

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	52	53	54	55
Total Lumens, 4' rail length (1219mm)	763	787	803	812
Lumens per foot (305mm)	191	197	201	203
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	94	94	94	94

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_LO_359_C1_IN COVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911562 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z9-48-AW-Z-LO-359-C1-AL

[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 90 CRI, zipper board,

[MORE] clear lens w/edgesoft, low 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	803
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	3.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	64	892	3312
55	118	1138	4318
65	213	1439	6020
75	348	1653	9570
85	775	2583	18601

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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>
0.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
5.0	28.0	28.0	28.0	28.0	28.0	28.5	29.0	29.0	29.5	30.5
10.0	21.0	21.0	21.5	21.5	21.5	22.0	22.5	23.5	24.5	25.5
15.0	15.5	16.0	16.0	16.0	16.5	17.0	18.5	19.5	21.0	22.5
20.0	11.5	11.5	11.5	12.0	12.5	13.5	15.0	16.5	18.0	20.0
25.0	8.0	8.0	8.5	9.0	9.5	11.0	13.5	14.0	16.0	18.0
30.0	5.5	5.5	5.5	6.5	7.5	9.0	10.0	13.5	14.5	16.5
35.0	2.0	2.5	3.0	4.5	6.0	7.5	8.5	11.5	14.5	16.0
37.5	1.0	1.0	1.0	2.0	3.0	5.5	8.0	10.0	14.0	15.5
40.0	1.0	1.0	1.0	2.0	3.0	4.5	6.0	8.0	13.0	15.0
42.5	1.0	1.0	1.0	2.0	3.5	4.5	6.0	8.0	9.5	15.5
45.0	1.0	1.0	1.5	2.5	3.5	5.0	6.5	8.0	9.5	14.0
47.5	1.0	1.0	1.5	2.5	3.5	5.0	6.5	8.5	9.5	14.0
50.0	1.0	1.0	1.5	2.5	4.0	5.5	7.0	8.5	10.0	14.0
52.5	1.5	1.5	2.0	3.0	4.0	5.5	7.0	9.0	10.5	14.0
55.0	1.5	1.5	2.0	3.0	4.5	5.5	7.0	9.0	10.5	14.5
57.5	2.0	2.0	2.0	3.0	4.5	5.5	7.5	9.0	10.5	14.5
60.0	2.0	2.0	2.5	3.0	4.5	5.5	7.0	9.0	10.5	14.5
62.5	2.0	2.0	2.5	3.0	4.5	5.5	7.0	9.0	10.0	14.0
65.0	2.0	2.0	2.5	3.0	4.0	5.5	6.5	8.5	9.5	13.5
67.5	2.0	2.0	2.5	3.0	4.0	5.0	6.5	8.0	9.0	12.5
70.0	2.0	2.0	2.5	3.0	4.0	5.0	6.0	7.5	9.0	10.5
72.5	2.0	2.0	2.5	3.0	3.5	4.5	5.5	7.0	8.5	9.5
75.0	2.0	2.0	2.5	3.0	3.5	4.5	5.5	6.5	8.0	9.5
77.5	2.0	2.0	2.0	2.5	3.5	4.0	5.0	6.0	7.0	8.5
80.0	2.0	2.0	2.0	2.5	3.0	3.5	4.5	5.0	6.0	7.5
85.0	1.5	1.5	2.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0
90.0	1.5	1.5	1.5	2.0	2.0	2.0	2.5	3.0	3.0	3.5
95.0	1.5	1.5	2.0	2.0	2.0	2.5	3.0	3.0	3.5	4.0
100.0	1.5	1.5	2.0	2.0	2.5	3.0	3.5	4.0	4.5	5.0
105.0	1.5	1.5	2.0	2.0	2.5	3.0	4.0	5.0	6.0	7.0
110.0	1.5	1.5	1.5	2.5	3.0	4.0	4.5	6.0	7.5	8.0
115.0	1.5	1.5	1.5	2.5	3.5	4.5	6.0	7.5	8.5	11.0
120.0	1.5	1.5	1.5	2.5	4.0	5.5	7.0	8.5	11.5	13.5
125.0	1.0	1.0	1.5	3.0	4.5	6.5	7.5	11.0	14.0	17.0
130.0	1.0	1.0	2.0	3.5	5.0	6.5	10.0	13.5	17.0	19.5
135.0	1.0	1.0	2.0	3.5	6.0	7.5	12.0	15.5	18.5	20.0
140.0	1.0	1.0	2.0	3.5	5.0	9.0	12.0	16.0	17.5	19.5
145.0	1.0	1.0	1.5	3.0	5.0	7.0	10.5	13.0	16.5	18.0
150.0	1.0	1.0	1.0	2.0	3.5	6.0	8.0	11.0	13.5	16.0
155.0	1.0	1.0	1.0	1.5	2.5	4.0	6.0	7.5	10.0	12.0
160.0	1.0	1.0	1.0	1.0	2.0	2.5	3.5	5.5	7.0	8.5
165.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.5	3.5	4.5
170.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	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>
0.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
5.0	31.0	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	40.0
10.0	27.0	28.0	29.5	31.0	33.0	34.5	36.5	38.5	40.5	42.5
15.0	24.0	26.0	27.5	29.5	32.0	34.0	36.5	39.5	42.0	45.0

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CANDELA TABULATION - (Cont.)

20.0	22.0	24.0	26.0	28.5	31.0	34.0	37.0	40.5	44.0	47.5
25.0	20.0	22.5	25.0	28.0	31.0	34.0	37.5	41.5	45.5	50.5
30.0	19.0	21.5	24.5	27.5	31.0	34.5	38.5	42.5	47.5	53.0
35.0	18.5	21.0	24.0	27.5	31.0	34.5	39.0	43.5	48.5	55.0
37.5	18.0	21.0	24.0	27.5	31.0	35.0	39.0	44.0	49.5	56.0
40.0	17.5	20.5	24.0	27.5	31.0	35.0	39.5	44.5	50.5	57.5
42.5	17.5	20.5	23.5	27.5	31.5	35.5	40.0	45.5	51.5	59.0
45.0	17.0	20.5	23.5	27.5	31.5	35.5	40.5	46.0	52.0	60.0
47.5	15.5	20.0	24.0	27.5	31.5	36.0	41.0	46.5	53.0	61.5
50.0	15.5	19.0	23.5	27.5	31.5	36.5	41.5	47.0	53.5	62.5
52.5	16.0	18.5	23.0	27.5	32.0	36.5	41.5	47.5	54.0	63.5
55.0	16.0	19.0	22.5	27.5	32.0	37.0	42.0	48.0	55.0	64.5
57.5	16.0	19.0	22.0	26.5	32.0	36.5	42.5	48.5	55.5	65.5
60.0	16.0	19.0	22.0	26.0	31.5	36.5	42.5	48.5	56.0	66.5
62.5	15.5	18.5	22.0	25.5	30.5	36.5	42.5	49.0	56.0	67.0
65.0	15.0	18.0	21.5	25.0	29.5	35.5	42.0	49.0	56.5	68.0
67.5	14.0	17.0	20.5	24.5	28.5	34.5	41.5	49.0	56.5	68.5
70.0	14.5	16.0	19.0	23.0	27.5	33.0	40.5	48.5	56.0	69.0
72.5	13.0	14.5	17.5	21.5	26.0	31.5	38.5	47.5	55.5	69.5
75.0	10.5	14.5	16.0	19.5	23.5	29.0	36.5	46.5	55.0	70.0
77.5	9.5	12.5	14.0	17.0	21.0	26.0	33.5	44.0	54.0	70.0
80.0	8.5	10.0	13.0	14.5	17.5	22.0	29.5	41.0	51.5	67.5
85.0	6.0	7.0	8.0	9.5	10.5	16.0	18.0	26.5	36.0	45.5
90.0	3.5	4.0	4.5	5.0	5.5	5.5	5.5	6.0	8.0	21.0
95.0	4.5	5.0	5.5	6.5	8.0	9.0	14.5	26.5	30.5	41.5
100.0	6.0	7.0	8.0	10.5	13.5	21.0	27.0	35.0	38.5	44.0
105.0	7.5	9.5	12.0	16.0	23.0	28.5	35.5	39.5	42.0	43.0
110.0	10.5	13.0	16.5	23.5	29.5	35.0	39.5	43.5	45.5	45.0
115.0	13.0	17.0	23.5	29.0	34.0	39.0	42.5	45.5	47.0	47.0
120.0	17.0	23.0	27.5	32.5	37.0	40.5	43.5	46.0	47.5	47.5
125.0	22.0	25.5	29.5	33.5	37.0	40.0	42.5	45.0	46.5	46.5
130.0	22.5	26.0	29.5	32.5	35.5	38.0	40.0	42.5	43.5	44.0
135.0	22.5	24.5	27.5	30.5	32.5	35.0	36.5	38.0	39.5	40.5
140.0	21.5	24.0	25.5	27.5	29.5	30.5	32.5	34.0	34.5	35.5
145.0	20.0	22.0	23.0	24.5	26.0	27.0	28.0	28.5	29.5	30.0
150.0	17.5	19.0	20.0	21.5	22.5	23.0	23.5	24.0	24.5	24.5
155.0	14.0	16.0	17.0	17.5	18.0	19.0	19.5	19.5	19.0	18.5
160.0	9.5	11.0	12.0	13.0	14.0	14.0	14.0	13.5	13.5	13.0
165.0	5.0	6.5	7.5	8.5	9.0	9.0	9.0	9.0	8.5	8.0
170.0	1.5	2.0	2.5	3.0	3.5	3.5	3.5	3.5	3.0	2.5
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
5.0	41.0	42.0	43.0	44.5	45.5	47.0	48.0	49.0	50.0	51.0
10.0	44.5	46.5	48.5	51.0	53.0	55.5	57.5	59.5	61.5	63.5
15.0	48.0	51.5	54.5	58.5	62.0	65.5	69.5	73.0	77.0	80.0
20.0	52.0	56.5	61.0	66.5	72.0	78.0	83.5	90.0	96.0	102.0
25.0	56.0	62.0	68.5	75.5	83.5	92.0	97.5	111.0	121.5	133.0
30.0	59.5	67.5	76.0	86.0	97.0	104.5	125.5	141.0	158.5	173.0
35.0	62.5	71.5	81.5	93.5	101.5	126.0	144.5	165.0	182.5	198.5
37.5	64.5	74.0	86.0	95.0	117.0	138.5	161.0	181.5	200.0	216.5
40.0	66.5	77.5	90.5	101.0	128.5	153.0	175.5	197.0	216.5	233.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z9_AW_LO_359_C1_IN COVE.IES

CANDELA TABULATION - (Cont.)

42.5	68.5	80.5	90.5	115.0	140.5	166.5	190.0	212.5	232.5	250.0
45.0	70.0	83.0	94.0	122.5	150.5	176.5	201.0	223.5	244.0	261.0
47.5	72.5	87.0	99.5	133.0	162.0	189.0	214.0	237.0	257.0	272.5
50.0	74.5	90.5	105.5	144.0	173.0	200.5	226.0	248.0	266.5	281.5
52.5	76.5	88.5	121.5	153.0	183.0	211.0	235.5	256.0	272.5	285.0
55.0	78.5	92.0	130.0	162.0	192.5	219.5	242.5	261.0	274.5	285.0
57.5	81.0	96.5	138.0	169.5	200.0	225.5	246.0	261.0	273.0	283.5
60.0	82.5	100.0	143.5	175.0	204.0	227.5	245.5	259.0	271.0	281.0
62.5	85.0	105.0	149.5	180.5	207.5	227.5	242.5	256.0	267.5	277.5
65.0	82.0	122.5	155.0	184.0	205.5	222.0	237.0	249.0	260.0	269.0
67.5	84.5	127.0	157.5	182.5	201.0	217.0	231.0	243.0	253.0	261.5
70.0	86.5	129.0	156.5	177.0	195.0	210.5	223.5	235.0	244.0	251.5
72.5	88.0	128.5	151.0	170.5	188.0	202.0	214.5	224.5	233.0	239.5
75.0	88.0	124.0	144.0	162.5	179.0	192.5	203.0	212.0	219.0	225.5
77.5	85.5	115.5	135.0	152.5	167.5	179.5	189.0	197.5	204.5	211.0
80.0	86.5	98.5	124.5	140.5	154.0	164.5	174.0	182.5	189.5	196.0
85.0	60.0	78.5	95.0	102.5	122.0	132.0	141.0	149.5	157.0	163.5
90.0	30.5	47.0	62.0	75.0	86.5	96.5	101.0	113.5	120.5	127.0
95.0	51.0	58.5	69.0	80.5	90.0	97.5	102.5	112.5	119.0	125.0
100.0	53.5	58.0	62.5	67.0	70.0	72.5	99.0	109.5	133.5	140.0
105.0	54.5	57.0	59.0	61.5	63.5	65.5	67.5	68.5	69.0	69.5
110.0	56.5	58.0	58.0	58.0	58.5	59.0	59.0	59.0	58.5	57.5
115.0	57.0	58.0	57.5	56.0	54.5	53.5	52.5	51.0	49.5	47.5
120.0	53.0	57.5	56.5	54.5	51.5	49.5	46.5	44.0	42.0	39.5
125.0	48.5	55.0	54.0	52.0	49.5	46.0	42.5	38.5	35.5	32.5
130.0	44.0	51.0	50.5	48.5	45.5	43.0	39.5	35.5	31.0	27.0
135.0	39.5	43.5	45.5	44.0	41.5	38.5	35.5	32.0	28.0	24.0
140.0	35.5	36.5	40.0	39.0	36.5	34.0	31.0	28.0	24.5	22.0
145.0	30.0	29.5	31.0	32.5	31.0	29.0	26.5	23.5	22.0	17.5
150.0	24.0	23.0	23.0	23.0	25.0	23.5	21.5	20.0	16.5	14.0
155.0	18.0	17.5	16.5	16.0	15.5	18.0	16.5	14.5	12.5	10.5
160.0	12.5	11.5	10.5	10.0	9.0	9.0	8.5	9.0	8.0	6.5
165.0	7.0	6.0	5.5	4.5	3.5	3.5	2.5	2.0	2.0	2.0
170.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
5.0	52.0	53.0	53.5	54.0	54.5	54.5	54.5
10.0	65.5	67.0	68.5	69.5	70.5	71.0	71.0
15.0	83.0	86.0	88.5	90.5	92.0	93.0	93.5
20.0	105.0	112.5	117.0	121.0	124.0	126.0	126.5
25.0	143.0	153.0	161.0	167.5	172.0	175.0	175.5
30.0	185.5	196.5	205.5	212.5	217.5	220.5	221.5
35.0	212.0	224.0	233.5	241.0	246.5	249.5	250.5
37.5	230.5	243.0	253.0	261.0	266.0	269.5	270.5
40.0	248.5	260.5	270.5	278.5	283.5	286.5	287.5
42.5	264.5	277.0	286.5	293.5	298.0	301.0	301.5
45.0	275.0	286.5	296.0	302.5	307.0	310.0	310.5
47.5	286.0	297.0	304.5	311.0	314.0	316.0	316.5
50.0	293.0	301.5	307.5	312.5	316.0	318.0	318.5
52.5	294.5	302.5	308.5	313.0	316.5	318.0	318.5
55.0	294.0	302.0	308.0	312.0	315.0	317.0	317.5

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AW_LO_359_C1_IN COVE.IES****CANDELA TABULATION - (Cont.)**

57.5	292.0	299.5	305.0	309.5	312.5	314.0	314.0
60.0	289.5	296.5	302.0	306.0	309.0	311.0	311.5
62.5	285.0	291.5	296.5	300.5	303.0	305.0	305.0
65.0	276.5	282.5	287.0	291.0	293.0	294.5	295.0
67.5	268.5	273.5	278.0	281.0	283.5	285.0	285.0
70.0	257.5	263.0	266.5	269.5	271.0	272.5	273.0
72.5	245.0	249.5	253.5	256.0	258.0	259.5	260.0
75.0	231.0	235.5	239.5	242.5	244.5	246.0	246.5
77.5	216.5	221.0	225.0	228.5	230.5	232.0	232.5
80.0	201.5	206.0	210.0	213.0	215.5	216.5	217.5
85.0	169.0	174.0	178.0	181.0	183.0	184.5	184.5
90.0	132.5	137.0	140.5	143.5	145.5	147.0	147.5
95.0	130.0	134.5	138.5	141.5	143.5	145.0	145.5
100.0	144.5	147.5	151.0	152.5	154.5	155.5	155.0
105.0	69.5	71.0	73.5	106.5	129.5	153.5	159.0
110.0	56.5	54.5	52.0	50.0	48.5	47.5	47.0
115.0	46.0	43.5	41.0	38.0	35.0	33.5	33.0
120.0	37.0	34.5	31.0	27.0	24.5	23.0	22.5
125.0	29.5	26.0	22.5	19.0	16.5	14.5	14.0
130.0	23.0	20.5	15.0	11.5	9.5	7.0	7.5
135.0	21.0	15.0	11.0	7.0	3.0	2.5	2.0
140.0	17.0	13.0	9.0	4.5	4.0	2.0	1.5
145.0	14.5	11.0	7.0	4.0	3.5	2.0	1.5
150.0	11.0	8.5	5.0	4.5	3.0	1.5	1.5
155.0	8.0	5.5	5.0	3.5	2.5	1.5	1.5
160.0	5.0	4.5	4.0	3.0	2.0	1.5	1.5
165.0	3.0	3.0	2.5	2.0	1.5	1.5	1.5
170.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AW_LO_359_C1_IN COVE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	17.81	N.A.	2.20
0-30	49.18	N.A.	6.10
0-40	105.41	N.A.	13.10
0-60	298.97	N.A.	37.20
0-80	523.54	N.A.	65.20
0-90	600.88	N.A.	74.80
10-90	596.98	N.A.	74.30
20-40	87.60	N.A.	10.90
20-50	172.90	N.A.	21.50
40-70	310.81	N.A.	38.70
60-80	224.57	N.A.	27.90
70-80	107.32	N.A.	13.40
80-90	77.34	N.A.	9.60
90-110	108.36	N.A.	13.50
90-120	140.82	N.A.	17.50
90-130	166.31	N.A.	20.70
90-150	195.93	N.A.	24.40
90-180	202.60	N.A.	25.20
110-180	94.25	N.A.	11.70
0-180	803.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.90
10-20	13.91
20-30	31.37
30-40	56.23
40-50	85.29
50-60	108.27
60-70	117.25
70-80	107.32
80-90	77.34
90-100	60.09
100-110	48.27
110-120	32.47
120-130	25.49
130-140	18.27
140-150	11.35
150-160	5.28
160-170	1.33
170-180	0.07

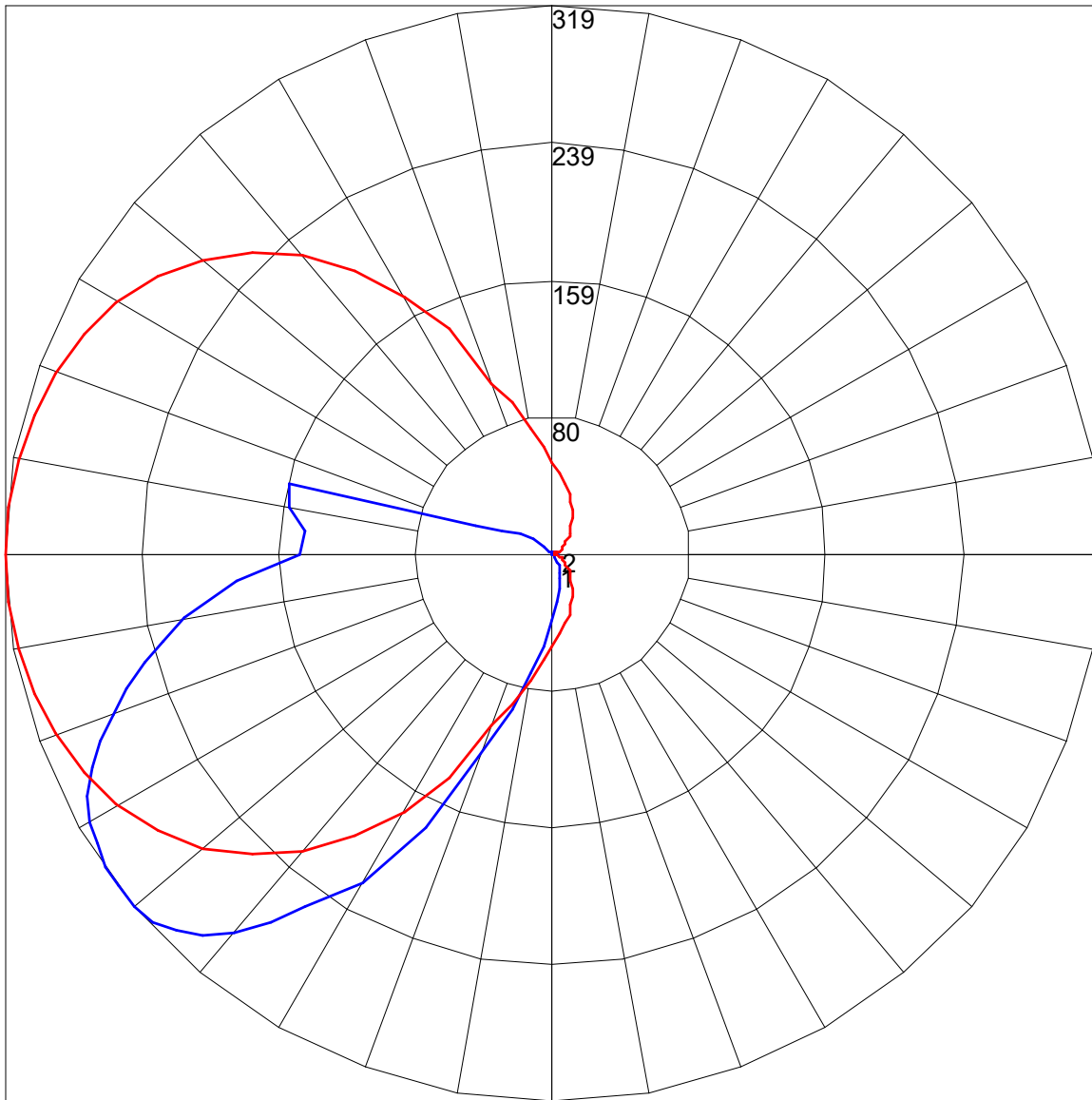
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_707_Z9_AW_LO_359_C1_IN COVE.IES

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	98	91	85	79	92	86	80	75	77	72	68	69	65	62	61	58	56	51
2	86	75	67	59	81	71	63	56	63	57	51	56	51	46	50	45	41	38
3	77	64	54	46	72	60	51	44	53	46	40	47	41	36	41	36	32	28
4	69	55	44	36	65	52	42	35	46	38	32	40	34	28	35	30	25	22
5	63	48	37	30	59	45	36	28	40	32	26	35	29	23	31	25	21	18
6	57	42	32	25	53	40	30	24	35	27	21	31	24	19	27	22	17	14
7	53	38	28	21	49	35	26	20	32	24	18	28	21	16	24	19	14	12
8	49	34	24	18	45	32	23	17	28	21	16	25	19	14	22	17	12	10
9	45	30	22	16	42	29	21	15	26	19	13	23	17	12	20	15	11	8
10	42	28	19	14	39	26	18	13	24	17	12	21	15	11	19	13	9	7

POLAR GRAPH



Maximum Candela = 318.5 Located At Horizontal Angle = 180, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)