

## IES Report

DoubleBox™ | 107 | Wide 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	85	88	90	90
Total Lumens, 4' rail length (1219mm)	8329	8592	8768	8768
Lumens per foot (305mm)	2082	2148	2192	2192
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	671	692	706	706
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	82	82	82	82

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] 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-35-G1A1-BL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 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	8751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	19600	19395	29461
55	11805	10858	17658
65	5632	5282	11078
75	1267	1947	7103
85	0	7	3126

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

**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>	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
<b>5</b>	1885.444	1886.918	1886.918	1882.672	1874.378	1866.810	1856.294	1845.976	1834.734	1821.622
<b>10</b>	2051.412	2051.588	2051.588	2042.370	2031.128	2018.214	2003.276	1985.940	1965.480	1943.722
<b>15</b>	2120.756	2119.282	2117.434	2107.666	2096.226	2081.838	2063.578	2043.470	2018.038	1990.560
<b>20</b>	2113.012	2111.890	2108.766	2099.922	2087.184	2071.520	2052.336	2029.104	2001.626	1970.078
<b>25</b>	2052.512	2049.938	2044.592	2035.726	2021.536	2003.276	1982.816	1955.888	1923.614	1887.644
<b>30</b>	1938.552	1937.078	1931.182	1920.116	1903.330	1882.848	1855.942	1823.470	1784.926	1743.082
<b>35</b>	1791.394	1789.172	1781.054	1767.590	1747.878	1721.676	1689.776	1649.758	1603.294	1553.486
<b>40</b>	1602.546	1599.598	1590.204	1575.266	1551.836	1520.112	1481.568	1435.654	1384.020	1327.414
<b>45</b>	1385.670	1382.546	1372.404	1356.366	1332.012	1297.340	1252.900	1201.816	1146.134	1083.236
<b>50</b>	1142.262	1139.490	1131.372	1116.434	1092.454	1058.156	1015.564	963.556	905.102	845.900
<b>55</b>	894.410	892.562	885.368	873.576	852.544	822.492	784.498	740.784	688.600	635.866
<b>60</b>	659.472	658.174	653.752	645.260	630.696	607.640	578.138	541.442	499.950	458.260
<b>65</b>	442.222	441.672	440.000	436.502	428.758	415.118	396.308	371.602	343.200	314.248
<b>70</b>	254.870	255.222	256.344	257.818	257.268	253.572	245.828	233.838	218.526	201.938
<b>75</b>	99.946	100.694	103.818	108.812	114.532	119.306	122.452	122.628	119.504	114.158
<b>80</b>	8.118	8.294	9.218	11.066	14.014	18.436	24.354	31.724	38.720	43.890
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.374
<b>90</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95</b>	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
<b>100</b>	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
<b>105</b>	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
<b>110</b>	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
<b>115</b>	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
<b>120</b>	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
<b>125</b>	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
<b>130</b>	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
<b>135</b>	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
<b>140</b>	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
<b>145</b>	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
<b>150</b>	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
<b>155</b>	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
<b>160</b>	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
<b>165</b>	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
<b>170</b>	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
<b>175</b>	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**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>	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
<b>5</b>	1808.730	1792.670	1776.082	1764.290	1742.334	1719.828	1700.292	1777.006	1755.622	1734.414
<b>10</b>	1918.444	1890.042	1859.242	1829.938	1790.844	1750.254	1708.762	1758.196	1714.130	1667.094
<b>15</b>	1957.912	1920.842	1879.350	1836.208	1785.674	1727.572	1669.866	1694.748	1632.796	1566.598
<b>20</b>	1933.206	1890.966	1843.952	1794.144	1732.940	1665.620	1594.802	1595.902	1518.462	1430.682
<b>25</b>	1845.976	1798.038	1744.908	1689.776	1624.502	1547.040	1467.378	1447.820	1359.314	1265.264
<b>30</b>	1696.420	1643.312	1584.286	1521.784	1453.540	1376.100	1294.018	1260.094	1165.296	1070.344
<b>35</b>	1499.652	1439.702	1376.452	1309.330	1240.734	1164.394	1081.212	1039.346	951.764	860.662
<b>40</b>	1264.516	1199.792	1134.518	1068.496	1002.100	931.832	858.066	816.574	741.532	660.572
<b>45</b>	1018.336	955.438	891.638	829.488	766.964	712.206	650.056	610.412	549.186	481.866
<b>50</b>	784.300	728.794	671.264	617.408	567.798	520.036	471.548	437.250	390.764	341.528
<b>55</b>	582.560	533.698	485.936	444.246	404.426	368.082	339.680	307.054	272.932	237.160
<b>60</b>	416.768	377.872	343.376	312.400	284.372	257.620	232.738	214.280	190.498	166.166

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

**CANDELA TABULATION - (Cont.)**

<b>65</b>	286.220	258.170	234.388	213.180	193.446	175.384	161.920	146.432	130.746	114.884
<b>70</b>	185.152	167.992	153.054	139.612	127.424	116.358	108.064	98.098	87.956	77.638
<b>75</b>	106.964	99.022	91.652	84.458	77.814	71.544	67.122	61.402	55.330	49.236
<b>80</b>	46.288	46.112	44.440	42.416	39.644	37.070	35.398	33.022	30.052	26.928
<b>85</b>	1.298	3.696	7.568	11.066	12.166	12.364	12.166	11.814	11.066	10.318
<b>90</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95</b>	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808	81.070
<b>100</b>	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356	179.608
<b>105</b>	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378	281.138
<b>110</b>	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938	389.576
<b>115</b>	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130	494.494
<b>120</b>	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526	600.358
<b>125</b>	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026	695.310
<b>130</b>	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072	772.002
<b>135</b>	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890	866.712
<b>140</b>	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528	944.812
<b>145</b>	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768	1020.052
<b>150</b>	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586	1089.264
<b>155</b>	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362	1150.446
<b>160</b>	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494	1204.126
<b>165</b>	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606	1248.654
<b>170</b>	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728	1281.368
<b>175</b>	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562	1300.992
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**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>	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
<b>5</b>	1714.482	1694.198	1675.014	1655.478	1637.592	1621.554	1604.768	1590.754	1576.542	1561.978
<b>10</b>	1623.380	1578.940	1533.950	1491.160	1447.468	1407.802	1370.930	1334.608	1301.586	1270.610
<b>15</b>	1501.500	1433.806	1366.134	1302.136	1236.312	1176.736	1120.306	1066.274	1018.688	974.446
<b>20</b>	1348.050	1261.392	1174.888	1093.752	1010.218	937.926	870.254	806.982	752.048	702.790
<b>25</b>	1171.214	1072.742	974.622	885.192	793.892	716.078	646.558	582.560	529.078	480.392
<b>30</b>	971.300	875.600	777.854	687.852	601.546	528.352	464.530	407.748	360.536	320.870
<b>35</b>	772.134	676.984	587.532	507.694	431.706	370.128	317.922	272.382	236.962	208.384
<b>40</b>	582.186	499.950	427.658	362.560	302.434	255.046	215.952	183.304	156.926	137.940
<b>45</b>	419.364	357.016	301.884	253.022	208.758	174.086	149.380	124.476	107.338	93.676
<b>50</b>	295.614	250.624	210.782	175.010	150.106	122.628	103.642	88.154	76.714	67.672
<b>55</b>	204.512	174.086	152.328	122.078	102.718	86.856	74.140	63.998	56.606	50.710
<b>60</b>	143.484	123.002	104.016	88.330	74.514	64.174	55.704	49.060	44.066	40.194
<b>65</b>	100.144	86.306	73.942	63.624	54.582	47.762	42.416	37.994	34.672	31.900
<b>70</b>	68.420	59.576	51.832	45.188	39.842	35.398	31.724	28.952	26.554	24.706
<b>75</b>	44.066	38.918	34.298	30.624	27.302	24.706	22.506	20.834	19.360	18.084
<b>80</b>	24.354	21.956	19.734	18.084	16.412	15.312	14.014	13.090	12.364	11.814
<b>85</b>	9.592	8.844	8.294	7.920	7.370	7.018	6.644	5.720	5.346	4.796
<b>90</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95</b>	84.194	85.888	85.316	91.718	114.290	117.018	94.578	93.192	87.318	79.706
<b>100</b>	185.658	201.498	219.186	239.162	268.488	289.894	291.104	291.566	290.026	272.382
<b>105</b>	292.666	315.414	347.116	389.818	446.864	495.242	536.998	552.156	555.654	541.992
<b>110</b>	403.568	431.244	469.546	526.526	602.316	676.148	743.710	818.994	873.224	895.884
<b>115</b>	511.192	542.498	587.928	654.302	741.532	843.106	956.274	1058.640	1136.234	1198.912
<b>120</b>	619.696	649.682	698.786	770.726	860.288	972.004	1100.968	1222.650	1336.324	1444.894
<b>125</b>	714.054	745.052	796.620	871.772	965.602	1078.990	1207.008	1345.718	1476.420	1592.492
<b>130</b>	795.938	833.690	889.724	964.370	1056.660	1163.822	1283.612	1411.828	1540.682	1666.016
<b>135</b>	888.096	922.482	974.534	1043.108	1125.674	1225.070	1333.046	1449.602	1565.190	1680.932

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

**CANDELA TABULATION - (Cont.)**

<b>140</b>	964.788	997.568	1046.650	1106.380	1182.764	1268.784	1360.480	1460.998	1560.746	1657.810
<b>145</b>	1036.156	1066.934	1107.986	1160.192	1224.014	1295.096	1371.282	1451.912	1533.994	1614.448
<b>150</b>	1100.616	1128.160	1158.190	1202.938	1250.524	1308.318	1367.982	1429.978	1496.000	1556.720
<b>155</b>	1160.236	1179.068	1204.302	1232.836	1272.458	1313.136	1357.576	1404.018	1449.382	1494.218
<b>160</b>	1211.606	1220.428	1240.580	1261.524	1283.238	1313.598	1345.014	1374.736	1402.874	1434.290
<b>165</b>	1253.780	1259.412	1266.166	1281.016	1296.064	1311.222	1326.358	1344.816	1364.704	1381.886
<b>170</b>	1284.492	1287.814	1291.422	1295.294	1299.518	1308.340	1317.250	1325.984	1334.454	1342.572
<b>175</b>	1302.466	1304.050	1305.612	1307.174	1308.736	1310.298	1311.816	1313.290	1314.720	1316.084
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**Vert.  
Angles**

**Horizontal Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464	1729.464
<b>5</b>	1550.186	1537.646	1529.704	1526.580	1522.136	1690.524	1693.274
<b>10</b>	1243.132	1218.228	1197.944	1186.328	1177.286	1338.656	1341.054
<b>15</b>	935.902	901.956	874.676	858.814	844.250	979.044	981.068
<b>20</b>	659.648	623.502	594.726	576.114	561.176	659.648	660.572
<b>25</b>	442.772	410.696	385.418	369.006	356.466	418.616	419.364
<b>30</b>	290.268	265.012	245.080	232.540	222.772	260.568	260.392
<b>35</b>	185.702	166.892	153.054	145.310	138.490	160.248	160.446
<b>40</b>	122.078	110.462	101.068	95.524	91.476	104.192	104.368
<b>45</b>	83.358	75.790	69.894	66.198	63.800	71.368	71.192
<b>50</b>	61.050	56.056	52.008	49.610	47.938	52.558	52.382
<b>55</b>	46.288	42.966	40.392	38.720	37.620	40.568	40.568
<b>60</b>	37.070	34.672	33.022	31.724	30.800	32.648	32.824
<b>65</b>	29.876	28.028	26.730	25.828	25.080	26.378	26.180
<b>70</b>	23.232	21.956	21.032	20.284	19.734	20.658	20.658
<b>75</b>	17.160	16.236	15.686	15.114	14.762	15.312	15.114
<b>80</b>	11.242	10.692	10.142	10.142	9.768	9.966	9.966
<b>85</b>	4.246	4.048	3.872	3.696	3.498	3.696	3.696
<b>90</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95</b>	66.374	64.702	61.336	59.334	58.014	61.490	49.984
<b>100</b>	259.182	243.562	230.010	217.294	207.416	202.642	193.072
<b>105</b>	527.560	510.444	487.872	474.056	461.956	431.662	463.430
<b>110</b>	918.522	887.788	886.204	856.680	838.420	835.560	863.984
<b>115</b>	1248.302	1283.502	1290.674	1302.466	1327.568	1376.320	1381.996
<b>120</b>	1515.426	1577.576	1636.118	1677.962	1723.524	1747.746	1758.746
<b>125</b>	1708.300	1788.226	1876.798	1923.746	1961.300	1991.022	2003.826
<b>130</b>	1775.598	1876.600	1956.108	2015.838	2064.876	2097.282	2108.590
<b>135</b>	1781.054	1877.634	1954.040	2019.974	2067.648	2097.942	2107.468
<b>140</b>	1748.582	1831.962	1902.538	1959.320	2002.044	2029.522	2039.246
<b>145</b>	1691.998	1760.286	1818.850	1866.964	1900.910	1922.866	1931.534
<b>150</b>	1616.186	1671.010	1717.650	1754.566	1782.242	1798.302	1806.134
<b>155</b>	1537.382	1577.576	1611.742	1638.450	1659.614	1670.240	1675.938
<b>160</b>	1464.232	1489.136	1510.806	1529.814	1541.760	1550.472	1553.486
<b>165</b>	1397.836	1412.422	1425.556	1434.356	1440.846	1446.346	1448.568
<b>170</b>	1350.404	1355.354	1359.666	1363.340	1366.310	1368.972	1370.182
<b>175</b>	1317.382	1318.592	1319.714	1320.748	1322.134	1322.596	1323.168
<b>180</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	593.56	N.A.	6.80
0-30	1169.91	N.A.	13.40
0-40	1752.84	N.A.	20.00
0-60	2557.61	N.A.	29.20
0-80	2807.94	N.A.	32.10
0-90	2819.95	N.A.	32.20
10-90	2658.31	N.A.	30.40
20-40	1159.28	N.A.	13.20
20-50	1638.04	N.A.	18.70
40-70	986.45	N.A.	11.30
60-80	250.33	N.A.	2.90
70-80	68.65	N.A.	0.80
80-90	12.01	N.A.	0.10
90-110	594.85	N.A.	6.80
90-120	1543.6	N.A.	17.60
90-130	2726.89	N.A.	31.20
90-150	4770.53	N.A.	54.50
90-180	5930.74	N.A.	67.80
110-180	5335.89	N.A.	61.00
0-180	8750.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.64
10-20	431.92
20-30	576.35
30-40	582.93
40-50	478.76
50-60	326.01
60-70	181.68
70-80	68.65
80-90	12.01
90-100	111.48
100-110	483.37
110-120	948.74
120-130	1183.29
130-140	1127.03
140-150	916.61
150-160	651.71
160-170	382.81
170-180	125.69

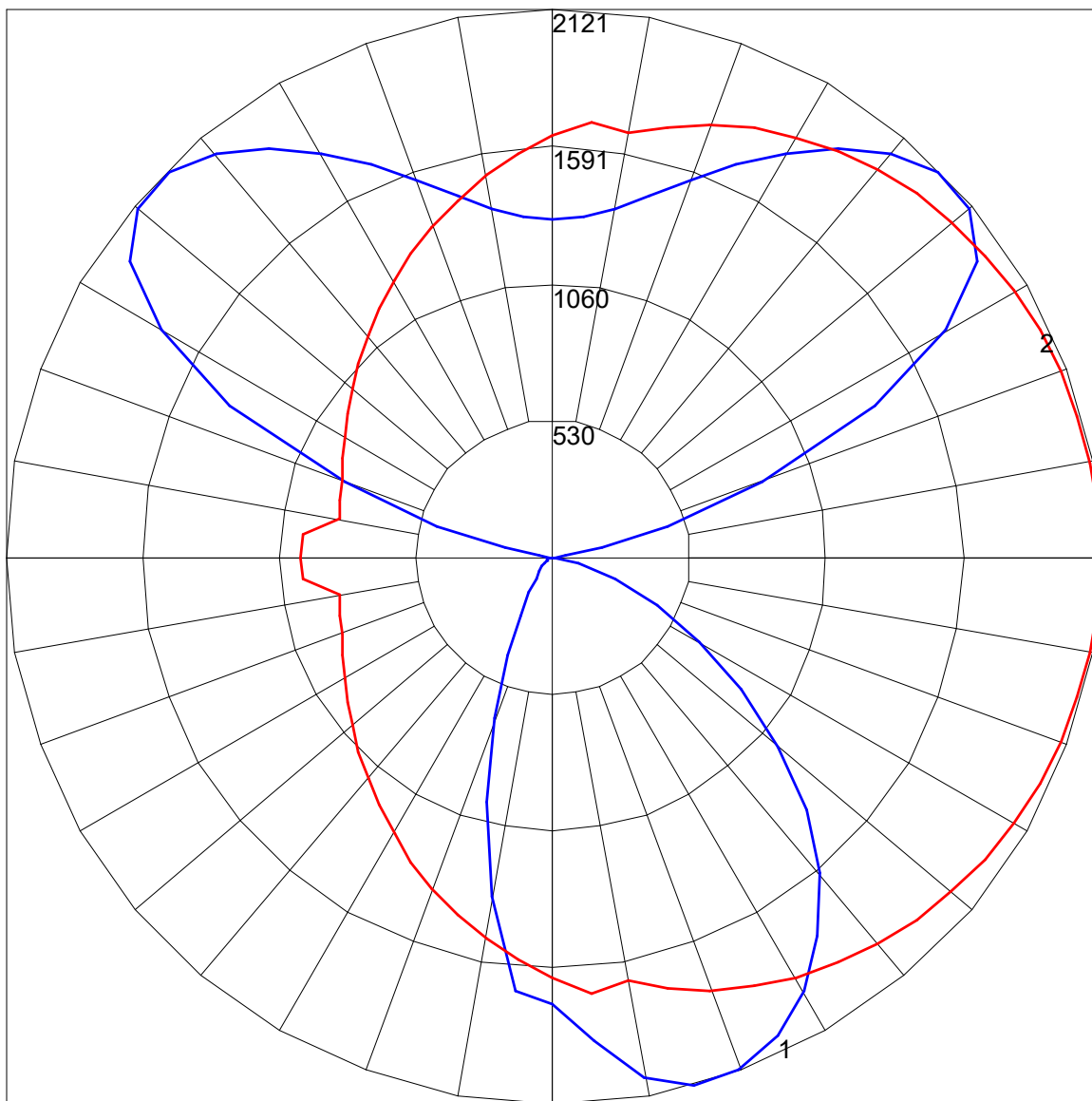
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1A1\_BL.IES**

**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 = 2120.756 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.)