

IES Report

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 80 CRI | HO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	124	128	131	131
Total Lumens, 4' rail length (1219mm)	12127	12510	12766	12766
Lumens per foot (305mm)	3032	3128	3191	3191
Lumens per foot UP (305mm)	1436	1482	1512	1512
Lumens per foot DOWN (305mm)	1596	1646	1680	1680
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_DR_HO_35_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-35-G12-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 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	12743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	98.12
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	25958	32697	80338
55	17445	23080	67977
65	10500	15039	54018
75	6015	8902	39107
85	3511	5053	23469

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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>
0	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200
5	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600
10	2483.800	2483.800	2483.800	2483.800	2483.800	2483.800	2481.600	2481.600	2481.600	2481.600
15	2428.800	2431.000	2428.800	2428.800	2428.800	2426.600	2426.600	2426.600	2426.600	2424.400
20	2354.000	2354.000	2354.000	2354.000	2351.800	2349.600	2347.400	2347.400	2345.200	2343.000
25	2255.000	2255.000	2255.000	2252.800	2250.600	2248.400	2246.200	2244.000	2241.800	2237.400
30	2131.800	2131.800	2131.800	2129.600	2127.400	2125.200	2120.800	2116.400	2112.000	2107.600
35	1980.000	1980.000	1980.000	1980.000	1977.800	1977.800	1973.400	1969.000	1962.400	1955.800
40	1790.800	1790.800	1793.000	1795.200	1795.200	1797.400	1797.400	1795.200	1790.800	1784.200
45	1573.000	1575.200	1577.400	1579.600	1584.000	1588.400	1592.800	1595.000	1592.800	1588.400
50	1348.600	1348.600	1350.800	1355.200	1361.800	1366.200	1372.800	1375.000	1377.200	1375.000
55	1117.600	1117.600	1122.000	1128.600	1135.200	1144.000	1152.800	1157.200	1159.400	1157.200
60	891.000	893.200	897.600	906.400	915.200	926.200	937.200	946.000	950.400	950.400
65	688.600	690.800	695.200	701.800	712.800	723.800	734.800	745.800	752.400	754.600
70	523.600	523.600	528.000	534.600	543.400	552.200	563.200	572.000	576.400	578.600
75	391.600	391.600	396.000	400.400	407.000	415.800	422.400	429.000	433.400	433.400
80	294.800	294.800	297.000	301.400	305.800	312.400	316.800	321.200	323.400	321.200
85	220.000	220.000	222.200	224.400	228.800	231.000	235.400	235.400	235.400	231.000
90	167.200	167.200	167.200	169.400	171.600	171.600	173.800	173.800	171.600	165.000
95	264.990	264.990	264.704	264.242	263.230	263.868	259.270	256.322	247.962	234.718
100	437.976	438.064	438.702	439.076	438.790	436.392	429.132	418.528	400.488	375.166
105	649.242	648.978	648.868	648.428	644.182	639.958	629.816	613.316	587.994	552.068
110	882.816	882.728	882.178	880.506	873.884	866.888	851.950	827.354	792.990	747.736
115	1123.012	1122.814	1120.416	1116.742	1107.150	1092.322	1071.400	1041.260	998.052	943.118
120	1353.396	1351.834	1348.138	1341.032	1327.788	1307.328	1281.874	1242.054	1192.290	1128.666
125	1559.800	1557.776	1552.056	1541.650	1523.764	1499.982	1466.696	1422.278	1363.824	1289.530
130	1732.082	1729.882	1722.402	1709.950	1690.788	1662.650	1622.918	1572.318	1505.020	1422.410
135	1870.968	1867.822	1858.978	1843.116	1816.848	1783.298	1738.198	1676.906	1604.152	1516.570
140	1958.198	1954.238	1941.984	1922.514	1892.022	1852.356	1801.646	1736.372	1661.418	1575.750
145	1984.400	1979.428	1966.250	1944.470	1913.868	1870.176	1817.530	1746.954	1674.552	1591.854
150	1954.546	1950.388	1937.210	1914.990	1884.366	1843.886	1786.312	1728.034	1661.110	1588.532
155	1868.658	1865.248	1852.620	1832.424	1804.660	1768.712	1725.636	1675.476	1619.970	1559.492
160	1750.452	1747.218	1736.900	1720.488	1697.894	1668.942	1635.282	1598.410	1557.556	1515.602
165	1610.840	1608.552	1602.282	1592.228	1578.104	1560.416	1540.308	1517.340	1493.184	1467.840
170	1490.610	1489.598	1486.738	1481.392	1474.946	1467.004	1457.500	1447.270	1436.490	1424.676
175	1410.574	1410.112	1409.188	1408.088	1406.790	1404.590	1402.368	1399.794	1397.110	1394.448
180	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

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	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200
5	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2516.800	2514.600
10	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600
15	2422.200	2422.200	2420.000	2420.000	2417.800	2420.000	2417.800	2417.800	2420.000	2417.800
20	2340.800	2338.600	2334.200	2334.200	2332.000	2329.800	2329.800	2327.600	2329.800	2327.600
25	2233.000	2228.600	2224.200	2219.800	2217.600	2213.200	2213.200	2213.200	2213.200	2213.200
30	2101.000	2094.400	2087.800	2081.200	2076.800	2070.200	2068.000	2065.800	2065.800	2065.800
35	1949.200	1938.200	1929.400	1918.400	1909.600	1903.000	1896.400	1894.200	1894.200	1894.200
40	1773.200	1760.000	1746.800	1733.600	1720.400	1711.600	1702.800	1698.400	1696.200	1698.400
45	1577.400	1564.200	1546.600	1531.200	1515.800	1500.400	1489.400	1482.800	1482.800	1482.800
50	1366.200	1355.200	1337.600	1317.800	1298.000	1280.400	1267.200	1258.400	1258.400	1258.400
55	1150.600	1139.600	1124.200	1102.200	1082.400	1062.600	1047.200	1038.400	1036.200	1038.400
60	943.800	930.600	913.000	895.400	873.400	851.400	833.800	825.000	820.600	825.000

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CANDELA TABULATION - (Cont.)

65	750.200	737.000	721.600	699.600	677.600	655.600	638.000	627.000	624.800	627.000
70	576.400	565.400	550.000	528.000	503.800	481.800	462.000	451.000	446.600	451.000
75	429.000	418.000	402.600	382.800	358.600	334.400	314.600	301.400	294.800	301.400
80	314.600	303.600	286.000	264.000	239.800	215.600	193.600	178.200	173.800	178.200
85	224.400	211.200	193.600	173.800	149.600	123.200	101.200	83.600	77.000	83.600
90	156.200	145.200	127.600	107.800	85.800	63.800	41.800	22.000	8.800	22.000
95	215.776	193.160	166.408	138.864	114.708	93.148	75.812	66.000	61.402	66.000
100	342.584	308.066	269.874	235.378	209.528	186.648	171.490	164.494	158.972	164.494
105	508.398	458.854	409.398	362.428	327.536	302.676	286.022	275.418	271.634	275.418
110	690.536	626.010	561.704	502.722	459.228	426.514	403.678	391.886	387.640	391.886
115	872.784	795.740	717.288	644.380	590.260	545.776	520.960	506.132	500.874	506.132
120	1046.188	957.110	863.456	778.932	714.846	663.432	632.258	613.910	607.640	613.910
125	1200.166	1100.616	999.196	904.508	826.364	771.210	735.064	713.768	707.036	713.768
130	1322.200	1217.898	1112.166	1014.244	930.446	870.606	830.126	806.806	799.062	806.806
135	1417.064	1309.748	1198.406	1101.232	1022.934	961.356	919.666	895.224	886.842	895.224
140	1476.838	1377.068	1271.248	1178.298	1103.718	1045.066	1004.036	979.792	971.300	979.792
145	1503.612	1413.258	1323.806	1240.998	1174.888	1120.592	1082.972	1060.202	1052.436	1060.202
150	1511.730	1434.004	1359.864	1291.620	1235.014	1189.364	1156.078	1135.992	1129.172	1135.992
155	1497.892	1438.338	1381.622	1328.888	1285.460	1249.204	1222.936	1206.348	1200.892	1206.348
160	1472.086	1431.958	1391.676	1354.782	1324.356	1299.364	1280.378	1268.300	1264.340	1268.300
165	1441.748	1417.592	1393.788	1371.854	1353.682	1338.194	1326.666	1319.384	1317.074	1319.384
170	1413.060	1401.532	1391.302	1380.698	1372.778	1365.034	1360.238	1357.092	1356.168	1357.092
175	1391.478	1388.728	1386.044	1384.020	1382.172	1380.698	1379.774	1379.048	1379.048	1379.048
180	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200
5	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600
10	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600	2481.600
15	2417.800	2420.000	2417.800	2420.000	2420.000	2422.200	2422.200	2424.400	2426.600	2426.600
20	2329.800	2329.800	2332.000	2334.200	2334.200	2338.600	2340.800	2343.000	2345.200	2347.400
25	2213.200	2213.200	2217.600	2219.800	2224.200	2228.600	2233.000	2237.400	2241.800	2244.000
30	2068.000	2070.200	2076.800	2081.200	2087.800	2094.400	2101.000	2107.600	2112.000	2116.400
35	1896.400	1903.000	1909.600	1918.400	1929.400	1938.200	1949.200	1955.800	1962.400	1969.000
40	1702.800	1711.600	1720.400	1733.600	1746.800	1760.000	1773.200	1784.200	1790.800	1795.200
45	1489.400	1500.400	1515.800	1531.200	1546.600	1564.200	1577.400	1588.400	1592.800	1595.000
50	1267.200	1280.400	1298.000	1317.800	1337.600	1355.200	1366.200	1375.000	1377.200	1375.000
55	1047.200	1062.600	1082.400	1102.200	1124.200	1139.600	1150.600	1157.200	1159.400	1157.200
60	833.800	851.400	873.400	895.400	913.000	930.600	943.800	950.400	950.400	946.000
65	638.000	655.600	677.600	699.600	721.600	737.000	750.200	754.600	752.400	745.800
70	462.000	481.800	503.800	528.000	550.000	565.400	576.400	578.600	576.400	572.000
75	314.600	334.400	358.600	382.800	402.600	418.000	429.000	433.400	433.400	429.000
80	193.600	215.600	239.800	264.000	286.000	303.600	314.600	321.200	323.400	321.200
85	101.200	123.200	149.600	173.800	193.600	211.200	224.400	231.000	235.400	235.400
90	41.800	63.800	85.800	107.800	127.600	145.200	156.200	165.000	171.600	173.800
95	75.812	93.148	114.708	138.864	166.408	193.160	215.776	234.718	247.962	256.322
100	171.490	186.648	209.528	235.378	269.874	308.066	342.584	375.166	400.488	418.528
105	286.022	302.676	327.536	362.428	409.398	458.854	508.398	552.068	587.994	613.316
110	403.678	426.514	459.228	502.722	561.704	626.010	690.536	747.736	792.990	827.354
115	520.960	545.776	590.260	644.380	717.288	795.740	872.784	943.118	998.052	1041.260
120	632.258	663.432	714.846	778.932	863.456	957.110	1046.188	1128.666	1192.290	1242.054
125	735.064	771.210	826.364	904.508	999.196	1100.616	1200.166	1289.530	1363.824	1422.278
130	830.126	870.606	930.446	1014.244	1112.166	1217.898	1322.200	1422.410	1505.020	1572.318
135	919.666	961.356	1022.934	1101.232	1198.406	1309.748	1417.064	1516.570	1604.152	1676.906

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CANDELA TABULATION - (Cont.)

140	1004.036	1045.066	1103.718	1178.298	1271.248	1377.068	1476.838	1575.750	1661.418	1736.372
145	1082.972	1120.592	1174.888	1240.998	1323.806	1413.258	1503.612	1591.854	1674.552	1746.954
150	1156.078	1189.364	1235.014	1291.620	1359.864	1434.004	1511.730	1588.532	1661.110	1728.034
155	1222.936	1249.204	1285.460	1328.888	1381.622	1438.338	1497.892	1559.492	1619.970	1675.476
160	1280.378	1299.364	1324.356	1354.782	1391.676	1431.958	1472.086	1515.602	1557.556	1598.410
165	1326.666	1338.194	1353.682	1371.854	1393.788	1417.592	1441.748	1467.840	1493.184	1517.340
170	1360.238	1365.034	1372.778	1380.698	1391.302	1401.532	1413.060	1424.676	1436.490	1447.270
175	1379.774	1380.698	1382.172	1384.020	1386.044	1388.728	1391.478	1394.448	1397.110	1399.794
180	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200	2521.200
5	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600	2514.600
10	2481.600	2483.800	2483.800	2483.800	2483.800	2483.800	2483.800
15	2426.600	2426.600	2428.800	2428.800	2428.800	2431.000	2428.800
20	2347.400	2349.600	2351.800	2354.000	2354.000	2354.000	2354.000
25	2246.200	2248.400	2250.600	2252.800	2255.000	2255.000	2255.000
30	2120.800	2125.200	2127.400	2129.600	2131.800	2131.800	2131.800
35	1973.400	1977.800	1977.800	1980.000	1980.000	1980.000	1980.000
40	1797.400	1797.400	1795.200	1795.200	1793.000	1790.800	1790.800
45	1592.800	1588.400	1584.000	1579.600	1577.400	1575.200	1573.000
50	1372.800	1366.200	1361.800	1355.200	1350.800	1348.600	1348.600
55	1152.800	1144.000	1135.200	1128.600	1122.000	1117.600	1117.600
60	937.200	926.200	915.200	906.400	897.600	893.200	891.000
65	734.800	723.800	712.800	701.800	695.200	690.800	688.600
70	563.200	552.200	543.400	534.600	528.000	523.600	523.600
75	422.400	415.800	407.000	400.400	396.000	391.600	391.600
80	316.800	312.400	305.800	301.400	297.000	294.800	294.800
85	235.400	231.000	228.800	224.400	222.200	220.000	220.000
90	173.800	171.600	171.600	169.400	167.200	167.200	167.200
95	259.270	263.868	263.230	264.242	264.704	264.990	264.990
100	429.132	436.392	438.790	439.076	438.702	438.064	437.976
105	629.816	639.958	644.182	648.428	648.868	648.978	649.242
110	851.950	866.888	873.884	880.506	882.178	882.728	882.816
115	1071.400	1092.322	1107.150	1116.742	1120.416	1122.814	1123.012
120	1281.874	1307.328	1327.788	1341.032	1348.138	1351.834	1353.396
125	1466.696	1499.982	1523.764	1541.650	1552.056	1557.776	1559.800
130	1622.918	1662.650	1690.788	1709.950	1722.402	1729.882	1732.082
135	1738.198	1783.298	1816.848	1843.116	1858.978	1867.822	1870.968
140	1801.646	1852.356	1892.022	1922.514	1941.984	1954.238	1958.198
145	1817.530	1870.176	1913.868	1944.470	1966.250	1979.428	1984.400
150	1786.312	1843.886	1884.366	1914.990	1937.210	1950.388	1954.546
155	1725.636	1768.712	1804.660	1832.424	1852.620	1865.248	1868.658
160	1635.282	1668.942	1697.894	1720.488	1736.900	1747.218	1750.452
165	1540.308	1560.416	1578.104	1592.228	1602.282	1608.552	1610.840
170	1457.500	1467.004	1474.946	1481.392	1486.738	1489.598	1490.610
175	1402.368	1404.590	1406.790	1408.088	1409.188	1410.112	1410.574
180	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_G12.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	922.76	N.A.	7.20
0-30	1951.7	N.A.	15.30
0-40	3166.73	N.A.	24.90
0-60	5366.03	N.A.	42.10
0-80	6489.45	N.A.	50.90
0-90	6706.57	N.A.	52.60
10-90	6467.62	N.A.	50.80
20-40	2243.96	N.A.	17.60
20-50	3443.07	N.A.	27.00
40-70	2902.89	N.A.	22.80
60-80	1123.42	N.A.	8.80
70-80	419.83	N.A.	3.30
80-90	217.13	N.A.	1.70
90-110	766.60	N.A.	6.00
90-120	1623.85	N.A.	12.70
90-130	2693.26	N.A.	21.10
90-150	4770.76	N.A.	37.40
90-180	6036.15	N.A.	47.40
110-180	5269.55	N.A.	41.40
0-180	12742.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.96
10-20	683.81
20-30	1028.94
30-40	1215.02
40-50	1199.1
50-60	1000.19
60-70	703.59
70-80	419.83
80-90	217.13
90-100	234.11
100-110	532.49
110-120	857.25
120-130	1069.41
130-140	1107.11
140-150	970.40
150-160	714.53
160-170	416.82
170-180	134.05

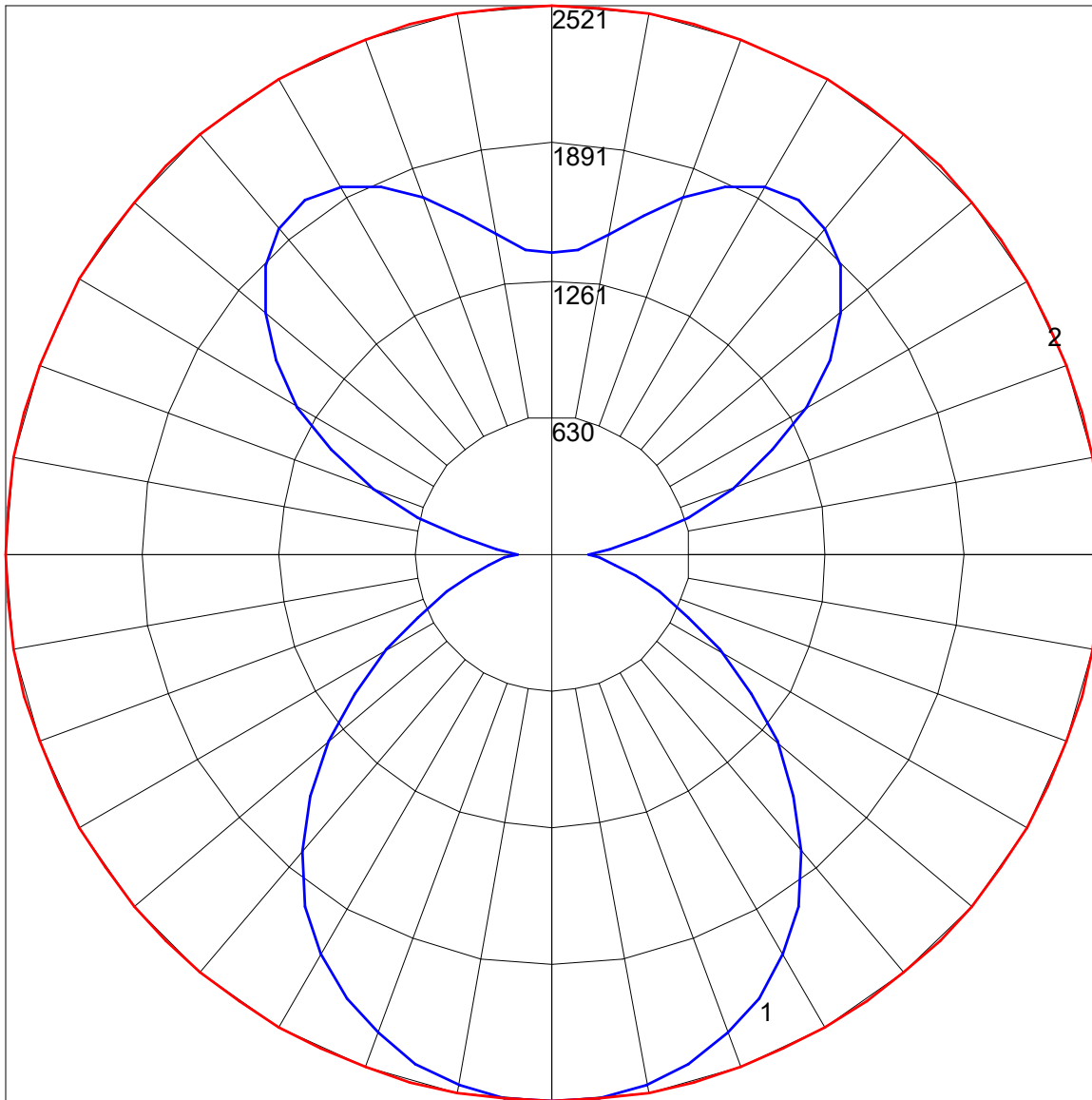
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_G12.IES

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 = 2521.2 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.)