

## IES Report

ZipThree® | 707 | Symmetric, up | 85° Asymmetric , down | 80 CRI | SO

707-Z3-4-48-XX-XX-X-0-Z-SO-35-U1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	129	133	136	136
Total Lumens, 4' rail length (1219mm)	6727	6939	7081	7081
Lumens per foot (305mm)	1682	1735	1770	1770
Lumens per foot UP (305mm)	997	1029	1050	1050
Lumens per foot DOWN (305mm)	684	706	720	720
Input Power (W), 4' rail length (1219mm)	52.2	52.2	52.2	52.2
Watts per foot (305mm)	13.1	13.1	13.1	13.1
CRI	82	82	82	82

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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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_U1A1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-SO-35-U1A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens up/85° asymmetric lens down,

[MORE] standard 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	7081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	52.83
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)	0.17 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	23026	22937	17642
55	19952	20278	15415
65	15676	16185	12473
75	10890	11409	9230
85	4872	5205	5401

**IES INDOOR REPORT**  
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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>	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
<b>5</b>	1360.68	1360.68	1359.52	1357.20	1354.88	1351.40	1347.92	1343.28	1337.48	1331.68
<b>10</b>	1443.04	1441.88	1440.72	1437.24	1433.76	1426.80	1421.00	1412.88	1402.44	1393.16
<b>15</b>	1487.12	1485.96	1483.64	1480.16	1475.52	1468.56	1460.44	1451.16	1439.56	1425.64
<b>20</b>	1496.40	1495.24	1494.08	1490.60	1485.96	1477.84	1469.72	1459.28	1447.68	1433.76
<b>25</b>	1476.68	1476.68	1474.36	1470.88	1466.24	1459.28	1452.32	1441.88	1429.12	1415.20
<b>30</b>	1433.76	1432.60	1431.44	1427.96	1423.32	1416.36	1409.40	1398.96	1387.36	1374.60
<b>35</b>	1364.16	1364.16	1361.84	1359.52	1354.88	1349.08	1342.12	1334.00	1322.40	1309.64
<b>40</b>	1267.88	1266.72	1266.72	1264.40	1260.92	1256.28	1250.48	1242.36	1233.08	1221.48
<b>45</b>	1144.92	1144.92	1143.76	1142.60	1140.28	1135.64	1132.16	1126.36	1118.24	1108.96
<b>50</b>	999.92	999.92	998.76	998.76	996.44	994.12	990.64	987.16	981.36	973.24
<b>55</b>	841.00	841.00	841.00	839.84	838.68	837.52	835.20	831.72	827.08	822.44
<b>60</b>	678.60	678.60	678.60	677.44	676.28	676.28	673.96	671.64	668.16	663.52
<b>65</b>	522.00	522.00	522.00	522.00	520.84	519.68	518.52	517.36	513.88	510.40
<b>70</b>	381.64	381.64	381.64	381.64	380.48	380.48	379.32	377.00	374.68	372.36
<b>75</b>	255.20	255.20	255.20	255.20	254.04	254.04	252.88	250.56	249.40	245.92
<b>80</b>	147.32	147.32	147.32	147.32	147.32	146.16	145.00	143.84	142.68	140.36
<b>85</b>	62.64	62.64	62.64	62.64	61.48	60.32	60.32	59.16	58.00	56.84
<b>90</b>	23.20	23.20	22.04	22.04	20.88	19.72	18.56	16.24	15.08	13.92
<b>95</b>	69.60	69.60	69.60	68.44	67.28	66.12	64.96	63.80	61.48	60.32
<b>100</b>	135.72	135.72	135.72	134.56	134.56	133.40	133.40	132.24	131.08	129.92
<b>105</b>	220.40	220.40	220.40	220.40	220.40	220.40	220.40	219.24	219.24	219.24
<b>110</b>	322.48	322.48	323.64	323.64	323.64	323.64	324.80	324.80	325.96	325.96
<b>115</b>	440.80	441.96	441.96	441.96	443.12	444.28	445.44	446.60	447.76	448.92
<b>120</b>	574.20	574.20	575.36	575.36	576.52	577.68	580.00	581.16	583.48	585.80
<b>125</b>	716.88	716.88	716.88	718.04	719.20	721.52	722.68	725.00	728.48	730.80
<b>130</b>	860.72	860.72	861.88	863.04	864.20	865.36	867.68	870.00	873.48	875.80
<b>135</b>	998.76	999.92	999.92	1001.08	1003.40	1004.56	1006.88	1009.20	1011.52	1015.00
<b>140</b>	1127.52	1127.52	1127.52	1128.68	1129.84	1132.16	1133.32	1135.64	1137.96	1140.28
<b>145</b>	1238.88	1238.88	1238.88	1240.04	1241.20	1242.36	1243.52	1245.84	1247.00	1248.16
<b>150</b>	1334.00	1334.00	1334.00	1334.00	1335.16	1336.32	1337.48	1338.64	1339.80	1340.96
<b>155</b>	1411.72	1411.72	1411.72	1411.72	1412.88	1412.88	1414.04	1414.04	1415.20	1415.20
<b>160</b>	1473.20	1473.20	1473.20	1473.20	1474.36	1474.36	1474.36	1474.36	1475.52	1475.52
<b>165</b>	1519.60	1519.60	1519.60	1519.60	1519.60	1519.60	1519.60	1520.76	1520.76	1520.76
<b>170</b>	1550.92	1550.92	1552.08	1550.92	1550.92	1550.92	1550.92	1552.08	1552.08	1552.08
<b>175</b>	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48
<b>180</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12

**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>	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
<b>5</b>	1324.72	1317.76	1309.64	1301.52	1292.24	1282.96	1273.68	1263.24	1252.80	1241.20
<b>10</b>	1380.40	1367.64	1352.56	1336.32	1318.92	1300.36	1280.64	1259.76	1236.56	1212.20
<b>15</b>	1410.56	1393.16	1373.44	1352.56	1328.20	1302.68	1273.68	1243.52	1208.72	1172.76
<b>20</b>	1415.20	1396.64	1374.60	1350.24	1321.24	1289.92	1252.80	1213.36	1169.28	1121.72
<b>25</b>	1397.80	1378.08	1354.88	1328.20	1295.72	1258.60	1218.00	1171.60	1118.24	1059.08
<b>30</b>	1358.36	1337.48	1314.28	1286.44	1252.80	1213.36	1168.12	1117.08	1054.44	986.00
<b>35</b>	1294.56	1274.84	1251.64	1223.80	1191.32	1150.72	1103.16	1046.32	979.04	902.48
<b>40</b>	1206.40	1187.84	1168.12	1141.44	1108.96	1068.36	1019.64	961.64	889.72	808.52
<b>45</b>	1096.20	1079.96	1060.24	1035.88	1005.72	966.28	918.72	860.72	788.80	705.28
<b>50</b>	962.80	950.04	932.64	909.44	882.76	846.80	800.40	745.88	675.12	597.40
<b>55</b>	813.16	802.72	788.80	769.08	745.88	713.40	672.80	621.76	560.28	488.36
<b>60</b>	657.72	648.44	636.84	621.76	600.88	574.20	539.40	496.48	443.12	381.64

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

<b>65</b>	504.60	497.64	488.36	475.60	459.36	438.48	410.64	377.00	335.24	285.36
<b>70</b>	367.72	361.92	354.96	344.52	331.76	315.52	294.64	269.12	237.80	201.84
<b>75</b>	242.44	238.96	233.16	226.20	216.92	206.48	191.40	174.00	153.12	131.08
<b>80</b>	138.04	134.56	131.08	126.44	120.64	114.84	105.56	96.28	84.68	71.92
<b>85</b>	54.52	53.36	51.04	48.72	46.40	42.92	40.60	35.96	31.32	26.68
<b>90</b>	11.60	10.44	8.12	6.96	5.80	4.64	3.48	3.48	2.32	3.48
<b>95</b>	58.00	55.68	54.52	52.20	51.04	49.88	48.72	47.56	46.40	47.56
<b>100</b>	128.76	126.44	125.28	124.12	122.96	121.80	121.80	120.64	119.48	120.64
<b>105</b>	219.24	218.08	218.08	216.92	216.92	215.76	215.76	215.76	214.60	215.76
<b>110</b>	325.96	327.12	327.12	328.28	328.28	328.28	328.28	328.28	328.28	328.28
<b>115</b>	450.08	451.24	452.40	453.56	454.72	455.88	457.04	457.04	457.04	457.04
<b>120</b>	586.96	589.28	591.60	593.92	596.24	597.40	598.56	598.56	598.56	598.56
<b>125</b>	733.12	735.44	738.92	741.24	743.56	744.72	745.88	747.04	747.04	747.04
<b>130</b>	879.28	881.60	885.08	887.40	889.72	890.88	892.04	893.20	893.20	893.20
<b>135</b>	1017.32	1019.64	1021.96	1024.28	1026.60	1027.76	1028.92	1030.08	1030.08	1030.08
<b>140</b>	1142.60	1144.92	1146.08	1148.40	1149.56	1150.72	1151.88	1153.04	1153.04	1153.04
<b>145</b>	1250.48	1251.64	1253.96	1253.96	1256.28	1256.28	1257.44	1257.44	1258.60	1257.44
<b>150</b>	1342.12	1343.28	1343.28	1344.44	1345.60	1345.60	1345.60	1346.76	1346.76	1346.76
<b>155</b>	1416.36	1416.36	1417.52	1417.52	1418.68	1418.68	1418.68	1418.68	1418.68	1418.68
<b>160</b>	1476.68	1476.68	1476.68	1476.68	1476.68	1476.68	1477.84	1477.84	1477.84	1477.84
<b>165</b>	1520.76	1520.76	1520.76	1520.76	1521.92	1521.92	1521.92	1521.92	1521.92	1521.92
<b>170</b>	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08
<b>175</b>	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1570.64	1569.48	1569.48	1569.48
<b>180</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12

**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>	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
<b>5</b>	1230.76	1220.32	1208.72	1198.28	1189.00	1178.56	1169.28	1160.00	1151.88	1143.76
<b>10</b>	1189.00	1164.64	1139.12	1114.76	1090.40	1067.20	1045.16	1021.96	1002.24	983.68
<b>15</b>	1135.64	1097.36	1056.76	1016.16	977.88	939.60	903.64	867.68	836.36	807.36
<b>20</b>	1069.52	1017.32	962.80	908.28	852.60	801.56	754.00	708.76	670.48	634.52
<b>25</b>	996.44	929.16	859.56	793.44	723.84	664.68	610.16	560.28	518.52	482.56
<b>30</b>	912.92	832.88	752.84	676.28	600.88	537.08	481.40	432.68	392.08	358.44
<b>35</b>	820.12	731.96	643.80	562.60	486.04	424.56	372.36	328.28	292.32	265.64
<b>40</b>	720.36	627.56	537.08	458.20	385.12	329.44	284.20	247.08	218.08	197.20
<b>45</b>	617.12	524.32	437.32	364.24	300.44	252.88	215.76	186.76	165.88	149.64
<b>50</b>	512.72	426.88	350.32	286.52	233.16	194.88	165.88	143.84	128.76	117.16
<b>55</b>	397.88	336.40	272.60	220.40	178.64	149.64	127.60	111.36	100.92	93.96
<b>60</b>	319.00	258.68	207.64	168.20	135.72	113.68	98.60	88.16	80.04	74.24
<b>65</b>	237.80	191.40	153.12	124.12	103.24	87.00	75.40	67.28	61.48	58.00
<b>70</b>	168.20	136.88	109.04	91.64	74.24	63.80	55.68	49.88	46.40	42.92
<b>75</b>	109.04	90.48	73.08	60.32	49.88	42.92	38.28	34.80	31.32	29.00
<b>80</b>	60.32	49.88	40.60	33.64	29.00	25.52	22.04	19.72	18.56	17.40
<b>85</b>	23.20	19.72	16.24	13.92	11.60	10.44	9.28	9.28	8.12	8.12
<b>90</b>	3.48	4.64	5.80	6.96	8.12	10.44	11.60	13.92	15.08	16.24
<b>95</b>	48.72	49.88	51.04	52.20	54.52	55.68	58.00	60.32	61.48	63.80
<b>100</b>	121.80	121.80	122.96	124.12	125.28	126.44	128.76	129.92	131.08	132.24
<b>105</b>	215.76	215.76	216.92	216.92	218.08	218.08	219.24	219.24	219.24	219.24
<b>110</b>	328.28	328.28	328.28	328.28	327.12	327.12	325.96	325.96	325.96	324.80
<b>115</b>	457.04	455.88	454.72	453.56	452.40	451.24	450.08	448.92	447.76	446.60
<b>120</b>	598.56	597.40	596.24	593.92	591.60	589.28	586.96	585.80	583.48	581.16
<b>125</b>	745.88	744.72	743.56	741.24	738.92	735.44	733.12	730.80	728.48	725.00
<b>130</b>	892.04	890.88	889.72	887.40	885.08	881.60	879.28	875.80	873.48	870.00
<b>135</b>	1028.92	1027.76	1026.60	1024.28	1021.96	1019.64	1017.32	1015.00	1011.52	1009.20

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

<b>140</b>	1151.88	1150.72	1149.56	1148.40	1146.08	1144.92	1142.60	1140.28	1137.96	1135.64
<b>145</b>	1257.44	1256.28	1256.28	1253.96	1253.96	1251.64	1250.48	1248.16	1247.00	1245.84
<b>150</b>	1345.60	1345.60	1345.60	1344.44	1343.28	1343.28	1342.12	1340.96	1339.80	1338.64
<b>155</b>	1418.68	1418.68	1418.68	1417.52	1417.52	1416.36	1416.36	1415.20	1415.20	1414.04
<b>160</b>	1477.84	1476.68	1476.68	1476.68	1476.68	1476.68	1476.68	1475.52	1475.52	1474.36
<b>165</b>	1521.92	1521.92	1521.92	1520.76	1520.76	1520.76	1520.76	1520.76	1520.76	1520.76
<b>170</b>	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08	1552.08
<b>175</b>	1570.64	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48
<b>180</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12

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

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
<b>5</b>	1136.80	1132.16	1126.36	1122.88	1120.56	1118.24	1118.24
<b>10</b>	967.44	953.52	941.92	932.64	926.84	922.20	921.04
<b>15</b>	783.00	760.96	743.56	729.64	720.36	714.56	712.24
<b>20</b>	604.36	580.00	559.12	544.04	532.44	525.48	524.32
<b>25</b>	451.24	426.88	408.32	393.24	382.80	377.00	374.68
<b>30</b>	331.76	310.88	294.64	281.88	273.76	269.12	266.80
<b>35</b>	243.60	226.20	213.44	204.16	197.20	193.72	192.56
<b>40</b>	179.80	168.20	158.92	151.96	148.48	145.00	145.00
<b>45</b>	138.04	129.92	122.96	118.32	116.00	113.68	113.68
<b>50</b>	109.04	103.24	98.60	96.28	95.12	93.96	92.80
<b>55</b>	88.16	83.52	81.20	78.88	77.72	76.56	76.56
<b>60</b>	69.60	67.28	64.96	63.80	62.64	61.48	61.48
<b>65</b>	54.52	52.20	51.04	49.88	48.72	48.72	48.72
<b>70</b>	40.60	39.44	38.28	37.12	37.12	35.96	35.96
<b>75</b>	27.84	26.68	25.52	25.52	25.52	24.36	24.36
<b>80</b>	16.24	16.24	15.08	15.08	15.08	15.08	15.08
<b>85</b>	6.96	6.96	6.96	6.96	6.96	6.96	6.96
<b>90</b>	18.56	19.72	20.88	22.04	22.04	23.20	23.20
<b>95</b>	64.96	66.12	67.28	68.44	69.60	69.60	69.60
<b>100</b>	133.40	133.40	134.56	134.56	135.72	135.72	135.72
<b>105</b>	220.40	220.40	220.40	220.40	220.40	220.40	220.40
<b>110</b>	324.80	323.64	323.64	323.64	323.64	322.48	322.48
<b>115</b>	445.44	444.28	443.12	441.96	441.96	441.96	440.80
<b>120</b>	580.00	577.68	576.52	575.36	575.36	574.20	574.20
<b>125</b>	722.68	721.52	719.20	718.04	716.88	716.88	716.88
<b>130</b>	867.68	865.36	864.20	863.04	861.88	860.72	860.72
<b>135</b>	1006.88	1004.56	1003.40	1001.08	999.92	999.92	998.76
<b>140</b>	1133.32	1132.16	1129.84	1128.68	1127.52	1127.52	1127.52
<b>145</b>	1243.52	1242.36	1241.20	1240.04	1238.88	1238.88	1238.88
<b>150</b>	1337.48	1336.32	1335.16	1334.00	1334.00	1334.00	1334.00
<b>155</b>	1414.04	1412.88	1412.88	1411.72	1411.72	1411.72	1411.72
<b>160</b>	1474.36	1474.36	1474.36	1473.20	1473.20	1473.20	1473.20
<b>165</b>	1519.60	1519.60	1519.60	1519.60	1519.60	1519.60	1519.60
<b>170</b>	1550.92	1550.92	1550.92	1550.92	1552.08	1550.92	1550.92
<b>175</b>	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48	1569.48
<b>180</b>	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12	1574.12

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_U1A1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	441.50	N.A.	6.20
0-30	904.68	N.A.	12.80
0-40	1434.72	N.A.	20.30
0-60	2388.05	N.A.	33.70
0-80	2837.98	N.A.	40.10
0-90	2881.58	N.A.	40.70
10-90	2763.87	N.A.	39.00
20-40	993.22	N.A.	14.00
20-50	1513.35	N.A.	21.40
40-70	1249.63	N.A.	17.60
60-80	449.92	N.A.	6.40
70-80	153.63	N.A.	2.20
80-90	43.60	N.A.	0.60
90-110	306.27	N.A.	4.30
90-120	754.12	N.A.	10.70
90-130	1408.17	N.A.	19.90
90-150	2968.97	N.A.	41.90
90-180	4199.34	N.A.	59.30
110-180	3893.06	N.A.	55.00
0-180	7080.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.71
10-20	323.79
20-30	463.18
30-40	530.04
40-50	520.13
50-60	433.21
60-70	296.30
70-80	153.63
80-90	43.60
90-100	71.00
100-110	235.27
110-120	447.84
120-130	654.05
130-140	781.08
140-150	779.73
150-160	651.95
160-170	429.18
170-180	149.24

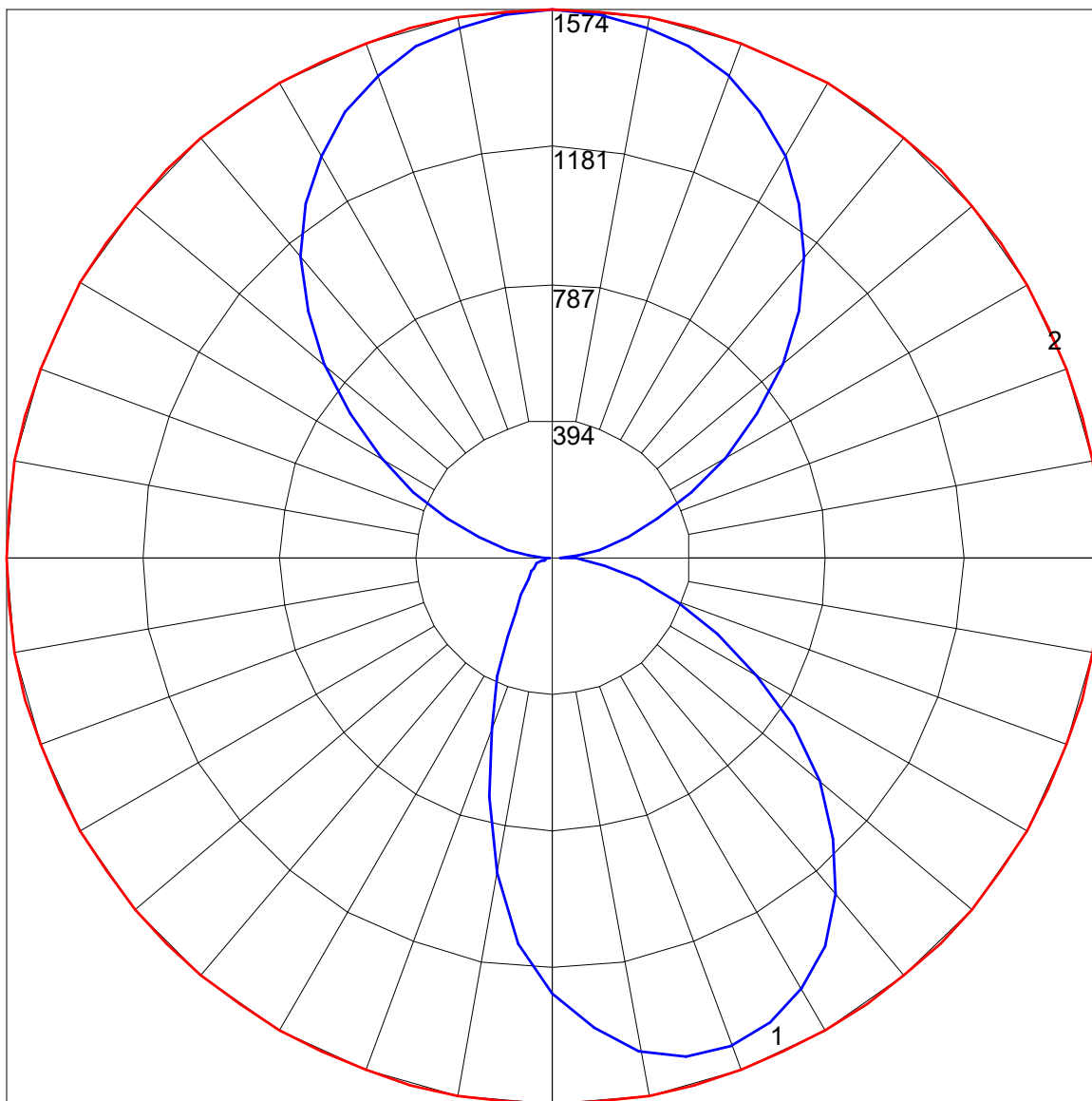
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_35\_U1A1.IES**

**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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	64	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 1574.12 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)