

**IES Report**

**ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 80 CRI | HO**

**707-Z9-4-48-AW / EW-XX-X-0-Z-HO-35-C1-0-AL-0**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	62	64	65
Total Lumens, 4' rail length (1219mm)	3237	3339	3407	3475
Lumens per foot (305mm)	809	835	852	869
Input Power (W), 4' rail length (1219mm)	53.9	53.9	53.9	53.9
Watts per foot (305mm)	13.5	13.5	13.5	13.5
CRI	85	85	85	85

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\_Z9\_AW\_HO\_35\_C1\_IN COVE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L101707604 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB

[ISSUEDATE] 11/1/2017

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z9-48-AW-Z-HO-35-C1

[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 80 CRI,

[MORE] zipper board, clear lens w/edge softening, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	53.86
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	2.24
Spacing Criterion (Diagonal)	3.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	105	1987	8574
55	0	2578	11601
65	0	3149	16619
75	0	3428	27137
85	0	5090	65318

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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>	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
<b>5</b>	81.4	81.4	81.4	81.4	83.6	83.6	85.8	88.0	88.0	90.2
<b>10</b>	59.4	59.4	59.4	61.6	61.6	63.8	66.0	68.2	72.6	74.8
<b>15</b>	41.8	41.8	44.0	44.0	46.2	48.4	52.8	55.0	57.2	61.6
<b>20</b>	28.6	28.6	30.8	30.8	35.2	37.4	41.8	46.2	50.6	55.0
<b>25</b>	11.0	11.0	13.2	17.6	22.0	26.4	30.8	35.2	41.8	48.4
<b>30</b>	6.6	6.6	8.8	11.0	13.2	15.4	22.0	28.6	35.2	41.8
<b>35</b>	6.6	6.6	6.6	8.8	13.2	15.4	19.8	24.2	30.8	37.4
<b>40</b>	6.6	6.6	6.6	11.0	13.2	17.6	22.0	26.4	33.0	37.4
<b>45</b>	2.2	4.4	6.6	8.8	13.2	17.6	22.0	28.6	35.2	41.8
<b>50</b>	0.0	2.2	4.4	8.8	13.2	17.6	24.2	28.6	37.4	44.0
<b>55</b>	0.0	2.2	4.4	8.8	13.2	17.6	22.0	28.6	37.4	44.0
<b>60</b>	0.0	2.2	4.4	6.6	11.0	15.4	22.0	28.6	35.2	44.0
<b>65</b>	0.0	2.2	4.4	6.6	11.0	13.2	19.8	24.2	30.8	39.6
<b>70</b>	0.0	2.2	4.4	6.6	8.8	13.2	17.6	22.0	28.6	33.0
<b>75</b>	0.0	4.4	4.4	6.6	8.8	11.0	13.2	17.6	22.0	26.4
<b>80</b>	0.0	4.4	4.4	4.4	6.6	8.8	8.8	13.2	15.4	19.8
<b>85</b>	0.0	4.4	4.4	4.4	4.4	6.6	6.6	8.8	11.0	13.2
<b>90</b>	0.0	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	8.8
<b>95</b>	0.0	4.4	4.4	4.4	6.6	6.6	6.6	8.8	8.8	11.0
<b>100</b>	0.0	4.4	4.4	6.6	6.6	8.8	11.0	11.0	13.2	17.6
<b>105</b>	0.0	4.4	6.6	6.6	8.8	11.0	13.2	17.6	19.8	24.2
<b>110</b>	0.0	6.6	6.6	8.8	11.0	15.4	17.6	22.0	26.4	35.2
<b>115</b>	0.0	6.6	8.8	11.0	15.4	19.8	24.2	30.8	37.4	46.2
<b>120</b>	0.0	8.8	8.8	13.2	17.6	24.2	30.8	39.6	48.4	61.6
<b>125</b>	0.0	8.8	11.0	15.4	22.0	30.8	35.2	48.4	63.8	77.0
<b>130</b>	0.0	6.6	11.0	17.6	24.2	33.0	44.0	61.6	79.2	92.4
<b>135</b>	0.0	6.6	11.0	17.6	26.4	37.4	52.8	74.8	85.8	94.6
<b>140</b>	0.0	6.6	11.0	17.6	24.2	35.2	50.6	68.2	88.0	94.6
<b>145</b>	0.0	8.8	11.0	15.4	22.0	33.0	46.2	59.4	77.0	92.4
<b>150</b>	0.0	8.8	8.8	11.0	13.2	28.6	41.8	52.8	63.8	77.0
<b>155</b>	0.0	8.8	8.8	8.8	11.0	17.6	28.6	39.6	48.4	57.2
<b>160</b>	0.0	8.8	8.8	8.8	11.0	13.2	17.6	24.2	28.6	35.2
<b>165</b>	0.0	8.8	8.8	8.8	11.0	13.2	15.4	17.6	19.8	19.8
<b>170</b>	0.0	6.6	6.6	6.6	6.6	6.6	8.8	8.8	11.0	11.0
<b>175</b>	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
<b>5</b>	92.4	94.6	96.8	99.0	101.2	103.4	105.6	107.8	112.2	114.4
<b>10</b>	77.0	81.4	85.8	90.2	94.6	99.0	103.4	107.8	114.4	121.0
<b>15</b>	68.2	72.6	79.2	83.6	92.4	99.0	105.6	114.4	123.2	129.8
<b>20</b>	61.6	68.2	74.8	81.4	90.2	99.0	107.8	118.8	129.8	140.8
<b>25</b>	57.2	63.8	72.6	81.4	90.2	101.2	112.2	123.2	136.4	151.8
<b>30</b>	50.6	61.6	70.4	81.4	92.4	103.4	116.6	132.0	147.4	165.0
<b>35</b>	48.4	59.4	70.4	81.4	94.6	107.8	123.2	140.8	158.4	180.4
<b>40</b>	46.2	57.2	68.2	83.6	96.8	112.2	129.8	147.4	169.4	193.6
<b>45</b>	50.6	59.4	70.4	83.6	101.2	118.8	136.4	158.4	180.4	206.8
<b>50</b>	52.8	61.6	72.6	85.8	103.4	121.0	143.0	165.0	189.2	220.0
<b>55</b>	55.0	63.8	74.8	88.0	105.6	125.4	147.4	171.6	198.0	231.0
<b>60</b>	52.8	66.0	77.0	90.2	103.4	125.4	149.6	173.8	204.6	244.2

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	48.4	61.6	74.8	85.8	103.4	123.2	147.4	176.0	209.0	253.0
<b>70</b>	41.8	50.6	68.2	81.4	94.6	116.6	140.8	173.8	211.2	259.6
<b>75</b>	30.8	41.8	50.6	70.4	88.0	112.2	134.2	165.0	209.0	266.2
<b>80</b>	24.2	28.6	30.8	46.2	61.6	83.6	125.4	149.6	200.2	248.6
<b>85</b>	15.4	19.8	22.0	22.0	35.2	48.4	74.8	103.4	169.4	222.2
<b>90</b>	11.0	13.2	15.4	15.4	15.4	17.6	26.4	48.4	101.2	123.2
<b>95</b>	13.2	15.4	17.6	19.8	24.2	30.8	39.6	70.4	99.0	116.6
<b>100</b>	19.8	24.2	28.6	35.2	46.2	63.8	94.6	123.2	149.6	178.2
<b>105</b>	28.6	37.4	46.2	59.4	77.0	103.4	134.2	158.4	182.6	204.6
<b>110</b>	41.8	52.8	66.0	85.8	110.0	140.8	162.8	184.8	204.6	217.8
<b>115</b>	57.2	72.6	92.4	116.6	143.0	162.8	182.6	202.4	217.8	228.8
<b>120</b>	77.0	94.6	118.8	143.0	160.6	178.2	195.8	211.2	224.4	233.2
<b>125</b>	96.8	118.8	136.4	151.8	167.2	187.0	200.2	213.4	222.2	228.8
<b>130</b>	110.0	123.2	138.6	154.0	169.4	182.6	195.8	206.8	213.4	217.8
<b>135</b>	110.0	123.2	136.4	149.6	162.8	173.8	187.0	191.4	198.0	200.2
<b>140</b>	105.6	116.6	127.6	138.6	149.6	160.6	167.2	171.6	176.0	178.2
<b>145</b>	99.0	105.6	114.4	123.2	132.0	140.8	145.2	149.6	151.8	151.8
<b>150</b>	90.2	96.8	99.0	105.6	112.2	118.8	123.2	127.6	127.6	129.8
<b>155</b>	68.2	77.0	88.0	90.2	92.4	96.8	99.0	101.2	101.2	101.2
<b>160</b>	41.8	50.6	59.4	66.0	72.6	77.0	79.2	79.2	79.2	77.0
<b>165</b>	22.0	24.2	28.6	33.0	37.4	41.8	44.0	44.0	46.2	46.2
<b>170</b>	13.2	13.2	13.2	13.2	15.4	15.4	15.4	15.4	15.4	13.2
<b>175</b>	4.4	4.4	4.4	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
<b>5</b>	116.6	121.0	123.2	125.4	127.6	132.0	134.2	136.4	138.6	140.8
<b>10</b>	127.6	134.2	138.6	145.2	151.8	158.4	165.0	169.4	176.0	180.4
<b>15</b>	138.6	147.4	158.4	169.4	178.2	189.2	200.2	211.2	222.2	231.0
<b>20</b>	154.0	167.2	180.4	195.8	213.4	231.0	246.4	261.8	277.2	290.4
<b>25</b>	169.4	187.0	206.8	228.8	250.8	275.0	297.0	319.0	343.2	369.6
<b>30</b>	187.0	209.0	235.4	264.0	290.4	323.4	360.8	398.2	431.2	477.4
<b>35</b>	204.6	233.2	264.0	301.4	343.2	387.2	444.4	506.0	565.4	629.2
<b>40</b>	222.2	255.2	297.0	343.2	404.8	475.2	552.2	640.2	726.0	800.8
<b>45</b>	237.6	281.6	334.4	393.8	468.6	585.2	693.0	787.6	873.4	952.6
<b>50</b>	257.4	310.2	376.2	475.2	589.6	708.4	814.0	913.0	998.8	1078.0
<b>55</b>	277.2	338.8	431.2	554.4	686.4	807.4	913.0	1012.0	1080.2	1141.8
<b>60</b>	297.0	374.0	486.2	642.4	765.6	886.6	968.0	1045.0	1102.2	1152.8
<b>65</b>	319.0	431.2	569.8	701.8	809.6	897.6	972.4	1034.0	1086.8	1130.8
<b>70</b>	332.2	466.4	605.0	712.8	800.8	873.4	939.4	994.4	1045.0	1084.6
<b>75</b>	341.0	481.8	580.8	677.6	754.6	816.2	882.2	928.4	974.6	1007.6
<b>80</b>	310.2	404.8	517.0	602.8	675.4	734.8	781.0	827.2	864.6	902.0
<b>85</b>	246.4	286.0	391.6	488.4	556.6	620.4	664.4	706.2	748.0	783.2
<b>90</b>	167.2	217.8	248.6	345.4	402.6	481.8	534.6	576.4	627.0	668.8
<b>95</b>	162.8	215.6	266.2	312.4	347.6	404.8	444.4	486.2	534.6	558.8
<b>100</b>	209.0	239.8	279.4	323.4	393.8	422.4	457.6	490.6	523.6	552.2
<b>105</b>	222.2	242.0	264.0	299.2	347.6	391.6	492.8	547.8	585.2	609.4
<b>110</b>	228.8	239.8	250.8	266.2	279.4	292.6	294.8	422.4	490.6	596.2
<b>115</b>	235.4	237.6	242.0	248.6	255.2	259.6	266.2	268.4	270.6	270.6
<b>120</b>	235.4	235.4	233.2	231.0	231.0	233.2	233.2	233.2	231.0	228.8
<b>125</b>	231.0	228.8	224.4	217.8	211.2	206.8	204.6	198.0	193.6	189.2
<b>130</b>	220.0	217.8	213.4	202.4	193.6	182.6	176.0	167.2	160.6	151.8
<b>135</b>	200.2	198.0	193.6	187.0	176.0	165.0	151.8	140.8	129.8	121.0

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	178.2	176.0	171.6	162.8	156.2	145.2	132.0	118.8	105.6	92.4
<b>145</b>	151.8	149.6	147.4	140.8	132.0	123.2	112.2	101.2	88.0	74.8
<b>150</b>	127.6	123.2	121.0	116.6	110.0	103.4	92.4	83.6	74.8	61.6
<b>155</b>	101.2	99.0	94.6	90.2	85.8	81.4	74.8	63.8	52.8	41.8
<b>160</b>	77.0	77.0	74.8	70.4	63.8	55.0	48.4	39.6	30.8	24.2
<b>165</b>	44.0	41.8	37.4	33.0	28.6	24.2	22.0	19.8	17.6	13.2
<b>170</b>	15.4	15.4	15.4	15.4	15.4	13.2	11.0	8.8	8.8	6.6
<b>175</b>	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Horizontal 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>	110.0	110.0	110.0	110.0	110.0	110.0	110.0
<b>5</b>	140.8	143.0	145.2	145.2	147.4	147.4	147.4
<b>10</b>	184.8	187.0	191.4	193.6	193.6	195.8	195.8
<b>15</b>	239.8	246.4	250.8	257.4	259.6	261.8	261.8
<b>20</b>	305.8	316.8	325.6	334.4	338.8	343.2	343.2
<b>25</b>	391.6	411.4	429.0	442.2	451.0	459.8	462.0
<b>30</b>	519.2	556.6	589.6	613.8	633.6	649.0	651.2
<b>35</b>	686.4	737.0	781.0	814.0	838.2	855.8	858.0
<b>40</b>	862.4	917.4	961.4	996.6	1023.0	1042.8	1045.0
<b>45</b>	1016.4	1071.4	1117.6	1155.0	1181.4	1196.8	1203.4
<b>50</b>	1137.4	1181.4	1218.8	1249.6	1271.6	1284.8	1289.2
<b>55</b>	1192.4	1227.6	1256.2	1280.4	1298.0	1309.0	1313.4
<b>60</b>	1194.6	1227.6	1256.2	1278.2	1293.6	1304.6	1309.0
<b>65</b>	1174.8	1203.4	1227.6	1247.4	1262.8	1273.8	1278.2
<b>70</b>	1122.0	1150.6	1172.6	1192.4	1207.8	1216.6	1218.8
<b>75</b>	1040.6	1069.2	1089.0	1106.6	1122.0	1130.8	1135.2
<b>80</b>	932.8	959.2	983.4	1003.2	1016.4	1025.2	1029.6
<b>85</b>	818.4	847.0	869.0	886.6	899.8	906.4	910.8
<b>90</b>	693.0	719.4	743.6	761.2	774.4	783.2	785.4
<b>95</b>	596.2	613.8	640.2	660.0	664.4	664.4	666.6
<b>100</b>	578.6	598.4	616.0	631.4	640.2	646.8	646.8
<b>105</b>	624.8	642.4	653.4	668.8	673.2	675.4	675.4
<b>110</b>	741.4	737.0	761.2	772.2	781.0	778.8	776.6
<b>115</b>	327.8	413.6	336.6	618.2	422.4	726.0	913.0
<b>120</b>	224.4	217.8	213.4	204.6	193.6	217.8	187.0
<b>125</b>	180.4	173.8	162.8	151.8	138.6	132.0	134.2
<b>130</b>	145.2	134.2	121.0	110.0	96.8	92.4	92.4
<b>135</b>	110.0	99.0	85.8	72.6	61.6	55.0	55.0
<b>140</b>	81.4	70.4	57.2	39.6	30.8	26.4	26.4
<b>145</b>	61.6	46.2	30.8	19.8	8.8	6.6	6.6
<b>150</b>	46.2	33.0	22.0	11.0	4.4	2.2	2.2
<b>155</b>	30.8	24.2	13.2	6.6	4.4	2.2	2.2
<b>160</b>	19.8	13.2	6.6	4.4	4.4	4.4	4.4
<b>165</b>	8.8	6.6	4.4	4.4	4.4	4.4	4.4
<b>170</b>	4.4	4.4	4.4	4.4	4.4	4.4	4.4
<b>175</b>	4.4	4.4	4.4	4.4	4.4	4.4	4.4
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AW\_HO\_35\_C1\_IN COVE.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	50.75	N.A.	1.50
0-30	139.52	N.A.	4.10
0-40	319.91	N.A.	9.40
0-60	1044.59	N.A.	30.70
0-80	1981.7	N.A.	58.30
0-90	2342.67	N.A.	68.90
10-90	2331.6	N.A.	68.60
20-40	269.16	N.A.	7.90
20-50	575.56	N.A.	16.90
40-70	1201.06	N.A.	35.30
60-80	937.11	N.A.	27.60
70-80	460.73	N.A.	13.50
80-90	360.96	N.A.	10.60
90-110	540.92	N.A.	15.90
90-120	750.93	N.A.	22.10
90-130	879.36	N.A.	25.90
90-150	1024.14	N.A.	30.10
90-180	1058.07	N.A.	31.10
110-180	517.15	N.A.	15.20
0-180	3400.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	11.07
10-20	39.68
20-30	88.77
30-40	180.39
40-50	306.40
50-60	418.29
60-70	476.38
70-80	460.73
80-90	360.96
90-100	266.57
100-110	274.35
110-120	210.01
120-130	128.43
130-140	90.53
140-150	54.25
150-160	26.21
160-170	7.12
170-180	0.61

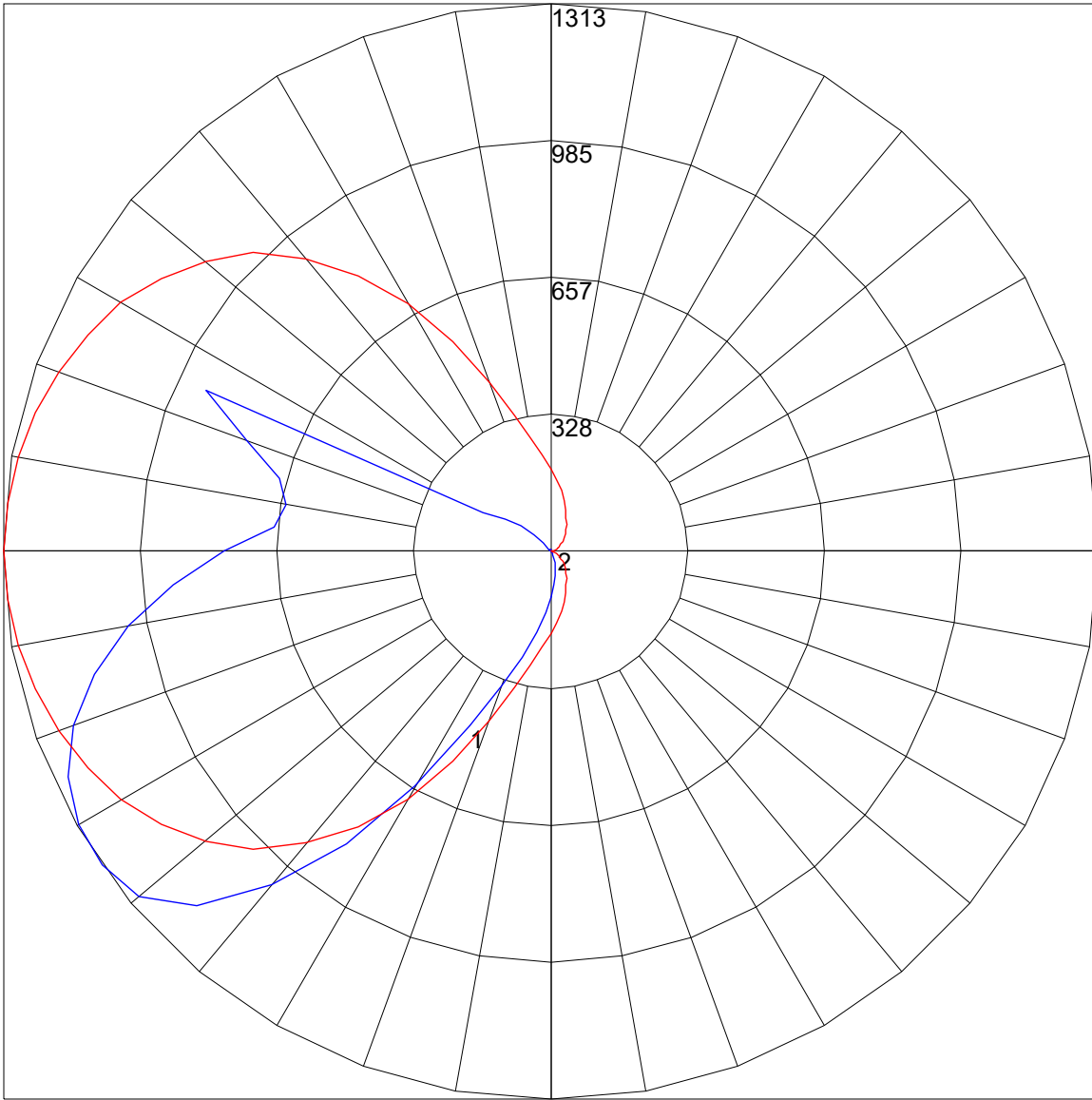
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AW\_HO\_35\_C1\_IN COVE.IES**

**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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	96	89	82	77	90	83	78	73	73	69	64	64	60	57	55	52	50	45
2	84	73	64	57	78	69	61	54	60	53	48	52	47	42	44	40	36	32
3	75	62	52	44	70	58	49	41	50	43	37	43	37	32	37	32	28	24
4	68	53	43	35	63	50	40	33	43	35	29	37	30	25	31	26	22	18
5	61	46	36	28	57	43	34	27	38	30	23	32	26	20	27	22	17	14
6	56	41	31	23	52	38	29	22	33	25	19	28	22	17	24	18	14	11
7	51	36	27	20	47	34	25	19	29	22	16	25	19	14	21	16	12	9
8	47	33	23	17	44	30	22	16	27	19	14	23	17	12	19	14	10	8
9	44	29	21	15	41	28	19	14	24	17	12	21	15	10	18	12	9	6
10	41	27	18	13	38	25	17	12	22	15	10	19	13	9	16	11	8	5

POLAR GRAPH



Maximum Candela = 1313.4 Located At Horizontal Angle = 180, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)