

## IES Report

ZipThree® | 707 | Symmetric, up | 85° Asymmetric , down | 90 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-359-U1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	100
Total Lumens, 4' rail length (1219mm)	2696	2781	2838	2866
Lumens per foot (305mm)	674	695	709	717
Lumens per foot UP (305mm)	394	407	415	419
Lumens per foot DOWN (305mm)	280	288	294	297
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_LO\_359\_U1A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010917 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-48-Z-LO-359-U1A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens

[MORE] up/85° asymmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2838
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	29.78
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	8236	8532	7917
55	6797	7224	6837
65	5120	5517	5414
75	3478	3781	3888
85	1711	1831	2242

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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>	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5
<b>5</b>	584.0	584.0	583.5	583.5	583.0	582.5	581.5	581.0	580.0	578.5
<b>10</b>	594.5	594.5	594.5	594.0	593.0	592.5	591.0	590.0	588.5	586.5
<b>15</b>	594.5	594.0	594.0	593.5	593.0	592.0	590.5	589.0	587.5	585.0
<b>20</b>	585.0	584.5	584.5	584.0	583.0	582.5	581.0	579.5	578.0	575.5
<b>25</b>	567.5	567.0	567.0	566.5	566.0	565.0	564.0	562.5	561.0	559.0
<b>30</b>	542.0	542.0	542.0	541.5	541.0	540.0	539.0	538.0	536.5	534.5
<b>35</b>	508.0	508.0	508.0	508.0	507.5	507.0	506.5	505.5	504.0	502.5
<b>40</b>	463.5	463.5	463.5	464.0	464.0	464.0	464.0	463.5	463.0	462.0
<b>45</b>	409.5	409.5	410.0	410.0	410.5	411.5	412.0	412.5	412.5	412.5
<b>50</b>	349.0	349.0	349.5	350.0	350.5	351.5	352.5	353.5	354.0	355.0
<b>55</b>	286.5	286.5	287.0	287.5	288.0	289.0	290.0	291.0	292.0	293.0
<b>60</b>	226.0	226.0	226.5	226.5	227.5	228.0	228.5	229.5	230.5	231.5
<b>65</b>	170.5	170.5	170.5	171.0	171.0	171.5	172.0	173.0	173.5	174.0
<b>70</b>	122.5	122.5	123.0	123.0	123.0	123.5	123.5	124.0	124.0	124.5
<b>75</b>	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
<b>80</b>	48.0	48.0	48.0	48.0	48.0	47.5	47.5	47.5	47.0	47.0
<b>85</b>	22.0	22.0	22.0	22.0	21.5	21.5	21.0	21.0	20.5	20.0
<b>90</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95</b>	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
<b>100</b>	47.5	47.5	47.5	47.5	48.0	48.0	48.0	48.5	48.5	49.0
<b>105</b>	80.5	80.5	80.5	81.0	81.0	81.5	82.0	82.5	83.0	83.5
<b>110</b>	119.5	119.5	120.0	120.5	121.0	121.5	122.5	123.0	124.0	125.0
<b>115</b>	165.5	165.5	166.0	166.5	167.0	168.0	169.0	170.0	171.5	172.5
<b>120</b>	217.0	217.0	217.5	218.0	218.5	220.0	221.0	222.5	224.0	225.5
<b>125</b>	272.5	272.5	273.0	274.0	275.0	276.0	277.5	279.0	280.5	282.5
<b>130</b>	331.0	331.0	331.5	332.5	333.5	334.5	336.0	337.5	339.5	341.0
<b>135</b>	389.5	389.5	390.0	391.0	392.0	393.0	394.5	396.0	398.0	399.5
<b>140</b>	446.0	446.0	446.5	447.0	448.0	449.0	450.5	451.5	453.0	454.5
<b>145</b>	497.0	497.5	498.0	498.5	499.0	500.0	501.0	502.0	503.0	504.5
<b>150</b>	542.0	542.0	542.5	543.0	543.5	544.0	544.5	545.5	546.0	546.5
<b>155</b>	579.5	579.5	579.5	580.0	580.5	580.5	581.0	581.5	582.0	582.0
<b>160</b>	608.5	608.5	608.5	608.5	608.5	609.0	609.0	609.0	609.0	609.5
<b>165</b>	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
<b>170</b>	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
<b>175</b>	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
<b>180</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5

**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>	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5
<b>5</b>	577.5	576.0	574.5	573.0	571.0	569.0	567.0	565.0	563.0	561.0
<b>10</b>	584.5	582.0	579.0	576.0	573.0	569.0	565.0	560.5	556.0	551.0
<b>15</b>	582.5	580.0	576.5	572.5	568.0	563.5	557.5	551.0	544.0	536.0
<b>20</b>	573.0	570.0	566.5	562.0	557.0	551.5	544.0	536.0	526.5	515.5
<b>25</b>	556.5	553.5	549.5	545.0	539.5	533.0	525.0	515.0	504.0	489.5
<b>30</b>	532.0	529.0	525.5	521.0	515.5	509.0	500.0	488.5	475.0	458.0
<b>35</b>	500.5	498.0	494.5	490.0	484.5	477.5	468.0	456.5	440.5	421.0
<b>40</b>	460.5	458.0	455.5	451.5	446.5	439.5	430.0	417.5	400.5	378.0
<b>45</b>	411.5	410.0	408.0	405.0	400.5	394.0	384.5	372.0	354.0	330.5
<b>50</b>	355.0	354.5	353.0	351.0	347.0	341.5	333.0	321.0	303.0	279.0
<b>55</b>	293.5	294.0	293.5	292.0	289.0	284.0	276.5	265.0	248.5	227.5
<b>60</b>	232.0	232.5	232.0	231.0	229.0	225.0	218.5	209.0	195.5	171.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	174.0	174.5	174.0	173.0	171.5	168.5	164.0	156.5	145.5	130.0
<b>70</b>	124.5	124.5	124.0	123.0	121.5	119.0	115.5	110.0	101.5	89.5
<b>75</b>	81.0	81.0	80.5	80.0	78.5	77.0	74.0	70.5	64.5	57.5
<b>80</b>	46.5	46.0	45.5	44.5	44.0	42.5	41.0	38.5	35.0	31.0
<b>85</b>	19.5	19.0	18.5	18.0	17.5	16.5	16.0	14.5	13.0	11.0
<b>90</b>	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
<b>95</b>	21.0	21.0	21.0	21.0	20.5	20.5	20.5	20.5	20.5	21.0
<b>100</b>	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.5
<b>105</b>	84.0	84.5	85.0	85.5	85.5	86.0	86.0	86.0	86.0	86.5
<b>110</b>	126.0	127.0	127.5	128.0	128.5	129.0	129.0	129.0	129.5	129.5
<b>115</b>	173.5	175.0	176.0	176.5	177.0	177.5	178.0	178.0	178.0	178.0
<b>120</b>	227.0	228.5	229.5	230.5	231.5	232.0	232.0	232.0	232.0	231.5
<b>125</b>	284.0	285.5	287.0	288.5	289.0	290.0	290.0	290.0	290.0	289.0
<b>130</b>	343.0	344.5	346.0	347.5	348.5	349.0	349.5	349.5	349.0	348.0
<b>135</b>	401.5	403.0	404.5	405.5	406.5	407.0	407.5	407.5	407.0	406.0
<b>140</b>	456.0	457.5	458.5	459.5	460.0	460.5	461.0	461.0	460.5	459.5
<b>145</b>	505.5	506.5	507.0	507.5	508.0	508.5	508.5	508.0	508.0	507.0
<b>150</b>	547.5	548.0	548.5	549.0	549.0	549.0	549.0	549.0	548.0	547.5
<b>155</b>	582.0	582.5	582.5	583.0	583.0	582.5	582.5	582.5	582.0	581.0
<b>160</b>	609.5	609.5	609.5	609.5	609.5	609.5	609.0	609.0	608.5	607.5
<b>165</b>	629.5	629.5	629.5	629.5	629.5	629.5	629.0	629.0	628.5	628.0
<b>170</b>	643.5	643.5	643.0	643.0	643.0	643.0	642.5	642.5	642.0	642.0
<b>175</b>	650.5	650.5	650.5	650.5	650.5	650.0	650.0	650.0	650.0	649.5
<b>180</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5

**Vert. Horizontal Angles**  
**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>	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5	564.5
<b>5</b>	558.5	556.5	554.0	552.0	549.5	547.5	545.5	543.5	541.5	540.0
<b>10</b>	546.0	540.5	535.0	529.0	523.0	517.0	511.5	505.5	500.5	495.0
<b>15</b>	527.5	518.0	508.5	498.0	487.5	476.5	466.0	454.5	444.5	434.5
<b>20</b>	504.0	490.5	475.0	459.5	443.0	426.5	409.5	392.0	376.5	362.0
<b>25</b>	474.0	456.0	435.0	413.5	391.0	368.0	345.5	322.5	303.0	284.5
<b>30</b>	438.5	416.0	389.0	362.0	333.5	305.5	278.5	253.0	231.5	212.0
<b>35</b>	398.0	370.5	339.5	306.5	274.5	244.0	216.0	190.0	169.0	151.0
<b>40</b>	352.0	321.5	286.5	251.0	217.5	187.5	161.0	137.5	119.0	104.0
<b>45</b>	302.5	270.0	234.0	198.5	167.5	140.0	116.0	97.0	82.0	70.0
<b>50</b>	251.0	218.5	184.0	153.5	123.5	100.5	82.0	67.0	55.5	46.5
<b>55</b>	201.0	168.5	141.0	114.0	89.5	71.5	57.5	45.5	37.5	31.5
<b>60</b>	153.5	128.0	104.0	82.5	64.0	50.5	41.5	32.0	26.0	22.0
<b>65</b>	112.0	92.0	74.0	58.5	45.0	35.5	28.0	22.5	18.5	15.5
<b>70</b>	77.0	63.5	50.0	41.0	31.0	24.0	19.0	15.5	12.5	10.5
<b>75</b>	49.0	40.5	32.0	25.5	20.0	15.5	12.0	10.0	8.5	7.0
<b>80</b>	26.0	21.5	17.0	13.5	11.0	8.5	7.0	5.5	5.0	4.0
<b>85</b>	9.5	8.0	6.5	5.0	4.0	3.5	3.0	2.5	2.0	1.5
<b>90</b>	2.0	2.0	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0
<b>95</b>	21.5	22.0	23.0	23.5	23.5	24.0	24.5	24.5	24.5	24.5
<b>100</b>	50.5	51.0	51.5	52.0	52.0	52.5	52.5	52.5	52.0	52.0
<b>105</b>	86.5	87.0	87.5	87.5	87.5	87.0	87.0	86.5	86.5	86.0
<b>110</b>	129.5	129.5	129.5	129.5	129.0	128.5	127.5	127.0	126.5	125.5
<b>115</b>	177.5	177.0	177.0	176.5	176.0	175.0	174.0	173.0	172.0	171.0
<b>120</b>	231.0	230.5	229.5	228.5	227.5	226.5	225.5	224.0	223.0	221.5
<b>125</b>	288.5	287.5	286.0	284.5	283.0	281.5	280.0	278.5	277.0	276.0
<b>130</b>	347.0	345.5	344.0	342.0	340.0	338.5	336.5	335.0	333.5	331.5
<b>135</b>	404.5	403.0	401.0	399.0	396.5	394.5	392.5	390.5	389.0	387.0

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>140</b>	458.0	456.5	454.0	452.0	449.5	447.5	445.5	443.5	441.5	440.0
<b>145</b>	505.5	504.0	502.0	500.0	498.0	495.5	493.5	491.5	490.0	488.5
<b>150</b>	546.0	545.0	543.5	541.5	539.5	538.0	536.0	534.0	532.5	531.5
<b>155</b>	580.5	579.5	578.0	576.5	575.0	574.0	572.5	571.0	569.5	568.0
<b>160</b>	607.0	606.5	605.5	604.5	603.5	602.5	601.5	600.5	599.5	598.5
<b>165</b>	627.5	627.0	626.5	626.0	625.0	624.5	624.0	623.0	622.5	622.0
<b>170</b>	641.5	641.5	641.0	640.5	640.5	640.0	639.5	639.5	639.0	638.5
<b>175</b>	649.5	649.5	649.5	649.0	649.0	649.0	649.0	648.5	648.5	648.5
<b>180</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5

**Vert.  
Angles**

**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>	564.5	564.5	564.5	564.5	564.5	564.5	564.5
<b>5</b>	538.5	537.0	536.0	535.0	534.5	534.0	534.0
<b>10</b>	490.5	486.5	483.0	480.5	478.5	477.0	477.0
<b>15</b>	426.0	418.0	411.5	406.5	402.5	400.5	399.5
<b>20</b>	348.5	337.5	328.0	320.5	315.0	312.0	311.0
<b>25</b>	268.5	255.5	244.0	235.5	230.0	226.5	225.0
<b>30</b>	195.5	182.5	172.0	164.0	158.5	155.5	154.0
<b>35</b>	136.5	125.0	116.0	109.5	104.5	102.0	101.0
<b>40</b>	92.0	83.0	75.5	70.5	67.0	65.0	64.5
<b>45</b>	61.0	54.0	48.5	45.0	42.5	41.0	40.5
<b>50</b>	41.5	35.5	32.0	29.0	27.5	26.5	26.0
<b>55</b>	27.0	23.5	21.0	19.5	18.5	17.5	17.5
<b>60</b>	18.5	16.5	14.5	13.5	12.5	12.5	12.0
<b>65</b>	13.0	11.5	10.5	9.5	9.0	9.0	8.5
<b>70</b>	9.0	8.0	7.5	7.0	6.5	6.0	6.0
<b>75</b>	6.0	5.5	5.0	4.5	4.5	4.0	4.0
<b>80</b>	3.5	3.0	3.0	3.0	2.5	2.5	2.5
<b>85</b>	1.5	1.5	1.5	1.0	1.0	1.0	1.0
<b>90</b>	3.0	3.0	3.0	3.0	3.0	3.0	3.0
<b>95</b>	24.5	24.5	24.5	24.5	24.5	24.5	24.5
<b>100</b>	52.0	52.0	51.5	51.5	51.5	51.5	51.5
<b>105</b>	85.5	85.0	85.0	84.5	84.5	84.0	84.0
<b>110</b>	125.0	124.5	124.0	123.5	123.0	122.5	122.5
<b>115</b>	170.0	169.5	168.5	168.0	167.5	167.0	167.0
<b>120</b>	220.5	219.0	218.5	217.5	217.0	216.5	216.5
<b>125</b>	274.5	273.0	272.0	271.0	270.5	270.0	270.0
<b>130</b>	330.0	329.0	328.0	327.0	326.0	325.5	325.5
<b>135</b>	385.5	384.5	383.0	382.0	381.5	381.0	381.0
<b>140</b>	438.5	437.0	436.0	435.0	434.5	434.0	434.0
<b>145</b>	487.0	485.5	484.5	484.0	483.0	483.0	483.0
<b>150</b>	529.5	528.5	528.0	527.0	526.5	526.0	526.0
<b>155</b>	567.0	566.0	565.5	564.5	564.0	564.0	563.5
<b>160</b>	598.0	597.0	596.5	596.0	595.5	595.5	595.0
<b>165</b>	621.5	621.0	620.5	620.5	620.0	620.0	620.0
<b>170</b>	638.5	638.0	638.0	637.5	637.5	637.5	637.5
<b>175</b>	648.5	648.5	648.5	648.0	648.0	648.0	648.0
<b>180</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_LO\_359\_U1A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	199.20	N.A.	7.00
0-30	404.22	N.A.	14.20
0-40	629.15	N.A.	22.20
0-60	1003.08	N.A.	35.30
0-80	1162.94	N.A.	41.00
0-90	1177.34	N.A.	41.50
10-90	1124.29	N.A.	39.60
20-40	429.95	N.A.	15.20
20-50	639.27	N.A.	22.50
40-70	480.59	N.A.	16.90
60-80	159.85	N.A.	5.60
70-80	53.20	N.A.	1.90
80-90	14.41	N.A.	0.50
90-110	117.27	N.A.	4.10
90-120	289.29	N.A.	10.20
90-130	540.58	N.A.	19.10
90-150	1156.53	N.A.	40.80
90-180	1660.3	N.A.	58.50
110-180	1543.02	N.A.	54.40
0-180	2837.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.06
10-20	146.14
20-30	205.02
30-40	224.94
40-50	209.31
50-60	164.62
60-70	106.65
70-80	53.20
80-90	14.41
90-100	26.21
100-110	91.06
110-120	172.02
120-130	251.28
130-140	304.76
140-150	311.19
150-160	265.33
160-170	176.70
170-180	61.74

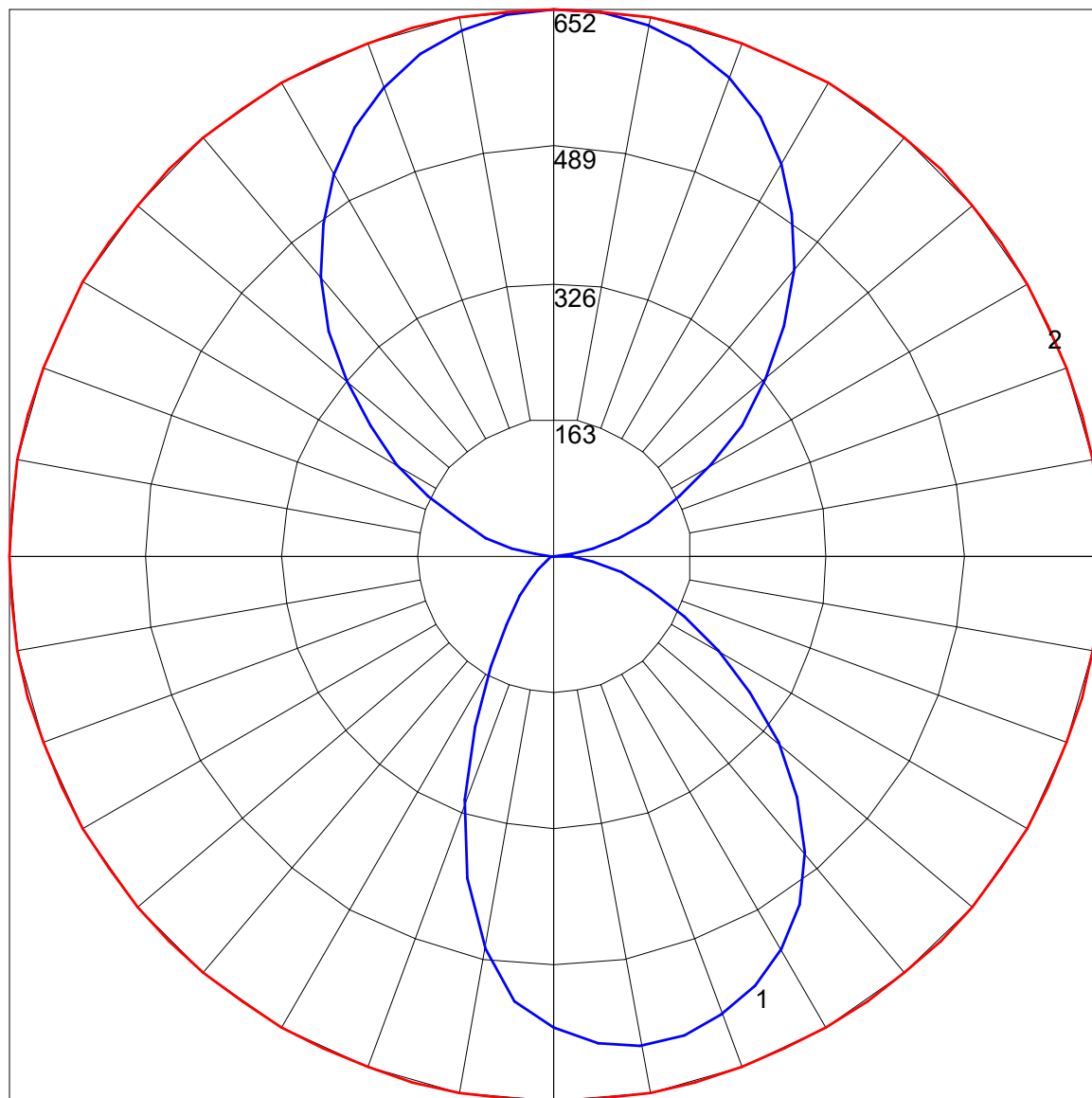
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_LO\_359\_U1A1\_BL.IES**

**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	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	39	37	36	31
3	80	71	64	59	73	66	59	55	54	50	46	44	41	38	35	32	31	26
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23
5	68	57	49	43	62	52	45	40	44	38	35	36	32	29	28	26	24	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	26	23	21	18
7	58	46	38	33	53	42	36	31	36	31	27	29	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 651.5 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.)