

**IES Report**

**ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 90 CRI | SO**

707-Z3-4-48-XX-XX-X-0-Z-SO-359-U2A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	100
Total Lumens, 4' rail length (1219mm)	4746	4896	4996	5096
Lumens per foot (305mm)	1187	1224	1249	1274
Lumens per foot UP (305mm)	746	770	786	801
Lumens per foot DOWN (305mm)	440	454	463	473
Input Power (W), 4' rail length (1219mm)	52.4	52.4	52.4	52.4
Watts per foot (305mm)	13.1	13.1	13.1	13.1
CRI	96	96	96	96

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](http://vode.com).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_359\_U2A1.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-359-U2A1  
 [LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] symmetric w/edgeglow up/85 deg asymmetric down, standard output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4996
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	15071	14881	9246
55	12883	13084	8286
65	9773	10174	6791
75	6357	6815	5006
85	2191	2464	2833

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>	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66
<b>5</b>	798.66	797.64	796.62	794.58	792.54	788.46	784.38	780.30	774.18	768.06
<b>10</b>	903.72	902.70	900.66	896.58	891.48	884.34	877.20	867.00	856.80	844.56
<b>15</b>	981.24	980.22	977.16	973.08	965.94	957.78	947.58	934.32	920.04	903.72
<b>20</b>	1027.14	1026.12	1023.06	1017.96	1011.84	1002.66	991.44	978.18	962.88	943.50
<b>25</b>	1042.44	1041.42	1038.36	1034.28	1028.16	1020.00	1008.78	996.54	980.22	961.86
<b>30</b>	1029.18	1028.16	1026.12	1022.04	1016.94	1009.80	1000.62	988.38	975.12	957.78
<b>35</b>	987.36	987.36	985.32	982.26	978.18	973.08	964.92	955.74	943.50	928.20
<b>40</b>	919.02	919.02	918.00	915.96	912.90	908.82	903.72	896.58	887.40	875.16
<b>45</b>	828.24	827.22	827.22	826.20	824.16	822.12	818.04	812.94	806.82	797.64
<b>50</b>	718.08	718.08	718.08	717.06	716.04	715.02	712.98	709.92	705.84	699.72
<b>55</b>	597.72	597.72	597.72	596.70	596.70	595.68	594.66	592.62	590.58	586.50
<b>60</b>	474.30	474.30	474.30	474.30	474.30	473.28	473.28	472.26	470.22	468.18
<b>65</b>	355.98	357.00	357.00	357.00	357.00	355.98	355.98	355.98	353.94	352.92
<b>70</b>	252.96	252.96	252.96	252.96	252.96	252.96	252.96	251.94	251.94	250.92
<b>75</b>	161.16	161.16	161.16	161.16	161.16	161.16	161.16	161.16	161.16	160.14
<b>80</b>	85.68	85.68	85.68	85.68	85.68	85.68	85.68	85.68	85.68	84.66
<b>85</b>	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	29.58	28.56
<b>90</b>	1.02	1.02	1.02	2.04	2.04	2.04	2.04	2.04	2.04	1.02
<b>95</b>	26.52	26.52	27.54	27.54	27.54	27.54	28.56	28.56	29.58	29.58
<b>100</b>	72.42	72.42	72.42	73.44	74.46	75.48	76.50	77.52	78.54	80.58
<b>105</b>	132.60	132.60	133.62	134.64	135.66	137.70	139.74	141.78	143.82	145.86
<b>110</b>	208.08	208.08	209.10	210.12	212.16	214.20	217.26	220.32	223.38	226.44
<b>115</b>	297.84	298.86	299.88	300.90	303.96	307.02	309.06	313.14	316.20	320.28
<b>120</b>	401.88	401.88	402.90	404.94	408.00	410.04	414.12	417.18	421.26	425.34
<b>125</b>	513.06	513.06	514.08	516.12	518.16	521.22	524.28	527.34	531.42	534.48
<b>130</b>	623.22	624.24	624.24	626.28	628.32	630.36	633.42	636.48	640.56	644.64
<b>135</b>	727.26	727.26	728.28	729.30	731.34	733.38	736.44	739.50	742.56	746.64
<b>140</b>	822.12	822.12	823.14	824.16	825.18	827.22	830.28	832.32	834.36	837.42
<b>145</b>	904.74	905.76	905.76	906.78	907.80	908.82	909.84	911.88	913.92	914.94
<b>150</b>	975.12	975.12	975.12	976.14	976.14	977.16	977.16	978.18	980.22	981.24
<b>155</b>	1031.22	1031.22	1031.22	1031.22	1032.24	1033.26	1033.26	1034.28	1035.30	1036.32
<b>160</b>	1077.12	1077.12	1077.12	1077.12	1077.12	1078.14	1078.14	1079.16	1080.18	1081.20
<b>165</b>	1112.82	1112.82	1112.82	1112.82	1113.84	1113.84	1114.86	1115.88	1115.88	1116.90
<b>170</b>	1140.36	1140.36	1141.38	1141.38	1141.38	1141.38	1142.40	1142.40	1143.42	1144.44
<b>175</b>	1160.76	1160.76	1160.76	1160.76	1160.76	1160.76	1160.76	1161.78	1161.78	1161.78
<b>180</b>	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94

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>	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66
<b>5</b>	761.94	754.80	746.64	738.48	730.32	722.16	712.98	703.80	694.62	685.44
<b>10</b>	830.28	814.98	799.68	782.34	765.00	745.62	727.26	707.88	687.48	668.10
<b>15</b>	885.36	864.96	841.50	816.00	790.50	761.94	734.40	703.80	673.20	643.62
<b>20</b>	923.10	897.60	870.06	839.46	806.82	770.10	732.36	693.60	653.82	615.06
<b>25</b>	939.42	913.92	883.32	849.66	811.92	769.08	723.18	677.28	628.32	580.38
<b>30</b>	936.36	910.86	880.26	844.56	804.78	757.86	705.84	652.80	597.72	541.62
<b>35</b>	909.84	886.38	857.82	823.14	782.34	734.40	679.32	620.16	557.94	497.76
<b>40</b>	858.84	839.46	813.96	782.34	744.60	696.66	640.56	579.36	515.10	446.76
<b>45</b>	785.40	770.10	749.70	722.16	688.50	645.66	590.58	527.34	462.06	392.70
<b>50</b>	691.56	680.34	665.04	643.62	614.04	576.30	526.32	468.18	401.88	336.60
<b>55</b>	581.40	573.24	563.04	546.72	523.26	491.64	448.80	397.80	336.60	277.44
<b>60</b>	465.12	460.02	451.86	439.62	422.28	397.80	363.12	321.30	271.32	220.32

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	350.88	346.80	341.70	331.50	321.30	302.94	277.44	244.80	204.00	166.26
<b>70</b>	248.88	245.82	241.74	236.64	227.46	214.20	195.84	172.38	144.84	117.30
<b>75</b>	159.12	158.10	155.04	150.96	145.86	137.70	125.46	111.18	92.82	76.50
<b>80</b>	84.66	83.64	82.62	80.58	78.54	73.44	68.34	60.18	51.00	42.84
<b>85</b>	28.56	28.56	28.56	28.56	27.54	26.52	24.48	21.42	18.36	16.32
<b>90</b>	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	3.06	4.08
<b>95</b>	30.60	30.60	31.62	31.62	32.64	33.66	34.68	34.68	35.70	37.74
<b>100</b>	81.60	82.62	84.66	85.68	87.72	88.74	89.76	90.78	91.80	93.84
<b>105</b>	148.92	150.96	153.00	156.06	158.10	159.12	161.16	162.18	164.22	165.24
<b>110</b>	229.50	233.58	236.64	238.68	241.74	243.78	245.82	246.84	248.88	250.92
<b>115</b>	324.36	328.44	332.52	335.58	338.64	340.68	342.72	344.76	346.80	348.84
<b>120</b>	429.42	433.50	437.58	440.64	443.70	446.76	448.80	451.86	454.92	456.96
<b>125</b>	538.56	543.66	546.72	550.80	553.86	555.90	558.96	562.02	565.08	567.12
<b>130</b>	647.70	651.78	654.84	657.90	660.96	663.00	666.06	669.12	673.20	675.24
<b>135</b>	749.70	752.76	754.80	756.84	759.90	762.96	766.02	769.08	772.14	776.22
<b>140</b>	839.46	841.50	843.54	845.58	848.64	851.70	854.76	857.82	860.88	864.96
<b>145</b>	916.98	919.02	920.04	923.10	925.14	928.20	931.26	934.32	937.38	941.46
<b>150</b>	982.26	984.30	986.34	988.38	990.42	993.48	995.52	998.58	1001.64	1004.70
<b>155</b>	1037.34	1039.38	1040.40	1042.44	1044.48	1046.52	1049.58	1052.64	1054.68	1057.74
<b>160</b>	1082.22	1084.26	1085.28	1087.32	1089.36	1091.40	1093.44	1095.48	1097.52	1099.56
<b>165</b>	1117.92	1118.94	1120.98	1122.00	1124.04	1125.06	1127.10	1128.12	1130.16	1132.20
<b>170</b>	1144.44	1145.46	1146.48	1147.50	1148.52	1149.54	1151.58	1152.60	1153.62	1154.64
<b>175</b>	1162.80	1162.80	1163.82	1163.82	1164.84	1164.84	1165.86	1165.86	1166.88	1166.88
<b>180</b>	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94

**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>	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66	696.66
<b>5</b>	677.28	668.10	658.92	650.76	642.60	635.46	627.30	621.18	615.06	609.96
<b>10</b>	647.70	628.32	608.94	591.60	573.24	557.94	543.66	529.38	517.14	505.92
<b>15</b>	615.06	584.46	556.92	530.40	504.90	482.46	461.04	441.66	425.34	411.06
<b>20</b>	576.30	537.54	501.84	468.18	436.56	409.02	385.56	363.12	344.76	328.44
<b>25</b>	533.46	487.56	444.72	406.98	372.30	342.72	317.22	293.76	274.38	259.08
<b>30</b>	487.56	434.52	388.62	348.84	311.10	281.52	256.02	233.58	215.22	198.90
<b>35</b>	436.56	381.48	333.54	292.74	256.02	226.44	201.96	181.56	164.22	149.94
<b>40</b>	384.54	329.46	281.52	241.74	206.04	179.52	157.08	138.72	123.42	112.20
<b>45</b>	331.50	275.40	230.52	192.78	163.20	138.72	119.34	104.04	92.82	85.68
<b>50</b>	277.44	226.44	182.58	150.96	125.46	106.08	90.78	79.56	72.42	66.30
<b>55</b>	224.40	179.52	143.82	116.28	94.86	82.62	70.38	62.22	57.12	54.06
<b>60</b>	175.44	138.72	109.14	88.74	72.42	62.22	55.08	49.98	45.90	43.86
<b>65</b>	131.58	103.02	83.64	66.30	55.08	47.94	42.84	38.76	36.72	34.68
<b>70</b>	93.84	73.44	59.16	48.96	40.80	35.70	32.64	29.58	27.54	26.52
<b>75</b>	61.20	48.96	39.78	33.66	28.56	24.48	22.44	20.40	19.38	18.36
<b>80</b>	34.68	28.56	23.46	19.38	17.34	15.30	13.26	12.24	12.24	11.22
<b>85</b>	14.28	11.22	10.20	8.16	7.14	7.14	6.12	6.12	5.10	5.10
<b>90</b>	5.10	6.12	8.16	9.18	11.22	13.26	15.30	17.34	19.38	21.42
<b>95</b>	38.76	40.80	42.84	44.88	46.92	48.96	51.00	53.04	55.08	57.12
<b>100</b>	94.86	96.90	97.92	99.96	102.00	103.02	105.06	106.08	108.12	109.14
<b>105</b>	166.26	168.30	169.32	170.34	172.38	173.40	174.42	175.44	176.46	177.48
<b>110</b>	251.94	252.96	253.98	255.00	256.02	257.04	258.06	259.08	259.08	260.10
<b>115</b>	350.88	351.90	351.90	352.92	352.92	353.94	353.94	354.96	354.96	355.98
<b>120</b>	459.00	459.00	460.02	460.02	460.02	461.04	461.04	462.06	462.06	462.06
<b>125</b>	569.16	571.20	571.20	571.20	572.22	572.22	572.22	573.24	573.24	573.24
<b>130</b>	678.30	680.34	681.36	681.36	682.38	682.38	682.38	683.40	683.40	683.40
<b>135</b>	778.26	781.32	782.34	783.36	784.38	784.38	784.38	784.38	784.38	784.38

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	867.00	870.06	872.10	873.12	874.14	874.14	875.16	875.16	875.16	875.16
<b>145</b>	943.50	946.56	948.60	949.62	950.64	951.66	952.68	953.70	953.70	953.70
<b>150</b>	1007.76	1010.82	1012.86	1013.88	1015.92	1016.94	1017.96	1018.98	1018.98	1020.00
<b>155</b>	1060.80	1062.84	1064.88	1066.92	1067.94	1069.98	1069.98	1072.02	1072.02	1073.04
<b>160</b>	1102.62	1103.64	1105.68	1107.72	1109.76	1110.78	1111.80	1112.82	1113.84	1114.86
<b>165</b>	1134.24	1135.26	1137.30	1138.32	1140.36	1141.38	1142.40	1143.42	1144.44	1144.44
<b>170</b>	1155.66	1156.68	1157.70	1158.72	1159.74	1160.76	1161.78	1162.80	1162.80	1163.82
<b>175</b>	1167.90	1167.90	1168.92	1168.92	1169.94	1169.94	1170.96	1170.96	1171.98	1171.98
<b>180</b>	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94

**Vert. Horizontal Angles**

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	696.66	696.66	696.66	696.66	696.66	696.66	696.66
<b>5</b>	604.86	600.78	596.70	594.66	592.62	591.60	590.58
<b>10</b>	496.74	488.58	481.44	476.34	473.28	470.22	470.22
<b>15</b>	398.82	388.62	379.44	373.32	368.22	366.18	365.16
<b>20</b>	315.18	303.96	294.78	288.66	283.56	280.50	279.48
<b>25</b>	244.80	234.60	225.42	218.28	214.20	211.14	210.12
<b>30</b>	186.66	176.46	168.30	162.18	157.08	155.04	154.02
<b>35</b>	138.72	129.54	122.40	117.30	114.24	112.20	111.18
<b>40</b>	103.02	95.88	90.78	87.72	85.68	84.66	83.64
<b>45</b>	78.54	74.46	71.40	69.36	67.32	66.30	66.30
<b>50</b>	62.22	60.18	58.14	56.10	55.08	55.08	55.08
<b>55</b>	51.00	48.96	47.94	46.92	46.92	45.90	45.90
<b>60</b>	41.82	40.80	39.78	38.76	38.76	37.74	37.74
<b>65</b>	33.66	32.64	31.62	30.60	30.60	30.60	30.60
<b>70</b>	25.50	24.48	23.46	23.46	23.46	22.44	22.44
<b>75</b>	17.34	17.34	16.32	16.32	16.32	16.32	15.30
<b>80</b>	11.22	10.20	10.20	10.20	10.20	9.18	9.18
<b>85</b>	5.10	5.10	5.10	5.10	5.10	4.08	4.08
<b>90</b>	22.44	24.48	25.50	26.52	27.54	28.56	28.56
<b>95</b>	58.14	60.18	61.20	62.22	63.24	63.24	63.24
<b>100</b>	111.18	112.20	112.20	113.22	114.24	114.24	114.24
<b>105</b>	178.50	178.50	179.52	179.52	179.52	179.52	179.52
<b>110</b>	260.10	260.10	260.10	260.10	260.10	260.10	260.10
<b>115</b>	355.98	355.98	355.98	355.98	354.96	354.96	354.96
<b>120</b>	462.06	462.06	462.06	462.06	462.06	462.06	462.06
<b>125</b>	573.24	573.24	573.24	573.24	573.24	573.24	573.24
<b>130</b>	683.40	683.40	683.40	683.40	683.40	683.40	683.40
<b>135</b>	784.38	785.40	785.40	785.40	785.40	785.40	785.40
<b>140</b>	875.16	875.16	876.18	876.18	876.18	876.18	876.18
<b>145</b>	953.70	954.72	954.72	954.72	954.72	954.72	954.72
<b>150</b>	1020.00	1021.02	1021.02	1021.02	1021.02	1022.04	1021.02
<b>155</b>	1074.06	1074.06	1075.08	1075.08	1075.08	1075.08	1075.08
<b>160</b>	1115.88	1115.88	1115.88	1116.90	1116.90	1116.90	1116.90
<b>165</b>	1145.46	1145.46	1146.48	1146.48	1146.48	1146.48	1147.50
<b>170</b>	1163.82	1164.84	1164.84	1165.86	1165.86	1165.86	1165.86
<b>175</b>	1171.98	1171.98	1171.98	1171.98	1173.00	1173.00	1173.00
<b>180</b>	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94	1169.94

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_359\_U2A1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	256.09	N.A.	5.10
0-30	545.15	N.A.	10.90
0-40	891.47	N.A.	17.80
0-60	1532.59	N.A.	30.70
0-80	1827.76	N.A.	36.60
0-90	1853.4	N.A.	37.10
10-90	1787.34	N.A.	35.80
20-40	635.38	N.A.	12.70
20-50	983.97	N.A.	19.70
40-70	838.32	N.A.	16.80
60-80	295.17	N.A.	5.90
70-80	97.97	N.A.	2.00
80-90	25.64	N.A.	0.50
90-110	223.38	N.A.	4.50
90-120	559.92	N.A.	11.20
90-130	1055.15	N.A.	21.10
90-150	2227.14	N.A.	44.60
90-180	3142.65	N.A.	62.90
110-180	2919.28	N.A.	58.40
0-180	4996.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	66.06
10-20	190.03
20-30	289.06
30-40	346.31
40-50	348.59
50-60	292.53
60-70	197.20
70-80	97.97
80-90	25.64
90-100	50.26
100-110	173.11
110-120	336.54
120-130	495.23
130-140	588.62
140-150	583.37
150-160	485.57
160-170	319.01
170-180	110.92

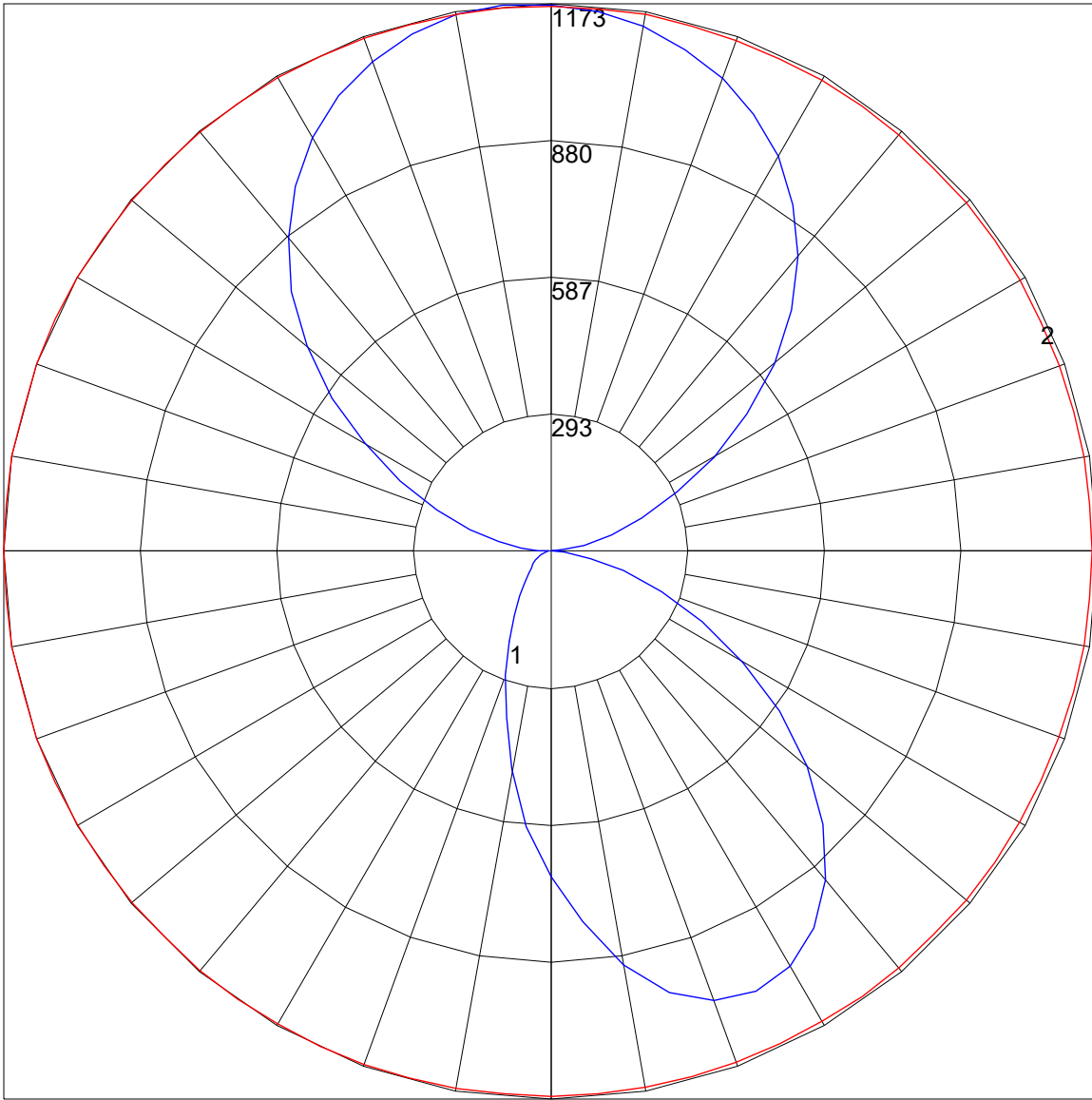
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_SO\_359\_U2A1.IES**

**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	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 = 1173 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.)