

## IES Report

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 80 CRI | LO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	120	122	122
Total Lumens, 4' rail length (1219mm)	3191	3292	3359	3359
Lumens per foot (305mm)	798	823	840	840
Lumens per foot UP (305mm)	378	390	398	398
Lumens per foot DOWN (305mm)	420	433	442	442
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	7.0	7.0	7.0	7.0
CRI	82	82	82	82

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\_107\_DR\_LO\_35\_G12.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911515 / L121911517 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-LO-35-G12-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, 120° batwing lens up /

[MORE] round diffuse lens down, 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	3359
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	27.64
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.17 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6843	8620	21180
55	4599	6085	17921
65	2768	3965	14241
75	1586	2347	10310
85	926	1332	6187

**IES INDOOR REPORT**  
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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>	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680
<b>5</b>	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940
<b>10</b>	654.820	654.820	654.820	654.820	654.820	654.820	654.240	654.240	654.240	654.240
<b>15</b>	640.320	640.900	640.320	640.320	640.320	639.740	639.740	639.740	639.740	639.160
<b>20</b>	620.600	620.600	620.600	620.600	620.020	619.440	618.860	618.860	618.280	617.700
<b>25</b>	594.500	594.500	594.500	593.920	593.340	592.760	592.180	591.600	591.020	589.860
<b>30</b>	562.020	562.020	562.020	561.440	560.860	560.280	559.120	557.960	556.800	555.640
<b>35</b>	522.000	522.000	522.000	522.000	521.420	521.420	520.260	519.100	517.360	515.620
<b>40</b>	472.120	472.120	472.700	473.280	473.280	473.860	473.860	473.280	472.120	470.380
<b>45</b>	414.700	415.280	415.860	416.440	417.600	418.760	419.920	420.500	419.920	418.760
<b>50</b>	355.540	355.540	356.120	357.280	359.020	360.180	361.920	362.500	363.080	362.500
<b>55</b>	294.640	294.640	295.800	297.540	299.280	301.600	303.920	305.080	305.660	305.080
<b>60</b>	234.900	235.480	236.640	238.960	241.280	244.180	247.080	249.400	250.560	250.560
<b>65</b>	181.540	182.120	183.280	185.020	187.920	190.820	193.720	196.620	198.360	198.940
<b>70</b>	138.040	138.040	139.200	140.940	143.260	145.580	148.480	150.800	151.960	152.540
<b>75</b>	103.240	103.240	104.400	105.560	107.300	109.620	111.360	113.100	114.260	114.260
<b>80</b>	77.720	77.720	78.300	79.460	80.620	82.360	83.520	84.680	85.260	84.680
<b>85</b>	58.000	58.000	58.580	59.160	60.320	60.900	62.060	62.060	62.060	60.900
<b>90</b>	44.080	44.080	44.080	44.660	45.240	45.240	45.820	45.820	45.240	43.500
<b>95</b>	69.861	69.861	69.786	69.664	69.397	69.565	68.353	67.576	65.372	61.880
<b>100</b>	115.466	115.490	115.658	115.756	115.681	115.049	113.135	110.339	105.583	98.907
<b>105</b>	171.164	171.094	171.065	170.949	169.830	168.716	166.042	161.692	155.017	145.545
<b>110</b>	232.742	232.719	232.574	232.133	230.388	228.543	224.605	218.121	209.061	197.130
<b>115</b>	296.067	296.015	295.382	294.414	291.885	287.976	282.460	274.514	263.123	248.640
<b>120</b>	356.804	356.393	355.418	353.545	350.053	344.659	337.949	327.451	314.331	297.557
<b>125</b>	411.220	410.686	409.178	406.435	401.720	395.450	386.674	374.964	359.554	339.967
<b>130</b>	456.640	456.060	454.088	450.805	445.753	438.335	427.860	414.520	396.778	374.999
<b>135</b>	493.255	492.426	490.094	485.912	478.987	470.142	458.252	442.093	422.913	399.823
<b>140</b>	516.252	515.208	511.978	506.845	498.806	488.348	474.979	457.771	438.010	415.425
<b>145</b>	523.160	521.849	518.375	512.633	504.565	493.046	479.167	460.561	441.473	419.671
<b>150</b>	515.289	514.193	510.719	504.861	496.787	486.115	470.937	455.573	437.929	418.795
<b>155</b>	492.646	491.747	488.418	483.094	475.774	466.297	454.940	441.716	427.083	411.139
<b>160</b>	461.483	460.630	457.910	453.583	447.627	439.994	431.120	421.399	410.628	399.568
<b>165</b>	424.676	424.073	422.420	419.769	416.046	411.382	406.081	400.026	393.658	386.976
<b>170</b>	392.979	392.712	391.958	390.549	388.849	386.756	384.250	381.553	378.711	375.596
<b>175</b>	371.879	371.757	371.513	371.223	370.881	370.301	369.715	369.037	368.329	367.627
<b>180</b>	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267

**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>	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680
<b>5</b>	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940	663.520	662.940
<b>10</b>	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240
<b>15</b>	638.580	638.580	638.000	638.000	637.420	638.000	637.420	637.420	638.000	637.420
<b>20</b>	617.120	616.540	615.380	615.380	614.800	614.220	614.220	613.640	614.220	613.640
<b>25</b>	588.700	587.540	586.380	585.220	584.640	583.480	583.480	583.480	583.480	583.480
<b>30</b>	553.900	552.160	550.420	548.680	547.520	545.780	545.200	544.620	544.620	544.620
<b>35</b>	513.880	510.980	508.660	505.760	503.440	501.700	499.960	499.380	499.380	499.380
<b>40</b>	467.480	464.000	460.520	457.040	453.560	451.240	448.920	447.760	447.180	447.760
<b>45</b>	415.860	412.380	407.740	403.680	399.620	395.560	392.660	390.920	390.920	390.920
<b>50</b>	360.180	357.280	352.640	347.420	342.200	337.560	334.080	331.760	331.760	331.760
<b>55</b>	303.340	300.440	296.380	290.580	285.360	280.140	276.080	273.760	273.180	273.760
<b>60</b>	248.820	245.340	240.700	236.060	230.260	224.460	219.820	217.500	216.340	217.500

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

<b>65</b>	197.780	194.300	190.240	184.440	178.640	172.840	168.200	165.300	164.720	165.300
<b>70</b>	151.960	149.060	145.000	139.200	132.820	127.020	121.800	118.900	117.740	118.900
<b>75</b>	113.100	110.200	106.140	100.920	94.540	88.160	82.940	79.460	77.720	79.460
<b>80</b>	82.940	80.040	75.400	69.600	63.220	56.840	51.040	46.980	45.820	46.980
<b>85</b>	59.160	55.680	51.040	45.820	39.440	32.480	26.680	22.040	20.300	22.040
<b>90</b>	41.180	38.280	33.640	28.420	22.620	16.820	11.020	5.800	2.320	5.800
<b>95</b>	56.886	50.924	43.871	36.610	30.241	24.557	19.987	17.400	16.188	17.400
<b>100</b>	90.318	81.217	71.149	62.054	55.239	49.207	45.211	43.367	41.911	43.367
<b>105</b>	134.032	120.971	107.932	95.549	86.350	79.796	75.406	72.610	71.613	72.610
<b>110</b>	182.050	165.039	148.086	132.536	121.069	112.445	106.424	103.315	102.196	103.315
<b>115</b>	230.098	209.786	189.103	169.882	155.614	143.886	137.344	133.435	132.049	133.435
<b>120</b>	275.813	252.329	227.638	205.355	188.459	174.905	166.686	161.849	160.196	161.849
<b>125</b>	316.407	290.162	263.424	238.461	217.860	203.319	193.790	188.175	186.400	188.175
<b>130</b>	348.580	321.082	293.207	267.392	245.299	229.523	218.851	212.703	210.662	212.703
<b>135</b>	373.590	345.297	315.943	290.325	269.683	253.448	242.457	236.014	233.804	236.014
<b>140</b>	389.348	363.045	335.147	310.642	290.980	275.517	264.700	258.309	256.070	258.309
<b>145</b>	396.407	372.586	349.003	327.172	309.743	295.429	285.511	279.508	277.460	279.508
<b>150</b>	398.547	378.056	358.510	340.518	325.595	313.560	304.784	299.489	297.691	299.489
<b>155</b>	394.899	379.198	364.246	350.343	338.894	329.336	322.410	318.037	316.599	318.037
<b>160</b>	388.095	377.516	366.896	357.170	349.148	342.560	337.554	334.370	333.326	334.370
<b>165</b>	380.097	373.729	367.453	361.671	356.880	352.797	349.757	347.838	347.229	347.838
<b>170</b>	372.534	369.495	366.798	364.002	361.914	359.873	358.608	357.779	357.535	357.779
<b>175</b>	366.844	366.119	365.412	364.878	364.391	364.002	363.759	363.567	363.567	363.567
<b>180</b>	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267

**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>	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680	664.680
<b>5</b>	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940	662.940
<b>10</b>	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240	654.240
<b>15</b>	637.420	638.000	637.420	638.000	638.000	638.580	638.580	639.160	639.740	639.740
<b>20</b>	614.220	614.220	614.800	615.380	615.380	616.540	617.120	617.700	618.280	618.860
<b>25</b>	583.480	583.480	584.640	585.220	586.380	587.540	588.700	589.860	591.020	591.600
<b>30</b>	545.200	545.780	547.520	548.680	550.420	552.160	553.900	555.640	556.800	557.960
<b>35</b>	499.960	501.700	503.440	505.760	508.660	510.980	513.880	515.620	517.360	519.100
<b>40</b>	448.920	451.240	453.560	457.040	460.520	464.000	467.480	470.380	472.120	473.280
<b>45</b>	392.660	395.560	399.620	403.680	407.740	412.380	415.860	418.760	419.920	420.500
<b>50</b>	334.080	337.560	342.200	347.420	352.640	357.280	360.180	362.500	363.080	362.500
<b>55</b>	276.080	280.140	285.360	290.580	296.380	300.440	303.340	305.080	305.660	305.080
<b>60</b>	219.820	224.460	230.260	236.060	240.700	245.340	248.820	250.560	250.560	249.400
<b>65</b>	168.200	172.840	178.640	184.440	190.240	194.300	197.780	198.940	198.360	196.620
<b>70</b>	121.800	127.020	132.820	139.200	145.000	149.060	151.960	152.540	151.960	150.800
<b>75</b>	82.940	88.160	94.540	100.920	106.140	110.200	113.100	114.260	114.260	113.100
<b>80</b>	51.040	56.840	63.220	69.600	75.400	80.040	82.940	84.680	85.260	84.680
<b>85</b>	26.680	32.480	39.440	45.820	51.040	55.680	59.160	60.900	62.060	62.060
<b>90</b>	11.020	16.820	22.620	28.420	33.640	38.280	41.180	43.500	45.240	45.820
<b>95</b>	19.987	24.557	30.241	36.610	43.871	50.924	56.886	61.880	65.372	67.576
<b>100</b>	45.211	49.207	55.239	62.054	71.149	81.217	90.318	98.907	105.583	110.339
<b>105</b>	75.406	79.796	86.350	95.549	107.932	120.971	134.032	145.545	155.017	161.692
<b>110</b>	106.424	112.445	121.069	132.536	148.086	165.039	182.050	197.130	209.061	218.121
<b>115</b>	137.344	143.886	155.614	169.882	189.103	209.786	230.098	248.640	263.123	274.514
<b>120</b>	166.686	174.905	188.459	205.355	227.638	252.329	275.813	297.557	314.331	327.451
<b>125</b>	193.790	203.319	217.860	238.461	263.424	290.162	316.407	339.967	359.554	374.964
<b>130</b>	218.851	229.523	245.299	267.392	293.207	321.082	348.580	374.999	396.778	414.520
<b>135</b>	242.457	253.448	269.683	290.325	315.943	345.297	373.590	399.823	422.913	442.093

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

<b>140</b>	264.700	275.517	290.980	310.642	335.147	363.045	389.348	415.425	438.010	457.771
<b>145</b>	285.511	295.429	309.743	327.172	349.003	372.586	396.407	419.671	441.473	460.561
<b>150</b>	304.784	313.560	325.595	340.518	358.510	378.056	398.547	418.795	437.929	455.573
<b>155</b>	322.410	329.336	338.894	350.343	364.246	379.198	394.899	411.139	427.083	441.716
<b>160</b>	337.554	342.560	349.148	357.170	366.896	377.516	388.095	399.568	410.628	421.399
<b>165</b>	349.757	352.797	356.880	361.671	367.453	373.729	380.097	386.976	393.658	400.026
<b>170</b>	358.608	359.873	361.914	364.002	366.798	369.495	372.534	375.596	378.711	381.553
<b>175</b>	363.759	364.002	364.391	364.878	365.412	366.119	366.844	367.627	368.329	369.037
<b>180</b>	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267	365.267

**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>	664.680	664.680	664.680	664.680	664.680	664.680	664.680
<b>5</b>	662.940	662.940	662.940	662.940	662.940	662.940	662.940
<b>10</b>	654.240	654.820	654.820	654.820	654.820	654.820	654.820
<b>15</b>	639.740	639.740	640.320	640.320	640.320	640.900	640.320
<b>20</b>	618.860	619.440	620.020	620.600	620.600	620.600	620.600
<b>25</b>	592.180	592.760	593.340	593.920	594.500	594.500	594.500
<b>30</b>	559.120	560.280	560.860	561.440	562.020	562.020	562.020
<b>35</b>	520.260	521.420	521.420	522.000	522.000	522.000	522.000
<b>40</b>	473.860	473.860	473.280	473.280	472.700	472.120	472.120
<b>45</b>	419.920	418.760	417.600	416.440	415.860	415.280	414.700
<b>50</b>	361.920	360.180	359.020	357.280	356.120	355.540	355.540
<b>55</b>	303.920	301.600	299.280	297.540	295.800	294.640	294.640
<b>60</b>	247.080	244.180	241.280	238.960	236.640	235.480	234.900
<b>65</b>	193.720	190.820	187.920	185.020	183.280	182.120	181.540
<b>70</b>	148.480	145.580	143.260	140.940	139.200	138.040	138.040
<b>75</b>	111.360	109.620	107.300	105.560	104.400	103.240	103.240
<b>80</b>	83.520	82.360	80.620	79.460	78.300	77.720	77.720
<b>85</b>	62.060	60.900	60.320	59.160	58.580	58.000	58.000
<b>90</b>	45.820	45.240	45.240	44.660	44.080	44.080	44.080
<b>95</b>	68.353	69.565	69.397	69.664	69.786	69.861	69.861
<b>100</b>	113.135	115.049	115.681	115.756	115.658	115.490	115.466
<b>105</b>	166.042	168.716	169.830	170.949	171.065	171.094	171.164
<b>110</b>	224.605	228.543	230.388	232.133	232.574	232.719	232.742
<b>115</b>	282.460	287.976	291.885	294.414	295.382	296.015	296.067
<b>120</b>	337.949	344.659	350.053	353.545	355.418	356.393	356.804
<b>125</b>	386.674	395.450	401.720	406.435	409.178	410.686	411.220
<b>130</b>	427.860	438.335	445.753	450.805	454.088	456.060	456.640
<b>135</b>	458.252	470.142	478.987	485.912	490.094	492.426	493.255
<b>140</b>	474.979	488.348	498.806	506.845	511.978	515.208	516.252
<b>145</b>	479.167	493.046	504.565	512.633	518.375	521.849	523.160
<b>150</b>	470.937	486.115	496.787	504.861	510.719	514.193	515.289
<b>155</b>	454.940	466.297	475.774	483.094	488.418	491.747	492.646
<b>160</b>	431.120	439.994	447.627	453.583	457.910	460.630	461.483
<b>165</b>	406.081	411.382	416.046	419.769	422.420	424.073	424.676
<b>170</b>	384.250	386.756	388.849	390.549	391.958	392.712	392.979
<b>175</b>	369.715	370.301	370.881	371.223	371.513	371.757	371.879
<b>180</b>	365.267	365.267	365.267	365.267	365.267	365.267	365.267

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_LO\_35\_G12.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	243.27	N.A.	7.20
0-30	514.54	N.A.	15.30
0-40	834.87	N.A.	24.90
0-60	1414.68	N.A.	42.10
0-80	1710.85	N.A.	50.90
0-90	1768.1	N.A.	52.60
10-90	1705.1	N.A.	50.80
20-40	591.59	N.A.	17.60
20-50	907.72	N.A.	27.00
40-70	765.31	N.A.	22.80
60-80	296.17	N.A.	8.80
70-80	110.68	N.A.	3.30
80-90	57.24	N.A.	1.70
90-110	202.10	N.A.	6.00
90-120	428.10	N.A.	12.70
90-130	710.04	N.A.	21.10
90-150	1257.75	N.A.	37.40
90-180	1591.35	N.A.	47.40
110-180	1389.25	N.A.	41.40
0-180	3359.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.00
10-20	180.28
20-30	271.27
30-40	320.32
40-50	316.13
50-60	263.69
60-70	185.49
70-80	110.68
80-90	57.24
90-100	61.72
100-110	140.38
110-120	226.00
120-130	281.94
130-140	291.87
140-150	255.83
150-160	188.37
160-170	109.89
170-180	35.34

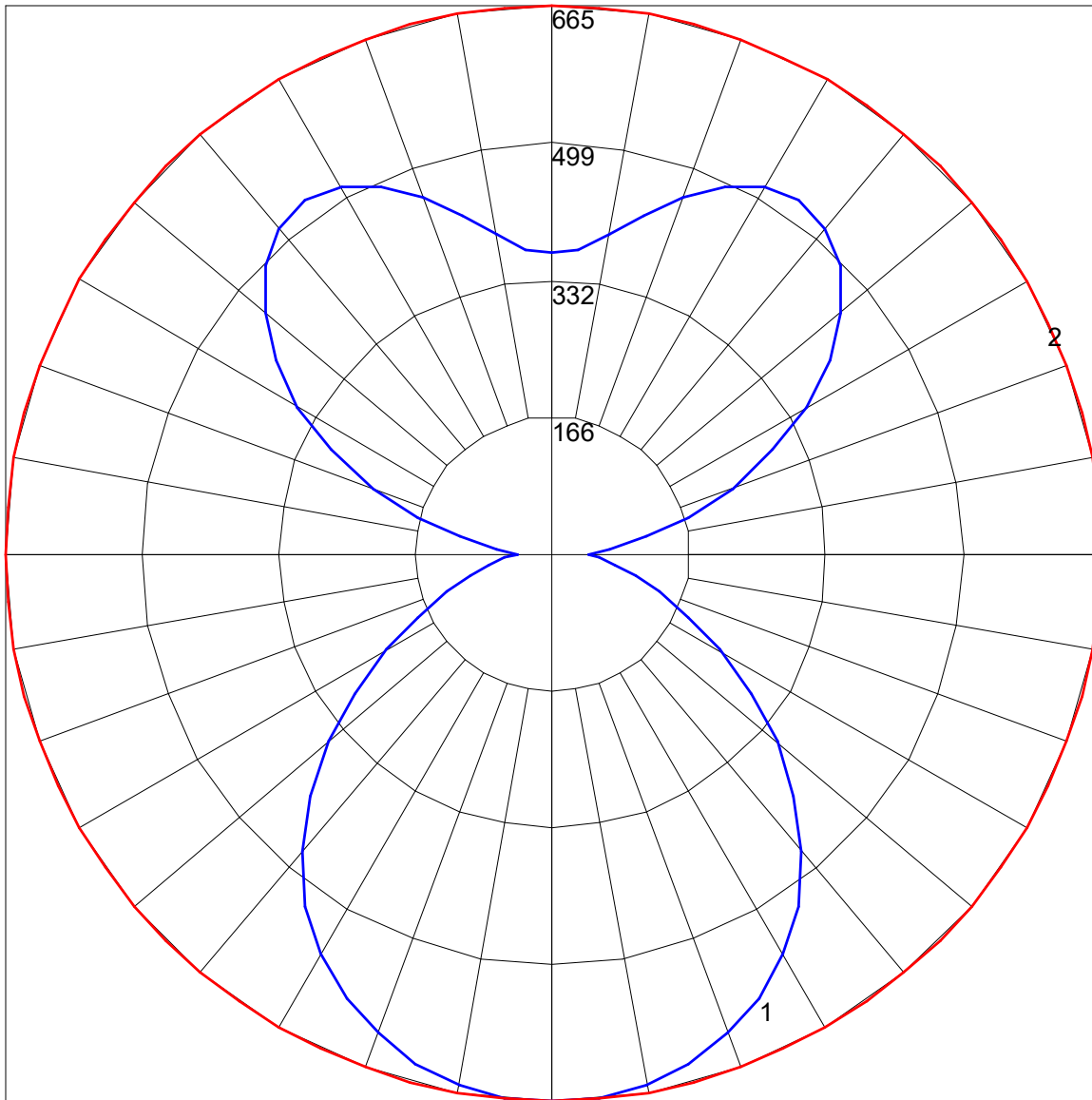
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_LO\_35\_G12.IES**

**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	71	71	71	59	59	59	53
1	98	94	90	86	91	87	83	80	74	72	69	62	60	59	51	50	49	44
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35	31
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	21
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 664.68 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)