

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-SO-35-U2A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	130	134	137	137
Total Lumens, 4' rail length (1219mm)	6760	6973	7115	7115
Lumens per foot (305mm)	1690	1743	1779	1779
Lumens per foot UP (305mm)	1006	1037	1058	1058
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

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_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 / L121911542R01 (SOURCE REPORTS 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-U2A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, symmetric lens with edgeglow 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	7115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	23026	22937	17642
55	19952	20278	15415
65	15676	16185	12473
75	10890	11409	9230
85	4872	5205	5401

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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	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
5	1360.68	1360.68	1359.52	1357.20	1354.88	1351.40	1347.92	1343.28	1337.48	1331.68
10	1443.04	1441.88	1440.72	1437.24	1433.76	1426.80	1421.00	1412.88	1402.44	1393.16
15	1487.12	1485.96	1483.64	1480.16	1475.52	1468.56	1460.44	1451.16	1439.56	1425.64
20	1496.40	1495.24	1494.08	1490.60	1485.96	1477.84	1469.72	1459.28	1447.68	1433.76
25	1476.68	1476.68	1474.36	1470.88	1466.24	1459.28	1452.32	1441.88	1429.12	1415.20
30	1433.76	1432.60	1431.44	1427.96	1423.32	1416.36	1409.40	1398.96	1387.36	1374.60
35	1364.16	1364.16	1361.84	1359.52	1354.88	1349.08	1342.12	1334.00	1322.40	1309.64
40	1267.88	1266.72	1266.72	1264.40	1260.92	1256.28	1250.48	1242.36	1233.08	1221.48
45	1144.92	1144.92	1143.76	1142.60	1140.28	1135.64	1132.16	1126.36	1118.24	1108.96
50	999.92	999.92	998.76	998.76	996.44	994.12	990.64	987.16	981.36	973.24
55	841.00	841.00	841.00	839.84	838.68	837.52	835.20	831.72	827.08	822.44
60	678.60	678.60	678.60	677.44	676.28	676.28	673.96	671.64	668.16	663.52
65	522.00	522.00	522.00	522.00	520.84	519.68	518.52	517.36	513.88	510.40
70	381.64	381.64	381.64	381.64	380.48	380.48	379.32	377.00	374.68	372.36
75	255.20	255.20	255.20	255.20	254.04	254.04	252.88	250.56	249.40	245.92
80	147.32	147.32	147.32	147.32	147.32	146.16	145.00	143.84	142.68	140.36
85	62.64	62.64	62.64	62.64	61.48	60.32	60.32	59.16	58.00	56.84
90	23.20	23.20	22.04	22.04	20.88	19.72	18.56	16.24	15.08	13.92
95	68.44	68.44	67.28	67.28	66.12	64.96	63.80	62.64	61.48	59.16
100	134.56	134.56	134.56	134.56	133.40	133.40	132.24	131.08	131.08	129.92
105	220.40	220.40	220.40	220.40	220.40	220.40	220.40	220.40	220.40	220.40
110	323.64	323.64	324.80	324.80	324.80	325.96	325.96	327.12	328.28	328.28
115	444.28	444.28	445.44	445.44	446.60	447.76	448.92	450.08	451.24	453.56
120	580.00	580.00	580.00	581.16	582.32	583.48	585.80	588.12	590.44	591.60
125	723.84	723.84	725.00	726.16	727.32	729.64	730.80	733.12	736.60	738.92
130	870.00	870.00	871.16	872.32	873.48	875.80	878.12	880.44	882.76	886.24
135	1010.36	1010.36	1011.52	1012.68	1013.84	1016.16	1017.32	1019.64	1021.96	1025.44
140	1137.96	1137.96	1137.96	1140.28	1141.44	1142.60	1143.76	1146.08	1148.40	1150.72
145	1249.32	1250.48	1250.48	1251.64	1251.64	1252.80	1255.12	1256.28	1257.44	1259.76
150	1344.44	1344.44	1344.44	1344.44	1345.60	1346.76	1347.92	1347.92	1349.08	1350.24
155	1421.00	1421.00	1421.00	1421.00	1422.16	1422.16	1423.32	1424.48	1424.48	1425.64
160	1482.48	1482.48	1482.48	1482.48	1483.64	1483.64	1483.64	1483.64	1483.64	1484.80
165	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88
170	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20	1561.36
175	1577.60	1577.60	1578.76	1577.60	1577.60	1577.60	1578.76	1578.76	1577.60	1578.76
180	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24

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

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CANDELA TABULATION - (Cont.)

65	504.60	497.64	488.36	475.60	459.36	438.48	410.64	377.00	335.24	285.36
70	367.72	361.92	354.96	344.52	331.76	315.52	294.64	269.12	237.80	201.84
75	242.44	238.96	233.16	226.20	216.92	206.48	191.40	174.00	153.12	131.08
80	138.04	134.56	131.08	126.44	120.64	114.84	105.56	96.28	84.68	71.92
85	54.52	53.36	51.04	48.72	46.40	42.92	40.60	35.96	31.32	26.68
90	11.60	10.44	8.12	6.96	5.80	4.64	3.48	3.48	2.32	3.48
95	58.00	55.68	54.52	52.20	51.04	48.72	47.56	47.56	46.40	47.56
100	128.76	127.60	126.44	125.28	124.12	122.96	121.80	120.64	120.64	120.64
105	220.40	219.24	219.24	219.24	218.08	218.08	218.08	216.92	216.92	216.92
110	329.44	329.44	330.60	330.60	331.76	331.76	331.76	331.76	331.76	331.76
115	454.72	455.88	458.20	459.36	460.52	460.52	461.68	461.68	461.68	461.68
120	593.92	596.24	598.56	600.88	602.04	604.36	604.36	605.52	605.52	605.52
125	741.24	744.72	747.04	749.36	751.68	754.00	755.16	755.16	755.16	755.16
130	888.56	890.88	894.36	896.68	899.00	901.32	901.32	902.48	902.48	902.48
135	1027.76	1030.08	1032.40	1034.72	1037.04	1038.20	1039.36	1040.52	1039.36	1040.52
140	1153.04	1154.20	1156.52	1158.84	1160.00	1161.16	1162.32	1162.32	1162.32	1162.32
145	1260.92	1262.08	1264.40	1264.40	1265.56	1266.72	1266.72	1267.88	1267.88	1267.88
150	1351.40	1352.56	1353.72	1354.88	1354.88	1356.04	1356.04	1356.04	1356.04	1356.04
155	1425.64	1426.80	1426.80	1426.80	1427.96	1427.96	1427.96	1427.96	1427.96	1427.96
160	1484.80	1485.96	1485.96	1485.96	1485.96	1485.96	1485.96	1485.96	1487.12	1485.96
165	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1531.20	1530.04	1531.20
170	1561.36	1560.20	1561.36	1561.36	1561.36	1561.36	1561.36	1561.36	1560.20	1561.36
175	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76
180	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
5	1230.76	1220.32	1208.72	1198.28	1189.00	1178.56	1169.28	1160.00	1151.88	1143.76
10	1189.00	1164.64	1139.12	1114.76	1090.40	1067.20	1045.16	1021.96	1002.24	983.68
15	1135.64	1097.36	1056.76	1016.16	977.88	939.60	903.64	867.68	836.36	807.36
20	1069.52	1017.32	962.80	908.28	852.60	801.56	754.00	708.76	670.48	634.52
25	996.44	929.16	859.56	793.44	723.84	664.68	610.16	560.28	518.52	482.56
30	912.92	832.88	752.84	676.28	600.88	537.08	481.40	432.68	392.08	358.44
35	820.12	731.96	643.80	562.60	486.04	424.56	372.36	328.28	292.32	265.64
40	720.36	627.56	537.08	458.20	385.12	329.44	284.20	247.08	218.08	197.20
45	617.12	524.32	437.32	364.24	300.44	252.88	215.76	186.76	165.88	149.64
50	512.72	426.88	350.32	286.52	233.16	194.88	165.88	143.84	128.76	117.16
55	397.88	336.40	272.60	220.40	178.64	149.64	127.60	111.36	100.92	93.96
60	319.00	258.68	207.64	168.20	135.72	113.68	98.60	88.16	80.04	74.24
65	237.80	191.40	153.12	124.12	103.24	87.00	75.40	67.28	61.48	58.00
70	168.20	136.88	109.04	91.64	74.24	63.80	55.68	49.88	46.40	42.92
75	109.04	90.48	73.08	60.32	49.88	42.92	38.28	34.80	31.32	29.00
80	60.32	49.88	40.60	33.64	29.00	25.52	22.04	19.72	18.56	17.40
85	23.20	19.72	16.24	13.92	11.60	10.44	9.28	9.28	8.12	8.12
90	3.48	4.64	5.80	6.96	8.12	10.44	11.60	13.92	15.08	16.24
95	47.56	48.72	51.04	52.20	54.52	55.68	58.00	59.16	61.48	62.64
100	121.80	122.96	124.12	125.28	126.44	127.60	128.76	129.92	131.08	131.08
105	218.08	218.08	218.08	219.24	219.24	219.24	220.40	220.40	220.40	220.40
110	331.76	331.76	331.76	330.60	330.60	329.44	329.44	328.28	328.28	327.12
115	461.68	460.52	460.52	459.36	458.20	455.88	454.72	453.56	451.24	450.08
120	604.36	604.36	602.04	600.88	598.56	596.24	593.92	591.60	590.44	588.12
125	755.16	754.00	751.68	749.36	747.04	744.72	741.24	738.92	736.60	733.12
130	901.32	901.32	899.00	896.68	894.36	890.88	888.56	886.24	882.76	880.44
135	1039.36	1038.20	1037.04	1034.72	1032.40	1030.08	1027.76	1025.44	1021.96	1019.64

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CANDELA TABULATION - (Cont.)

140	1162.32	1161.16	1160.00	1158.84	1156.52	1154.20	1153.04	1150.72	1148.40	1146.08
145	1266.72	1266.72	1265.56	1264.40	1264.40	1262.08	1260.92	1259.76	1257.44	1256.28
150	1356.04	1356.04	1354.88	1354.88	1353.72	1352.56	1351.40	1350.24	1349.08	1347.92
155	1427.96	1427.96	1427.96	1426.80	1426.80	1426.80	1425.64	1425.64	1424.48	1424.48
160	1485.96	1485.96	1485.96	1485.96	1485.96	1485.96	1484.80	1484.80	1483.64	1483.64
165	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1528.88	1528.88	1528.88
170	1561.36	1561.36	1561.36	1561.36	1561.36	1560.20	1561.36	1561.36	1560.20	1560.20
175	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1578.76	1577.60	1578.76
180	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28	1256.28
5	1136.80	1132.16	1126.36	1122.88	1120.56	1118.24	1118.24
10	967.44	953.52	941.92	932.64	926.84	922.20	921.04
15	783.00	760.96	743.56	729.64	720.36	714.56	712.24
20	604.36	580.00	559.12	544.04	532.44	525.48	524.32
25	451.24	426.88	408.32	393.24	382.80	377.00	374.68
30	331.76	310.88	294.64	281.88	273.76	269.12	266.80
35	243.60	226.20	213.44	204.16	197.20	193.72	192.56
40	179.80	168.20	158.92	151.96	148.48	145.00	145.00
45	138.04	129.92	122.96	118.32	116.00	113.68	113.68
50	109.04	103.24	98.60	96.28	95.12	93.96	92.80
55	88.16	83.52	81.20	78.88	77.72	76.56	76.56
60	69.60	67.28	64.96	63.80	62.64	61.48	61.48
65	54.52	52.20	51.04	49.88	48.72	48.72	48.72
70	40.60	39.44	38.28	37.12	37.12	35.96	35.96
75	27.84	26.68	25.52	25.52	25.52	24.36	24.36
80	16.24	16.24	15.08	15.08	15.08	15.08	15.08
85	6.96	6.96	6.96	6.96	6.96	6.96	6.96
90	18.56	19.72	20.88	22.04	22.04	23.20	23.20
95	63.80	64.96	66.12	67.28	67.28	68.44	68.44
100	132.24	133.40	133.40	134.56	134.56	134.56	134.56
105	220.40	220.40	220.40	220.40	220.40	220.40	220.40
110	325.96	325.96	324.80	324.80	324.80	323.64	323.64
115	448.92	447.76	446.60	445.44	445.44	444.28	444.28
120	585.80	583.48	582.32	581.16	580.00	580.00	580.00
125	730.80	729.64	727.32	726.16	725.00	723.84	723.84
130	878.12	875.80	873.48	872.32	871.16	870.00	870.00
135	1017.32	1016.16	1013.84	1012.68	1011.52	1010.36	1010.36
140	1143.76	1142.60	1141.44	1140.28	1137.96	1137.96	1137.96
145	1255.12	1252.80	1251.64	1251.64	1250.48	1250.48	1249.32
150	1347.92	1346.76	1345.60	1344.44	1344.44	1344.44	1344.44
155	1423.32	1422.16	1422.16	1421.00	1421.00	1421.00	1421.00
160	1483.64	1483.64	1483.64	1482.48	1482.48	1482.48	1482.48
165	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88	1528.88
170	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20	1560.20
175	1578.76	1577.60	1577.60	1577.60	1578.76	1577.60	1577.60
180	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24	1582.24

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	441.50	N.A.	6.20
0-30	904.68	N.A.	12.70
0-40	1434.72	N.A.	20.20
0-60	2388.05	N.A.	33.60
0-80	2837.98	N.A.	39.90
0-90	2881.58	N.A.	40.50
10-90	2763.87	N.A.	38.80
20-40	993.22	N.A.	14.00
20-50	1513.35	N.A.	21.30
40-70	1249.63	N.A.	17.60
60-80	449.92	N.A.	6.30
70-80	153.63	N.A.	2.20
80-90	43.60	N.A.	0.60
90-110	307.00	N.A.	4.30
90-120	759.07	N.A.	10.70
90-130	1420.35	N.A.	20.00
90-150	2995.67	N.A.	42.10
90-180	4233.81	N.A.	59.50
110-180	3926.81	N.A.	55.20
0-180	7115.39	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	70.60
100-110	236.41
110-120	452.07
120-130	661.28
130-140	789.06
140-150	786.26
150-160	656.35
160-170	431.71
170-180	150.08

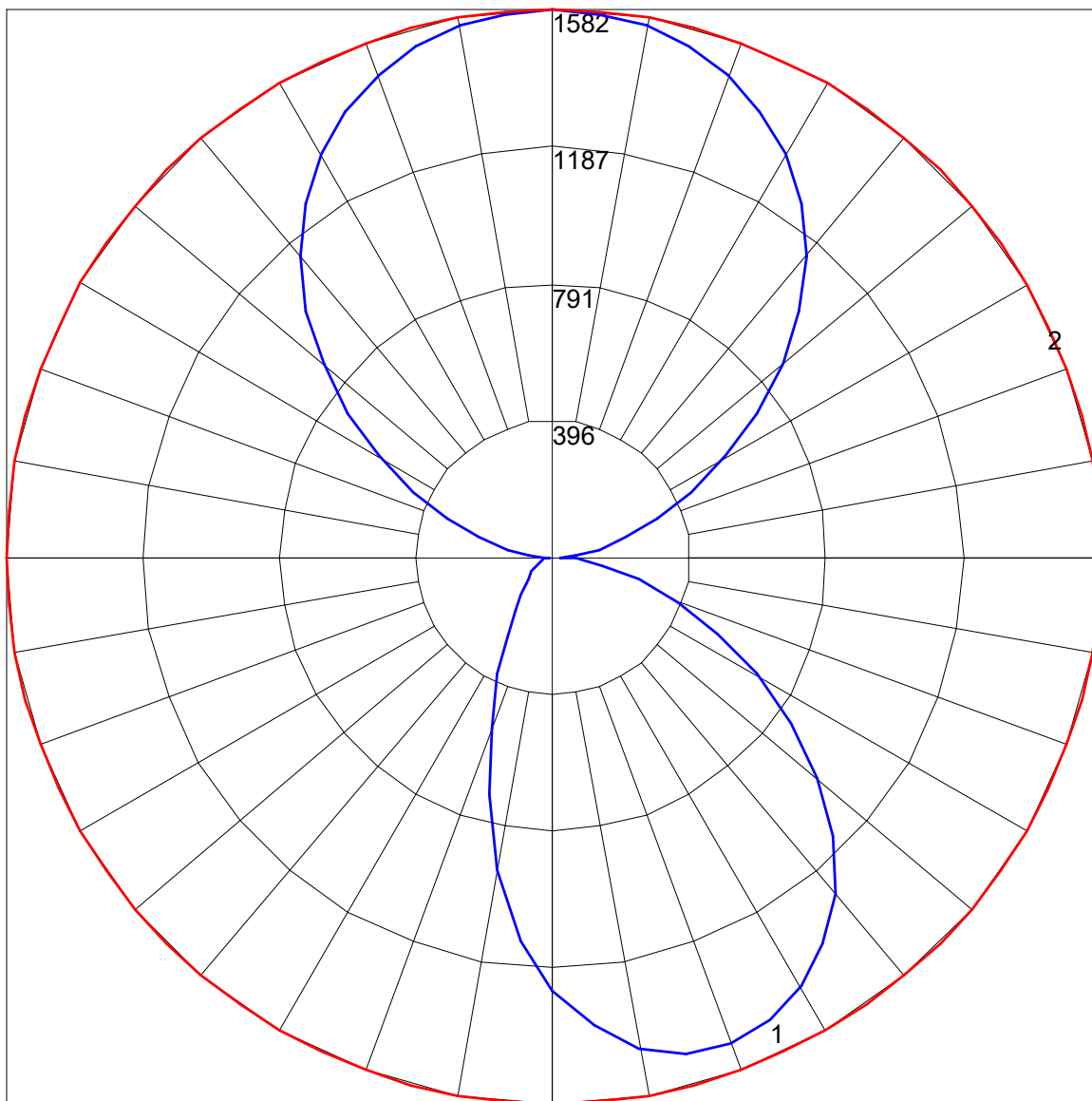
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_SO_35_U2A1.IES

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	47	47	47	41
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	35
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	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 = 1582.24 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.)