

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 80 CRI | SO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	145	150	153	153
Total Lumens, 4' rail length (1219mm)	6919	7138	7284	7284
Lumens per foot (305mm)	1730	1784	1821	1821
Lumens per foot UP (305mm)	865	892	910	910
Lumens per foot DOWN (305mm)	865	892	910	910
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
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_SO_35_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911517 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-DR-48-Z-SO-35-22-AL
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, round diffuse lens up /
[MORE] round diffuse lens down, standard 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	7283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	47.84
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	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11846	15078	41941
55	7946	10538	35348
65	4919	6922	27913
75	3117	4413	19954
85	2384	3275	11796

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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	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36
5	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
10	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1308.48	1308.48	1308.48
15	1280.64	1281.80	1280.64	1280.64	1280.64	1280.64	1279.48	1279.48	1279.48	1278.32
20	1241.20	1241.20	1241.20	1241.20	1240.04	1238.88	1237.72	1237.72	1236.56	1235.40
25	1189.00	1189.00	1189.00	1187.84	1186.68	1185.52	1184.36	1183.20	1182.04	1179.72
30	1128.68	1128.68	1128.68	1127.52	1126.36	1125.20	1118.24	1115.92	1113.60	1111.28
35	1049.80	1049.80	1049.80	1049.80	1048.64	1047.48	1045.16	1038.20	1034.72	1031.24
40	951.20	951.20	952.36	953.52	952.36	953.52	953.52	951.20	948.88	945.40
45	837.52	838.68	839.84	841.00	842.16	844.48	846.80	846.80	845.64	842.16
50	720.36	720.36	721.52	723.84	727.32	729.64	731.96	733.12	733.12	730.80
55	602.04	602.04	604.36	607.84	610.16	614.80	618.28	619.44	619.44	617.12
60	487.20	488.36	490.68	495.32	498.80	503.44	509.24	511.56	512.72	511.56
65	386.28	387.44	389.76	393.24	397.88	402.52	407.16	411.80	412.96	411.80
70	306.24	306.24	308.56	312.04	315.52	320.16	324.80	327.12	327.12	325.96
75	245.92	245.92	248.24	250.56	252.88	257.52	259.84	262.16	262.16	258.68
80	206.48	206.48	207.64	209.96	212.28	215.76	216.92	218.08	216.92	212.28
85	183.28	183.28	184.44	185.60	187.92	190.24	191.40	191.40	189.08	183.28
90	176.32	176.32	176.32	178.64	180.96	180.96	183.28	183.28	180.96	174.00
95	183.28	183.28	184.44	185.60	187.92	190.24	191.40	191.40	189.08	183.28
100	206.48	206.48	207.64	209.96	212.28	215.76	216.92	218.08	216.92	212.28
105	245.92	245.92	248.24	250.56	252.88	257.52	259.84	262.16	262.16	258.68
110	306.24	306.24	308.56	312.04	315.52	320.16	324.80	327.12	327.12	325.96
115	386.28	387.44	389.76	393.24	397.88	402.52	407.16	411.80	412.96	411.80
120	487.20	488.36	490.68	495.32	498.80	503.44	509.24	511.56	512.72	511.56
125	602.04	602.04	604.36	607.84	610.16	614.80	618.28	619.44	619.44	617.12
130	720.36	720.36	721.52	723.84	727.32	729.64	731.96	733.12	733.12	730.80
135	837.52	838.68	839.84	841.00	842.16	844.48	846.80	846.80	845.64	842.16
140	951.20	951.20	952.36	953.52	952.36	953.52	953.52	951.20	948.88	945.40
145	1049.80	1049.80	1049.80	1049.80	1048.64	1047.48	1045.16	1038.20	1034.72	1031.24
150	1128.68	1128.68	1128.68	1127.52	1126.36	1125.20	1118.24	1115.92	1113.60	1111.28
155	1189.00	1189.00	1189.00	1187.84	1186.68	1185.52	1184.36	1183.20	1182.04	1179.72
160	1241.20	1241.20	1241.20	1241.20	1240.04	1238.88	1237.72	1237.72	1236.56	1235.40
165	1280.64	1281.80	1280.64	1280.64	1280.64	1279.48	1279.48	1279.48	1279.48	1278.32
170	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64	1308.48	1308.48	1308.48
175	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
180	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36

Vert. 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	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36
5	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1327.04	1325.88
10	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48
15	1277.16	1277.16	1276.00	1276.00	1274.84	1276.00	1274.84	1274.84	1276.00	1274.84
20	1234.24	1233.08	1230.76	1230.76	1229.60	1228.44	1228.44	1227.28	1228.44	1227.28
25	1177.40	1175.08	1172.76	1170.44	1169.28	1166.96	1166.96	1166.96	1166.96	1166.96
30	1107.80	1104.32	1100.84	1097.36	1095.04	1091.56	1090.40	1089.24	1089.24	1089.24
35	1027.76	1021.96	1017.32	1011.52	1006.88	1003.40	999.92	998.76	998.76	998.76
40	938.44	931.48	921.04	914.08	907.12	902.48	897.84	895.52	894.36	895.52
45	836.36	828.24	815.48	807.36	799.24	791.12	785.32	781.84	781.84	781.84
50	725.00	719.20	708.76	698.32	684.40	675.12	668.16	663.52	663.52	663.52
55	613.64	606.68	597.40	584.64	570.72	560.28	552.16	547.52	546.36	547.52
60	505.76	497.64	486.04	475.60	462.84	448.92	439.64	435.00	432.68	435.00

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CANDELA TABULATION - (Cont.)

65	407.16	397.88	387.44	373.52	360.76	345.68	336.40	330.60	329.44	330.60
70	321.32	312.04	300.44	285.36	270.28	256.36	243.60	237.80	235.48	237.80
75	252.88	242.44	229.68	213.44	196.04	179.80	167.04	158.92	155.44	158.92
80	204.16	193.72	177.48	158.92	140.36	120.64	104.40	95.12	91.64	95.12
85	175.16	162.40	145.00	125.28	103.24	80.04	60.32	46.40	41.76	46.40
90	164.72	153.12	134.56	113.68	90.48	67.28	44.08	23.20	9.28	23.20
95	175.16	162.40	145.00	125.28	103.24	80.04	60.32	46.40	41.76	46.40
100	204.16	193.72	177.48	158.92	140.36	120.64	104.40	95.12	91.64	95.12
105	252.88	242.44	229.68	213.44	196.04	179.80	167.04	158.92	155.44	158.92
110	321.32	312.04	300.44	285.36	270.28	256.36	243.60	237.80	235.48	237.80
115	407.16	397.88	387.44	373.52	360.76	345.68	336.40	330.60	329.44	330.60
120	505.76	497.64	486.04	475.60	462.84	448.92	439.64	435.00	432.68	435.00
125	613.64	606.68	597.40	584.64	570.72	560.28	552.16	547.52	546.36	547.52
130	725.00	719.20	708.76	698.32	684.40	675.12	668.16	663.52	663.52	663.52
135	836.36	828.24	815.48	807.36	799.24	791.12	785.32	781.84	781.84	781.84
140	938.44	931.48	921.04	914.08	907.12	902.48	897.84	895.52	894.36	895.52
145	1027.76	1021.96	1017.32	1011.52	1006.88	1003.40	999.92	998.76	998.76	998.76
150	1107.80	1104.32	1100.84	1097.36	1095.04	1091.56	1090.40	1089.24	1089.24	1089.24
155	1177.40	1175.08	1172.76	1170.44	1169.28	1166.96	1166.96	1166.96	1166.96	1166.96
160	1234.24	1233.08	1230.76	1230.76	1229.60	1228.44	1228.44	1227.28	1228.44	1227.28
165	1277.16	1277.16	1276.00	1276.00	1274.84	1276.00	1274.84	1274.84	1276.00	1274.84
170	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48
175	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1327.04	1325.88
180	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36
5	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
10	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48
15	1274.84	1276.00	1274.84	1276.00	1276.00	1277.16	1277.16	1278.32	1279.48	1279.48
20	1228.44	1228.44	1229.60	1230.76	1230.76	1233.08	1234.24	1235.40	1236.56	1237.72
25	1166.96	1166.96	1169.28	1170.44	1172.76	1175.08	1177.40	1179.72	1182.04	1183.20
30	1090.40	1091.56	1095.04	1097.36	1100.84	1104.32	1107.80	1111.28	1113.60	1115.92
35	999.92	1003.40	1006.88	1011.52	1017.32	1021.96	1027.76	1031.24	1034.72	1038.20
40	897.84	902.48	907.12	914.08	921.04	931.48	938.44	945.40	948.88	951.20
45	785.32	791.12	799.24	807.36	815.48	828.24	836.36	842.16	845.64	846.80
50	668.16	675.12	684.40	698.32	708.76	719.20	725.00	730.80	733.12	733.12
55	552.16	560.28	570.72	584.64	597.40	606.68	613.64	617.12	619.44	619.44
60	439.64	448.92	462.84	475.60	486.04	497.64	505.76	511.56	512.72	511.56
65	336.40	345.68	360.76	373.52	387.44	397.88	407.16	411.80	412.96	411.80
70	243.60	256.36	270.28	285.36	300.44	312.04	321.32	325.96	327.12	327.12
75	167.04	179.80	196.04	213.44	229.68	242.44	252.88	258.68	262.16	262.16
80	104.40	120.64	140.36	158.92	177.48	193.72	204.16	212.28	216.92	218.08
85	60.32	80.04	103.24	125.28	145.00	162.40	175.16	183.28	189.08	191.40
90	44.08	67.28	90.48	113.68	134.56	153.12	164.72	174.00	180.96	183.28
95	60.32	80.04	103.24	125.28	145.00	162.40	175.16	183.28	189.08	191.40
100	104.40	120.64	140.36	158.92	177.48	193.72	204.16	212.28	216.92	218.08
105	167.04	179.80	196.04	213.44	229.68	242.44	252.88	258.68	262.16	262.16
110	243.60	256.36	270.28	285.36	300.44	312.04	321.32	325.96	327.12	327.12
115	336.40	345.68	360.76	373.52	387.44	397.88	407.16	411.80	412.96	411.80
120	439.64	448.92	462.84	475.60	486.04	497.64	505.76	511.56	512.72	511.56
125	552.16	560.28	570.72	584.64	597.40	606.68	613.64	617.12	619.44	619.44
130	668.16	675.12	684.40	698.32	708.76	719.20	725.00	730.80	733.12	733.12
135	785.32	791.12	799.24	807.36	815.48	828.24	836.36	842.16	845.64	846.80

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CANDELA TABULATION - (Cont.)

140	897.84	902.48	907.12	914.08	921.04	931.48	938.44	945.40	948.88	951.20
145	999.92	1003.40	1006.88	1011.52	1017.32	1021.96	1027.76	1031.24	1034.72	1038.20
150	1090.40	1091.56	1095.04	1097.36	1100.84	1104.32	1107.80	1111.28	1113.60	1115.92
155	1166.96	1166.96	1169.28	1170.44	1172.76	1175.08	1177.40	1179.72	1182.04	1183.20
160	1228.44	1228.44	1229.60	1230.76	1230.76	1233.08	1234.24	1235.40	1236.56	1237.72
165	1274.84	1276.00	1274.84	1276.00	1276.00	1277.16	1277.16	1278.32	1279.48	1279.48
170	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48	1308.48
175	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
180	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36
5	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
10	1308.48	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
15	1279.48	1279.48	1280.64	1280.64	1280.64	1281.80	1280.64
20	1237.72	1238.88	1240.04	1241.20	1241.20	1241.20	1241.20
25	1184.36	1185.52	1186.68	1187.84	1189.00	1189.00	1189.00
30	1118.24	1125.20	1126.36	1127.52	1128.68	1128.68	1128.68
35	1045.16	1047.48	1048.64	1049.80	1049.80	1049.80	1049.80
40	953.52	953.52	952.36	953.52	952.36	951.20	951.20
45	846.80	844.48	842.16	841.00	839.84	838.68	837.52
50	731.96	729.64	727.32	723.84	721.52	720.36	720.36
55	618.28	614.80	610.16	607.84	604.36	602.04	602.04
60	509.24	503.44	498.80	495.32	490.68	488.36	487.20
65	407.16	402.52	397.88	393.24	389.76	387.44	386.28
70	324.80	320.16	315.52	312.04	308.56	306.24	306.24
75	259.84	257.52	252.88	250.56	248.24	245.92	245.92
80	216.92	215.76	212.28	209.96	207.64	206.48	206.48
85	191.40	190.24	187.92	185.60	184.44	183.28	183.28
90	183.28	180.96	180.96	178.64	176.32	176.32	176.32
95	191.40	190.24	187.92	185.60	184.44	183.28	183.28
100	216.92	215.76	212.28	209.96	207.64	206.48	206.48
105	259.84	257.52	252.88	250.56	248.24	245.92	245.92
110	324.80	320.16	315.52	312.04	308.56	306.24	306.24
115	407.16	402.52	397.88	393.24	389.76	387.44	386.28
120	509.24	503.44	498.80	495.32	490.68	488.36	487.20
125	618.28	614.80	610.16	607.84	604.36	602.04	602.04
130	731.96	729.64	727.32	723.84	721.52	720.36	720.36
135	846.80	844.48	842.16	841.00	839.84	838.68	837.52
140	953.52	953.52	952.36	953.52	952.36	951.20	951.20
145	1045.16	1047.48	1048.64	1049.80	1049.80	1049.80	1049.80
150	1118.24	1125.20	1126.36	1127.52	1128.68	1128.68	1128.68
155	1184.36	1185.52	1186.68	1187.84	1189.00	1189.00	1189.00
160	1237.72	1238.88	1240.04	1241.20	1241.20	1241.20	1241.20
165	1279.48	1279.48	1280.64	1280.64	1280.64	1281.80	1280.64
170	1308.48	1309.64	1309.64	1309.64	1309.64	1309.64	1309.64
175	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88	1325.88
180	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36	1329.36

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.55	N.A.	6.70
0-30	1029.26	N.A.	14.10
0-40	1671.32	N.A.	22.90
0-60	2840.65	N.A.	39.00
0-80	3472.66	N.A.	47.70
0-90	3641.62	N.A.	50.00
10-90	3515.62	N.A.	48.30
20-40	1184.77	N.A.	16.30
20-50	1820.33	N.A.	25.00
40-70	1553.34	N.A.	21.30
60-80	632.01	N.A.	8.70
70-80	248.01	N.A.	3.40
80-90	168.96	N.A.	2.30
90-110	416.97	N.A.	5.70
90-120	800.97	N.A.	11.00
90-130	1334.74	N.A.	18.30
90-150	2612.36	N.A.	35.90
90-180	3641.62	N.A.	50.00
110-180	3224.65	N.A.	44.30
0-180	7283.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.00
10-20	360.55
20-30	542.71
30-40	642.06
40-50	635.56
50-60	533.77
60-70	384.00
70-80	248.01
80-90	168.96
90-100	168.96
100-110	248.01
110-120	384.00
120-130	533.77
130-140	635.56
140-150	642.06
150-160	542.71
160-170	360.55
170-180	126.00

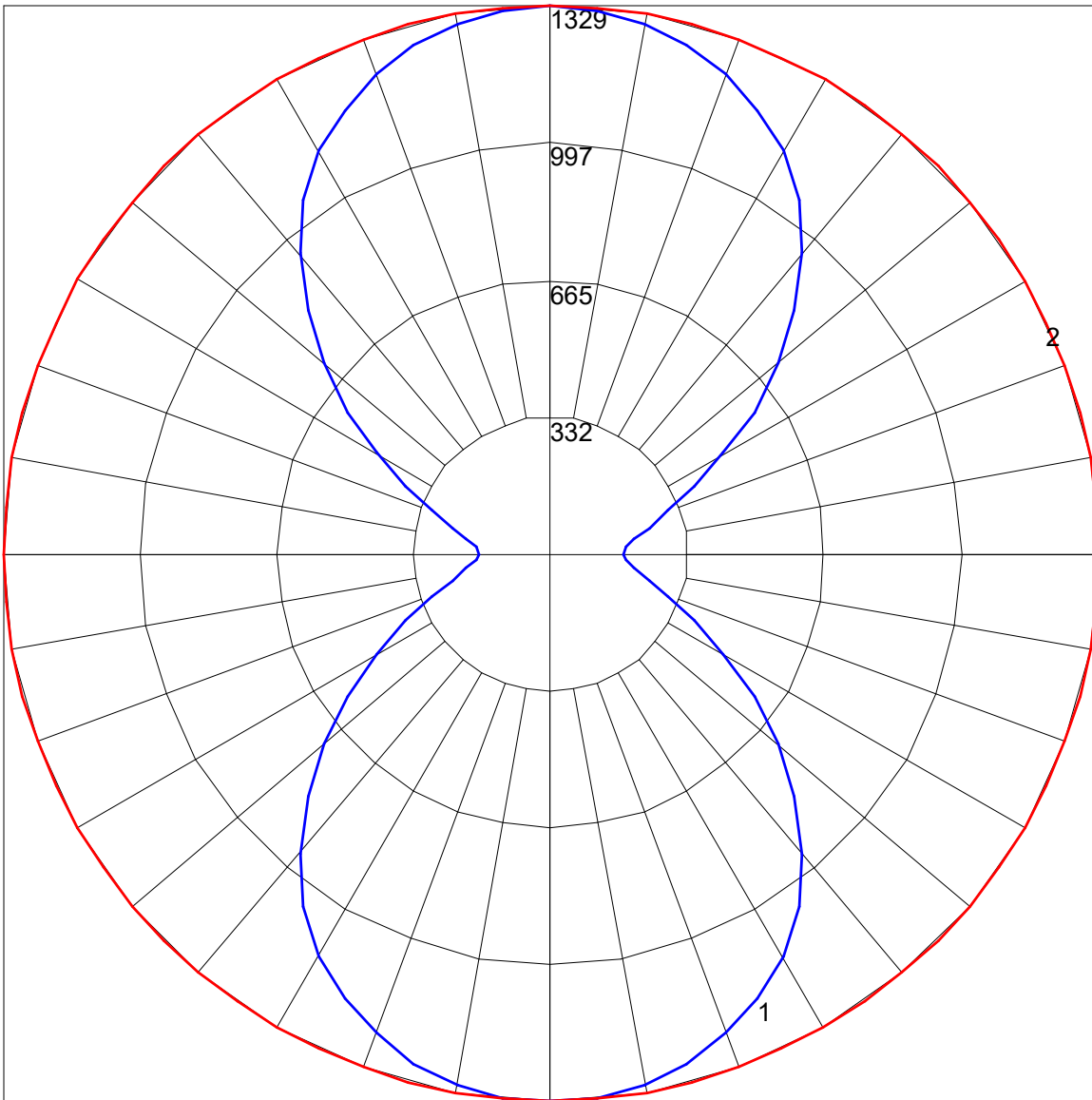
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_22.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	89	86	82	79	72	70	67	60	58	57	49	48	46	41
2	88	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 1329.36 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.)