

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	115	118	121	123
Total Lumens, 4' rail length (1219mm)	5506	5680	5796	5912
Lumens per foot (305mm)	1376	1420	1449	1478
Lumens per foot UP (305mm)	649	670	685	697
Lumens per foot DOWN (305mm)	727	750	766	781
Input Power (W), 4' rail length (1219mm)	48.3	48.3	48.3	48.3
Watts per foot (305mm)	12.1	12.1	12.1	12.1
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_107_DR_SO_35_G12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800112 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DR-48-Z-SO-35-G12
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up/round diffuse lens down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	48.16
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)	0.06 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13001	15879	41417
55	8707	11148	32971
65	5440	7151	27129
75	3203	4288	20244
85	1649	2138	12526

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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	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84
5	1183.20	1183.20	1182.04	1182.04	1182.04	1180.88	1180.88	1180.88	1179.72	1179.72
10	1169.28	1168.12	1166.96	1166.96	1165.80	1165.80	1165.80	1164.64	1162.32	1162.32
15	1143.76	1141.44	1141.44	1140.28	1140.28	1137.96	1135.64	1134.48	1134.48	1133.32
20	1106.64	1104.32	1104.32	1104.32	1100.84	1098.52	1097.36	1093.88	1092.72	1090.40
25	1057.92	1056.76	1056.76	1053.28	1052.12	1049.80	1046.32	1045.16	1039.36	1034.72
30	997.60	995.28	994.12	991.80	989.48	987.16	984.84	980.20	976.72	969.76
35	922.20	921.04	919.88	918.72	915.24	912.92	910.60	904.80	900.16	893.20
40	837.52	836.36	835.20	832.88	831.72	830.56	824.76	821.28	815.48	808.52
45	741.24	741.24	741.24	740.08	738.92	737.76	733.12	730.80	722.68	716.88
50	636.84	635.68	636.84	636.84	638.00	638.00	636.84	633.36	627.56	620.60
55	530.12	530.12	532.44	533.60	534.76	533.60	534.76	532.44	530.12	525.48
60	430.36	430.36	431.52	429.20	425.72	426.88	429.20	431.52	429.20	425.72
65	342.20	343.36	336.40	331.76	332.92	335.24	338.72	341.04	342.20	341.04
70	265.64	262.16	252.88	255.20	259.84	262.16	264.48	265.64	265.64	265.64
75	201.84	190.24	192.56	194.88	196.04	197.20	199.52	200.68	201.84	200.68
80	145.00	138.04	140.36	142.68	142.68	143.84	143.84	145.00	145.00	145.00
85	100.92	103.24	104.40	104.40	104.40	102.08	100.92	98.60	96.28	95.12
90	74.24	76.56	76.56	77.72	74.24	71.92	68.44	66.12	64.96	62.64
95	71.92	91.64	87.00	89.32	89.32	90.48	89.32	91.64	90.48	88.16
100	179.80	174.00	177.48	177.48	177.48	175.16	171.68	168.20	161.24	153.12
105	287.68	266.80	270.28	270.28	269.12	265.64	259.84	254.04	245.92	233.16
110	392.08	383.96	367.72	364.24	366.56	365.40	359.60	348.00	344.52	325.96
115	504.60	503.44	489.52	477.92	473.28	469.80	465.16	455.88	444.28	423.40
120	619.44	618.28	615.96	605.52	595.08	585.80	577.68	569.56	547.52	517.36
125	729.64	727.32	726.16	721.52	715.72	701.80	692.52	668.16	641.48	605.52
130	823.60	822.44	817.80	810.84	803.88	791.12	773.72	748.20	712.24	667.00
135	896.68	895.52	888.56	880.44	868.84	854.92	828.24	802.72	759.80	714.56
140	940.76	937.28	930.32	919.88	905.96	888.56	860.72	827.08	787.64	737.76
145	958.16	954.68	947.72	936.12	918.72	899.00	873.48	835.20	794.60	747.04
150	948.88	945.40	938.44	923.36	905.96	883.92	857.24	822.44	783.00	738.92
155	905.96	902.48	895.52	881.60	864.20	843.32	816.64	789.96	755.16	719.20
160	832.88	830.56	823.60	814.32	799.24	781.84	762.12	738.92	713.40	690.20
165	747.04	744.72	740.08	734.28	727.32	715.72	702.96	689.04	675.12	657.72
170	670.48	669.32	668.16	664.68	662.36	657.72	654.24	647.28	640.32	633.36
175	622.92	622.92	622.92	621.76	620.60	620.60	619.44	618.28	617.12	615.96
180	607.84	607.84	607.84	607.84	607.84	607.84	607.84	607.84	607.84	607.84

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>
0	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84	1187.84
5	1179.72	1179.72	1179.72	1179.72	1179.72	1180.88	1180.88	1180.88	1182.04
10	1161.16	1161.16	1161.16	1160.00	1158.84	1158.84	1158.84	1158.84	1160.00
15	1131.00	1128.68	1126.36	1126.36	1126.36	1124.04	1122.88	1122.88	1124.04
20	1086.92	1083.44	1082.28	1078.80	1076.48	1076.48	1074.16	1071.84	1073.00
25	1031.24	1026.60	1021.96	1018.48	1015.00	1012.68	1010.36	1008.04	1009.20
30	963.96	958.16	952.36	946.56	941.92	937.28	936.12	931.48	931.48
35	886.24	880.44	871.16	863.04	856.08	851.44	846.80	844.48	843.32
40	800.40	791.12	780.68	772.56	763.28	755.16	749.36	747.04	748.20
45	705.28	694.84	684.40	673.96	664.68	655.40	648.44	644.96	643.80
50	611.32	599.72	586.96	575.36	566.08	554.48	546.36	541.72	542.88
55	516.20	504.60	489.52	473.28	459.36	446.60	433.84	423.40	423.40
60	422.24	407.16	395.56	382.80	372.36	363.08	354.96	350.32	349.16

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_G12.IES

CANDELA TABULATION - (Cont.)

65	337.56	329.44	317.84	305.08	292.32	280.72	272.60	266.80	264.48
70	261.00	255.20	244.76	233.16	220.40	208.80	200.68	193.72	191.40
75	197.20	192.56	183.28	171.68	157.76	146.16	136.88	131.08	128.76
80	142.68	136.88	129.92	119.48	107.88	96.28	88.16	84.68	84.68
85	90.48	85.84	80.04	76.56	64.96	54.52	46.40	38.28	34.80
90	59.16	52.20	45.24	38.28	31.32	23.20	15.08	9.28	4.64
95	82.36	75.40	62.64	53.36	44.08	34.80	29.00	26.68	24.36
100	142.68	125.28	110.20	97.44	89.32	81.20	82.36	77.72	71.92
105	214.60	192.56	169.36	149.64	135.72	127.60	124.12	121.80	119.48
110	300.44	270.28	240.12	213.44	196.04	185.60	179.80	176.32	175.16
115	394.40	354.96	312.04	278.40	255.20	240.12	233.16	228.52	227.36
120	479.08	426.88	378.16	341.04	313.20	294.64	284.20	279.56	279.56
125	553.32	496.48	440.80	392.08	363.08	343.36	330.60	324.80	323.64
130	615.96	553.32	494.16	443.12	408.32	386.28	372.36	365.40	364.24
135	654.24	595.08	535.92	489.52	452.40	425.72	407.16	396.72	394.40
140	683.24	625.24	570.72	524.32	489.52	461.68	446.60	438.48	436.16
145	694.84	644.96	595.08	553.32	520.84	496.48	480.24	473.28	468.64
150	694.84	650.76	609.00	576.52	546.36	527.80	510.40	504.60	499.96
155	684.40	649.60	618.28	589.28	569.56	552.16	539.40	533.60	528.96
160	667.00	641.48	617.12	600.88	585.80	570.72	564.92	560.28	556.80
165	642.64	631.04	618.28	606.68	595.08	590.44	585.80	581.16	577.68
170	626.40	619.44	611.32	607.84	605.52	602.04	599.72	597.40	593.92
175	614.80	613.64	612.48	611.32	610.16	609.00	607.84	606.68	605.52
180	607.84	607.84	607.84	607.84	607.84	607.84	607.84	607.84	607.84

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	431.40	N.A.	7.40
0-30	907.29	N.A.	15.70
0-40	1461.86	N.A.	25.20
0-60	2454.11	N.A.	42.30
0-80	2966.92	N.A.	51.20
0-90	3062.14	N.A.	52.80
10-90	2949.98	N.A.	50.90
20-40	1030.46	N.A.	17.80
20-50	1573.07	N.A.	27.10
40-70	1311.2	N.A.	22.60
60-80	512.81	N.A.	8.80
70-80	193.86	N.A.	3.30
80-90	95.21	N.A.	1.60
90-110	314.19	N.A.	5.40
90-120	692.16	N.A.	11.90
90-130	1184.59	N.A.	20.40
90-150	2154.88	N.A.	37.20
90-180	2733.61	N.A.	47.20
110-180	2419.43	N.A.	41.70
0-180	5795.75	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.16
10-20	319.24
20-30	475.89
30-40	554.57
40-50	542.60
50-60	449.65
60-70	318.95
70-80	193.86
80-90	95.21
90-100	90.04
100-110	224.14
110-120	377.97
120-130	492.43
130-140	516.60
140-150	453.69
150-160	331.13
160-170	188.31
170-180	59.30

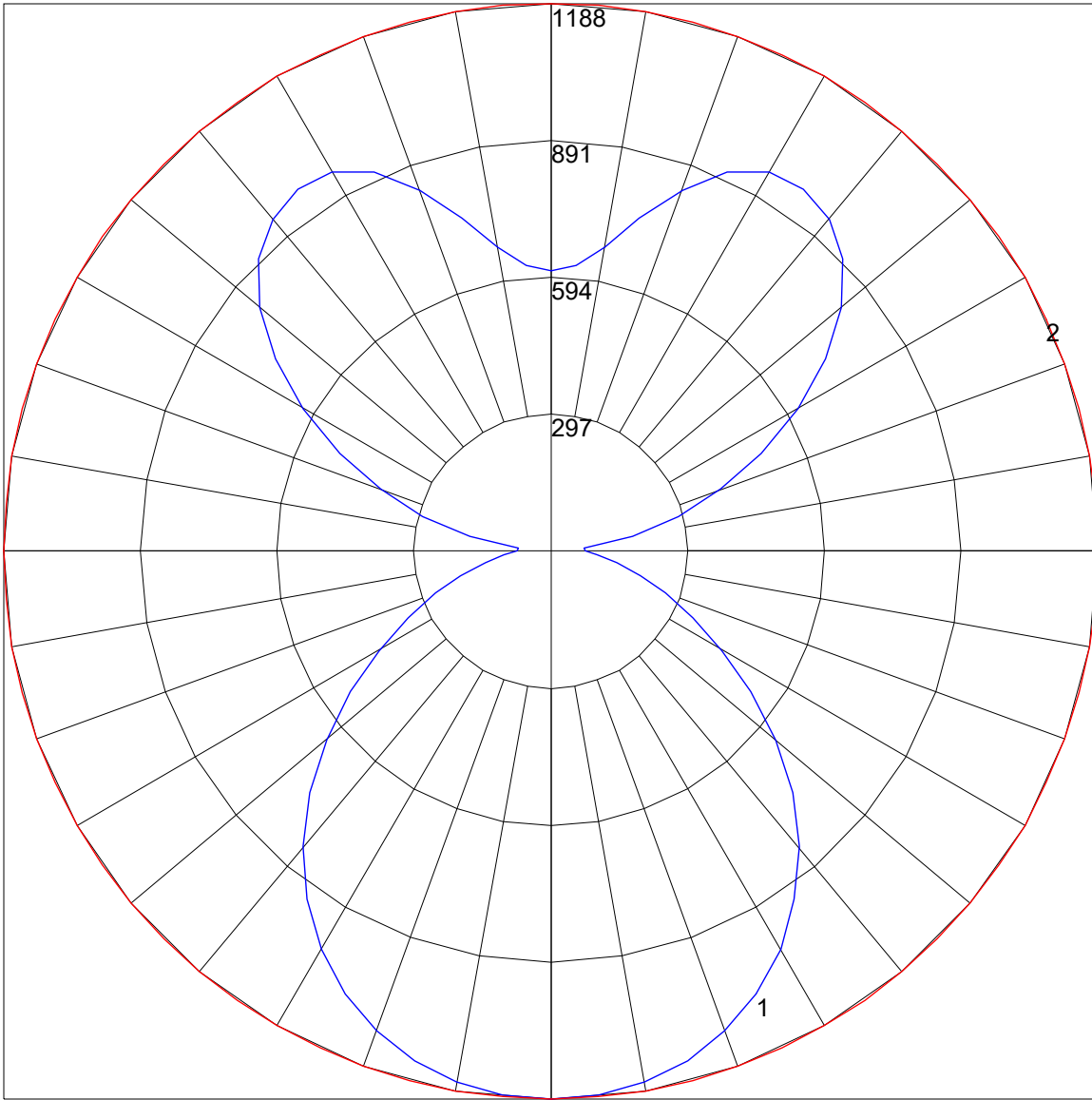
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	80	74	72	69	62	61	59	52	50	49	44
2	89	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42	37
3	82	72	65	59	75	67	61	55	57	53	48	49	45	42	40	38	35	31
4	75	64	56	50	69	60	52	47	51	46	41	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	27	34	29	25	29	25	22	25	21	19	17
9	51	38	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 1187.84 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)