

## IES Report

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 90 CRI | HO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	113	114
Total Lumens, 4' rail length (1219mm)	10455	10785	11005	11115
Lumens per foot (305mm)	2614	2696	2751	2779
Lumens per foot UP (305mm)	1238	1277	1303	1316
Lumens per foot DOWN (305mm)	1376	1419	1448	1462
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\_DR\_HO\_359\_G12.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911515 / L121911517 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-HO-359-G12-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board, 120° batwing lens up /

[MORE] round diffuse lens down, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	398
Total Luminaire Watts	27.64
Ballast Factor	1.00
CIE Type	General Diffuse
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	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22418	28238	69382
55	15066	19932	58707
65	9068	12988	46652
75	5195	7688	33774
85	3033	4364	20269

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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>	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400
<b>5</b>	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700
<b>10</b>	2145.100	2145.100	2145.100	2145.100	2145.100	2145.100	2143.200	2143.200	2143.200	2143.200
<b>15</b>	2097.600	2099.500	2097.600	2097.600	2097.600	2095.700	2095.700	2095.700	2095.700	2093.800
<b>20</b>	2033.000	2033.000	2033.000	2033.000	2031.100	2029.200	2027.300	2027.300	2025.400	2023.500
<b>25</b>	1947.500	1947.500	1947.500	1945.600	1943.700	1941.800	1939.900	1938.000	1936.100	1932.300
<b>30</b>	1841.100	1841.100	1841.100	1839.200	1837.300	1835.400	1831.600	1827.800	1824.000	1820.200
<b>35</b>	1710.000	1710.000	1710.000	1710.000	1708.100	1708.100	1704.300	1700.500	1694.800	1689.100
<b>40</b>	1546.600	1546.600	1548.500	1550.400	1550.400	1552.300	1552.300	1550.400	1546.600	1540.900
<b>45</b>	1358.500	1360.400	1362.300	1364.200	1368.000	1371.800	1375.600	1377.500	1375.600	1371.800
<b>50</b>	1164.700	1164.700	1166.600	1170.400	1176.100	1179.900	1185.600	1187.500	1189.400	1187.500
<b>55</b>	965.200	965.200	969.000	974.700	980.400	988.000	995.600	999.400	1001.300	999.400
<b>60</b>	769.500	771.400	775.200	782.800	790.400	799.900	809.400	817.000	820.800	820.800
<b>65</b>	594.700	596.600	600.400	606.100	615.600	625.100	634.600	644.100	649.800	651.700
<b>70</b>	452.200	452.200	456.000	461.700	469.300	476.900	486.400	494.000	497.800	499.700
<b>75</b>	338.200	338.200	342.000	345.800	351.500	359.100	364.800	370.500	374.300	374.300
<b>80</b>	254.600	254.600	256.500	260.300	264.100	269.800	273.600	277.400	279.300	277.400
<b>85</b>	190.000	190.000	191.900	193.800	197.600	199.500	203.300	203.300	203.300	199.500
<b>90</b>	144.400	144.400	144.400	146.300	148.200	148.200	150.100	150.100	148.200	142.500
<b>95</b>	228.855	228.855	228.608	228.209	227.335	227.886	223.915	221.369	214.149	202.711
<b>100</b>	378.252	378.328	378.879	379.202	378.955	376.884	370.614	361.456	345.876	324.007
<b>105</b>	560.709	560.481	560.386	560.006	556.339	552.691	543.932	529.682	507.813	476.786
<b>110</b>	762.432	762.356	761.881	760.437	754.718	748.676	735.775	714.533	684.855	645.772
<b>115</b>	969.874	969.703	967.632	964.459	956.175	943.369	925.300	899.270	861.954	814.511
<b>120</b>	1168.842	1167.493	1164.301	1158.164	1146.726	1129.056	1107.073	1072.683	1029.705	974.757
<b>125</b>	1347.100	1345.352	1340.412	1331.425	1315.978	1295.439	1266.692	1228.331	1177.848	1113.685
<b>130</b>	1495.889	1493.989	1487.529	1476.775	1460.226	1435.925	1401.611	1357.911	1299.790	1228.445
<b>135</b>	1615.836	1613.119	1605.481	1591.782	1569.096	1540.121	1501.171	1448.237	1385.404	1309.765
<b>140</b>	1691.171	1687.751	1677.168	1660.353	1634.019	1599.762	1555.967	1499.594	1434.861	1360.875
<b>145</b>	1713.800	1709.506	1698.125	1679.315	1652.886	1615.152	1569.685	1508.733	1446.204	1374.783
<b>150</b>	1688.017	1684.426	1673.045	1653.855	1627.407	1592.447	1542.724	1492.393	1434.595	1371.914
<b>155</b>	1613.841	1610.896	1599.990	1582.548	1558.570	1527.524	1490.322	1447.002	1399.065	1346.834
<b>160</b>	1511.754	1508.961	1500.050	1485.876	1466.363	1441.359	1412.289	1380.445	1345.162	1308.929
<b>165</b>	1391.180	1389.204	1383.789	1375.106	1362.908	1347.632	1330.266	1310.430	1289.568	1267.680
<b>170</b>	1287.345	1286.471	1284.001	1279.384	1273.817	1266.958	1258.750	1249.915	1240.605	1230.402
<b>175</b>	1218.223	1217.824	1217.026	1216.076	1214.955	1213.055	1211.136	1208.913	1206.595	1204.296
<b>180</b>	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

**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>	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400
<b>5</b>	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2173.600	2171.700
<b>10</b>	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200
<b>15</b>	2091.900	2091.900	2090.000	2090.000	2088.100	2090.000	2088.100	2088.100	2090.000	2088.100
<b>20</b>	2021.600	2019.700	2015.900	2015.900	2014.000	2012.100	2012.100	2010.200	2012.100	2010.200
<b>25</b>	1928.500	1924.700	1920.900	1917.100	1915.200	1911.400	1911.400	1911.400	1911.400	1911.400
<b>30</b>	1814.500	1808.800	1803.100	1797.400	1793.600	1787.900	1786.000	1784.100	1784.100	1784.100
<b>35</b>	1683.400	1673.900	1666.300	1656.800	1649.200	1643.500	1637.800	1635.900	1635.900	1635.900
<b>40</b>	1531.400	1520.000	1508.600	1497.200	1485.800	1478.200	1470.600	1466.800	1464.900	1466.800
<b>45</b>	1362.300	1350.900	1335.700	1322.400	1309.100	1295.800	1286.300	1280.600	1280.600	1280.600
<b>50</b>	1179.900	1170.400	1155.200	1138.100	1121.000	1105.800	1094.400	1086.800	1086.800	1086.800
<b>55</b>	993.700	984.200	970.900	951.900	934.800	917.700	904.400	896.800	894.900	896.800
<b>60</b>	815.100	803.700	788.500	773.300	754.300	735.300	720.100	712.500	708.700	712.500

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	647.900	636.500	623.200	604.200	585.200	566.200	551.000	541.500	539.600	541.500
<b>70</b>	497.800	488.300	475.000	456.000	435.100	416.100	399.000	389.500	385.700	389.500
<b>75</b>	370.500	361.000	347.700	330.600	309.700	288.800	271.700	260.300	254.600	260.300
<b>80</b>	271.700	262.200	247.000	228.000	207.100	186.200	167.200	153.900	150.100	153.900
<b>85</b>	193.800	182.400	167.200	150.100	129.200	106.400	87.400	72.200	66.500	72.200
<b>90</b>	134.900	125.400	110.200	93.100	74.100	55.100	36.100	19.000	7.600	19.000
<b>95</b>	186.352	166.820	143.716	119.928	99.066	80.446	65.474	57.000	53.029	57.000
<b>100</b>	295.868	266.057	233.073	203.281	180.956	161.196	148.105	142.063	137.294	142.063
<b>105</b>	439.071	396.283	353.571	313.006	282.872	261.402	247.019	237.861	234.593	237.861
<b>110</b>	596.372	540.645	485.108	434.169	396.606	368.353	348.631	338.447	334.780	338.447
<b>115</b>	753.768	687.230	619.476	556.510	509.770	471.352	449.920	437.114	432.573	437.114
<b>120</b>	903.526	826.595	745.712	672.714	617.367	572.964	546.041	530.195	524.780	530.195
<b>125</b>	1036.507	950.532	862.942	781.166	713.678	666.045	634.828	616.436	610.622	616.436
<b>130</b>	1141.900	1051.821	960.507	875.938	803.567	751.887	716.927	696.787	690.099	696.787
<b>135</b>	1223.828	1131.146	1034.987	951.064	883.443	830.262	794.257	773.148	765.909	773.148
<b>140</b>	1275.451	1189.286	1097.896	1017.621	953.211	902.557	867.122	846.184	838.850	846.184
<b>145</b>	1298.574	1220.541	1143.287	1071.771	1014.676	967.784	935.294	915.629	908.922	915.629
<b>150</b>	1305.585	1238.458	1174.428	1115.490	1066.603	1027.178	998.431	981.084	975.194	981.084
<b>155</b>	1293.634	1242.201	1193.219	1147.676	1110.170	1078.858	1056.172	1041.846	1037.134	1041.846
<b>160</b>	1271.347	1236.691	1201.902	1170.039	1143.762	1122.178	1105.781	1095.350	1091.930	1095.350
<b>165</b>	1245.146	1224.284	1203.726	1184.783	1169.089	1155.713	1145.757	1139.468	1137.473	1139.468
<b>170</b>	1220.370	1210.414	1201.579	1192.421	1185.581	1178.893	1174.751	1172.034	1171.236	1172.034
<b>175</b>	1201.731	1199.356	1197.038	1195.290	1193.694	1192.421	1191.623	1190.996	1190.996	1190.996
<b>180</b>	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

**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>	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400
<b>5</b>	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700
<b>10</b>	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200	2143.200
<b>15</b>	2088.100	2090.000	2088.100	2090.000	2090.000	2091.900	2091.900	2093.800	2095.700	2095.700
<b>20</b>	2012.100	2012.100	2014.000	2015.900	2015.900	2019.700	2021.600	2023.500	2025.400	2027.300
<b>25</b>	1911.400	1911.400	1915.200	1917.100	1920.900	1924.700	1928.500	1932.300	1936.100	1938.000
<b>30</b>	1786.000	1787.900	1793.600	1797.400	1803.100	1808.800	1814.500	1820.200	1824.000	1827.800
<b>35</b>	1637.800	1643.500	1649.200	1656.800	1666.300	1673.900	1683.400	1689.100	1694.800	1700.500
<b>40</b>	1470.600	1478.200	1485.800	1497.200	1508.600	1520.000	1531.400	1540.900	1546.600	1550.400
<b>45</b>	1286.300	1295.800	1309.100	1322.400	1335.700	1350.900	1362.300	1371.800	1375.600	1377.500
<b>50</b>	1094.400	1105.800	1121.000	1138.100	1155.200	1170.400	1179.900	1187.500	1189.400	1187.500
<b>55</b>	904.400	917.700	934.800	951.900	970.900	984.200	993.700	999.400	1001.300	999.400
<b>60</b>	720.100	735.300	754.300	773.300	788.500	803.700	815.100	820.800	820.800	817.000
<b>65</b>	551.000	566.200	585.200	604.200	623.200	636.500	647.900	651.700	649.800	644.100
<b>70</b>	399.000	416.100	435.100	456.000	475.000	488.300	497.800	499.700	497.800	494.000
<b>75</b>	271.700	288.800	309.700	330.600	347.700	361.000	370.500	374.300	374.300	370.500
<b>80</b>	167.200	186.200	207.100	228.000	247.000	262.200	271.700	277.400	279.300	277.400
<b>85</b>	87.400	106.400	129.200	150.100	167.200	182.400	193.800	199.500	203.300	203.300
<b>90</b>	36.100	55.100	74.100	93.100	110.200	125.400	134.900	142.500	148.200	150.100
<b>95</b>	65.474	80.446	99.066	119.928	143.716	166.820	186.352	202.711	214.149	221.369
<b>100</b>	148.105	161.196	180.956	203.281	233.073	266.057	295.868	324.007	345.876	361.456
<b>105</b>	247.019	261.402	282.872	313.006	353.571	396.283	439.071	476.786	507.813	529.682
<b>110</b>	348.631	368.353	396.606	434.169	485.108	540.645	596.372	645.772	684.855	714.533
<b>115</b>	449.920	471.352	509.770	556.510	619.476	687.230	753.768	814.511	861.954	899.270
<b>120</b>	546.041	572.964	617.367	672.714	745.712	826.595	903.526	974.757	1029.705	1072.683
<b>125</b>	634.828	666.045	713.678	781.166	862.942	950.532	1036.507	1113.685	1177.848	1228.331
<b>130</b>	716.927	751.887	803.567	875.938	960.507	1051.821	1141.900	1228.445	1299.790	1357.911
<b>135</b>	794.257	830.262	883.443	951.064	1034.987	1131.146	1223.828	1309.765	1385.404	1448.237

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	867.122	902.557	953.211	1017.621	1097.896	1189.286	1275.451	1360.875	1434.861	1499.594
<b>145</b>	935.294	967.784	1014.676	1071.771	1143.287	1220.541	1298.574	1374.783	1446.204	1508.733
<b>150</b>	998.431	1027.178	1066.603	1115.490	1174.428	1238.458	1305.585	1371.914	1434.595	1492.393
<b>155</b>	1056.172	1078.858	1110.170	1147.676	1193.219	1242.201	1293.634	1346.834	1399.065	1447.002
<b>160</b>	1105.781	1122.178	1143.762	1170.039	1201.902	1236.691	1271.347	1308.929	1345.162	1380.445
<b>165</b>	1145.757	1155.713	1169.089	1184.783	1203.726	1224.284	1245.146	1267.680	1289.568	1310.430
<b>170</b>	1174.751	1178.893	1185.581	1192.421	1201.579	1210.414	1220.370	1230.402	1240.605	1249.915
<b>175</b>	1191.623	1192.421	1193.694	1195.290	1197.038	1199.356	1201.731	1204.296	1206.595	1208.913
<b>180</b>	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

**Vert.  
Angles**

**Horizontal 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>	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400	2177.400
<b>5</b>	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700	2171.700
<b>10</b>	2143.200	2145.100	2145.100	2145.100	2145.100	2145.100	2145.100
<b>15</b>	2095.700	2095.700	2097.600	2097.600	2097.600	2099.500	2097.600
<b>20</b>	2027.300	2029.200	2031.100	2033.000	2033.000	2033.000	2033.000
<b>25</b>	1939.900	1941.800	1943.700	1945.600	1947.500	1947.500	1947.500
<b>30</b>	1831.600	1835.400	1837.300	1839.200	1841.100	1841.100	1841.100
<b>35</b>	1704.300	1708.100	1708.100	1710.000	1710.000	1710.000	1710.000
<b>40</b>	1552.300	1552.300	1550.400	1550.400	1548.500	1546.600	1546.600
<b>45</b>	1375.600	1371.800	1368.000	1364.200	1362.300	1360.400	1358.500
<b>50</b>	1185.600	1179.900	1176.100	1170.400	1166.600	1164.700	1164.700
<b>55</b>	995.600	988.000	980.400	974.700	969.000	965.200	965.200
<b>60</b>	809.400	799.900	790.400	782.800	775.200	771.400	769.500
<b>65</b>	634.600	625.100	615.600	606.100	600.400	596.600	594.700
<b>70</b>	486.400	476.900	469.300	461.700	456.000	452.200	452.200
<b>75</b>	364.800	359.100	351.500	345.800	342.000	338.200	338.200
<b>80</b>	273.600	269.800	264.100	260.300	256.500	254.600	254.600
<b>85</b>	203.300	199.500	197.600	193.800	191.900	190.000	190.000
<b>90</b>	150.100	148.200	148.200	146.300	144.400	144.400	144.400
<b>95</b>	223.915	227.886	227.335	228.209	228.608	228.855	228.855
<b>100</b>	370.614	376.884	378.955	379.202	378.879	378.328	378.252
<b>105</b>	543.932	552.691	556.339	560.006	560.386	560.481	560.709
<b>110</b>	735.775	748.676	754.718	760.437	761.881	762.356	762.432
<b>115</b>	925.300	943.369	956.175	964.459	967.632	969.703	969.874
<b>120</b>	1107.073	1129.056	1146.726	1158.164	1164.301	1167.493	1168.842
<b>125</b>	1266.692	1295.439	1315.978	1331.425	1340.412	1345.352	1347.100
<b>130</b>	1401.611	1435.925	1460.226	1476.775	1487.529	1493.989	1495.889
<b>135</b>	1501.171	1540.121	1569.096	1591.782	1605.481	1613.119	1615.836
<b>140</b>	1555.967	1599.762	1634.019	1660.353	1677.168	1687.751	1691.171
<b>145</b>	1569.685	1615.152	1652.886	1679.315	1698.125	1709.506	1713.800
<b>150</b>	1542.724	1592.447	1627.407	1653.855	1673.045	1684.426	1688.017
<b>155</b>	1490.322	1527.524	1558.570	1582.548	1599.990	1610.896	1613.841
<b>160</b>	1412.289	1441.359	1466.363	1485.876	1500.050	1508.961	1511.754
<b>165</b>	1330.266	1347.632	1362.908	1375.106	1383.789	1389.204	1391.180
<b>170</b>	1258.750	1266.958	1273.817	1279.384	1284.001	1286.471	1287.345
<b>175</b>	1211.136	1213.055	1214.955	1216.076	1217.026	1217.824	1218.223
<b>180</b>	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_HO\_359\_G12.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	796.93	N.A.	7.20
0-30	1685.56	N.A.	15.30
0-40	2734.9	N.A.	24.90
0-60	4634.3	N.A.	42.10
0-80	5604.52	N.A.	50.90
0-90	5792.04	N.A.	52.60
10-90	5585.67	N.A.	50.80
20-40	1937.97	N.A.	17.60
20-50	2973.56	N.A.	27.00
40-70	2507.04	N.A.	22.80
60-80	970.23	N.A.	8.80
70-80	362.58	N.A.	3.30
80-90	187.52	N.A.	1.70
90-110	662.06	N.A.	6.00
90-120	1402.41	N.A.	12.70
90-130	2325.99	N.A.	21.10
90-150	4120.2	N.A.	37.40
90-180	5213.04	N.A.	47.40
110-180	4550.98	N.A.	41.40
0-180	11005.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	206.37
10-20	590.56
20-30	888.63
30-40	1049.34
40-50	1035.59
50-60	863.80
60-70	607.64
70-80	362.58
80-90	187.52
90-100	202.19
100-110	459.88
110-120	740.35
120-130	923.58
130-140	956.14
140-150	838.07
150-160	617.09
160-170	359.98
170-180	115.77

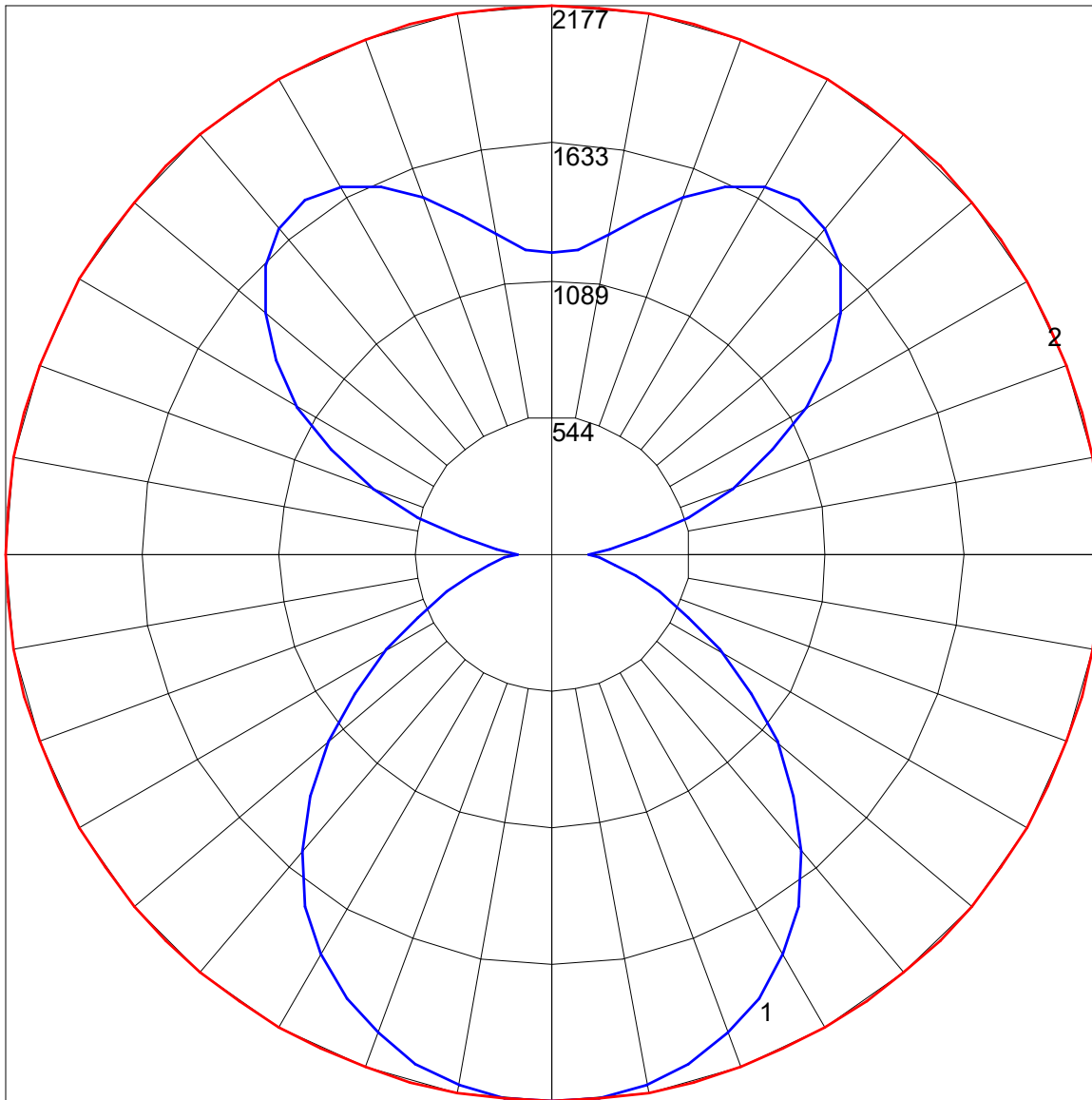
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_HO\_359\_G12.IES**

**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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	83	80	74	72	69	62	60	59	51	50	49	44
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35	31
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	21
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 2177.4 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)