

**IES Report**

**ZipWave® | 707 | Clear with EdgeSoft™ | 80 CRI | LO**

**707-Z9-4-48-AC / EL-XX-X-0-Z-LO-35-C1-0-AL-0**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	99
Total Lumens, 4' rail length (1219mm)	1487	1534	1565	1596
Lumens per foot (305mm)	372	383	391	399
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
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\_AC\_LO\_35\_C1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101707601 (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-AC-Z-LO-35-C1  
[LUMINAIRE] ZipWave LED, 48", ceiling cove, 3500K, 80 CRI, zipper board,  
[MORE] clear lens w/edge softening, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	4.06	4.06	6.96	9.86	12.76	16.24	19.72	23.20	27.84	35.38
<b>100</b>	364.24	377.58	413.54	460.52	502.28	524.32	519.10	495.90	462.26	419.92
<b>105</b>	664.10	661.78	654.24	642.64	626.40	603.78	577.10	544.62	506.34	463.42
<b>110</b>	686.72	684.40	676.86	665.84	650.18	629.30	603.78	571.30	531.86	487.78
<b>115</b>	701.80	698.90	693.10	680.92	664.10	643.22	618.28	587.54	552.16	513.30
<b>120</b>	709.34	706.44	701.22	690.20	675.12	656.56	633.36	607.84	580.58	559.12
<b>125</b>	718.04	715.72	711.08	702.38	690.20	678.02	666.42	657.72	642.64	608.42
<b>130</b>	751.10	750.52	748.78	746.46	740.66	729.06	708.76	678.60	639.16	595.66
<b>135</b>	768.50	766.18	759.22	748.20	731.38	710.50	683.82	652.50	615.38	575.94
<b>140</b>	729.06	726.74	720.36	709.92	693.68	674.54	650.76	621.76	588.70	553.32
<b>145</b>	684.40	682.08	676.28	666.42	652.50	635.10	613.64	588.12	558.54	526.06
<b>150</b>	633.94	632.20	626.98	617.70	604.94	589.86	570.72	548.10	521.42	493.58
<b>155</b>	575.36	573.62	568.98	560.86	549.84	536.50	520.26	500.54	478.50	455.30
<b>160</b>	507.50	505.76	502.28	495.90	487.20	476.18	463.42	448.34	430.94	413.54
<b>165</b>	435.58	434.42	432.10	427.46	421.08	413.54	404.84	394.40	383.38	371.20
<b>170</b>	367.72	367.14	365.98	363.08	359.60	355.54	350.90	345.10	338.14	331.76
<b>175</b>	310.88	310.88	310.30	309.14	307.98	306.24	304.50	302.18	299.86	296.96
<b>180</b>	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96

Vert. Horizontal Angles  
 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>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_LO\_35\_C1.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	48.72	90.48	145.00	157.18	122.96	87.58	54.52	36.54	14.50	10.44
<b>100</b>	371.20	319.00	262.74	204.16	158.92	120.64	100.92	65.54	41.18	23.78
<b>105</b>	412.96	356.12	297.54	243.60	205.90	180.96	133.40	93.38	63.22	45.24
<b>110</b>	440.22	388.02	339.30	310.88	268.54	204.16	161.24	120.06	88.74	67.28
<b>115</b>	473.86	440.80	414.70	354.96	291.16	232.00	184.44	145.58	113.10	90.48
<b>120</b>	543.46	499.38	435.00	368.30	307.40	251.72	206.48	168.78	136.88	113.68
<b>125</b>	558.54	499.38	437.90	377.00	320.74	269.12	226.20	190.24	158.92	136.30
<b>130</b>	546.94	493.00	437.90	382.22	331.18	283.04	243.02	208.80	179.22	156.60
<b>135</b>	532.44	484.30	433.84	383.96	337.56	294.06	256.94	225.04	196.62	175.74
<b>140</b>	513.88	470.96	426.30	382.22	340.46	301.60	267.96	238.96	212.86	192.56
<b>145</b>	491.26	453.56	414.12	375.84	339.88	305.66	276.08	249.98	226.20	207.64
<b>150</b>	463.42	430.94	397.88	365.40	335.24	306.24	281.30	258.68	237.80	221.56
<b>155</b>	430.36	404.26	377.58	351.48	327.70	304.50	283.62	264.48	247.66	233.16
<b>160</b>	394.98	375.26	355.54	335.82	317.84	299.86	284.20	269.12	255.20	243.60
<b>165</b>	358.44	345.68	332.34	319.00	306.24	294.06	282.46	271.44	261.58	252.30
<b>170</b>	324.80	317.26	309.72	301.60	294.06	286.52	278.98	272.02	265.64	259.26
<b>175</b>	294.06	291.16	287.68	284.78	281.30	277.82	274.34	271.44	267.96	264.48
<b>180</b>	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96

**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>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
<b>100</b>	25.52	24.94	23.78	23.20	22.04	21.46	21.46	20.88	20.88	20.30
<b>105</b>	41.18	41.76	41.18	39.44	37.70	36.54	35.38	34.80	33.64	33.06
<b>110</b>	56.26	58.00	58.00	56.84	55.10	53.36	51.62	49.88	48.72	48.14
<b>115</b>	75.98	72.50	74.24	73.66	72.50	70.76	69.02	66.70	65.54	63.80
<b>120</b>	97.44	87.58	88.16	88.74	88.74	87.58	85.84	84.10	82.36	81.20
<b>125</b>	118.32	106.14	100.34	101.50	102.66	102.66	101.50	100.34	98.60	97.44
<b>130</b>	138.62	125.28	116.00	113.10	114.26	114.84	115.42	114.84	113.68	113.10
<b>135</b>	157.76	143.84	133.98	127.02	124.70	125.86	126.44	127.02	126.44	126.44

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_LO\_35\_C1.IES**

**CANDELA TABULATION - (Cont.)**

<b>140</b>	175.74	161.82	151.38	143.26	137.46	135.14	135.72	136.30	136.88	136.88
<b>145</b>	192.56	179.22	168.20	160.08	153.12	148.48	145.58	144.42	145.00	145.58
<b>150</b>	207.06	194.88	184.44	176.32	168.78	163.56	159.50	156.02	153.70	152.54
<b>155</b>	220.40	209.38	199.52	191.98	185.02	179.22	174.58	170.52	167.62	165.30
<b>160</b>	232.58	223.30	214.60	207.06	200.68	195.46	190.82	186.76	183.28	180.38
<b>165</b>	243.60	236.06	228.52	222.72	216.92	212.28	207.64	204.16	200.68	197.78
<b>170</b>	253.46	247.66	242.44	237.80	233.16	229.68	226.20	223.30	220.40	218.08
<b>175</b>	261.58	258.68	255.78	253.46	250.56	248.24	246.50	244.76	243.02	241.28
<b>180</b>	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96	267.96

**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>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	10.44	10.44	10.44	10.44	9.86	9.86	9.86
<b>100</b>	20.30	19.72	19.72	19.72	19.14	19.14	19.14
<b>105</b>	32.48	31.90	31.90	31.32	31.32	30.74	30.74
<b>110</b>	46.98	46.40	45.82	45.24	44.66	44.66	44.66
<b>115</b>	62.64	62.06	60.90	60.32	59.74	59.74	59.16
<b>120</b>	79.46	78.30	77.72	76.56	75.98	75.98	75.98
<b>125</b>	96.28	95.12	93.96	93.38	92.80	92.22	92.22
<b>130</b>	111.94	110.78	110.20	109.62	109.04	108.46	108.46
<b>135</b>	125.86	125.28	124.70	124.12	123.54	123.54	123.54
<b>140</b>	136.88	136.88	136.88	136.30	136.30	136.30	136.30
<b>145</b>	146.16	146.16	146.16	146.16	146.16	146.16	146.16
<b>150</b>	151.96	152.54	153.12	153.12	153.12	153.12	153.70
<b>155</b>	163.56	161.82	161.24	160.66	160.08	159.50	159.50
<b>160</b>	178.06	176.32	175.16	174.00	173.42	172.84	172.84
<b>165</b>	196.04	193.72	191.98	190.82	190.24	189.66	189.66
<b>170</b>	215.76	214.02	212.86	211.70	211.12	210.54	209.96
<b>175</b>	240.12	238.96	237.80	237.22	236.64	236.64	236.64
<b>180</b>	267.96	267.96	267.96	267.96	267.96	267.96	267.96

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_LO\_35\_C1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	298.82	N.A.	19.10
90-120	569.66	N.A.	36.40
90-130	849.33	N.A.	54.30
90-150	1313.32	N.A.	83.90
90-180	1564.84	N.A.	100.00
110-180	1266.02	N.A.	80.90
0-180	1564.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	64.76
100-110	234.06
110-120	270.84
120-130	279.67
130-140	258.18
140-150	205.81
150-160	143.67
160-170	81.80
170-180	26.05

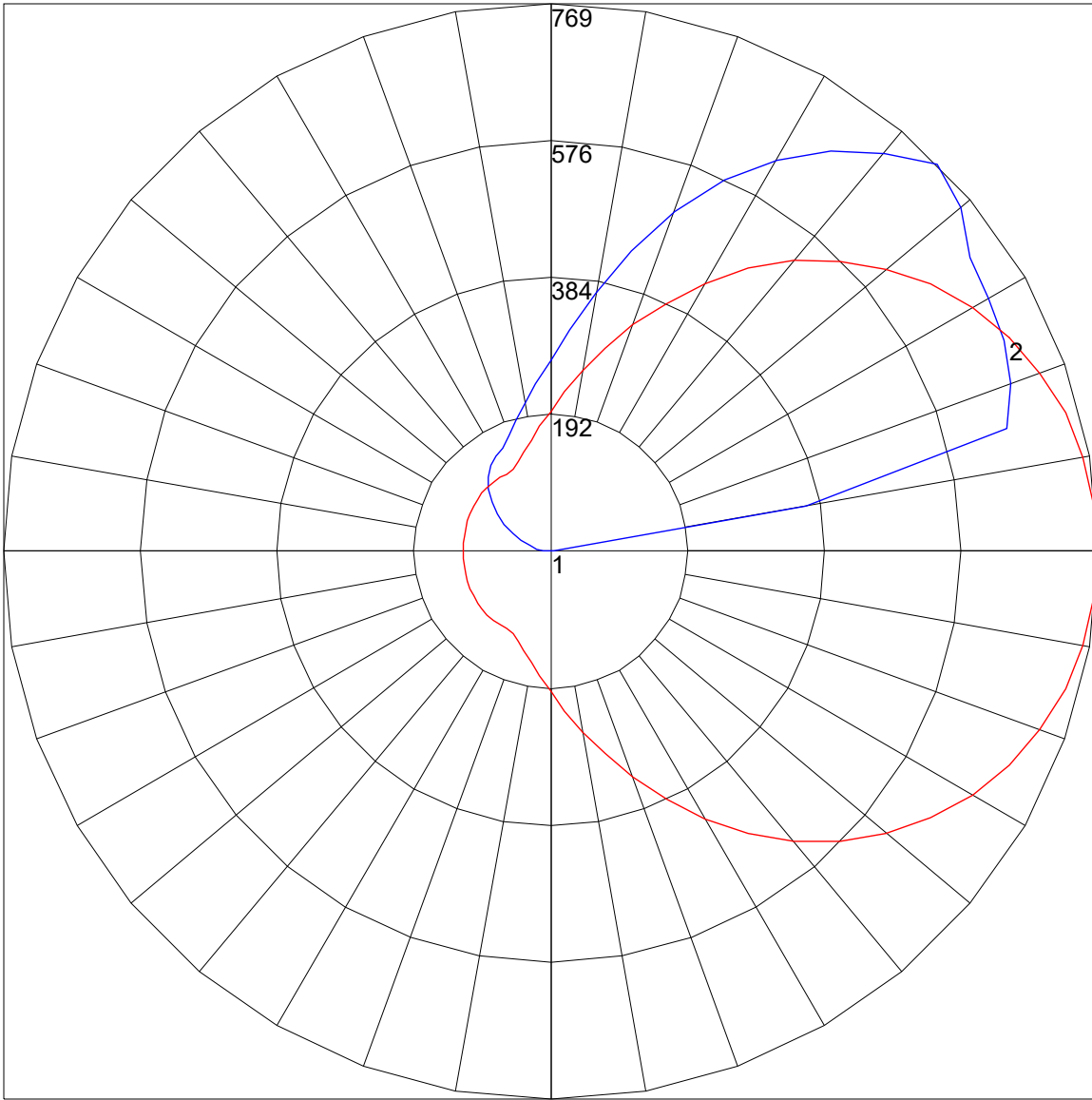
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z9\_AC\_LO\_35\_C1.IES**

**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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 768.5 Located At Horizontal Angle = 0, Vertical Angle = 135  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)