

**IES Report**

**ZipOne® | 707 | 100° Asymmetric | 80 CRI | SO**

**707-Z1-4-48-X-XX-X-0-Z-SO-35-A2-X-AL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	122
Total Lumens, 4' rail length (1219mm)	2962	3056	3118	3181
Lumens per foot (305mm)	741	764	780	795
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	85	85	85	85

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\_707\_Z1\_SO\_35\_A2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101707606 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z1-48-Z-SO-35-A2  
[LUMINAIRE] ZipOne LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 100° asymmetric lens, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26.17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	66562	64863	56515
55	62932	60291	49453
65	56364	52903	39925
75	48440	43999	29468
85	41956	34763	16183

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>	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
<b>5</b>	1445.36	1444.20	1444.20	1444.20	1443.04	1441.88	1440.72	1438.40	1437.24	1434.92
<b>10</b>	1455.80	1454.64	1454.64	1453.48	1452.32	1451.16	1448.84	1446.52	1444.20	1440.72
<b>15</b>	1443.04	1443.04	1441.88	1441.88	1439.56	1438.40	1437.24	1433.76	1431.44	1427.96
<b>20</b>	1412.88	1412.88	1412.88	1411.72	1410.56	1409.40	1407.08	1404.76	1401.28	1397.80
<b>25</b>	1366.48	1366.48	1366.48	1365.32	1365.32	1363.00	1360.68	1358.36	1356.04	1352.56
<b>30</b>	1306.16	1306.16	1306.16	1305.00	1303.84	1302.68	1300.36	1298.04	1295.72	1292.24
<b>35</b>	1233.08	1231.92	1231.92	1230.76	1228.44	1227.28	1224.96	1221.48	1219.16	1215.68
<b>40</b>	1146.08	1146.08	1144.92	1143.76	1141.44	1139.12	1135.64	1132.16	1128.68	1125.20
<b>45</b>	1045.16	1044.00	1042.84	1041.68	1038.20	1034.72	1031.24	1027.76	1023.12	1018.48
<b>50</b>	930.32	929.16	928.00	925.68	922.20	918.72	914.08	909.44	904.80	899.00
<b>55</b>	801.56	800.40	799.24	796.92	793.44	789.96	785.32	779.52	773.72	767.92
<b>60</b>	665.84	665.84	664.68	662.36	658.88	654.24	649.60	643.80	638.00	631.04
<b>65</b>	528.96	528.96	527.80	525.48	522.00	517.36	513.88	508.08	502.28	496.48
<b>70</b>	397.88	397.88	396.72	394.40	392.08	388.60	383.96	380.48	375.84	370.04
<b>75</b>	278.40	278.40	277.24	274.92	272.60	270.28	266.80	262.16	257.52	252.88
<b>80</b>	170.52	169.36	169.36	167.04	165.88	162.40	160.08	157.76	154.28	149.64
<b>85</b>	81.20	80.04	80.04	78.88	77.72	76.56	74.24	71.92	69.60	67.28
<b>90</b>	22.04	20.88	20.88	20.88	19.72	19.72	18.56	17.40	16.24	15.08
<b>95</b>	18.56	18.56	18.56	17.40	17.40	16.24	16.24	15.08	13.92	13.92
<b>100</b>	17.40	17.40	17.40	17.40	16.24	16.24	15.08	15.08	13.92	12.76
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
<b>5</b>	1432.60	1430.28	1426.80	1424.48	1421.00	1417.52	1412.88	1409.40	1405.92	1401.28
<b>10</b>	1437.24	1432.60	1427.96	1423.32	1417.52	1410.56	1403.60	1395.48	1387.36	1379.24
<b>15</b>	1423.32	1417.52	1412.88	1405.92	1397.80	1389.68	1380.40	1368.80	1356.04	1342.12
<b>20</b>	1393.16	1388.52	1382.72	1375.76	1366.48	1356.04	1343.28	1329.36	1313.12	1294.56
<b>25</b>	1347.92	1343.28	1336.32	1329.36	1318.92	1307.32	1293.40	1276.00	1255.12	1230.76
<b>30</b>	1287.60	1282.96	1276.00	1267.88	1258.60	1245.84	1229.60	1208.72	1184.36	1154.20
<b>35</b>	1211.04	1206.40	1199.44	1191.32	1182.04	1168.12	1150.72	1128.68	1099.68	1062.56
<b>40</b>	1120.56	1114.76	1108.96	1100.84	1090.40	1075.32	1056.76	1032.40	1001.08	959.32
<b>45</b>	1012.68	1006.88	999.92	991.80	981.36	967.44	947.72	922.20	887.40	839.84
<b>50</b>	892.04	886.24	878.12	870.00	859.56	844.48	824.76	798.08	762.12	713.40
<b>55</b>	760.96	754.00	745.88	736.60	725.00	711.08	691.36	664.68	629.88	582.32
<b>60</b>	624.08	615.96	607.84	598.56	588.12	574.20	555.64	531.28	498.80	453.56

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_SO\_35\_A2.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	489.52	481.40	473.28	464.00	452.40	439.64	423.40	402.52	374.68	338.72
<b>70</b>	363.08	356.12	348.00	339.88	329.44	317.84	303.92	286.52	264.48	237.80
<b>75</b>	247.08	241.28	235.48	227.36	219.24	209.96	199.52	185.60	169.36	150.80
<b>80</b>	146.16	141.52	135.72	131.08	124.12	117.16	110.20	100.92	91.64	81.20
<b>85</b>	63.80	61.48	58.00	54.52	49.88	45.24	40.60	35.96	31.32	27.84
<b>90</b>	13.92	12.76	11.60	9.28	8.12	5.80	3.48	2.32	0.00	0.00
<b>95</b>	12.76	11.60	10.44	9.28	6.96	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
<b>5</b>	1396.64	1392.00	1387.36	1383.88	1379.24	1374.60	1371.12	1366.48	1363.00	1359.52
<b>10</b>	1369.96	1359.52	1349.08	1338.64	1328.20	1317.76	1306.16	1295.72	1286.44	1277.16
<b>15</b>	1327.04	1310.80	1293.40	1274.84	1255.12	1235.40	1216.84	1197.12	1178.56	1161.16
<b>20</b>	1272.52	1248.16	1222.64	1194.80	1163.48	1133.32	1103.16	1070.68	1041.68	1011.52
<b>25</b>	1202.92	1170.44	1133.32	1095.04	1050.96	1006.88	962.80	918.72	874.64	835.20
<b>30</b>	1119.40	1076.48	1030.08	979.04	922.20	863.04	806.20	749.36	698.32	650.76
<b>35</b>	1019.64	967.44	910.60	844.48	778.36	711.08	643.80	581.16	527.80	480.24
<b>40</b>	908.28	847.96	780.68	707.60	631.04	559.12	490.68	431.52	382.80	341.04
<b>45</b>	785.32	716.88	643.80	568.40	490.68	422.24	361.92	312.04	272.60	240.12
<b>50</b>	655.40	585.80	512.72	438.48	368.88	310.88	261.00	222.72	193.72	170.52
<b>55</b>	525.48	459.36	385.12	330.60	272.60	226.20	190.24	161.24	140.36	125.28
<b>60</b>	393.24	349.16	290.00	240.12	197.20	163.56	136.88	117.16	102.08	91.64
<b>65</b>	296.96	252.88	209.96	172.84	141.52	117.16	98.60	84.68	75.40	67.28
<b>70</b>	206.48	175.16	145.00	119.48	97.44	81.20	69.60	59.16	52.20	47.56
<b>75</b>	131.08	111.36	95.12	76.56	62.64	52.20	45.24	38.28	34.80	31.32
<b>80</b>	70.76	59.16	48.72	40.60	33.64	29.00	24.36	20.88	18.56	17.40
<b>85</b>	24.36	20.88	17.40	13.92	11.60	10.44	9.28	8.12	6.96	6.96
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_SO\_35\_A2.IES**

**CANDELA TABULATION - (Cont.)**

140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
5	1357.20	1353.72	1352.56	1350.24	1349.08	1347.92	1347.92
10	1269.04	1262.08	1255.12	1250.48	1247.00	1244.68	1243.52
15	1144.92	1131.00	1118.24	1107.80	1100.84	1096.20	1095.04
20	986.00	962.80	943.08	926.84	915.24	908.28	905.96
25	799.24	767.92	742.40	721.52	706.44	697.16	694.84
30	609.00	574.20	546.36	525.48	509.24	499.96	497.64
35	439.64	408.32	382.80	364.24	351.48	344.52	342.20
40	308.56	283.04	263.32	249.40	240.12	234.32	232.00
45	215.76	197.20	184.44	174.00	168.20	164.72	163.56
50	153.12	141.52	132.24	125.28	121.80	119.48	118.32
55	112.52	104.40	98.60	93.96	91.64	89.32	89.32
60	83.52	77.72	73.08	70.76	68.44	67.28	67.28
65	61.48	58.00	54.52	52.20	51.04	49.88	49.88
70	42.92	40.60	38.28	37.12	35.96	35.96	34.80
75	29.00	26.68	25.52	24.36	23.20	23.20	23.20
80	16.24	15.08	13.92	13.92	12.76	12.76	12.76
85	5.80	5.80	5.80	5.80	4.64	4.64	4.64
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_SO\_35\_A2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	501.71	N.A.	16.10
0-30	1025.57	N.A.	32.90
0-40	1602.59	N.A.	51.40
0-60	2593.97	N.A.	83.20
0-80	3064.78	N.A.	98.30
0-90	3111.09	N.A.	99.80
10-90	2978.39	N.A.	95.50
20-40	1100.88	N.A.	35.30
20-50	1645.65	N.A.	52.80
40-70	1299.06	N.A.	41.70
60-80	470.81	N.A.	15.10
70-80	163.13	N.A.	5.20
80-90	46.31	N.A.	1.50
90-110	7.28	N.A.	0.20
90-120	7.28	N.A.	0.20
90-130	7.28	N.A.	0.20
90-150	7.28	N.A.	0.20
90-180	7.28	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	3118.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.70
10-20	369.01
20-30	523.86
30-40	577.02
40-50	544.77
50-60	446.61
60-70	307.68
70-80	163.13
80-90	46.31
90-100	6.16
100-110	1.12
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

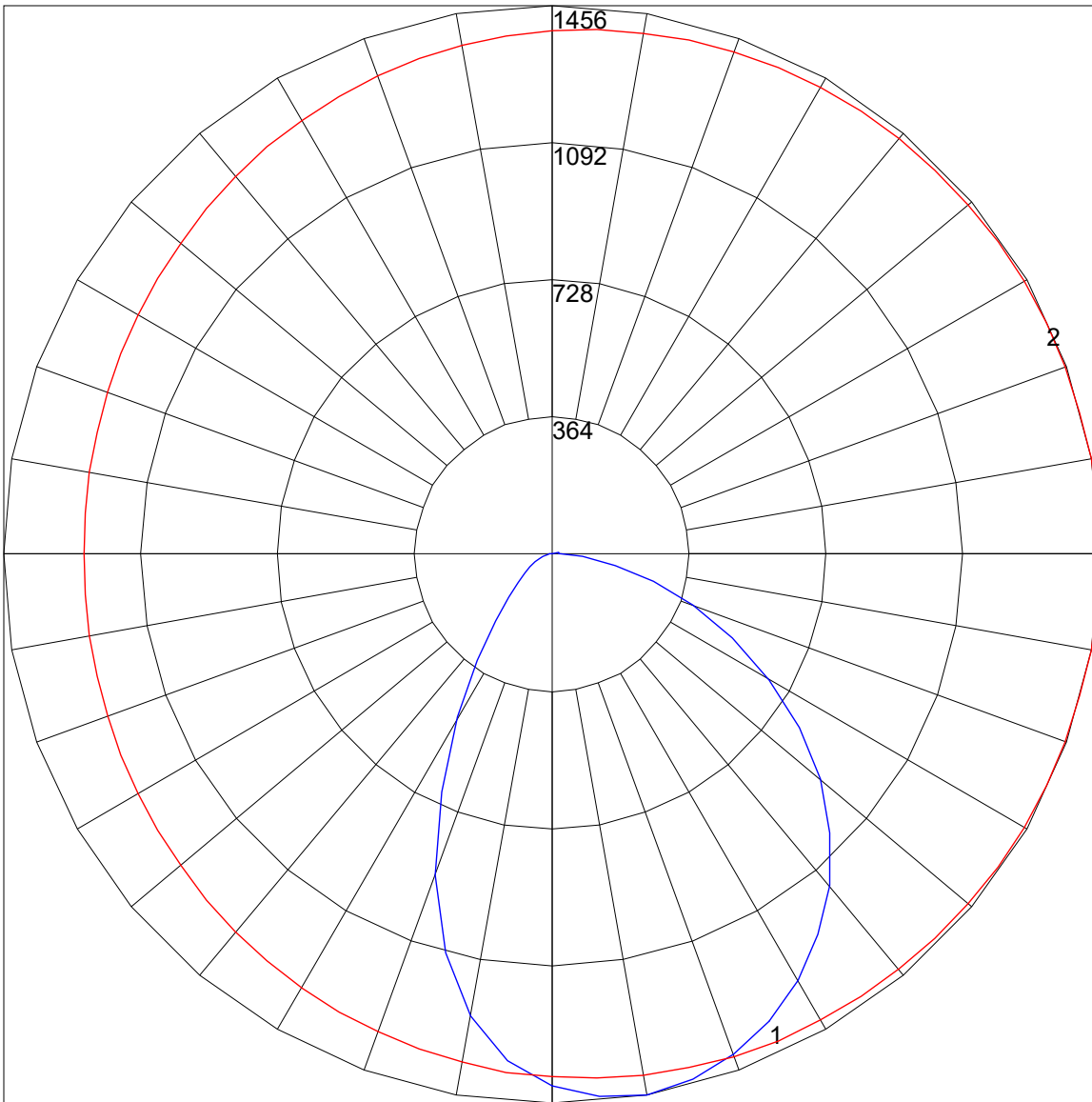
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z1\_SO\_35\_A2.IES**

**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	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	96	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	78	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	64	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	55	82	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	47	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	41	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	36	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	32	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	29	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	26	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 1455.8 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)