

## 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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	78	78
Total Lumens, 4' rail length (1219mm)	7180	7407	7558	7634
Lumens per foot (305mm)	1795	1852	1890	1908
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	578	597	609	615
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\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911514 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

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

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

[MORE] 85° asymmetric lens down, high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7557
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	16927	16750	25443
55	10196	9377	15250
65	4864	4562	9567
75	1094	1682	6134
85	0	6	2700

**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>	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628
<b>5</b>	1628.338	1629.611	1629.611	1625.944	1618.781	1612.245	1603.163	1594.252	1584.543	1573.219
<b>10</b>	1771.674	1771.826	1771.826	1763.865	1754.156	1743.003	1730.102	1715.130	1697.460	1678.669
<b>15</b>	1831.562	1830.289	1828.693	1820.257	1810.377	1797.951	1782.181	1764.815	1742.851	1719.120
<b>20</b>	1824.874	1823.905	1821.207	1813.569	1802.568	1789.040	1772.472	1752.408	1728.677	1701.431
<b>25</b>	1772.624	1770.401	1765.784	1758.127	1745.872	1730.102	1712.432	1689.176	1661.303	1630.238
<b>30</b>	1674.204	1672.931	1667.839	1658.282	1643.785	1626.096	1602.859	1574.815	1541.527	1505.389
<b>35</b>	1547.113	1545.194	1538.183	1526.555	1509.531	1486.902	1459.352	1424.791	1384.663	1341.647
<b>40</b>	1384.017	1381.471	1373.358	1360.457	1340.222	1312.824	1279.536	1239.883	1195.290	1146.403
<b>45</b>	1196.715	1194.017	1185.258	1171.407	1150.374	1120.430	1082.050	1037.932	989.843	935.522
<b>50</b>	986.499	984.105	977.094	964.193	943.483	913.862	877.078	832.162	781.679	730.550
<b>55</b>	772.445	770.849	764.636	754.452	736.288	710.334	677.521	639.768	594.700	549.157
<b>60</b>	569.544	568.423	564.604	557.270	544.692	524.780	499.301	467.609	431.775	395.770
<b>65</b>	381.919	381.444	380.000	376.979	370.291	358.511	342.266	320.929	296.400	271.396
<b>70</b>	220.115	220.419	221.388	222.661	222.186	218.994	212.306	201.951	188.727	174.401
<b>75</b>	86.317	86.963	89.661	93.974	98.914	103.037	105.754	105.906	103.208	98.591
<b>80</b>	7.011	7.163	7.961	9.557	12.103	15.922	21.033	27.398	33.440	37.905
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.323
<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>	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628
<b>5</b>	1562.085	1548.215	1533.889	1523.705	1504.743	1485.306	1468.434	1534.687	1516.219	1497.903
<b>10</b>	1656.838	1632.309	1605.709	1580.401	1546.638	1511.583	1475.749	1518.442	1480.385	1439.763
<b>15</b>	1690.924	1658.909	1623.075	1585.816	1542.173	1491.994	1442.157	1463.646	1410.142	1352.971
<b>20</b>	1669.587	1633.107	1592.504	1549.488	1496.630	1438.490	1377.329	1378.279	1311.399	1235.589
<b>25</b>	1594.252	1552.851	1506.966	1459.352	1402.979	1336.080	1267.281	1250.390	1173.953	1092.728
<b>30</b>	1465.090	1419.224	1368.247	1314.268	1255.330	1188.450	1117.561	1088.263	1006.392	924.388
<b>35</b>	1295.154	1243.379	1188.754	1130.785	1071.543	1005.613	933.774	897.617	821.978	743.299
<b>40</b>	1092.082	1036.184	979.811	922.792	865.450	804.764	741.057	705.223	640.414	570.494
<b>45</b>	879.472	825.151	770.051	716.376	662.378	615.087	561.412	527.174	474.297	416.157
<b>50</b>	677.350	629.413	579.728	533.216	490.371	449.122	407.246	377.625	337.478	294.956
<b>55</b>	503.120	460.921	419.672	383.667	349.277	317.889	293.360	265.183	235.714	204.820
<b>60</b>	359.936	326.344	296.552	269.800	245.594	222.490	201.001	185.060	164.521	143.507

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	247.190	222.965	202.426	184.110	167.067	151.468	139.840	126.464	112.917	99.218
<b>70</b>	159.904	145.084	132.183	120.574	110.048	100.491	93.328	84.721	75.962	67.051
<b>75</b>	92.378	85.519	79.154	72.941	67.203	61.788	57.969	53.029	47.785	42.522
<b>80</b>	39.976	39.824	38.380	36.632	34.238	32.015	30.571	28.519	25.954	23.256
<b>85</b>	1.121	3.192	6.536	9.557	10.507	10.678	10.507	10.203	9.557	8.911
<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>	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628
<b>5</b>	1480.689	1463.171	1446.603	1429.731	1414.284	1400.433	1385.936	1373.833	1361.559	1348.981
<b>10</b>	1402.010	1363.630	1324.775	1287.820	1250.086	1215.829	1183.985	1152.616	1124.097	1097.345
<b>15</b>	1296.750	1238.287	1179.843	1124.572	1067.724	1016.272	967.537	920.873	879.776	841.567
<b>20</b>	1164.225	1089.384	1014.676	944.604	872.461	810.027	751.583	696.939	649.496	606.955
<b>25</b>	1011.503	926.459	841.719	764.484	685.634	618.431	558.391	503.120	456.931	414.884
<b>30</b>	838.850	756.200	671.783	594.054	519.517	456.304	401.185	352.146	311.372	277.115
<b>35</b>	666.843	584.668	507.414	438.463	372.837	319.656	274.569	235.239	204.649	179.968
<b>40</b>	502.797	431.775	369.341	313.120	261.193	220.267	186.504	158.308	135.527	119.130
<b>45</b>	362.178	308.332	260.718	218.519	180.291	150.347	129.010	107.502	92.701	80.902
<b>50</b>	255.303	216.448	182.039	151.145	129.637	105.906	89.509	76.133	66.253	58.444
<b>55</b>	176.624	150.347	131.556	105.431	88.711	75.012	64.030	55.271	48.887	43.795
<b>60</b>	123.918	106.229	89.832	76.285	64.353	55.423	48.108	42.370	38.057	34.713
<b>65</b>	86.488	74.537	63.859	54.948	47.139	41.249	36.632	32.813	29.944	27.550
<b>70</b>	59.090	51.452	44.764	39.026	34.409	30.571	27.398	25.004	22.933	21.337
<b>75</b>	38.057	33.611	29.621	26.448	23.579	21.337	19.437	17.993	16.720	15.618
<b>80</b>	21.033	18.962	17.043	15.618	14.174	13.224	12.103	11.305	10.678	10.203
<b>85</b>	8.284	7.638	7.163	6.840	6.365	6.061	5.738	4.940	4.617	4.142
<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. Horizontal Angles**  
**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>	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628	1493.628
<b>5</b>	1338.797	1327.967	1321.108	1318.410	1314.572	1459.998	1462.373
<b>10</b>	1073.614	1052.106	1034.588	1024.556	1016.747	1156.112	1158.183
<b>15</b>	808.279	778.962	755.402	741.703	729.125	845.538	847.286
<b>20</b>	569.696	538.479	513.627	497.553	484.652	569.696	570.494
<b>25</b>	382.394	354.692	332.861	318.687	307.857	361.532	362.178
<b>30</b>	250.686	228.874	211.660	200.830	192.394	225.036	224.884
<b>35</b>	160.379	144.134	132.183	125.495	119.605	138.396	138.567
<b>40</b>	105.431	95.399	87.286	82.498	79.002	89.984	90.136
<b>45</b>	71.991	65.455	60.363	57.171	55.100	61.636	61.484
<b>50</b>	52.725	48.412	44.916	42.845	41.401	45.391	45.239
<b>55</b>	39.976	37.107	34.884	33.440	32.490	35.036	35.036
<b>60</b>	32.015	29.944	28.519	27.398	26.600	28.196	28.348
<b>65</b>	25.802	24.206	23.085	22.306	21.660	22.781	22.610
<b>70</b>	20.064	18.962	18.164	17.518	17.043	17.841	17.841
<b>75</b>	14.820	14.022	13.547	13.053	12.749	13.224	13.053
<b>80</b>	9.709	9.234	8.759	8.759	8.436	8.607	8.607
<b>85</b>	3.667	3.496	3.344	3.192	3.021	3.192	3.192
<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\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	512.62	N.A.	6.80
0-30	1010.38	N.A.	13.40
0-40	1513.82	N.A.	20.00
0-60	2208.84	N.A.	29.20
0-80	2425.04	N.A.	32.10
0-90	2435.41	N.A.	32.20
10-90	2295.81	N.A.	30.40
20-40	1001.2	N.A.	13.20
20-50	1414.67	N.A.	18.70
40-70	851.93	N.A.	11.30
60-80	216.20	N.A.	2.90
70-80	59.29	N.A.	0.80
80-90	10.37	N.A.	0.10
90-110	513.74	N.A.	6.80
90-120	1333.11	N.A.	17.60
90-130	2355.04	N.A.	31.20
90-150	4120.00	N.A.	54.50
90-180	5122.00	N.A.	67.80
110-180	4608.27	N.A.	61.00
0-180	7557.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.60
10-20	373.02
20-30	497.76
30-40	503.44
40-50	413.47
50-60	281.55
60-70	156.90
70-80	59.29
80-90	10.37
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

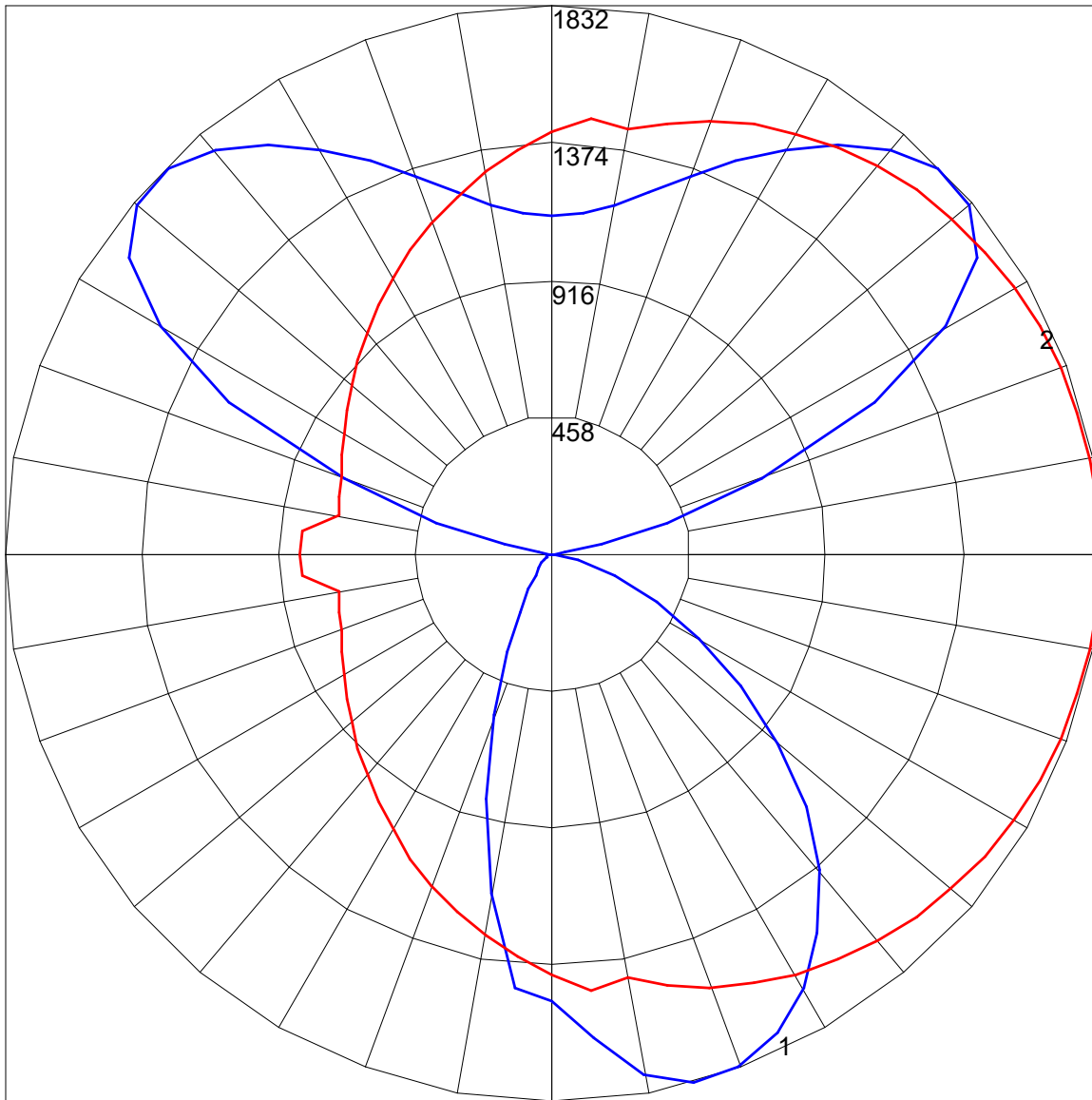
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G1A1\_BL.IES**

**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	73	73	73	56	56	56	40	40	40	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	36	35	29
2	87	80	74	70	78	72	68	64	58	55	52	45	43	41	33	32	30	25
3	79	71	64	59	71	64	58	54	52	48	44	40	38	35	30	28	27	22
4	73	63	56	50	66	57	51	46	46	42	38	36	33	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	34	33	30	27	25	23	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	27	24	22	20	19	16
7	57	46	38	33	52	42	35	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	27	31	27	23	25	22	19	19	17	15	13
9	50	38	31	26	45	35	29	25	29	24	21	23	20	18	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	21	18	16	17	14	13	11

POLAR GRAPH



Maximum Candela = 1831.562 Located At Horizontal Angle = 0, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)