

**IES Report**

**ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 90 CRI | HO**

707-Z9-4-48-AW / EW-XX-X-0-Z-HO-359-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	52	54	55	56
Total Lumens, 4' rail length (1219mm)	2790	2878	2937	2996
Lumens per foot (305mm)	698	720	734	749
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	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](#).



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AW\_HO\_359\_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-359-C1  
[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 90 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	2937
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	90	1716	7405
55	0	2226	10019
65	0	2720	14353
75	0	2960	23437
85	0	4396	56411

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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>	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
<b>5</b>	70.3	70.3	70.3	70.3	72.2	72.2	74.1	76.0	76.0	77.9
<b>10</b>	51.3	51.3	51.3	53.2	53.2	55.1	57.0	58.9	62.7	64.6
<b>15</b>	36.1	36.1	38.0	38.0	39.9	41.8	45.6	47.5	49.4	53.2
<b>20</b>	24.7	24.7	26.6	26.6	30.4	32.3	36.1	39.9	43.7	47.5
<b>25</b>	9.5	9.5	11.4	15.2	19.0	22.8	26.6	30.4	36.1	41.8
<b>30</b>	5.7	5.7	7.6	9.5	11.4	13.3	19.0	24.7	30.4	36.1
<b>35</b>	5.7	5.7	5.7	7.6	11.4	13.3	17.1	20.9	26.6	32.3
<b>40</b>	5.7	5.7	5.7	9.5	11.4	15.2	19.0	22.8	28.5	32.3
<b>45</b>	1.9	3.8	5.7	7.6	11.4	15.2	19.0	24.7	30.4	36.1
<b>50</b>	0.0	1.9	3.8	7.6	11.4	15.2	20.9	24.7	32.3	38.0
<b>55</b>	0.0	1.9	3.8	7.6	11.4	15.2	19.0	24.7	32.3	38.0
<b>60</b>	0.0	1.9	3.8	5.7	9.5	13.3	19.0	24.7	30.4	38.0
<b>65</b>	0.0	1.9	3.8	5.7	9.5	11.4	17.1	20.9	26.6	34.2
<b>70</b>	0.0	1.9	3.8	5.7	7.6	11.4	15.2	19.0	24.7	28.5
<b>75</b>	0.0	3.8	3.8	5.7	7.6	9.5	11.4	15.2	19.0	22.8
<b>80</b>	0.0	3.8	3.8	3.8	5.7	7.6	7.6	11.4	13.3	17.1
<b>85</b>	0.0	3.8	3.8	3.8	3.8	5.7	5.7	7.6	9.5	11.4
<b>90</b>	0.0	3.8	3.8	3.8	3.8	3.8	5.7	5.7	7.6	7.6
<b>95</b>	0.0	3.8	3.8	3.8	5.7	5.7	5.7	7.6	7.6	9.5
<b>100</b>	0.0	3.8	3.8	5.7	5.7	7.6	9.5	9.5	11.4	15.2
<b>105</b>	0.0	3.8	5.7	5.7	7.6	9.5	11.4	15.2	17.1	20.9
<b>110</b>	0.0	5.7	5.7	7.6	9.5	13.3	15.2	19.0	22.8	30.4
<b>115</b>	0.0	5.7	7.6	9.5	13.3	17.1	20.9	26.6	32.3	39.9
<b>120</b>	0.0	7.6	7.6	11.4	15.2	20.9	26.6	34.2	41.8	53.2
<b>125</b>	0.0	7.6	9.5	13.3	19.0	26.6	30.4	41.8	55.1	66.5
<b>130</b>	0.0	5.7	9.5	15.2	20.9	28.5	38.0	53.2	68.4	79.8
<b>135</b>	0.0	5.7	9.5	15.2	22.8	32.3	45.6	64.6	74.1	81.7
<b>140</b>	0.0	5.7	9.5	15.2	20.9	30.4	43.7	58.9	76.0	81.7
<b>145</b>	0.0	7.6	9.5	13.3	19.0	28.5	39.9	51.3	66.5	79.8
<b>150</b>	0.0	7.6	7.6	9.5	11.4	24.7	36.1	45.6	55.1	66.5
<b>155</b>	0.0	7.6	7.6	7.6	9.5	15.2	24.7	34.2	41.8	49.4
<b>160</b>	0.0	7.6	7.6	7.6	9.5	11.4	15.2	20.9	24.7	30.4
<b>165</b>	0.0	7.6	7.6	7.6	9.5	11.4	13.3	15.2	17.1	17.1
<b>170</b>	0.0	5.7	5.7	5.7	5.7	5.7	7.6	7.6	9.5	9.5
<b>175</b>	0.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<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>	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
<b>5</b>	79.8	81.7	83.6	85.5	87.4	89.3	91.2	93.1	96.9	98.8
<b>10</b>	66.5	70.3	74.1	77.9	81.7	85.5	89.3	93.1	98.8	104.5
<b>15</b>	58.9	62.7	68.4	72.2	79.8	85.5	91.2	98.8	106.4	112.1
<b>20</b>	53.2	58.9	64.6	70.3	77.9	85.5	93.1	102.6	112.1	121.6
<b>25</b>	49.4	55.1	62.7	70.3	77.9	87.4	96.9	106.4	117.8	131.1
<b>30</b>	43.7	53.2	60.8	70.3	79.8	89.3	100.7	114.0	127.3	142.5
<b>35</b>	41.8	51.3	60.8	70.3	81.7	93.1	106.4	121.6	136.8	155.8
<b>40</b>	39.9	49.4	58.9	72.2	83.6	96.9	112.1	127.3	146.3	167.2
<b>45</b>	43.7	51.3	60.8	72.2	87.4	102.6	117.8	136.8	155.8	178.6
<b>50</b>	45.6	53.2	62.7	74.1	89.3	104.5	123.5	142.5	163.4	190.0
<b>55</b>	47.5	55.1	64.6	76.0	91.2	108.3	127.3	148.2	171.0	199.5
<b>60</b>	45.6	57.0	66.5	77.9	89.3	108.3	129.2	150.1	176.7	210.9

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	41.8	53.2	64.6	74.1	89.3	106.4	127.3	152.0	180.5	218.5
<b>70</b>	36.1	43.7	58.9	70.3	81.7	100.7	121.6	150.1	182.4	224.2
<b>75</b>	26.6	36.1	43.7	60.8	76.0	96.9	115.9	142.5	180.5	229.9
<b>80</b>	20.9	24.7	26.6	39.9	53.2	72.2	108.3	129.2	172.9	214.7
<b>85</b>	13.3	17.1	19.0	19.0	30.4	41.8	64.6	89.3	146.3	191.9
<b>90</b>	9.5	11.4	13.3	13.3	13.3	15.2	22.8	41.8	87.4	106.4
<b>95</b>	11.4	13.3	15.2	17.1	20.9	26.6	34.2	60.8	85.5	100.7
<b>100</b>	17.1	20.9	24.7	30.4	39.9	55.1	81.7	106.4	129.2	153.9
<b>105</b>	24.7	32.3	39.9	51.3	66.5	89.3	115.9	136.8	157.7	176.7
<b>110</b>	36.1	45.6	57.0	74.1	95.0	121.6	140.6	159.6	176.7	188.1
<b>115</b>	49.4	62.7	79.8	100.7	123.5	140.6	157.7	174.8	188.1	197.6
<b>120</b>	66.5	81.7	102.6	123.5	138.7	153.9	169.1	182.4	193.8	201.4
<b>125</b>	83.6	102.6	117.8	131.1	144.4	161.5	172.9	184.3	191.9	197.6
<b>130</b>	95.0	106.4	119.7	133.0	146.3	157.7	169.1	178.6	184.3	188.1
<b>135</b>	95.0	106.4	117.8	129.2	140.6	150.1	161.5	165.3	171.0	172.9
<b>140</b>	91.2	100.7	110.2	119.7	129.2	138.7	144.4	148.2	152.0	153.9
<b>145</b>	85.5	91.2	98.8	106.4	114.0	121.6	125.4	129.2	131.1	131.1
<b>150</b>	77.9	83.6	85.5	91.2	96.9	102.6	106.4	110.2	110.2	112.1
<b>155</b>	58.9	66.5	76.0	77.9	79.8	83.6	85.5	87.4	87.4	87.4
<b>160</b>	36.1	43.7	51.3	57.0	62.7	66.5	68.4	68.4	68.4	66.5
<b>165</b>	19.0	20.9	24.7	28.5	32.3	36.1	38.0	38.0	39.9	39.9
<b>170</b>	11.4	11.4	11.4	11.4	13.3	13.3	13.3	13.3	13.3	11.4
<b>175</b>	3.8	3.8	3.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7
<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**

	<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>	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
<b>5</b>	100.7	104.5	106.4	108.3	110.2	114.0	115.9	117.8	119.7	121.6
<b>10</b>	110.2	115.9	119.7	125.4	131.1	136.8	142.5	146.3	152.0	155.8
<b>15</b>	119.7	127.3	136.8	146.3	153.9	163.4	172.9	182.4	191.9	199.5
<b>20</b>	133.0	144.4	155.8	169.1	184.3	199.5	212.8	226.1	239.4	250.8
<b>25</b>	146.3	161.5	178.6	197.6	216.6	237.5	256.5	275.5	296.4	319.2
<b>30</b>	161.5	180.5	203.3	228.0	250.8	279.3	311.6	343.9	372.4	412.3
<b>35</b>	176.7	201.4	228.0	260.3	296.4	334.4	383.8	437.0	488.3	543.4
<b>40</b>	191.9	220.4	256.5	296.4	349.6	410.4	476.9	552.9	627.0	691.6
<b>45</b>	205.2	243.2	288.8	340.1	404.7	505.4	598.5	680.2	754.3	822.7
<b>50</b>	222.3	267.9	324.9	410.4	509.2	611.8	703.0	788.5	862.6	931.0
<b>55</b>	239.4	292.6	372.4	478.8	592.8	697.3	788.5	874.0	932.9	986.1
<b>60</b>	256.5	323.0	419.9	554.8	661.2	765.7	836.0	902.5	951.9	995.6
<b>65</b>	275.5	372.4	492.1	606.1	699.2	775.2	839.8	893.0	938.6	976.6
<b>70</b>	286.9	402.8	522.5	615.6	691.6	754.3	811.3	858.8	902.5	936.7
<b>75</b>	294.5	416.1	501.6	585.2	651.7	704.9	761.9	801.8	841.7	870.2
<b>80</b>	267.9	349.6	446.5	520.6	583.3	634.6	674.5	714.4	746.7	779.0
<b>85</b>	212.8	247.0	338.2	421.8	480.7	535.8	573.8	609.9	646.0	676.4
<b>90</b>	144.4	188.1	214.7	298.3	347.7	416.1	461.7	497.8	541.5	577.6
<b>95</b>	140.6	186.2	229.9	269.8	300.2	349.6	383.8	419.9	461.7	482.6
<b>100</b>	180.5	207.1	241.3	279.3	340.1	364.8	395.2	423.7	452.2	476.9
<b>105</b>	191.9	209.0	228.0	258.4	300.2	338.2	425.6	473.1	505.4	526.3
<b>110</b>	197.6	207.1	216.6	229.9	241.3	252.7	254.6	364.8	423.7	514.9
<b>115</b>	203.3	205.2	209.0	214.7	220.4	224.2	229.9	231.8	233.7	233.7
<b>120</b>	203.3	203.3	201.4	199.5	199.5	201.4	201.4	201.4	199.5	197.6
<b>125</b>	199.5	197.6	193.8	188.1	182.4	178.6	176.7	171.0	167.2	163.4
<b>130</b>	190.0	188.1	184.3	174.8	167.2	157.7	152.0	144.4	138.7	131.1
<b>135</b>	172.9	171.0	167.2	161.5	152.0	142.5	131.1	121.6	112.1	104.5

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	153.9	152.0	148.2	140.6	134.9	125.4	114.0	102.6	91.2	79.8
<b>145</b>	131.1	129.2	127.3	121.6	114.0	106.4	96.9	87.4	76.0	64.6
<b>150</b>	110.2	106.4	104.5	100.7	95.0	89.3	79.8	72.2	64.6	53.2
<b>155</b>	87.4	85.5	81.7	77.9	74.1	70.3	64.6	55.1	45.6	36.1
<b>160</b>	66.5	66.5	64.6	60.8	55.1	47.5	41.8	34.2	26.6	20.9
<b>165</b>	38.0	36.1	32.3	28.5	24.7	20.9	19.0	17.1	15.2	11.4
<b>170</b>	13.3	13.3	13.3	13.3	13.3	11.4	9.5	7.6	7.6	5.7
<b>175</b>	5.7	5.7	5.7	5.7	5.7	3.8	3.8	3.8	3.8	3.8
<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><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>	95.0	95.0	95.0	95.0	95.0	95.0	95.0
<b>5</b>	121.6	123.5	125.4	125.4	127.3	127.3	127.3
<b>10</b>	159.6	161.5	165.3	167.2	167.2	169.1	169.1
<b>15</b>	207.1	212.8	216.6	222.3	224.2	226.1	226.1
<b>20</b>	264.1	273.6	281.2	288.8	292.6	296.4	296.4
<b>25</b>	338.2	355.3	370.5	381.9	389.5	397.1	399.0
<b>30</b>	448.4	480.7	509.2	530.1	547.2	560.5	562.4
<b>35</b>	592.8	636.5	674.5	703.0	723.9	739.1	741.0
<b>40</b>	744.8	792.3	830.3	860.7	883.5	900.6	902.5
<b>45</b>	877.8	925.3	965.2	997.5	1020.3	1033.6	1039.3
<b>50</b>	982.3	1020.3	1052.6	1079.2	1098.2	1109.6	1113.4
<b>55</b>	1029.8	1060.2	1084.9	1105.8	1121.0	1130.5	1134.3
<b>60</b>	1031.7	1060.2	1084.9	1103.9	1117.2	1126.7	1130.5
<b>65</b>	1014.6	1039.3	1060.2	1077.3	1090.6	1100.1	1103.9
<b>70</b>	969.0	993.7	1012.7	1029.8	1043.1	1050.7	1052.6
<b>75</b>	898.7	923.4	940.5	955.7	969.0	976.6	980.4
<b>80</b>	805.6	828.4	849.3	866.4	877.8	885.4	889.2
<b>85</b>	706.8	731.5	750.5	765.7	777.1	782.8	786.6
<b>90</b>	598.5	621.3	642.2	657.4	668.8	676.4	678.3
<b>95</b>	514.9	530.1	552.9	570.0	573.8	573.8	575.7
<b>100</b>	499.7	516.8	532.0	545.3	552.9	558.6	558.6
<b>105</b>	539.6	554.8	564.3	577.6	581.4	583.3	583.3
<b>110</b>	640.3	636.5	657.4	666.9	674.5	672.6	670.7
<b>115</b>	283.1	357.2	290.7	533.9	364.8	627.0	788.5
<b>120</b>	193.8	188.1	184.3	176.7	167.2	188.1	161.5
<b>125</b>	155.8	150.1	140.6	131.1	119.7	114.0	115.9
<b>130</b>	125.4	115.9	104.5	95.0	83.6	79.8	79.8
<b>135</b>	95.0	85.5	74.1	62.7	53.2	47.5	47.5
<b>140</b>	70.3	60.8	49.4	34.2	26.6	22.8	22.8
<b>145</b>	53.2	39.9	26.6	17.1	7.6	5.7	5.7
<b>150</b>	39.9	28.5	19.0	9.5	3.8	1.9	1.9
<b>155</b>	26.6	20.9	11.4	5.7	3.8	1.9	1.9
<b>160</b>	17.1	11.4	5.7	3.8	3.8	3.8	3.8
<b>165</b>	7.6	5.7	3.8	3.8	3.8	3.8	3.8
<b>170</b>	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<b>175</b>	3.8	3.8	3.8	3.8	3.8	3.8	3.8
<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\_359\_C1\_IN COVE.IES

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	43.83	N.A.	1.50
0-30	120.50	N.A.	4.10
0-40	276.29	N.A.	9.40
0-60	902.15	N.A.	30.70
0-80	1711.47	N.A.	58.30
0-90	2023.21	N.A.	68.90
10-90	2013.65	N.A.	68.60
20-40	232.46	N.A.	7.90
20-50	497.07	N.A.	16.90
40-70	1037.28	N.A.	35.30
60-80	809.32	N.A.	27.60
70-80	397.91	N.A.	13.50
80-90	311.74	N.A.	10.60
90-110	467.16	N.A.	15.90
90-120	648.53	N.A.	22.10
90-130	759.44	N.A.	25.90
90-150	884.48	N.A.	30.10
90-180	913.79	N.A.	31.10
110-180	446.63	N.A.	15.20
0-180	2937.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.56
10-20	34.27
20-30	76.67
30-40	155.79
40-50	264.62
50-60	361.25
60-70	411.42
70-80	397.91
80-90	311.74
90-100	230.22
100-110	236.94
110-120	181.37
120-130	110.91
130-140	78.18
140-150	46.86
150-160	22.63
160-170	6.15
170-180	0.53

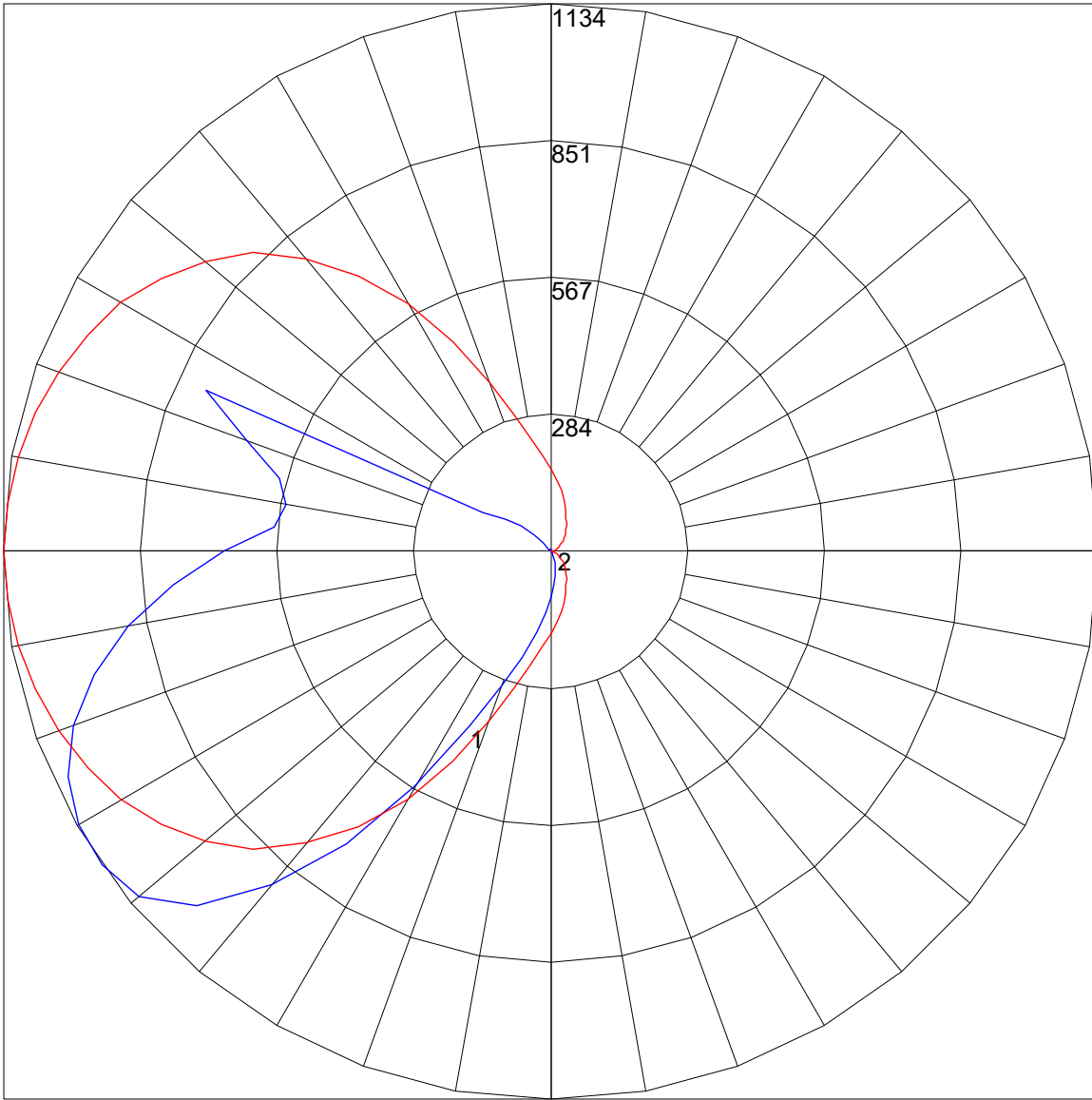
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AW\_HO\_359\_C1\_IN COVE.IES**

**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 = 1134.3 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.)