60.496	59.014	58.007	57.969	58.140	58.539	58.767	59.052
80	39.805	38.380	37.867	37.905	37.848	38.817	39.235	39.748	40.508	41.135
85	16.910	17.879	19.076	19.646	19.323	19.247	18.962	18.753	18.506	18.848
90	2.204	2.204	2.052	2.204	2.204	2.375	2.527	2.527	2.527	2.527
95	50.977	52.288	57.380	66.633	76.171	87.913	99.104	104.215	109.649	119.415
100	147.782	151.905	159.695	171.000	189.088	215.403	241.110	261.535	274.322	284.468
105	252.415	257.165	270.256	292.923	327.123	366.928	405.194	438.520	463.486	477.850
110	362.444	374.471	394.326	426.303	473.860	528.827	581.989	624.720	648.394	691.030
115	471.276	488.053	516.249	556.605	605.986	666.558	754.471	820.553	866.153	896.306
120	576.859	598.709	634.087	682.651	748.296	830.699	912.836	987.924	1048.325	1096.946
125	656.127	689.111	737.276	794.789	876.052	961.723	1053.341	1144.142	1209.502	1260.631
130	761.121	790.115	834.347	899.460	982.433	1076.559	1174.732	1261.600	1339.804	1401.326
135	845.025	875.577	925.889	992.427	1073.918	1168.253	1264.184	1363.421	1438.015	1510.652

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CANDELA TABULATION - (Cont.)

140	920.398	951.862	1003.485	1067.021	1148.018	1237.907	1334.522	1424.392	1509.018	1574.758
145	990.983	1024.632	1070.403	1129.588	1202.852	1287.060	1371.705	1458.326	1536.758	1604.208
150	1054.481	1088.016	1124.952	1180.014	1240.510	1312.330	1386.126	1459.257	1530.526	1596.798
155	1113.324	1139.183	1173.307	1211.896	1264.944	1320.082	1378.450	1437.578	1496.934	1554.808
160	1164.282	1178.893	1208.001	1238.135	1269.200	1311.570	1355.650	1398.419	1439.459	1481.449
165	1205.873	1216.133	1227.780	1250.276	1273.114	1296.161	1319.322	1346.967	1376.740	1403.397
170	1233.613	1240.529	1247.692	1255.064	1262.740	1277.275	1291.867	1306.079	1319.797	1332.926
175	1250.979	1254.342	1257.629	1260.878	1264.070	1267.167	1270.169	1273.019	1275.736	1278.263
180	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	825.455	825.455	825.455	825.455	825.455	825.455	825.455
5	621.680	612.484	604.884	598.956	591.204	591.413	591.641
10	468.996	455.867	444.980	436.449	430.350	425.467	425.657
15	360.392	348.726	339.207	331.151	325.223	320.454	320.587
20	288.762	280.003	272.688	267.083	262.618	258.894	259.065
25	242.022	236.284	231.325	227.240	224.428	222.528	222.148
30	211.242	207.385	204.117	201.533	199.766	198.626	198.474
35	189.221	186.485	184.471	183.255	182.286	181.811	181.754
40	171.988	170.050	168.663	168.036	167.941	168.017	168.188
45	156.769	155.591	154.945	154.565	155.192	155.477	155.553
50	142.557	142.082	141.474	141.170	141.664	142.310	142.633
55	128.478	128.079	127.832	127.395	127.604	127.832	128.117
60	112.822	112.860	113.069	112.518	112.366	112.385	112.651
65	96.007	96.102	96.349	96.501	96.064	95.779	96.235
70	78.109	78.356	78.717	79.154	78.565	78.337	78.565
75	59.736	60.230	60.610	60.705	60.401	60.249	60.591
80	41.800	42.294	42.313	42.085	42.218	40.964	41.971
85	18.848	18.221	17.765	17.100	16.112	14.706	12.939
90	2.527	2.527	2.527	2.527	2.679	2.679	2.698
95	113.449	107.806	104.728	99.313	91.675	86.678	61.218
100	289.180	290.491	288.667	283.727	279.642	272.498	264.100
105	490.732	493.905	490.447	487.559	484.367	476.938	470.782
110	690.536	702.848	708.776	707.788	706.249	698.877	694.811
115	918.897	932.197	934.800	937.232	933.698	931.342	928.625
120	1122.501	1139.563	1152.179	1154.858	1155.352	1156.378	1154.250
125	1303.932	1324.471	1344.611	1352.097	1357.588	1361.825	1361.863
130	1446.850	1479.321	1502.083	1515.687	1526.346	1534.364	1535.409
135	1555.739	1599.439	1624.519	1644.298	1658.377	1668.124	1669.511
140	1631.188	1678.821	1708.366	1731.793	1749.957	1761.984	1767.019
145	1669.872	1712.736	1747.829	1777.317	1797.514	1811.403	1818.148
150	1654.824	1700.101	1738.880	1769.926	1794.094	1807.508	1815.298
155	1600.807	1644.393	1682.032	1711.976	1736.258	1747.696	1754.707
160	1521.501	1555.473	1585.417	1611.960	1628.224	1640.688	1644.583
165	1428.401	1451.524	1472.557	1486.560	1496.725	1505.503	1508.277
170	1345.485	1354.073	1361.521	1367.791	1372.807	1377.215	1378.906
175	1280.600	1282.709	1284.609	1286.262	1288.219	1288.903	1289.606
180	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100	1252.100

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	340.73	N.A.	4.40
0-30	775.04	N.A.	10.00
0-40	1315.71	N.A.	17.00
0-60	2269.32	N.A.	29.20
0-80	2645.21	N.A.	34.10
0-90	2666.74	N.A.	34.40
10-90	2585.25	N.A.	33.30
20-40	974.98	N.A.	12.60
20-50	1507.48	N.A.	19.40
40-70	1214.81	N.A.	15.70
60-80	375.89	N.A.	4.80
70-80	114.69	N.A.	1.50
80-90	21.53	N.A.	0.30
90-110	489.59	N.A.	6.30
90-120	1191.76	N.A.	15.40
90-130	2109.83	N.A.	27.20
90-150	3948.47	N.A.	50.90
90-180	5093.12	N.A.	65.60
110-180	4603.53	N.A.	59.30
0-180	7759.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.49
10-20	259.24
20-30	434.32
30-40	540.67
40-50	532.49
50-60	421.11
60-70	261.21
70-80	114.69
80-90	21.53
90-100	98.59
100-110	391.00
110-120	702.18
120-130	918.06
130-140	971.65
140-150	866.99
150-160	645.74
160-170	377.56
170-180	121.36

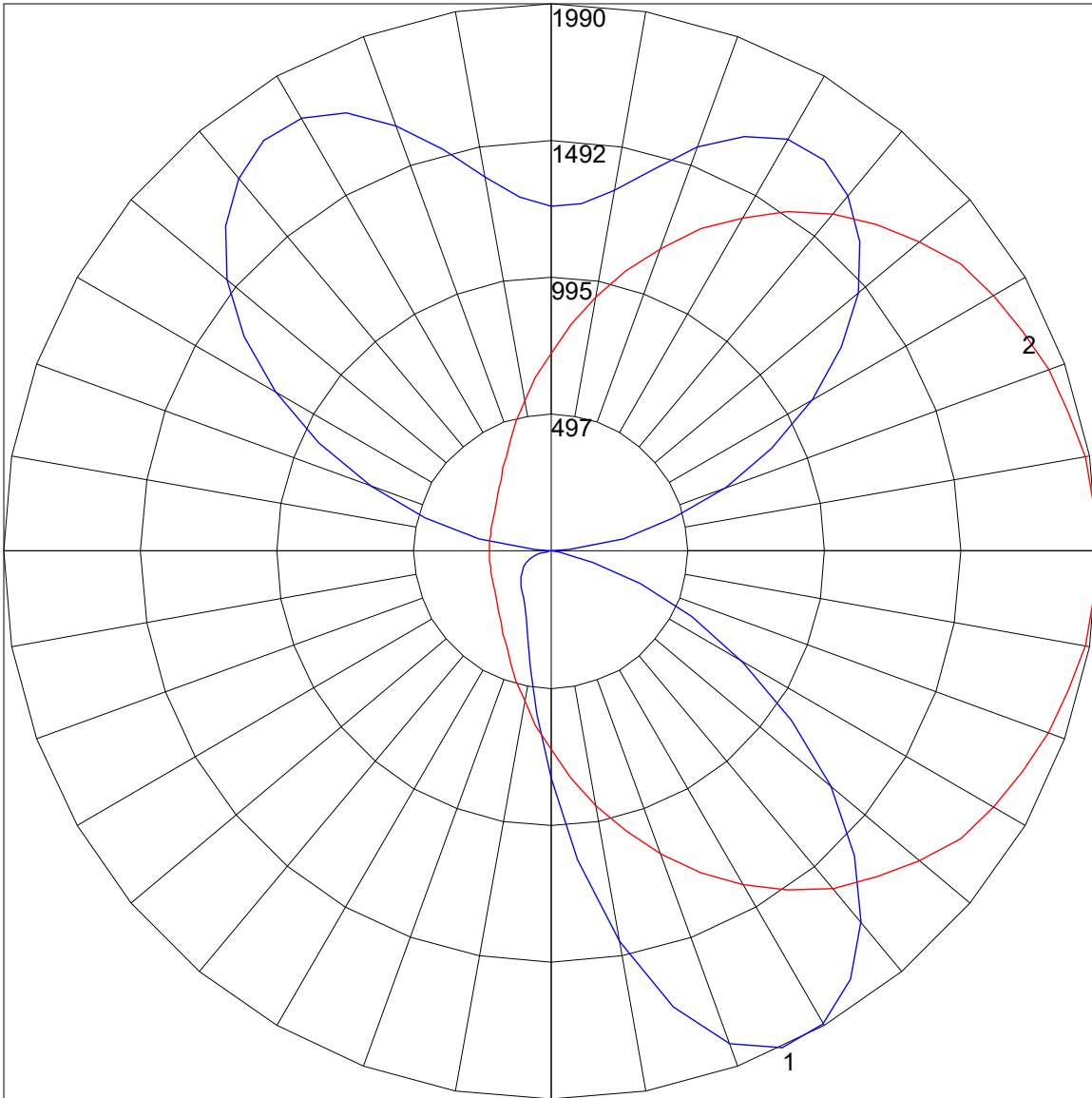
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G1A1.IES

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	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 = 1989.794 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.)