

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	120	124	127	127
Total Lumens, 4' rail length (1219mm)	6254	6452	6583	6583
Lumens per foot (305mm)	1564	1613	1646	1646
Lumens per foot UP (305mm)	915	944	963	963
Lumens per foot DOWN (305mm)	649	669	683	683
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

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_Z3_SO_35_U1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010917 (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-BL
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens
[MORE] up/85° asymmetric lens down, standard output, black anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	52.24
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	19107	19794	18368
55	15769	16760	15862
65	11879	12801	12560
75	8069	8772	9020
85	3970	4249	5201

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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	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
5	1354.88	1354.88	1353.72	1353.72	1352.56	1351.40	1349.08	1347.92	1345.60	1342.12
10	1379.24	1379.24	1379.24	1378.08	1375.76	1374.60	1371.12	1368.80	1365.32	1360.68
15	1379.24	1378.08	1378.08	1376.92	1375.76	1373.44	1369.96	1366.48	1363.00	1357.20
20	1357.20	1356.04	1356.04	1354.88	1352.56	1351.40	1347.92	1344.44	1340.96	1335.16
25	1316.60	1315.44	1315.44	1314.28	1313.12	1310.80	1308.48	1305.00	1301.52	1296.88
30	1257.44	1257.44	1257.44	1256.28	1255.12	1252.80	1250.48	1248.16	1244.68	1240.04
35	1178.56	1178.56	1178.56	1178.56	1177.40	1176.24	1175.08	1172.76	1169.28	1165.80
40	1075.32	1075.32	1075.32	1076.48	1076.48	1076.48	1076.48	1075.32	1074.16	1071.84
45	950.04	950.04	951.20	951.20	952.36	954.68	955.84	957.00	957.00	957.00
50	809.68	809.68	810.84	812.00	813.16	815.48	817.80	820.12	821.28	823.60
55	664.68	664.68	665.84	667.00	668.16	670.48	672.80	675.12	677.44	679.76
60	524.32	524.32	525.48	525.48	527.80	528.96	530.12	532.44	534.76	537.08
65	395.56	395.56	395.56	396.72	396.72	397.88	399.04	401.36	402.52	403.68
70	284.20	284.20	285.36	285.36	285.36	286.52	286.52	287.68	287.68	288.84
75	189.08	189.08	189.08	189.08	189.08	189.08	189.08	189.08	189.08	189.08
80	111.36	111.36	111.36	111.36	111.36	110.20	110.20	110.20	109.04	109.04
85	51.04	51.04	51.04	51.04	49.88	49.88	48.72	48.72	47.56	46.40
90	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
95	48.72	48.72	48.72	48.72	48.72	48.72	48.72	48.72	48.72	48.72
100	110.20	110.20	110.20	110.20	111.36	111.36	111.36	112.52	112.52	113.68
105	186.76	186.76	186.76	187.92	187.92	189.08	190.24	191.40	192.56	193.72
110	277.24	277.24	278.40	279.56	280.72	281.88	284.20	285.36	287.68	290.00
115	383.96	383.96	385.12	386.28	387.44	389.76	392.08	394.40	397.88	400.20
120	503.44	503.44	504.60	505.76	506.92	510.40	512.72	516.20	519.68	523.16
125	632.20	632.20	633.36	635.68	638.00	640.32	643.80	647.28	650.76	655.40
130	767.92	767.92	769.08	771.40	773.72	776.04	779.52	783.00	787.64	791.12
135	903.64	903.64	904.80	907.12	909.44	911.76	915.24	918.72	923.36	926.84
140	1034.72	1034.72	1035.88	1037.04	1039.36	1041.68	1045.16	1047.48	1050.96	1054.44
145	1153.04	1154.20	1155.36	1156.52	1157.68	1160.00	1162.32	1164.64	1166.96	1170.44
150	1257.44	1257.44	1258.60	1259.76	1260.92	1262.08	1263.24	1265.56	1266.72	1267.88
155	1344.44	1344.44	1344.44	1345.60	1346.76	1346.76	1347.92	1349.08	1350.24	1350.24
160	1411.72	1411.72	1411.72	1411.72	1411.72	1412.88	1412.88	1412.88	1412.88	1414.04
165	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44
170	1492.92	1492.92	1492.92	1492.92	1492.92	1492.92	1492.92	1492.92	1492.92	1492.92
175	1509.16	1509.16	1509.16	1509.16	1509.16	1509.16	1509.16	1509.16	1509.16	1509.16
180	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48

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	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
5	1339.80	1336.32	1332.84	1329.36	1324.72	1320.08	1315.44	1310.80	1306.16	1301.52
10	1356.04	1350.24	1343.28	1336.32	1329.36	1320.08	1310.80	1300.36	1289.92	1278.32
15	1351.40	1345.60	1337.48	1328.20	1317.76	1307.32	1293.40	1278.32	1262.08	1243.52
20	1329.36	1322.40	1314.28	1303.84	1292.24	1279.48	1262.08	1243.52	1221.48	1195.96
25	1291.08	1284.12	1274.84	1264.40	1251.64	1236.56	1218.00	1194.80	1169.28	1135.64
30	1234.24	1227.28	1219.16	1208.72	1195.96	1180.88	1160.00	1133.32	1102.00	1062.56
35	1161.16	1155.36	1147.24	1136.80	1124.04	1107.80	1085.76	1059.08	1021.96	976.72
40	1068.36	1062.56	1056.76	1047.48	1035.88	1019.64	997.60	968.60	929.16	876.96
45	954.68	951.20	946.56	939.60	929.16	914.08	892.04	863.04	821.28	766.76
50	823.60	822.44	818.96	814.32	805.04	792.28	772.56	744.72	702.96	647.28
55	680.92	682.08	680.92	677.44	670.48	658.88	641.48	614.80	576.52	527.80
60	538.24	539.40	538.24	535.92	531.28	522.00	506.92	484.88	453.56	397.88

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CANDELA TABULATION - (Cont.)

65	403.68	404.84	403.68	401.36	397.88	390.92	380.48	363.08	337.56	301.60
70	288.84	288.84	287.68	285.36	281.88	276.08	267.96	255.20	235.48	207.64
75	187.92	187.92	186.76	185.60	182.12	178.64	171.68	163.56	149.64	133.40
80	107.88	106.72	105.56	103.24	102.08	98.60	95.12	89.32	81.20	71.92
85	45.24	44.08	42.92	41.76	40.60	38.28	37.12	33.64	30.16	25.52
90	1.16	2.32	2.32	2.32	2.32	2.32	2.32	3.48	3.48	3.48
95	48.72	48.72	48.72	48.72	47.56	47.56	47.56	47.56	47.56	48.72
100	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68	114.84
105	194.88	196.04	197.20	198.36	198.36	199.52	199.52	199.52	199.52	200.68
110	292.32	294.64	295.80	296.96	298.12	299.28	299.28	299.28	300.44	300.44
115	402.52	406.00	408.32	409.48	410.64	411.80	412.96	412.96	412.96	412.96
120	526.64	530.12	532.44	534.76	537.08	538.24	538.24	538.24	538.24	537.08
125	658.88	662.36	665.84	669.32	670.48	672.80	672.80	672.80	672.80	670.48
130	795.76	799.24	802.72	806.20	808.52	809.68	810.84	810.84	809.68	807.36
135	931.48	934.96	938.44	940.76	943.08	944.24	945.40	945.40	944.24	941.92
140	1057.92	1061.40	1063.72	1066.04	1067.20	1068.36	1069.52	1069.52	1068.36	1066.04
145	1172.76	1175.08	1176.24	1177.40	1178.56	1179.72	1179.72	1178.56	1178.56	1176.24
150	1270.20	1271.36	1272.52	1273.68	1273.68	1273.68	1273.68	1273.68	1271.36	1270.20
155	1350.24	1351.40	1351.40	1352.56	1352.56	1351.40	1351.40	1351.40	1350.24	1347.92
160	1414.04	1414.04	1414.04	1414.04	1414.04	1414.04	1412.88	1412.88	1411.72	1409.40
165	1460.44	1460.44	1460.44	1460.44	1460.44	1460.44	1459.28	1459.28	1458.12	1456.96
170	1492.92	1492.92	1491.76	1491.76	1491.76	1491.76	1490.60	1490.60	1489.44	1489.44
175	1509.16	1509.16	1509.16	1509.16	1509.16	1508.00	1508.00	1508.00	1508.00	1506.84
180	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
5	1295.72	1291.08	1285.28	1280.64	1274.84	1270.20	1265.56	1260.92	1256.28	1252.80
10	1266.72	1253.96	1241.20	1227.28	1213.36	1199.44	1186.68	1172.76	1161.16	1148.40
15	1223.80	1201.76	1179.72	1155.36	1131.00	1105.48	1081.12	1054.44	1031.24	1008.04
20	1169.28	1137.96	1102.00	1066.04	1027.76	989.48	950.04	909.44	873.48	839.84
25	1099.68	1057.92	1009.20	959.32	907.12	853.76	801.56	748.20	702.96	660.04
30	1017.32	965.12	902.48	839.84	773.72	708.76	646.12	586.96	537.08	491.84
35	923.36	859.56	787.64	711.08	636.84	566.08	501.12	440.80	392.08	350.32
40	816.64	745.88	664.68	582.32	504.60	435.00	373.52	319.00	276.08	241.28
45	701.80	626.40	542.88	460.52	388.60	324.80	269.12	225.04	190.24	162.40
50	582.32	506.92	426.88	356.12	286.52	233.16	190.24	155.44	128.76	107.88
55	466.32	390.92	327.12	264.48	207.64	165.88	133.40	105.56	87.00	73.08
60	356.12	296.96	241.28	191.40	148.48	117.16	96.28	74.24	60.32	51.04
65	259.84	213.44	171.68	135.72	104.40	82.36	64.96	52.20	42.92	35.96
70	178.64	147.32	116.00	95.12	71.92	55.68	44.08	35.96	29.00	24.36
75	113.68	93.96	74.24	59.16	46.40	35.96	27.84	23.20	19.72	16.24
80	60.32	49.88	39.44	31.32	25.52	19.72	16.24	12.76	11.60	9.28
85	22.04	18.56	15.08	11.60	9.28	8.12	6.96	5.80	4.64	3.48
90	4.64	4.64	5.80	5.80	5.80	5.80	6.96	6.96	6.96	6.96
95	49.88	51.04	53.36	54.52	54.52	55.68	56.84	56.84	56.84	56.84
100	117.16	118.32	119.48	120.64	120.64	121.80	121.80	121.80	120.64	120.64
105	200.68	201.84	203.00	203.00	203.00	201.84	201.84	200.68	200.68	199.52
110	300.44	300.44	300.44	300.44	299.28	298.12	295.80	294.64	293.48	291.16
115	411.80	410.64	410.64	409.48	408.32	406.00	403.68	401.36	399.04	396.72
120	535.92	534.76	532.44	530.12	527.80	525.48	523.16	519.68	517.36	513.88
125	669.32	667.00	663.52	660.04	656.56	653.08	649.60	646.12	642.64	640.32
130	805.04	801.56	798.08	793.44	788.80	785.32	780.68	777.20	773.72	769.08
135	938.44	934.96	930.32	925.68	919.88	915.24	910.60	905.96	902.48	897.84

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CANDELA TABULATION - (Cont.)

140	1062.56	1059.08	1053.28	1048.64	1042.84	1038.20	1033.56	1028.92	1024.28	1020.80
145	1172.76	1169.28	1164.64	1160.00	1155.36	1149.56	1144.92	1140.28	1136.80	1133.32
150	1266.72	1264.40	1260.92	1256.28	1251.64	1248.16	1243.52	1238.88	1235.40	1233.08
155	1346.76	1344.44	1340.96	1337.48	1334.00	1331.68	1328.20	1324.72	1321.24	1317.76
160	1408.24	1407.08	1404.76	1402.44	1400.12	1397.80	1395.48	1393.16	1390.84	1388.52
165	1455.80	1454.64	1453.48	1452.32	1450.00	1448.84	1447.68	1445.36	1444.20	1443.04
170	1488.28	1488.28	1487.12	1485.96	1485.96	1484.80	1483.64	1483.64	1482.48	1481.32
175	1506.84	1506.84	1506.84	1505.68	1505.68	1505.68	1505.68	1504.52	1504.52	1504.52
180	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
5	1249.32	1245.84	1243.52	1241.20	1240.04	1238.88	1238.88
10	1137.96	1128.68	1120.56	1114.76	1110.12	1106.64	1106.64
15	988.32	969.76	954.68	943.08	933.80	929.16	926.84
20	808.52	783.00	760.96	743.56	730.80	723.84	721.52
25	622.92	592.76	566.08	546.36	533.60	525.48	522.00
30	453.56	423.40	399.04	380.48	367.72	360.76	357.28
35	316.68	290.00	269.12	254.04	242.44	236.64	234.32
40	213.44	192.56	175.16	163.56	155.44	150.80	149.64
45	141.52	125.28	112.52	104.40	98.60	95.12	93.96
50	96.28	82.36	74.24	67.28	63.80	61.48	60.32
55	62.64	54.52	48.72	45.24	42.92	40.60	40.60
60	42.92	38.28	33.64	31.32	29.00	29.00	27.84
65	30.16	26.68	24.36	22.04	20.88	20.88	19.72
70	20.88	18.56	17.40	16.24	15.08	13.92	13.92
75	13.92	12.76	11.60	10.44	10.44	9.28	9.28
80	8.12	6.96	6.96	6.96	5.80	5.80	5.80
85	3.48	3.48	3.48	2.32	2.32	2.32	2.32
90	6.96	6.96	6.96	6.96	6.96	6.96	6.96
95	56.84	56.84	56.84	56.84	56.84	56.84	56.84
100	120.64	120.64	119.48	119.48	119.48	119.48	119.48
105	198.36	197.20	197.20	196.04	196.04	194.88	194.88
110	290.00	288.84	287.68	286.52	285.36	284.20	284.20
115	394.40	393.24	390.92	389.76	388.60	387.44	387.44
120	511.56	508.08	506.92	504.60	503.44	502.28	502.28
125	636.84	633.36	631.04	628.72	627.56	626.40	626.40
130	765.60	763.28	760.96	758.64	756.32	755.16	755.16
135	894.36	892.04	888.56	886.24	885.08	883.92	883.92
140	1017.32	1013.84	1011.52	1009.20	1008.04	1006.88	1006.88
145	1129.84	1126.36	1124.04	1122.88	1120.56	1120.56	1120.56
150	1228.44	1226.12	1224.96	1222.64	1221.48	1220.32	1220.32
155	1315.44	1313.12	1311.96	1309.64	1308.48	1308.48	1307.32
160	1387.36	1385.04	1383.88	1382.72	1381.56	1381.56	1380.40
165	1441.88	1440.72	1439.56	1439.56	1438.40	1438.40	1438.40
170	1481.32	1480.16	1480.16	1479.00	1479.00	1479.00	1479.00
175	1504.52	1504.52	1504.52	1503.36	1503.36	1503.36	1503.36
180	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48	1511.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	462.14	N.A.	7.00
0-30	937.78	N.A.	14.20
0-40	1459.63	N.A.	22.20
0-60	2327.15	N.A.	35.30
0-80	2698.01	N.A.	41.00
0-90	2731.44	N.A.	41.50
10-90	2608.35	N.A.	39.60
20-40	997.49	N.A.	15.20
20-50	1483.1	N.A.	22.50
40-70	1114.96	N.A.	16.90
60-80	370.86	N.A.	5.60
70-80	123.42	N.A.	1.90
80-90	33.42	N.A.	0.50
90-110	272.07	N.A.	4.10
90-120	671.16	N.A.	10.20
90-130	1254.14	N.A.	19.10
90-150	2683.15	N.A.	40.80
90-180	3851.89	N.A.	58.50
110-180	3579.82	N.A.	54.40
0-180	6583.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.09
10-20	339.05
20-30	475.64
30-40	521.85
40-50	485.61
50-60	381.91
60-70	247.44
70-80	123.42
80-90	33.42
90-100	60.81
100-110	211.26
110-120	399.09
120-130	582.98
130-140	707.04
140-150	721.97
150-160	615.57
160-170	409.94
170-180	143.23

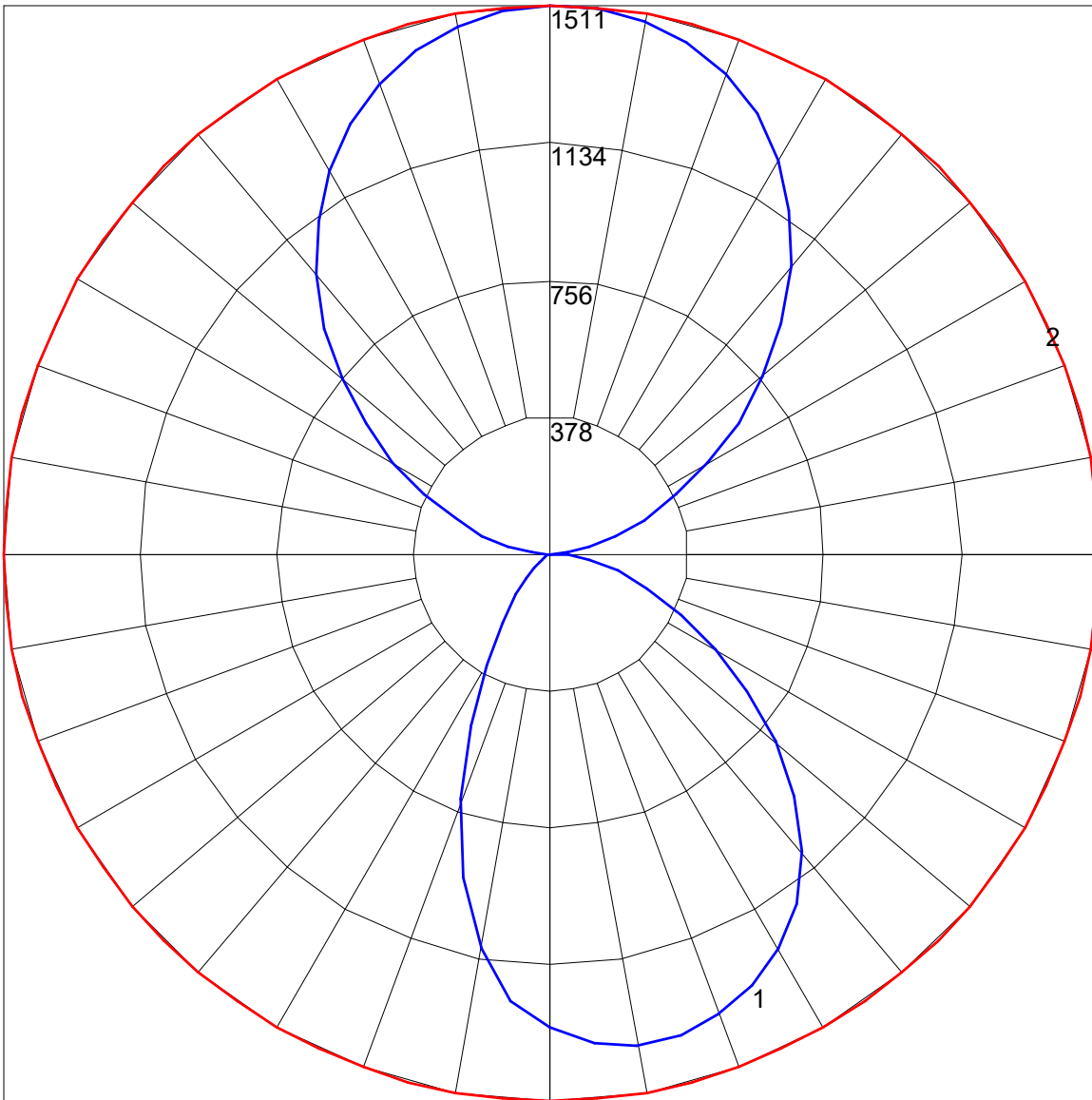
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_SO_35_U1A1_BL.IES

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31
3	80	71	64	59	73	66	59	55	54	50	46	44	41	38	35	32	31	26
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	26	23	21	18
7	58	46	38	33	53	43	36	31	36	31	27	29	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1511.48 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.)