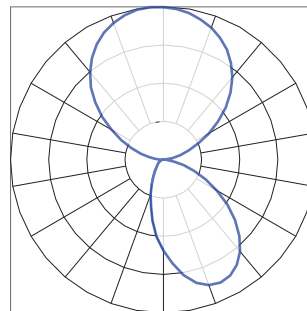


# ZipThree™ | 707

707-Z3-4-48-X-X-X-0-Z-SO-35-B2-0-X

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



## Details

Rail Type / Length	ZipThree, 48"
LED Type	Zipper Board
Lumen Output	Standard Output
Color Temperature	3500K, 80+ CRI
Optics	Ceiling Wash Uplight, Wall Graze Downlight (with Edge Glow)

## Performance Summary

Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	113
Total Lumens, 4' rail (1219mm)	5506	5679	5795	5911
Lumens per foot (305 mm)	1376	1420	1449	1478
Uplight Lumens per foot (305mm)	866	893	911	930
Downlight Lumens per foot (305mm)	511	527	537	548
Input Power (W), 4' rail (1219mm)	52.3	52.3	52.3	52.3
Watts per foot (305mm)	13.1	13.1	13.1	13.1
CRI	-	-	85	-

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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_B2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704237 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-48-Z-SO-35-B2  
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] ceiling wash up/wall graze down w/edge glow, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	52.44
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)	0.19 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17435	17215	10697
55	14904	15136	9586
65	11305	11770	7857
75	7355	7884	5791
85	2534	2850	3277

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_B2.IES**

**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94
<b>5</b>	923.94	922.76	921.58	919.22	916.86	912.14	907.42	902.70	895.62	888.54
<b>10</b>	1045.48	1044.30	1041.94	1037.22	1031.32	1023.06	1014.80	1003.00	991.20	977.04
<b>15</b>	1135.16	1133.98	1130.44	1125.72	1117.46	1108.02	1096.22	1080.88	1064.36	1045.48
<b>20</b>	1188.26	1187.08	1183.54	1177.64	1170.56	1159.94	1146.96	1131.62	1113.92	1091.50
<b>25</b>	1205.96	1204.78	1201.24	1196.52	1189.44	1180.00	1167.02	1152.86	1133.98	1112.74
<b>30</b>	1190.62	1189.44	1187.08	1182.36	1176.46	1168.20	1157.58	1143.42	1128.08	1108.02
<b>35</b>	1142.24	1142.24	1139.88	1136.34	1131.62	1125.72	1116.28	1105.66	1091.50	1073.80
<b>40</b>	1063.18	1063.18	1062.00	1059.64	1056.10	1051.38	1045.48	1037.22	1026.60	1012.44
<b>45</b>	958.16	956.98	956.98	955.80	953.44	951.08	946.36	940.46	933.38	922.76
<b>50</b>	830.72	830.72	830.72	829.54	828.36	827.18	824.82	821.28	816.56	809.48
<b>55</b>	691.48	691.48	691.48	690.30	690.30	689.12	687.94	685.58	683.22	678.50
<b>60</b>	548.70	548.70	548.70	548.70	548.70	547.52	547.52	546.34	543.98	541.62
<b>65</b>	411.82	413.00	413.00	413.00	413.00	411.82	411.82	411.82	409.46	408.28
<b>70</b>	292.64	292.64	292.64	292.64	292.64	292.64	292.64	291.46	291.46	290.28
<b>75</b>	186.44	186.44	186.44	186.44	186.44	186.44	186.44	186.44	186.44	185.26
<b>80</b>	99.12	99.12	99.12	99.12	99.12	99.12	99.12	99.12	99.12	97.94
<b>85</b>	34.22	34.22	34.22	34.22	34.22	34.22	34.22	34.22	34.22	33.04
<b>90</b>	1.18	1.18	1.18	2.36	2.36	2.36	2.36	2.36	2.36	1.18
<b>95</b>	30.68	30.68	31.86	31.86	31.86	31.86	33.04	33.04	34.22	34.22
<b>100</b>	83.78	83.78	83.78	84.96	86.14	87.32	88.50	89.68	90.86	93.22
<b>105</b>	153.40	153.40	154.58	155.76	156.94	159.30	161.66	164.02	166.38	168.74
<b>110</b>	240.72	240.72	241.90	243.08	245.44	247.80	251.34	254.88	258.42	261.96
<b>115</b>	344.56	345.74	346.92	348.10	351.64	355.18	357.54	362.26	365.80	370.52
<b>120</b>	464.92	464.92	466.10	468.46	472.00	474.36	479.08	482.62	487.34	492.06
<b>125</b>	593.54	593.54	594.72	597.08	599.44	602.98	606.52	610.06	614.78	618.32
<b>130</b>	720.98	722.16	722.16	724.52	726.88	729.24	732.78	736.32	741.04	745.76
<b>135</b>	841.34	841.34	842.52	843.70	846.06	848.42	851.96	855.50	859.04	863.76
<b>140</b>	951.08	951.08	952.26	953.44	954.62	956.98	960.52	962.88	965.24	968.78
<b>145</b>	1046.66	1047.84	1047.84	1049.02	1050.20	1051.38	1052.56	1054.92	1057.28	1058.46
<b>150</b>	1128.08	1128.08	1128.08	1129.26	1129.26	1130.44	1130.44	1131.62	1133.98	1135.16
<b>155</b>	1192.98	1192.98	1192.98	1192.98	1194.16	1195.34	1195.34	1196.52	1197.70	1198.88
<b>160</b>	1246.08	1246.08	1246.08	1246.08	1246.08	1247.26	1247.26	1248.44	1249.62	1250.80
<b>165</b>	1287.38	1287.38	1287.38	1287.38	1288.56	1288.56	1289.74	1290.92	1290.92	1292.10
<b>170</b>	1319.24	1319.24	1320.42	1320.42	1320.42	1320.42	1321.60	1321.60	1322.78	1323.96
<b>175</b>	1342.84	1342.84	1342.84	1342.84	1342.84	1342.84	1342.84	1344.02	1344.02	1344.02
<b>180</b>	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>	<b>95</b>
<b>0</b>	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94
<b>5</b>	881.46	873.20	863.76	854.32	844.88	835.44	824.82	814.20	803.58	792.96
<b>10</b>	960.52	942.82	925.12	905.06	885.00	862.58	841.34	818.92	795.32	772.90
<b>15</b>	1024.24	1000.64	973.50	944.00	914.50	881.46	849.60	814.20	778.80	744.58
<b>20</b>	1067.90	1038.40	1006.54	971.14	933.38	890.90	847.24	802.40	756.38	711.54
<b>25</b>	1086.78	1057.28	1021.88	982.94	939.28	889.72	836.62	783.52	726.88	671.42
<b>30</b>	1083.24	1053.74	1018.34	977.04	931.02	876.74	816.56	755.20	691.48	626.58
<b>35</b>	1052.56	1025.42	992.38	952.26	905.06	849.60	785.88	717.44	645.46	575.84
<b>40</b>	993.56	971.14	941.64	905.06	861.40	805.94	741.04	670.24	595.90	516.84
<b>45</b>	908.60	890.90	867.30	835.44	796.50	746.94	683.22	610.06	534.54	454.30
<b>50</b>	800.04	787.06	769.36	744.58	710.36	666.70	608.88	541.62	464.92	389.40
<b>55</b>	672.60	663.16	651.36	632.48	605.34	568.76	519.20	460.20	389.40	320.96
<b>60</b>	538.08	532.18	522.74	508.58	488.52	460.20	420.08	371.70	313.88	254.88

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

65	405.92	401.20	395.30	383.50	371.70	350.46	320.96	283.20	236.00	192.34
70	287.92	284.38	279.66	273.76	263.14	247.80	226.56	199.42	167.56	135.70
75	184.08	182.90	179.36	174.64	168.74	159.30	145.14	128.62	107.38	88.50
80	97.94	96.76	95.58	93.22	90.86	84.96	79.06	69.62	59.00	49.56
85	33.04	33.04	33.04	33.04	31.86	30.68	28.32	24.78	21.24	18.88
90	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	3.54	4.72
95	35.40	35.40	36.58	36.58	37.76	38.94	40.12	40.12	41.30	43.66
100	94.40	95.58	97.94	99.12	101.48	102.66	103.84	105.02	106.20	108.56
105	172.28	174.64	177.00	180.54	182.90	184.08	186.44	187.62	189.98	191.16
110	265.50	270.22	273.76	276.12	279.66	282.02	284.38	285.56	287.92	290.28
115	375.24	379.96	384.68	388.22	391.76	394.12	396.48	398.84	401.20	403.56
120	496.78	501.50	506.22	509.76	513.30	516.84	519.20	522.74	526.28	528.64
125	623.04	628.94	632.48	637.20	640.74	643.10	646.64	650.18	653.72	656.08
130	749.30	754.02	757.56	761.10	764.64	767.00	770.54	774.08	778.80	781.16
135	867.30	870.84	873.20	875.56	879.10	882.64	886.18	889.72	893.26	897.98
140	971.14	973.50	975.86	978.22	981.76	985.30	988.84	992.38	995.92	1000.64
145	1060.82	1063.18	1064.36	1067.90	1070.26	1073.80	1077.34	1080.88	1084.42	1089.14
150	1136.34	1138.70	1141.06	1143.42	1145.78	1149.32	1151.68	1155.22	1158.76	1162.30
155	1200.06	1202.42	1203.60	1205.96	1208.32	1210.68	1214.22	1217.76	1220.12	1223.66
160	1251.98	1254.34	1255.52	1257.88	1260.24	1262.60	1264.96	1267.32	1269.68	1272.04
165	1293.28	1294.46	1296.82	1298.00	1300.36	1301.54	1303.90	1305.08	1307.44	1309.80
170	1323.96	1325.14	1326.32	1327.50	1328.68	1329.86	1332.22	1333.40	1334.58	1335.76
175	1345.20	1345.20	1346.38	1346.38	1347.56	1347.56	1348.74	1348.74	1349.92	1349.92
180	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94	805.94
5	783.52	772.90	762.28	752.84	743.40	735.14	725.70	718.62	711.54	705.64
10	749.30	726.88	704.46	684.40	663.16	645.46	628.94	612.42	598.26	585.28
15	711.54	676.14	644.28	613.60	584.10	558.14	533.36	510.94	492.06	475.54
20	666.70	621.86	580.56	541.62	505.04	473.18	446.04	420.08	398.84	379.96
25	617.14	564.04	514.48	470.82	430.70	396.48	366.98	339.84	317.42	299.72
30	564.04	502.68	449.58	403.56	359.90	325.68	296.18	270.22	248.98	230.10
35	505.04	441.32	385.86	338.66	296.18	261.96	233.64	210.04	189.98	173.46
40	444.86	381.14	325.68	279.66	238.36	207.68	181.72	160.48	142.78	129.80
45	383.50	318.60	266.68	223.02	188.80	160.48	138.06	120.36	107.38	99.12
50	320.96	261.96	211.22	174.64	145.14	122.72	105.02	92.04	83.78	76.70
55	259.60	207.68	166.38	134.52	109.74	95.58	81.42	71.98	66.08	62.54
60	202.96	160.48	126.26	102.66	83.78	71.98	63.72	57.82	53.10	50.74
65	152.22	119.18	96.76	76.70	63.72	55.46	49.56	44.84	42.48	40.12
70	108.56	84.96	68.44	56.64	47.20	41.30	37.76	34.22	31.86	30.68
75	70.80	56.64	46.02	38.94	33.04	28.32	25.96	23.60	22.42	21.24
80	40.12	33.04	27.14	22.42	20.06	17.70	15.34	14.16	14.16	12.98
85	16.52	12.98	11.80	9.44	8.26	8.26	7.08	7.08	5.90	5.90
90	5.90	7.08	9.44	10.62	12.98	15.34	17.70	20.06	22.42	24.78
95	44.84	47.20	49.56	51.92	54.28	56.64	59.00	61.36	63.72	66.08
100	109.74	112.10	113.28	115.64	118.00	119.18	121.54	122.72	125.08	126.26
105	192.34	194.70	195.88	197.06	199.42	200.60	201.78	202.96	204.14	205.32
110	291.46	292.64	293.82	295.00	296.18	297.36	298.54	299.72	299.72	300.90
115	405.92	407.10	407.10	408.28	408.28	409.46	409.46	410.64	410.64	411.82
120	531.00	531.00	532.18	532.18	532.18	533.36	533.36	534.54	534.54	534.54
125	658.44	660.80	660.80	660.80	661.98	661.98	661.98	663.16	663.16	663.16
130	784.70	787.06	788.24	788.24	789.42	789.42	789.42	790.60	790.60	790.60
135	900.34	903.88	905.06	906.24	907.42	907.42	907.42	907.42	907.42	907.42

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>140</b>	1003.00	1006.54	1008.90	1010.08	1011.26	1011.26	1012.44	1012.44	1012.44	1012.44
<b>145</b>	1091.50	1095.04	1097.40	1098.58	1099.76	1100.94	1102.12	1103.30	1103.30	1103.30
<b>150</b>	1165.84	1169.38	1171.74	1172.92	1175.28	1176.46	1177.64	1178.82	1178.82	1180.00
<b>155</b>	1227.20	1229.56	1231.92	1234.28	1235.46	1237.82	1237.82	1240.18	1240.18	1241.36
<b>160</b>	1275.58	1276.76	1279.12	1281.48	1283.84	1285.02	1286.20	1287.38	1288.56	1289.74
<b>165</b>	1312.16	1313.34	1315.70	1316.88	1319.24	1320.42	1321.60	1322.78	1323.96	1323.96
<b>170</b>	1336.94	1338.12	1339.30	1340.48	1341.66	1342.84	1344.02	1345.20	1345.20	1346.38
<b>175</b>	1351.10	1351.10	1352.28	1352.28	1353.46	1353.46	1354.64	1354.64	1355.82	1355.82
<b>180</b>	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46

**Vert. Horizontal Angles**  
**Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	805.94	805.94	805.94	805.94	805.94	805.94	805.94
<b>5</b>	699.74	695.02	690.30	687.94	685.58	684.40	683.22
<b>10</b>	574.66	565.22	556.96	551.06	547.52	543.98	543.98
<b>15</b>	461.38	449.58	438.96	431.88	425.98	423.62	422.44
<b>20</b>	364.62	351.64	341.02	333.94	328.04	324.50	323.32
<b>25</b>	283.20	271.40	260.78	252.52	247.80	244.26	243.08
<b>30</b>	215.94	204.14	194.70	187.62	181.72	179.36	178.18
<b>35</b>	160.48	149.86	141.60	135.70	132.16	129.80	128.62
<b>40</b>	119.18	110.92	105.02	101.48	99.12	97.94	96.76
<b>45</b>	90.86	86.14	82.60	80.24	77.88	76.70	76.70
<b>50</b>	71.98	69.62	67.26	64.90	63.72	63.72	63.72
<b>55</b>	59.00	56.64	55.46	54.28	54.28	53.10	53.10
<b>60</b>	48.38	47.20	46.02	44.84	44.84	43.66	43.66
<b>65</b>	38.94	37.76	36.58	35.40	35.40	35.40	35.40
<b>70</b>	29.50	28.32	27.14	27.14	27.14	25.96	25.96
<b>75</b>	20.06	20.06	18.88	18.88	18.88	18.88	17.70
<b>80</b>	12.98	11.80	11.80	11.80	11.80	10.62	10.62
<b>85</b>	5.90	5.90	5.90	5.90	5.90	4.72	4.72
<b>90</b>	25.96	28.32	29.50	30.68	31.86	33.04	33.04
<b>95</b>	67.26	69.62	70.80	71.98	73.16	73.16	73.16
<b>100</b>	128.62	129.80	129.80	130.98	132.16	132.16	132.16
<b>105</b>	206.50	206.50	207.68	207.68	207.68	207.68	207.68
<b>110</b>	300.90	300.90	300.90	300.90	300.90	300.90	300.90
<b>115</b>	411.82	411.82	411.82	411.82	410.64	410.64	410.64
<b>120</b>	534.54	534.54	534.54	534.54	534.54	534.54	534.54
<b>125</b>	663.16	663.16	663.16	663.16	663.16	663.16	663.16
<b>130</b>	790.60	790.60	790.60	790.60	790.60	790.60	790.60
<b>135</b>	907.42	908.60	908.60	908.60	908.60	908.60	908.60
<b>140</b>	1012.44	1012.44	1013.62	1013.62	1013.62	1013.62	1013.62
<b>145</b>	1103.30	1104.48	1104.48	1104.48	1104.48	1104.48	1104.48
<b>150</b>	1180.00	1181.18	1181.18	1181.18	1181.18	1182.36	1181.18
<b>155</b>	1242.54	1242.54	1243.72	1243.72	1243.72	1243.72	1243.72
<b>160</b>	1290.92	1290.92	1290.92	1292.10	1292.10	1292.10	1292.10
<b>165</b>	1325.14	1325.14	1326.32	1326.32	1326.32	1326.32	1327.50
<b>170</b>	1346.38	1347.56	1347.56	1348.74	1348.74	1348.74	1348.74
<b>175</b>	1355.82	1355.82	1355.82	1355.82	1357.00	1357.00	1357.00
<b>180</b>	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46	1353.46

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_B2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	296.26	N.A.	5.10
0-30	630.67	N.A.	10.90
0-40	1031.31	N.A.	17.80
0-60	1772.99	N.A.	30.70
0-80	2114.47	N.A.	36.60
0-90	2144.13	N.A.	37.10
10-90	2067.71	N.A.	35.80
20-40	735.04	N.A.	12.70
20-50	1138.31	N.A.	19.70
40-70	969.82	N.A.	16.80
60-80	341.47	N.A.	5.90
70-80	113.34	N.A.	2.00
80-90	29.66	N.A.	0.50
90-110	258.41	N.A.	4.50
90-120	647.75	N.A.	11.20
90-130	1220.67	N.A.	21.10
90-150	2576.5	N.A.	44.60
90-180	3635.62	N.A.	62.90
110-180	3377.2	N.A.	58.40
0-180	5779.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.42
10-20	219.84
20-30	334.41
30-40	400.64
40-50	403.27
50-60	338.42
60-70	228.14
70-80	113.34
80-90	29.66
90-100	58.15
100-110	200.27
110-120	389.33
120-130	572.92
130-140	680.95
140-150	674.88
150-160	561.74
160-170	369.06
170-180	128.32

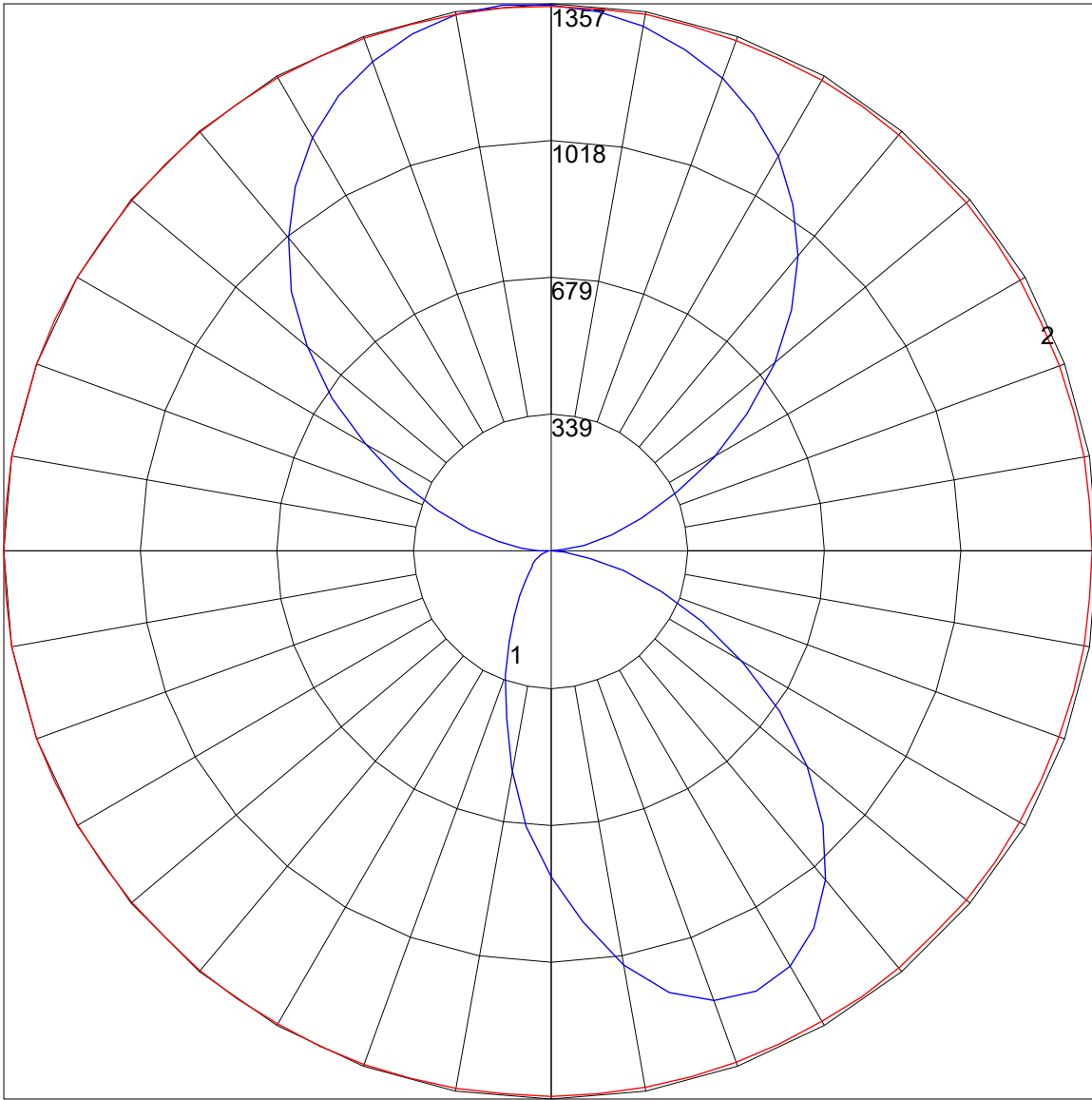
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_B2.IES**

**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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	39	38	38	32
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

POLAR GRAPH



Maximum Candela = 1357 Located At Horizontal Angle = 170, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)