

**IES Report**

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

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	111	113	116
Total Lumens, 4' rail length (1219mm)	5178	5342	5451	5560
Lumens per foot (305mm)	1294	1335	1363	1390
Lumens per foot UP (305mm)	645	665	678	692
Lumens per foot DOWN (305mm)	650	672	684	698
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\_G1G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800111 (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-G1G2  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up/120° flywing 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	5451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	48.17
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	14716	16400	31287
55	10388	12017	28841
65	5327	6902	26686
75	1660	2676	20611
85	87	237	7144

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>	932.791	932.791	932.791	932.791	932.791	932.791	932.791	932.791	932.791	932.791
<b>5</b>	940.980	940.261	939.542	938.614	937.721	936.793	935.830	934.832	933.812	932.779
<b>10</b>	961.396	959.970	958.079	955.979	953.601	950.956	948.033	942.546	937.048	931.515
<b>15</b>	982.590	980.652	978.008	974.980	970.850	963.554	955.805	947.650	939.124	928.441
<b>20</b>	994.630	992.357	989.608	985.629	978.066	970.166	961.176	948.950	936.491	921.922
<b>25</b>	994.340	991.986	989.619	983.054	975.734	966.152	954.738	943.312	924.636	904.951
<b>30</b>	980.374	977.810	974.725	968.600	960.666	950.504	938.765	922.780	903.628	881.124
<b>35</b>	951.571	949.344	945.365	940.122	931.480	921.597	909.776	890.752	871.241	846.336
<b>40</b>	905.438	903.408	899.302	893.397	886.333	877.865	863.144	846.371	826.361	799.217
<b>45</b>	839.063	837.717	834.365	828.959	822.684	815.422	800.713	787.884	763.999	740.405
<b>50</b>	748.815	747.214	744.349	740.498	737.006	730.487	719.676	706.220	685.804	659.240
<b>55</b>	632.455	630.564	628.906	628.140	627.038	618.593	615.763	600.799	586.937	566.428
<b>60</b>	487.490	486.458	485.715	480.692	475.786	473.071	471.981	470.635	458.757	447.238
<b>65</b>	335.112	335.971	328.500	322.770	324.417	327.271	333.349	331.145	331.551	329.150
<b>70</b>	201.214	198.836	193.616	194.660	201.330	206.921	210.633	213.243	214.844	215.563
<b>75</b>	104.609	97.568	100.015	103.507	105.931	109.968	113.750	117.230	122.635	125.222
<b>80</b>	27.840	30.659	31.459	32.642	34.533	36.853	39.231	44.103	47.711	55.100
<b>85</b>	5.301	6.044	6.102	6.136	6.206	6.438	6.287	6.612	8.306	10.533
<b>90</b>	2.111	2.169	2.123	2.076	2.076	2.123	2.262	2.123	2.123	2.216
<b>95</b>	26.970	35.624	31.459	33.338	36.134	39.684	41.598	48.755	47.270	45.530
<b>100</b>	139.768	130.349	132.971	134.537	133.748	133.203	133.446	131.498	128.087	122.902
<b>105</b>	247.648	232.499	234.587	236.153	233.821	232.812	231.060	227.000	223.984	214.182
<b>110</b>	360.342	354.774	343.024	341.782	345.529	346.063	345.854	337.177	332.537	318.223
<b>115</b>	487.293	487.119	476.656	468.942	465.856	464.139	461.239	453.630	444.036	429.235
<b>120</b>	622.433	621.041	617.955	610.114	603.409	594.825	586.728	578.237	556.614	526.188
<b>125</b>	740.718	738.758	735.637	732.691	728.144	715.732	706.185	681.465	654.634	616.888
<b>130</b>	838.773	836.731	832.091	826.129	819.122	806.884	788.649	762.862	726.810	680.050
<b>135</b>	913.048	911.192	904.951	896.042	884.488	870.789	844.468	817.127	773.987	728.584
<b>140</b>	957.058	954.286	947.036	936.352	922.606	905.067	877.482	844.097	804.564	752.596
<b>145</b>	974.876	971.593	964.134	952.870	935.992	915.495	890.207	851.498	810.515	762.074
<b>150</b>	966.408	962.754	955.388	941.386	923.209	900.508	873.956	839.132	798.532	753.872
<b>155</b>	924.404	920.402	913.384	899.139	881.426	859.038	832.752	804.576	769.846	733.758
<b>160</b>	849.955	847.102	840.176	830.467	815.364	798.022	778.047	754.139	728.921	705.408
<b>165</b>	762.004	760.276	755.833	750.172	742.365	730.951	718.249	704.398	689.516	672.672
<b>170</b>	686.012	685.084	682.973	680.386	677.127	673.218	668.670	662.244	655.470	648.347
<b>175</b>	638.046	637.698	637.362	636.515	635.808	634.996	634.091	633.116	632.061	630.936
<b>180</b>	622.920	622.920	622.920	622.920	622.920	622.920	622.920	622.920	622.920	622.920

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>
<b>0</b>	932.791	932.791	932.791	932.791	932.791	932.791	932.791	932.791	932.791
<b>5</b>	931.735	930.691	929.659	928.638	927.652	926.701	925.703	924.903	924.114
<b>10</b>	925.970	920.472	915.124	911.830	908.837	906.146	903.768	901.633	900.044
<b>15</b>	917.479	907.097	896.947	887.145	877.575	872.378	867.958	864.119	861.509
<b>20</b>	905.392	887.829	870.882	855.384	840.571	826.361	818.809	812.209	807.766
<b>25</b>	885.242	862.390	838.251	814.842	794.484	776.214	762.364	754.151	748.908
<b>30</b>	855.778	828.217	799.112	769.289	741.426	719.154	699.178	690.072	684.760
<b>35</b>	817.406	787.559	751.924	717.506	684.678	657.360	635.332	623.268	616.366
<b>40</b>	768.894	733.665	696.220	657.685	622.920	592.853	570.592	556.429	549.040
<b>45</b>	705.106	670.364	631.690	592.748	558.180	528.937	507.338	493.070	486.330
<b>50</b>	629.497	595.184	557.809	522.557	490.645	463.652	444.071	432.146	427.773
<b>55</b>	536.744	505.772	472.920	443.804	418.725	399.701	385.700	375.666	370.365
<b>60</b>	431.033	403.088	380.445	363.010	347.919	335.136	325.125	318.084	316.320

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	320.659	308.479	296.496	284.977	275.802	268.691	262.694	259.156	260.165
<b>70</b>	214.159	213.684	211.050	206.584	203.615	201.770	199.265	197.664	197.652
<b>75</b>	129.062	132.472	134.189	133.562	133.238	133.017	132.646	131.962	131.092
<b>80</b>	61.619	64.044	67.106	68.162	69.496	78.068	80.017	79.008	79.947
<b>85</b>	11.820	13.839	15.370	16.576	19.105	21.251	20.022	19.697	19.848
<b>90</b>	2.169	2.123	2.076	2.076	1.926	1.879	2.018	2.018	1.833
<b>95</b>	44.289	39.846	36.064	31.076	27.794	26.494	25.381	26.042	26.204
<b>100</b>	115.629	105.595	97.185	84.564	79.785	83.474	81.873	80.898	81.966
<b>105</b>	200.332	182.375	162.945	146.763	135.558	129.038	127.194	124.340	123.099
<b>110</b>	295.754	269.480	240.236	214.855	198.395	187.897	182.538	179.626	179.162
<b>115</b>	398.564	357.918	316.924	282.588	258.912	244.528	236.489	233.009	231.756
<b>120</b>	485.959	433.144	383.798	345.297	316.970	299.396	289.861	284.397	284.339
<b>125</b>	562.774	505.667	447.876	399.713	367.836	348.162	336.528	330.438	329.521
<b>130</b>	625.507	562.496	503.243	451.750	413.122	392.254	379.517	372.894	371.803
<b>135</b>	666.559	605.485	545.977	497.048	458.490	433.156	419.178	411.290	408.216
<b>140</b>	696.603	636.248	581.056	532.788	497.733	470.960	456.008	447.366	443.665
<b>145</b>	708.157	656.166	606.900	564.259	531.176	506.920	490.378	482.606	478.628
<b>150</b>	708.586	664.158	622.259	588.375	557.403	538.565	521.478	515.643	511.664
<b>155</b>	697.148	662.859	631.910	602.052	581.821	564.305	551.684	545.966	541.720
<b>160</b>	680.955	655.655	631.539	615.125	599.384	584.072	578.086	572.750	568.400
<b>165</b>	657.337	645.006	632.687	620.438	608.072	603.212	598.896	594.825	591.322
<b>170</b>	640.935	633.279	625.623	622.456	619.428	616.494	613.675	610.960	608.466
<b>175</b>	629.764	628.546	627.282	625.994	624.695	623.372	622.015	620.728	619.452
<b>180</b>	622.920	622.920	622.920	622.920	622.920	622.920	622.920	622.920	622.920

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	350.44	N.A.	6.40
0-30	760.02	N.A.	13.90
0-40	1269.21	N.A.	23.30
0-60	2276.79	N.A.	41.80
0-80	2715.6	N.A.	49.80
0-90	2737.32	N.A.	50.20
10-90	2648.34	N.A.	48.60
20-40	918.77	N.A.	16.90
20-50	1456.26	N.A.	26.70
40-70	1314.36	N.A.	24.10
60-80	438.81	N.A.	8.10
70-80	132.04	N.A.	2.40
80-90	21.72	N.A.	0.40
90-110	256.38	N.A.	4.70
90-120	632.73	N.A.	11.60
90-130	1133.34	N.A.	20.80
90-150	2122.12	N.A.	38.90
90-180	2713.19	N.A.	49.80
110-180	2456.81	N.A.	45.10
0-180	5450.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.98
10-20	261.46
20-30	409.58
30-40	509.19
40-50	537.49
50-60	470.09
60-70	306.77
70-80	132.04
80-90	21.72
90-100	50.56
100-110	205.82
110-120	376.35
120-130	500.61
130-140	526.39
140-150	462.38
150-160	337.91
160-170	192.46
170-180	60.71

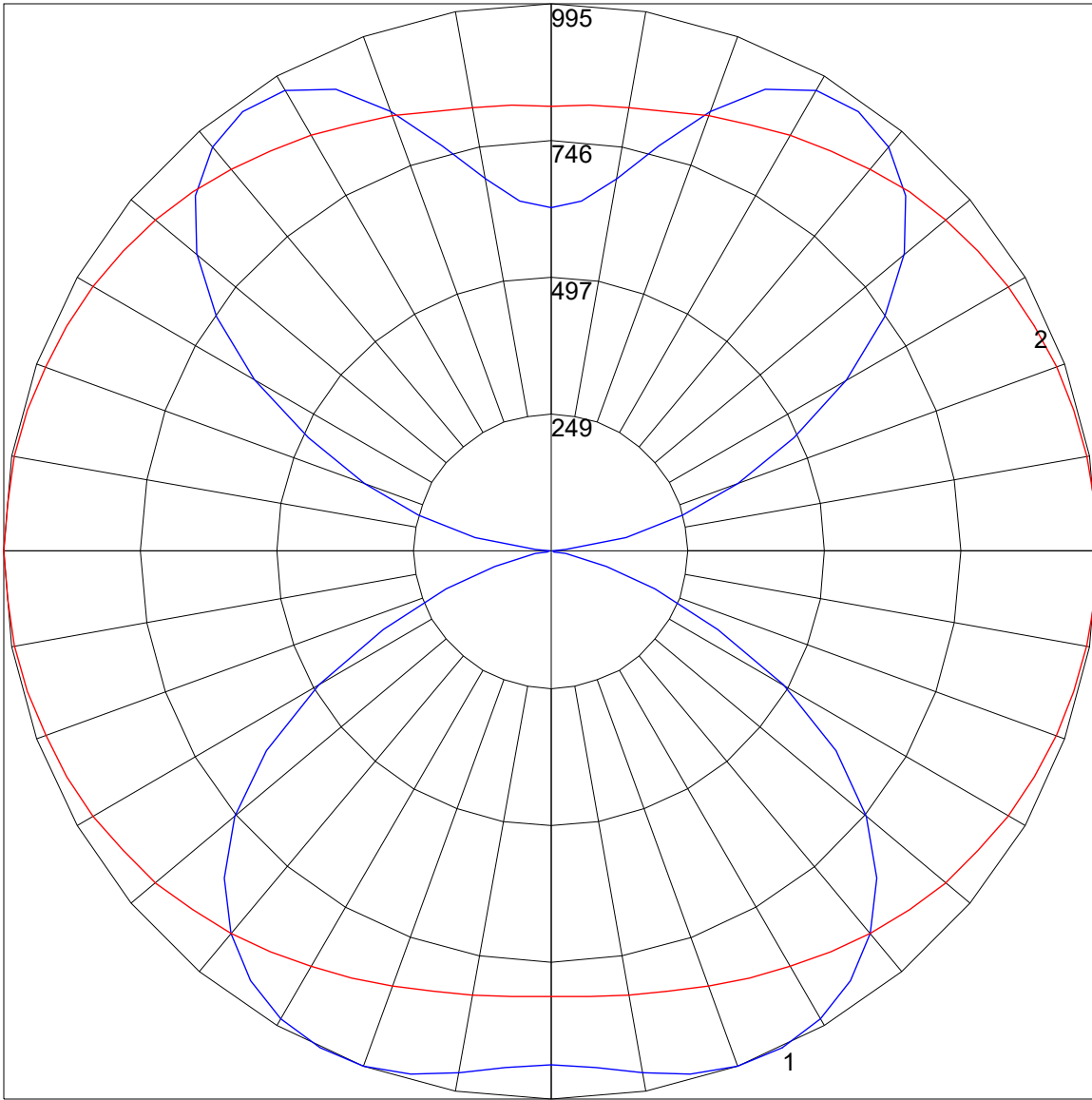
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 994.63 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)