

## IES Report

# ZipTwo® | 707 | Square 3572, Single Side Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-HA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	91
Total Lumens, 4' rail length (1219mm)	1274	1314	1341	1354
Lumens per foot (305mm)	318	329	335	339
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	95	95	95	95

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\_Z2\_LO\_359\_HA\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-359-HA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] single side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	14.89
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	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 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

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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>	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825
<b>5</b>	0.420	0.460	0.460	0.460	0.505	0.505	0.545	0.545	0.545	0.585
<b>10</b>	0.335	0.335	0.335	0.420	0.420	0.420	0.420	0.420	0.460	0.505
<b>15</b>	0.420	0.375	0.420	0.375	0.420	0.420	0.420	0.420	0.420	0.420
<b>20</b>	0.420	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
<b>25</b>	0.585	0.585	0.585	0.585	0.545	0.545	0.545	0.545	0.545	0.545
<b>30</b>	0.670	0.670	0.715	0.715	0.715	0.630	0.630	0.630	0.585	0.545
<b>35</b>	0.840	0.840	0.840	0.795	0.795	0.795	0.755	0.715	0.670	0.670
<b>40</b>	1.005	1.005	0.965	0.965	0.965	0.880	0.880	0.840	0.755	0.755
<b>45</b>	1.090	1.090	1.090	1.090	1.050	1.050	0.965	0.920	0.840	0.840
<b>50</b>	1.260	1.260	1.215	1.215	1.215	1.130	1.130	1.050	1.005	0.920
<b>55</b>	1.340	1.340	1.340	1.340	1.300	1.300	1.215	1.130	1.090	1.005
<b>60</b>	1.510	1.465	1.465	1.465	1.385	1.385	1.300	1.260	1.175	1.090
<b>65</b>	1.595	1.595	1.550	1.550	1.510	1.465	1.385	1.340	1.260	1.175
<b>70</b>	1.675	1.675	1.635	1.635	1.595	1.550	1.465	1.425	1.340	1.260
<b>75</b>	1.760	1.760	1.720	1.720	1.675	1.635	1.550	1.465	1.425	1.300
<b>80</b>	1.845	1.845	1.800	1.800	1.720	1.720	1.635	1.550	1.465	1.340
<b>85</b>	1.930	1.930	1.885	1.845	1.800	1.720	1.675	1.595	1.510	1.425
<b>90</b>	1.930	1.930	1.930	1.885	1.885	1.800	1.720	1.635	1.550	1.425
<b>95</b>	2.010	2.010	2.010	1.970	1.930	1.885	1.800	1.720	1.595	1.510
<b>100</b>	2.095	2.055	2.010	2.010	1.970	1.930	1.845	1.720	1.635	1.510
<b>105</b>	2.095	2.095	2.095	2.095	2.010	1.970	1.885	1.800	1.720	1.595
<b>110</b>	2.180	2.140	2.095	2.095	2.055	2.010	1.930	1.845	1.720	1.635
<b>115</b>	2.180	2.180	2.140	2.095	2.095	2.010	1.930	1.885	1.800	1.635
<b>120</b>	2.180	2.180	2.140	2.095	2.095	2.010	1.970	1.885	1.800	1.675
<b>125</b>	2.180	2.180	2.140	2.095	2.095	2.010	1.930	1.845	1.760	1.675
<b>130</b>	2.095	2.140	2.095	2.095	2.010	2.010	1.930	1.885	1.760	1.675
<b>135</b>	2.095	2.055	2.055	2.010	2.010	1.930	1.845	1.800	1.760	1.720
<b>140</b>	2.010	2.010	1.970	1.970	1.930	1.800	1.845	1.800	1.760	1.720
<b>145</b>	1.930	1.930	1.930	1.885	1.720	1.760	1.845	1.845	1.845	1.800
<b>150</b>	1.845	1.845	1.845	1.675	1.675	1.760	1.800	1.930	1.930	1.885
<b>155</b>	1.760	1.675	1.635	1.550	1.635	1.720	1.930	1.930	1.930	1.885
<b>160</b>	1.595	1.595	1.385	1.465	1.635	1.885	1.930	1.930	1.885	1.970
<b>165</b>	1.595	1.385	1.340	1.510	1.930	2.055	2.140	2.265	2.265	2.345
<b>170</b>	2.010	1.760	1.800	2.180	2.305	2.390	2.430	2.430	2.430	2.430
<b>175</b>	1.510	1.760	2.095	2.265	2.345	2.430	2.430	2.475	2.515	2.475
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825
<b>5</b>	0.585	0.630	0.670	0.755	0.965	1.385	2.180	3.395	4.990	7.085
<b>10</b>	0.505	0.505	0.545	0.545	0.630	0.630	0.795	1.720	4.695	9.555
<b>15</b>	0.460	0.460	0.505	0.545	0.545	0.630	0.630	1.005	4.485	12.115
<b>20</b>	0.460	0.460	0.460	0.505	0.545	0.545	0.630	0.755	4.150	14.630
<b>25</b>	0.460	0.460	0.460	0.460	0.505	0.545	0.630	0.715	4.190	16.935
<b>30</b>	0.545	0.545	0.505	0.460	0.460	0.545	0.585	0.715	3.980	19.195
<b>35</b>	0.585	0.585	0.545	0.505	0.505	0.545	0.585	0.715	3.270	21.165
<b>40</b>	0.670	0.630	0.585	0.545	0.505	0.460	0.545	0.670	3.020	23.555
<b>45</b>	0.755	0.670	0.670	0.585	0.545	0.505	0.545	0.670	2.765	25.230
<b>50</b>	0.840	0.755	0.670	0.585	0.585	0.505	0.505	0.630	2.475	26.700
<b>55</b>	0.920	0.840	0.755	0.670	0.585	0.505	0.505	0.585	2.305	27.830
<b>60</b>	1.005	0.880	0.795	0.715	0.630	0.585	0.505	0.545	2.055	31.600

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	1.090	0.965	0.840	0.755	0.670	0.585	0.505	0.505	2.555	34.660
<b>70</b>	1.090	1.005	0.880	0.795	0.670	0.585	0.505	0.460	2.345	34.370
<b>75</b>	1.175	1.050	0.920	0.795	0.715	0.630	0.505	0.460	2.095	34.660
<b>80</b>	1.260	1.090	0.965	0.840	0.715	0.630	0.545	0.460	1.885	34.660
<b>85</b>	1.260	1.130	1.005	0.880	0.755	0.630	0.585	0.505	1.550	34.240
<b>90</b>	1.300	1.175	1.050	0.880	0.795	0.670	0.585	0.505	1.260	34.745
<b>95</b>	1.340	1.215	1.050	0.920	0.795	0.715	0.585	0.505	1.175	34.075
<b>100</b>	1.385	1.260	1.130	0.965	0.840	0.715	0.630	0.505	1.090	33.195
<b>105</b>	1.425	1.300	1.175	1.050	0.880	0.755	0.670	0.585	1.425	32.020
<b>110</b>	1.510	1.340	1.215	1.050	0.920	0.840	0.715	0.630	1.340	23.515
<b>115</b>	1.550	1.385	1.260	1.130	1.005	0.880	0.795	0.795	1.340	20.955
<b>120</b>	1.550	1.425	1.300	1.175	1.050	0.920	0.840	0.965	1.340	17.980
<b>125</b>	1.550	1.465	1.340	1.215	1.090	1.005	0.920	1.050	1.385	14.920
<b>130</b>	1.550	1.465	1.385	1.300	1.130	1.090	1.090	1.175	1.425	11.945
<b>135</b>	1.635	1.550	1.465	1.300	1.215	1.215	1.260	1.260	1.465	9.935
<b>140</b>	1.675	1.595	1.465	1.385	1.340	1.385	1.340	1.385	1.510	8.510
<b>145</b>	1.760	1.675	1.595	1.465	1.550	1.595	1.465	1.465	1.595	6.875
<b>150</b>	1.800	1.760	1.675	1.760	1.800	1.760	1.635	1.635	1.845	6.075
<b>155</b>	1.800	1.800	1.930	2.010	1.930	1.845	1.800	1.845	1.970	5.490
<b>160</b>	2.095	2.140	2.180	2.095	2.010	1.970	1.970	2.010	2.055	4.570
<b>165</b>	2.305	2.305	2.220	2.140	2.095	2.095	2.095	2.140	2.140	3.690
<b>170</b>	2.390	2.305	2.265	2.265	2.305	2.305	2.305	2.345	2.305	3.100
<b>175</b>	2.475	2.430	2.475	2.475	2.515	2.515	2.515	2.515	2.515	2.765
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825	5.825
<b>5</b>	9.220	11.525	13.790	15.970	18.150	20.120	22.045	23.850	25.525	26.990
<b>10</b>	14.585	19.825	25.020	30.010	35.125	39.775	44.215	48.535	52.515	56.160
<b>15</b>	20.035	28.250	36.505	44.385	52.640	60.185	67.435	74.560	81.185	87.050
<b>20</b>	25.230	36.505	47.820	58.805	70.410	81.015	91.325	101.385	110.815	119.280
<b>25</b>	30.260	44.385	58.805	72.925	87.765	101.595	115.050	128.670	140.700	151.930
<b>30</b>	36.840	52.140	69.615	86.800	105.160	122.215	138.855	155.870	168.195	184.245
<b>35</b>	41.200	59.935	79.845	100.000	121.755	141.955	161.780	180.895	198.955	216.265
<b>40</b>	44.260	66.765	89.275	112.410	137.305	160.650	182.820	205.665	226.620	246.735
<b>45</b>	47.990	72.885	97.950	124.605	150.800	171.925	201.930	228.420	252.145	274.775
<b>50</b>	51.345	77.540	106.625	134.790	163.585	191.415	219.745	248.915	274.735	299.880
<b>55</b>	54.065	81.980	112.240	143.465	171.335	205.370	236.680	266.100	294.180	321.130
<b>60</b>	56.290	85.710	117.645	149.625	180.765	216.055	248.205	280.225	309.855	339.280
<b>65</b>	57.045	88.520	121.715	155.115	190.490	224.270	257.590	290.995	322.680	351.265
<b>70</b>	58.300	90.570	124.815	159.140	195.480	230.265	264.340	299.630	330.855	360.150
<b>75</b>	58.930	92.835	126.700	161.615	198.540	233.745	268.280	302.900	334.625	364.885
<b>80</b>	60.060	93.340	127.455	162.705	198.745	235.170	269.745	304.280	335.885	366.020
<b>85</b>	59.765	93.130	127.245	163.540	198.330	233.450	268.865	303.110	334.290	364.005
<b>90</b>	59.265	92.290	127.205	162.030	196.400	231.020	264.840	299.460	329.975	359.185
<b>95</b>	58.260	89.775	124.100	159.225	192.965	226.910	260.945	293.595	323.475	351.725
<b>100</b>	56.875	87.640	121.125	154.445	189.275	222.135	254.240	285.840	314.675	342.130
<b>105</b>	55.115	85.080	117.355	149.625	177.835	214.925	245.815	276.285	304.870	330.395
<b>110</b>	51.930	81.895	112.955	143.885	173.770	206.415	235.965	265.805	292.170	316.560
<b>115</b>	48.785	78.290	107.840	137.135	168.320	196.485	224.480	252.015	277.710	300.760
<b>120</b>	45.015	74.100	101.765	129.465	158.890	185.250	211.530	237.430	260.820	283.030
<b>125</b>	40.070	66.055	91.790	118.190	145.520	170.960	197.280	221.340	243.175	263.710
<b>130</b>	38.265	57.000	81.730	105.285	129.130	152.810	176.870	201.640	223.725	242.965
<b>135</b>	27.830	47.695	70.620	91.830	112.910	133.865	155.370	176.240	197.155	218.530

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	22.215	43.800	58.635	78.080	98.370	116.055	134.075	152.475	169.575	187.890
<b>145</b>	17.770	33.320	49.035	64.375	83.030	101.175	115.090	129.045	143.675	156.960
<b>150</b>	14.630	26.990	40.990	53.815	67.480	83.195	98.450	110.060	119.700	130.305
<b>155</b>	12.280	21.960	32.860	44.090	55.660	65.255	77.200	90.530	99.165	106.245
<b>160</b>	10.015	17.520	25.565	33.865	42.585	51.175	59.265	67.145	75.570	81.645
<b>165</b>	7.630	12.865	18.820	24.520	31.055	36.755	42.290	47.655	52.850	58.845
<b>170</b>	5.325	8.635	12.280	16.135	19.910	23.220	26.700	30.260	33.025	35.460
<b>175</b>	3.395	4.610	6.285	8.005	9.890	11.735	13.285	14.755	15.970	17.060
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**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>	5.825	5.825	5.825	5.825	5.825	5.825	5.825
<b>5</b>	28.290	29.420	30.345	31.100	31.645	31.935	32.020
<b>10</b>	59.350	62.030	64.295	66.135	67.435	68.190	68.400
<b>15</b>	92.460	96.985	100.840	103.940	106.080	107.380	107.880
<b>20</b>	127.120	133.740	139.360	143.800	146.945	148.915	149.625
<b>25</b>	162.285	170.580	177.835	183.825	188.100	190.740	191.705
<b>30</b>	196.945	208.345	217.860	225.235	230.600	234.080	235.125
<b>35</b>	232.025	245.355	256.795	265.640	272.220	276.410	277.710
<b>40</b>	264.885	280.350	293.970	304.825	312.455	317.150	318.785
<b>45</b>	295.440	313.000	328.465	340.705	349.210	354.490	356.420
<b>50</b>	322.725	342.085	359.060	372.600	382.110	387.980	390.035
<b>55</b>	345.565	366.605	384.460	399.550	409.900	416.355	418.280
<b>60</b>	364.215	386.345	405.120	420.630	431.445	438.440	440.580
<b>65</b>	377.375	401.100	420.460	436.220	447.580	454.830	457.095
<b>70</b>	386.725	410.150	430.940	446.575	457.930	465.265	467.570
<b>75</b>	392.340	415.685	435.925	451.520	462.920	470.210	472.350
<b>80</b>	393.345	416.520	436.430	451.895	463.465	470.380	472.600
<b>85</b>	390.915	413.755	433.285	448.835	459.775	466.565	468.910
<b>90</b>	385.505	407.760	427.040	442.130	452.735	459.270	461.450
<b>95</b>	377.290	398.960	417.195	432.365	442.760	449.170	451.225
<b>100</b>	366.770	387.645	405.205	419.625	429.850	436.095	438.065
<b>105</b>	353.990	374.025	390.955	404.785	414.470	420.715	422.640
<b>110</b>	338.565	357.680	374.650	387.350	396.780	402.690	404.450
<b>115</b>	322.135	340.075	355.710	367.780	376.580	382.110	383.915
<b>120</b>	303.065	320.000	334.585	345.690	354.200	359.185	360.780
<b>125</b>	282.320	297.955	311.530	322.180	329.765	334.415	335.965
<b>130</b>	259.815	274.145	286.510	296.320	303.150	307.385	308.890
<b>135</b>	235.880	248.790	259.855	268.700	274.945	278.715	279.890
<b>140</b>	207.045	222.090	231.815	239.655	245.395	248.750	249.965
<b>145</b>	173.895	189.735	202.815	209.770	214.505	217.650	218.615
<b>150</b>	142.335	155.240	168.485	178.840	182.990	185.545	186.510
<b>155</b>	112.620	121.795	132.695	145.265	151.220	153.480	154.155
<b>160</b>	86.715	90.780	98.160	106.625	117.815	120.035	120.625
<b>165</b>	62.450	64.755	65.970	70.495	77.285	85.000	85.415
<b>170</b>	37.975	39.525	39.860	39.860	43.045	50.840	54.400
<b>175</b>	17.815	18.190	18.315	17.310	16.135	16.390	22.295
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_HA\_WH.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	11.50	N.A.	0.90
0-30	39.20	N.A.	2.90
0-40	92.14	N.A.	6.90
0-60	285.49	N.A.	21.30
0-80	568.25	N.A.	42.40
0-90	721.08	N.A.	53.80
10-90	719.66	N.A.	53.70
20-40	80.64	N.A.	6.00
20-50	162.94	N.A.	12.20
40-70	327.60	N.A.	24.40
60-80	282.76	N.A.	21.10
70-80	148.52	N.A.	11.10
80-90	152.83	N.A.	11.40
90-110	282.42	N.A.	21.10
90-120	397.47	N.A.	29.60
90-130	488.32	N.A.	36.40
90-150	592.06	N.A.	44.20
90-180	619.85	N.A.	46.20
110-180	337.43	N.A.	25.20
0-180	1340.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.42
10-20	10.07
20-30	27.70
30-40	52.94
40-50	82.30
50-60	111.05
60-70	134.25
70-80	148.52
80-90	152.83
90-100	147.81
100-110	134.62
110-120	115.05
120-130	90.85
130-140	64.23
140-150	39.51
150-160	19.99
160-170	6.91
170-180	0.88

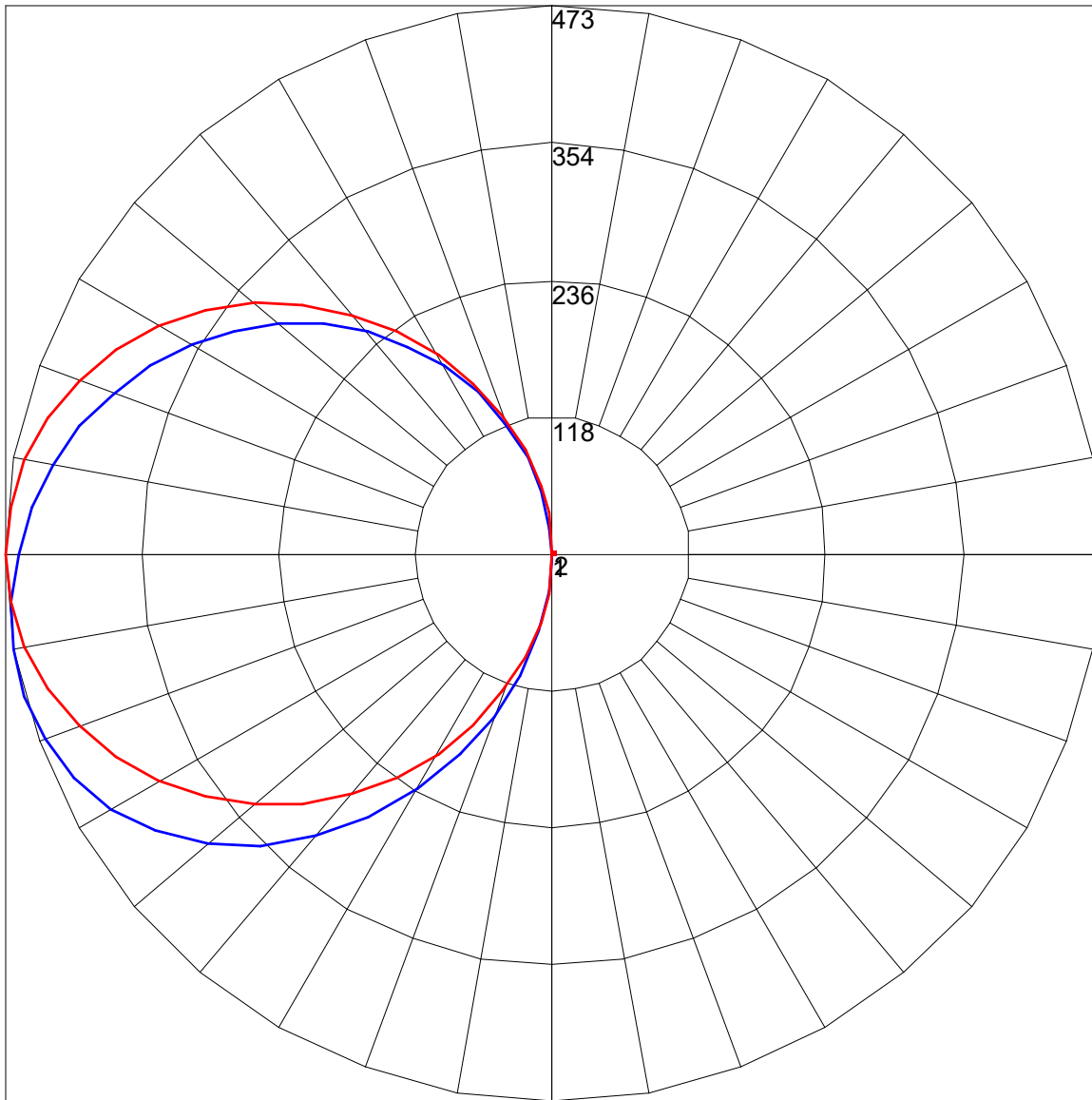
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z2\_LO\_359\_HA\_WH.IES**

**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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	39	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 472.6 Located At Horizontal Angle = 180, Vertical Angle = 80  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)