

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 80 CRI | HO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	134	139	142	142
Total Lumens, 4' rail length (1219mm)	13147	13562	13839	13839
Lumens per foot (305mm)	3287	3391	3460	3460
Lumens per foot UP (305mm)	1643	1695	1730	1730
Lumens per foot DOWN (305mm)	1643	1695	1730	1730
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_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911517 (SOURCE REPORT 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-35-22-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, round diffuse 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	13813
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22467	28597	79544
55	15071	19985	67039
65	9329	13127	52938
75	5911	8369	37845
85	4521	6211	22371

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_22.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>
0	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
5	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
10	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2481.6	2481.6	2481.6	2481.6
15	2428.8	2431.0	2428.8	2428.8	2428.8	2426.6	2426.6	2426.6	2426.6	2424.4
20	2354.0	2354.0	2354.0	2354.0	2351.8	2349.6	2347.4	2347.4	2345.2	2343.0
25	2255.0	2255.0	2255.0	2252.8	2250.6	2248.4	2246.2	2244.0	2241.8	2237.4
30	2140.6	2140.6	2140.6	2138.4	2136.2	2134.0	2120.8	2116.4	2112.0	2107.6
35	1991.0	1991.0	1991.0	1991.0	1988.8	1986.6	1982.2	1969.0	1962.4	1955.8
40	1804.0	1804.0	1806.2	1808.4	1806.2	1808.4	1808.4	1804.0	1799.6	1793.0
45	1588.4	1590.6	1592.8	1595.0	1597.2	1601.6	1606.0	1606.0	1603.8	1597.2
50	1366.2	1366.2	1368.4	1372.8	1379.4	1383.8	1388.2	1390.4	1390.4	1386.0
55	1141.8	1141.8	1146.2	1152.8	1157.2	1166.0	1172.6	1174.8	1174.8	1170.4
60	924.0	926.2	930.6	939.4	946.0	954.8	965.8	970.2	972.4	970.2
65	732.6	734.8	739.2	745.8	754.6	763.4	772.2	781.0	783.2	781.0
70	580.8	580.8	585.2	591.8	598.4	607.2	616.0	620.4	620.4	618.2
75	466.4	466.4	470.8	475.2	479.6	488.4	492.8	497.2	497.2	490.6
80	391.6	391.6	393.8	398.2	402.6	409.2	411.4	413.6	411.4	402.6
85	347.6	347.6	349.8	352.0	356.4	360.8	363.0	363.0	358.6	347.6
90	334.4	334.4	334.4	338.8	343.2	343.2	347.6	347.6	343.2	330.0
95	347.6	347.6	349.8	352.0	356.4	360.8	363.0	363.0	358.6	347.6
100	391.6	391.6	393.8	398.2	402.6	409.2	411.4	413.6	411.4	402.6
105	466.4	466.4	470.8	475.2	479.6	488.4	492.8	497.2	497.2	490.6
110	580.8	580.8	585.2	591.8	598.4	607.2	616.0	620.4	620.4	618.2
115	732.6	734.8	739.2	745.8	754.6	763.4	772.2	781.0	783.2	781.0
120	924.0	926.2	930.6	939.4	946.0	954.8	965.8	970.2	972.4	970.2
125	1141.8	1141.8	1146.2	1152.8	1157.2	1166.0	1172.6	1174.8	1174.8	1170.4
130	1366.2	1366.2	1368.4	1372.8	1379.4	1383.8	1388.2	1390.4	1390.4	1386.0
135	1588.4	1590.6	1592.8	1595.0	1597.2	1601.6	1606.0	1606.0	1603.8	1597.2
140	1804.0	1804.0	1806.2	1808.4	1806.2	1808.4	1808.4	1804.0	1799.6	1793.0
145	1991.0	1991.0	1991.0	1991.0	1988.8	1986.6	1982.2	1969.0	1962.4	1955.8
150	2140.6	2140.6	2140.6	2138.4	2136.2	2134.0	2120.8	2116.4	2112.0	2107.6
155	2255.0	2255.0	2255.0	2252.8	2250.6	2248.4	2246.2	2244.0	2241.8	2237.4
160	2354.0	2354.0	2354.0	2354.0	2351.8	2349.6	2347.4	2347.4	2345.2	2343.0
165	2428.8	2431.0	2428.8	2428.8	2428.8	2426.6	2426.6	2426.6	2426.6	2424.4
170	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2481.6	2481.6	2481.6	2481.6
175	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
180	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2

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	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
5	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2516.8	2514.6
10	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
15	2422.2	2422.2	2420.0	2420.0	2417.8	2420.0	2417.8	2417.8	2420.0	2417.8
20	2340.8	2338.6	2334.2	2334.2	2332.0	2329.8	2329.8	2327.6	2329.8	2327.6
25	2233.0	2228.6	2224.2	2219.8	2217.6	2213.2	2213.2	2213.2	2213.2	2213.2
30	2101.0	2094.4	2087.8	2081.2	2076.8	2070.2	2068.0	2065.8	2065.8	2065.8
35	1949.2	1938.2	1929.4	1918.4	1909.6	1903.0	1896.4	1894.2	1894.2	1894.2
40	1779.8	1766.6	1746.8	1733.6	1720.4	1711.6	1702.8	1698.4	1696.2	1698.4
45	1586.2	1570.8	1546.6	1531.2	1515.8	1500.4	1489.4	1482.8	1482.8	1482.8
50	1375.0	1364.0	1344.2	1324.4	1298.0	1280.4	1267.2	1258.4	1258.4	1258.4
55	1163.8	1150.6	1133.0	1108.8	1082.4	1062.6	1047.2	1038.4	1036.2	1038.4
60	959.2	943.8	921.8	902.0	877.8	851.4	833.8	825.0	820.6	825.0

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PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_22.IES

CANDELA TABULATION - (Cont.)

65	772.2	754.6	734.8	708.4	684.2	655.6	638.0	627.0	624.8	627.0
70	609.4	591.8	569.8	541.2	512.6	486.2	462.0	451.0	446.6	451.0
75	479.6	459.8	435.6	404.8	371.8	341.0	316.8	301.4	294.8	301.4
80	387.2	367.4	336.6	301.4	266.2	228.8	198.0	180.4	173.8	180.4
85	332.2	308.0	275.0	237.6	195.8	151.8	114.4	88.0	79.2	88.0
90	312.4	290.4	255.2	215.6	171.6	127.6	83.6	44.0	17.6	44.0
95	332.2	308.0	275.0	237.6	195.8	151.8	114.4	88.0	79.2	88.0
100	387.2	367.4	336.6	301.4	266.2	228.8	198.0	180.4	173.8	180.4
105	479.6	459.8	435.6	404.8	371.8	341.0	316.8	301.4	294.8	301.4
110	609.4	591.8	569.8	541.2	512.6	486.2	462.0	451.0	446.6	451.0
115	772.2	754.6	734.8	708.4	684.2	655.6	638.0	627.0	624.8	627.0
120	959.2	943.8	921.8	902.0	877.8	851.4	833.8	825.0	820.6	825.0
125	1163.8	1150.6	1133.0	1108.8	1082.4	1062.6	1047.2	1038.4	1036.2	1038.4
130	1375.0	1364.0	1344.2	1324.4	1298.0	1280.4	1267.2	1258.4	1258.4	1258.4
135	1586.2	1570.8	1546.6	1531.2	1515.8	1500.4	1489.4	1482.8	1482.8	1482.8
140	1779.8	1766.6	1746.8	1733.6	1720.4	1711.6	1702.8	1698.4	1696.2	1698.4
145	1949.2	1938.2	1929.4	1918.4	1909.6	1903.0	1896.4	1894.2	1894.2	1894.2
150	2101.0	2094.4	2087.8	2081.2	2076.8	2070.2	2068.0	2065.8	2065.8	2065.8
155	2233.0	2228.6	2224.2	2219.8	2217.6	2213.2	2213.2	2213.2	2213.2	2213.2
160	2340.8	2338.6	2334.2	2334.2	2332.0	2329.8	2329.8	2327.6	2329.8	2327.6
165	2422.2	2422.2	2420.0	2420.0	2417.8	2420.0	2417.8	2417.8	2420.0	2417.8
170	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
175	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2516.8	2514.6
180	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
5	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
10	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
15	2417.8	2420.0	2417.8	2420.0	2420.0	2422.2	2422.2	2424.4	2426.6	2426.6
20	2329.8	2329.8	2332.0	2334.2	2334.2	2338.6	2340.8	2343.0	2345.2	2347.4
25	2213.2	2213.2	2217.6	2219.8	2224.2	2228.6	2233.0	2237.4	2241.8	2244.0
30	2068.0	2070.2	2076.8	2081.2	2087.8	2094.4	2101.0	2107.6	2112.0	2116.4
35	1896.4	1903.0	1909.6	1918.4	1929.4	1938.2	1949.2	1955.8	1962.4	1969.0
40	1702.8	1711.6	1720.4	1733.6	1746.8	1766.6	1779.8	1793.0	1799.6	1804.0
45	1489.4	1500.4	1515.8	1531.2	1546.6	1570.8	1586.2	1597.2	1603.8	1606.0
50	1267.2	1280.4	1298.0	1324.4	1344.2	1364.0	1375.0	1386.0	1390.4	1390.4
55	1047.2	1062.6	1082.4	1108.8	1133.0	1150.6	1163.8	1170.4	1174.8	1174.8
60	833.8	851.4	877.8	902.0	921.8	943.8	959.2	970.2	972.4	970.2
65	638.0	655.6	684.2	708.4	734.8	754.6	772.2	781.0	783.2	781.0
70	462.0	486.2	512.6	541.2	569.8	591.8	609.4	618.2	620.4	620.4
75	316.8	341.0	371.8	404.8	435.6	459.8	479.6	490.6	497.2	497.2
80	198.0	228.8	266.2	301.4	336.6	367.4	387.2	402.6	411.4	413.6
85	114.4	151.8	195.8	237.6	275.0	308.0	332.2	347.6	358.6	363.0
90	83.6	127.6	171.6	215.6	255.2	290.4	312.4	330.0	343.2	347.6
95	114.4	151.8	195.8	237.6	275.0	308.0	332.2	347.6	358.6	363.0
100	198.0	228.8	266.2	301.4	336.6	367.4	387.2	402.6	411.4	413.6
105	316.8	341.0	371.8	404.8	435.6	459.8	479.6	490.6	497.2	497.2
110	462.0	486.2	512.6	541.2	569.8	591.8	609.4	618.2	620.4	620.4
115	638.0	655.6	684.2	708.4	734.8	754.6	772.2	781.0	783.2	781.0
120	833.8	851.4	877.8	902.0	921.8	943.8	959.2	970.2	972.4	970.2
125	1047.2	1062.6	1082.4	1108.8	1133.0	1150.6	1163.8	1170.4	1174.8	1174.8
130	1267.2	1280.4	1298.0	1324.4	1344.2	1364.0	1375.0	1386.0	1390.4	1390.4
135	1489.4	1500.4	1515.8	1531.2	1546.6	1570.8	1586.2	1597.2	1603.8	1606.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_22.IES

CANDELA TABULATION - (Cont.)

140	1702.8	1711.6	1720.4	1733.6	1746.8	1766.6	1779.8	1793.0	1799.6	1804.0
145	1896.4	1903.0	1909.6	1918.4	1929.4	1938.2	1949.2	1955.8	1962.4	1969.0
150	2068.0	2070.2	2076.8	2081.2	2087.8	2094.4	2101.0	2107.6	2112.0	2116.4
155	2213.2	2213.2	2217.6	2219.8	2224.2	2228.6	2233.0	2237.4	2241.8	2244.0
160	2329.8	2329.8	2332.0	2334.2	2334.2	2338.6	2340.8	2343.0	2345.2	2347.4
165	2417.8	2420.0	2417.8	2420.0	2420.0	2422.2	2422.2	2424.4	2426.6	2426.6
170	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6	2481.6
175	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
180	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
5	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
10	2481.6	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
15	2426.6	2426.6	2428.8	2428.8	2428.8	2431.0	2428.8
20	2347.4	2349.6	2351.8	2354.0	2354.0	2354.0	2354.0
25	2246.2	2248.4	2250.6	2252.8	2255.0	2255.0	2255.0
30	2120.8	2134.0	2136.2	2138.4	2140.6	2140.6	2140.6
35	1982.2	1986.6	1988.8	1991.0	1991.0	1991.0	1991.0
40	1808.4	1808.4	1806.2	1808.4	1806.2	1804.0	1804.0
45	1606.0	1601.6	1597.2	1595.0	1592.8	1590.6	1588.4
50	1388.2	1383.8	1379.4	1372.8	1368.4	1366.2	1366.2
55	1172.6	1166.0	1157.2	1152.8	1146.2	1141.8	1141.8
60	965.8	954.8	946.0	939.4	930.6	926.2	924.0
65	772.2	763.4	754.6	745.8	739.2	734.8	732.6
70	616.0	607.2	598.4	591.8	585.2	580.8	580.8
75	492.8	488.4	479.6	475.2	470.8	466.4	466.4
80	411.4	409.2	402.6	398.2	393.8	391.6	391.6
85	363.0	360.8	356.4	352.0	349.8	347.6	347.6
90	347.6	343.2	343.2	338.8	334.4	334.4	334.4
95	363.0	360.8	356.4	352.0	349.8	347.6	347.6
100	411.4	409.2	402.6	398.2	393.8	391.6	391.6
105	492.8	488.4	479.6	475.2	470.8	466.4	466.4
110	616.0	607.2	598.4	591.8	585.2	580.8	580.8
115	772.2	763.4	754.6	745.8	739.2	734.8	732.6
120	965.8	954.8	946.0	939.4	930.6	926.2	924.0
125	1172.6	1166.0	1157.2	1152.8	1146.2	1141.8	1141.8
130	1388.2	1383.8	1379.4	1372.8	1368.4	1366.2	1366.2
135	1606.0	1601.6	1597.2	1595.0	1592.8	1590.6	1588.4
140	1808.4	1808.4	1806.2	1808.4	1806.2	1804.0	1804.0
145	1982.2	1986.6	1988.8	1991.0	1991.0	1991.0	1991.0
150	2120.8	2134.0	2136.2	2138.4	2140.6	2140.6	2140.6
155	2246.2	2248.4	2250.6	2252.8	2255.0	2255.0	2255.0
160	2347.4	2349.6	2351.8	2354.0	2354.0	2354.0	2354.0
165	2426.6	2426.6	2428.8	2428.8	2428.8	2431.0	2428.8
170	2481.6	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
175	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6	2514.6
180	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	922.76	N.A.	6.70
0-30	1952.04	N.A.	14.10
0-40	3169.74	N.A.	22.90
0-60	5387.44	N.A.	39.00
0-80	6586.08	N.A.	47.70
0-90	6906.52	N.A.	50.00
10-90	6667.56	N.A.	48.30
20-40	2246.97	N.A.	16.30
20-50	3452.35	N.A.	25.00
40-70	2945.98	N.A.	21.30
60-80	1198.63	N.A.	8.70
70-80	470.35	N.A.	3.40
80-90	320.45	N.A.	2.30
90-110	790.80	N.A.	5.70
90-120	1519.08	N.A.	11.00
90-130	2531.4	N.A.	18.30
90-150	4954.48	N.A.	35.90
90-180	6906.52	N.A.	50.00
110-180	6115.72	N.A.	44.30
0-180	13813.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.96
10-20	683.81
20-30	1029.28
30-40	1217.69
40-50	1205.38
50-60	1012.32
60-70	728.28
70-80	470.35
80-90	320.45
90-100	320.45
100-110	470.35
110-120	728.28
120-130	1012.32
130-140	1205.38
140-150	1217.69
150-160	1029.28
160-170	683.81
170-180	238.96

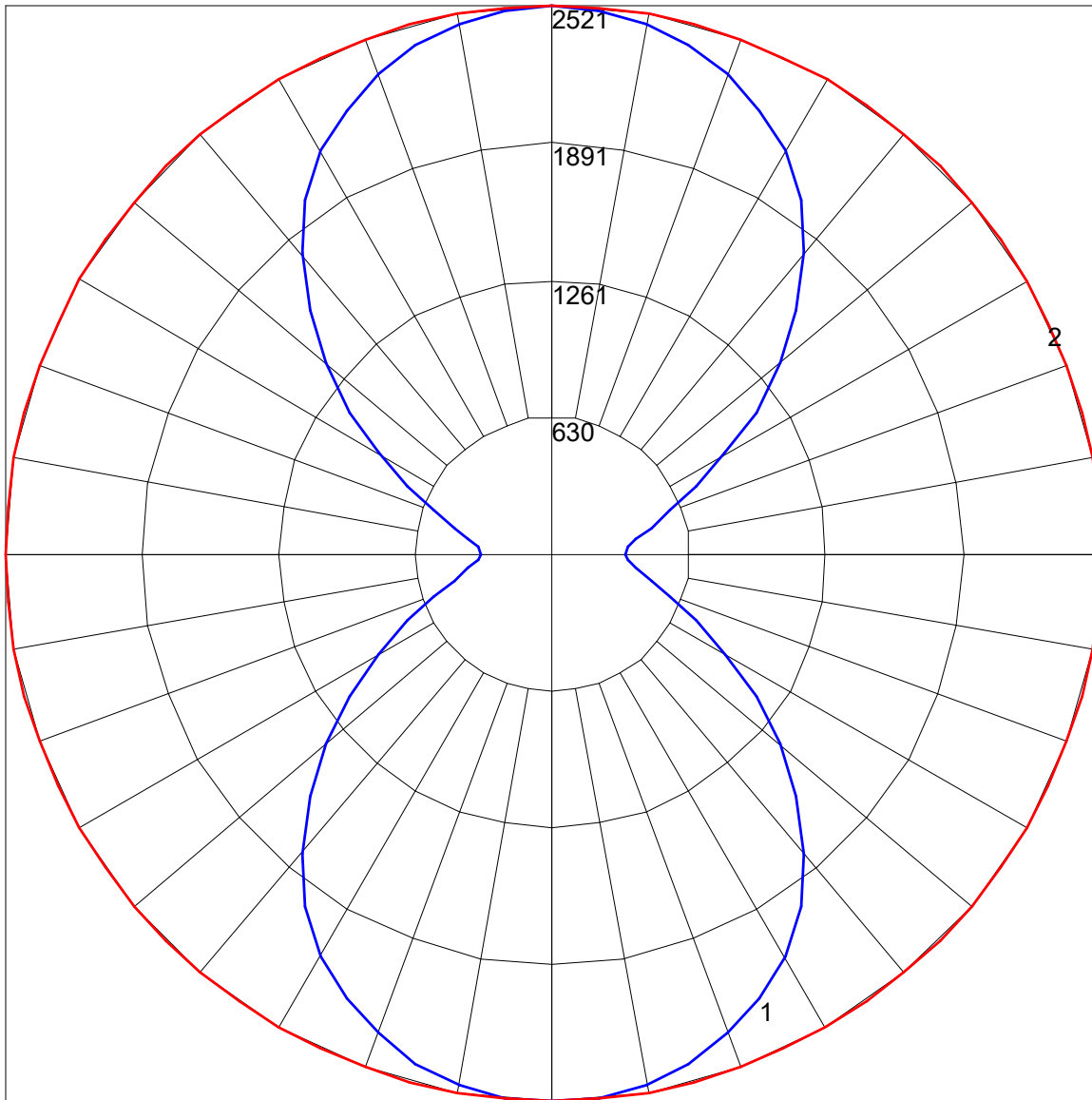
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_HO_35_22.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	89	86	82	79	72	70	67	60	58	57	49	48	46	41
2	88	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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.)