

**IES Report**

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	104	106	108
Total Lumens, 4' rail length (1219mm)	9838	10149	10356	10563
Lumens per foot (305mm)	2460	2537	2589	2641
Lumens per foot UP (305mm)	1224	1263	1289	1315
Lumens per foot DOWN (305mm)	1235	1274	1300	1326
Input Power (W), 4' rail length (1219mm)	98.4	98.4	98.4	98.4
Watts per foot (305mm)	24.7	24.7	24.7	24.7
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\_HO\_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-HO-35-G1G2  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up/120° flywing lens down, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10356
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	98.44
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	27961	31160	59445
55	19737	22833	54797
65	10122	13113	50703
75	3154	5084	39161
85	165	450	13574

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>	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303
<b>5</b>	1787.863	1786.496	1785.130	1783.367	1781.670	1779.906	1778.077	1776.182	1774.242	1772.280
<b>10</b>	1826.653	1823.942	1820.350	1816.360	1811.842	1806.817	1801.263	1790.838	1780.391	1769.878
<b>15</b>	1866.920	1863.240	1858.214	1852.462	1844.616	1830.753	1816.030	1800.536	1784.336	1764.038
<b>20</b>	1889.798	1885.478	1880.254	1872.695	1858.325	1843.315	1826.234	1803.004	1779.333	1751.651
<b>25</b>	1889.247	1884.773	1880.276	1867.802	1853.895	1835.690	1814.002	1792.293	1756.808	1719.407
<b>30</b>	1862.711	1857.840	1851.977	1840.340	1825.265	1805.958	1783.653	1753.282	1716.894	1674.136
<b>35</b>	1807.985	1803.754	1796.194	1786.232	1769.812	1751.034	1728.575	1692.430	1655.358	1608.038
<b>40</b>	1720.332	1716.475	1708.673	1697.455	1684.032	1667.943	1639.974	1608.105	1570.086	1518.512
<b>45</b>	1594.219	1591.663	1585.293	1575.022	1563.099	1549.302	1521.355	1496.979	1451.598	1406.769
<b>50</b>	1422.748	1419.707	1414.263	1406.945	1400.311	1387.925	1367.384	1341.817	1303.027	1252.555
<b>55</b>	1201.665	1198.072	1194.921	1193.466	1191.372	1175.327	1169.949	1141.518	1115.180	1076.213
<b>60</b>	926.231	924.269	922.859	913.316	903.993	898.835	896.764	894.207	871.638	849.752
<b>65</b>	636.714	638.345	624.151	613.263	616.393	621.815	633.363	629.176	629.947	625.385
<b>70</b>	382.306	377.788	367.870	369.853	382.526	393.150	400.202	405.161	408.203	409.569
<b>75</b>	198.757	185.378	190.029	196.663	201.269	208.939	216.124	222.736	233.007	237.922
<b>80</b>	52.896	58.252	59.772	62.021	65.613	70.021	74.539	83.796	90.651	104.690
<b>85</b>	10.072	11.483	11.593	11.659	11.791	12.232	11.946	12.563	15.781	20.012
<b>90</b>	4.011	4.121	4.033	3.945	3.945	4.033	4.298	4.033	4.033	4.210
<b>95</b>	51.243	67.685	59.772	63.343	68.655	75.399	79.035	92.634	89.813	86.507
<b>100</b>	265.560	247.663	252.645	255.620	254.121	253.085	253.548	249.845	243.366	233.514
<b>105</b>	470.532	441.748	445.715	448.690	444.260	442.343	439.015	431.301	425.570	406.947
<b>110</b>	684.651	674.071	651.745	649.387	656.505	657.519	657.123	640.637	631.821	604.623
<b>115</b>	925.856	925.526	905.646	890.989	885.126	881.864	876.354	861.896	843.669	815.546
<b>120</b>	1182.622	1179.978	1174.115	1159.216	1146.477	1130.167	1114.783	1098.650	1057.567	999.756
<b>125</b>	1407.364	1403.639	1397.711	1392.113	1383.473	1359.890	1341.751	1294.784	1243.805	1172.087
<b>130</b>	1593.668	1589.789	1580.973	1569.645	1556.333	1533.080	1498.433	1449.439	1380.938	1292.095
<b>135</b>	1734.790	1731.264	1719.407	1702.480	1680.528	1654.499	1604.490	1552.542	1470.575	1384.310
<b>140</b>	1818.410	1813.143	1799.368	1779.069	1752.951	1719.627	1667.216	1603.785	1528.672	1429.933
<b>145</b>	1852.264	1846.026	1831.855	1810.454	1778.386	1739.441	1691.394	1617.846	1539.979	1447.940
<b>150</b>	1836.174	1829.232	1815.236	1788.634	1754.097	1710.965	1660.516	1594.352	1517.212	1432.358
<b>155</b>	1756.368	1748.764	1735.430	1708.364	1674.709	1632.172	1582.230	1528.694	1462.707	1394.140
<b>160</b>	1614.915	1609.493	1596.335	1577.888	1549.192	1516.242	1478.289	1432.864	1384.950	1340.274
<b>165</b>	1447.808	1444.524	1436.082	1425.327	1410.494	1388.807	1364.673	1338.357	1310.080	1278.078
<b>170</b>	1303.424	1301.660	1297.649	1292.734	1286.541	1279.113	1270.474	1258.264	1245.392	1231.860
<b>175</b>	1212.288	1211.627	1210.988	1209.379	1208.034	1206.492	1204.773	1202.921	1200.916	1198.778
<b>180</b>	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548

Vert. Horizontal Angles  
 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>	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303	1772.303
<b>5</b>	1770.297	1768.313	1766.352	1764.412	1762.539	1760.732	1758.836	1757.315	1755.817
<b>10</b>	1759.343	1748.896	1738.736	1732.476	1726.790	1721.677	1717.158	1713.103	1710.084
<b>15</b>	1743.210	1723.484	1704.199	1685.575	1667.392	1657.518	1649.121	1641.826	1636.867
<b>20</b>	1720.244	1686.875	1654.675	1625.230	1597.085	1570.086	1555.737	1543.197	1534.755
<b>25</b>	1681.961	1638.542	1592.677	1548.200	1509.520	1474.807	1448.491	1432.887	1422.924
<b>30</b>	1625.979	1573.612	1518.314	1461.649	1408.709	1366.392	1328.439	1311.138	1301.043
<b>35</b>	1553.071	1496.362	1428.655	1363.262	1300.889	1248.985	1207.131	1184.209	1171.095
<b>40</b>	1460.899	1393.964	1322.819	1249.602	1183.548	1126.420	1084.126	1057.215	1043.175
<b>45</b>	1339.701	1273.692	1200.210	1126.222	1060.543	1004.980	963.941	936.832	924.027
<b>50</b>	1196.045	1130.850	1059.837	992.858	932.226	880.939	843.735	821.078	812.769
<b>55</b>	1019.813	960.966	898.549	843.228	795.578	759.432	732.830	713.765	703.693
<b>60</b>	818.962	765.868	722.846	689.720	661.046	636.758	617.737	604.359	601.009

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CANDELA TABULATION - (Cont.)

65	609.252	586.110	563.342	541.457	524.023	510.513	499.118	492.396	494.313
70	406.902	405.999	400.996	392.510	386.868	383.364	378.603	375.562	375.540
75	245.217	251.697	254.959	253.769	253.151	252.733	252.027	250.727	249.074
80	117.076	121.683	127.501	129.507	132.042	148.329	152.032	150.114	151.900
85	22.459	26.294	29.203	31.495	36.300	40.377	38.041	37.424	37.710
90	4.121	4.033	3.945	3.945	3.659	3.570	3.835	3.835	3.482
95	84.149	75.707	68.522	59.045	52.808	50.339	48.224	49.480	49.788
100	219.695	200.630	184.651	160.672	151.591	158.600	155.558	153.707	155.735
105	380.631	346.513	309.596	278.850	257.559	245.173	241.669	236.247	233.888
110	561.932	512.011	456.448	408.225	376.950	357.004	346.821	341.289	340.408
115	757.272	680.044	602.155	536.916	491.933	464.603	449.329	442.717	440.337
120	923.322	822.974	729.215	656.065	602.243	568.852	550.736	540.355	540.244
125	1069.271	960.768	850.964	759.454	698.888	661.509	639.402	627.831	626.090
130	1188.463	1068.742	956.161	858.326	784.933	745.283	721.083	708.498	706.426
135	1266.462	1150.422	1037.357	944.392	871.131	822.996	796.437	781.450	775.610
140	1323.546	1208.872	1104.006	1012.297	945.692	894.824	866.414	849.995	842.964
145	1345.498	1246.715	1153.111	1072.092	1009.234	963.148	931.719	916.952	909.392
150	1346.313	1261.900	1182.292	1117.913	1059.066	1023.273	990.808	979.722	972.162
155	1324.582	1259.432	1200.629	1143.898	1105.460	1072.180	1048.200	1037.335	1029.268
160	1293.814	1245.745	1199.924	1168.737	1138.829	1109.736	1098.363	1088.225	1079.960
165	1248.941	1225.512	1202.106	1178.831	1155.337	1146.102	1137.903	1130.167	1123.511
170	1217.776	1203.230	1188.683	1182.666	1176.914	1171.338	1165.982	1160.825	1156.086
175	1196.552	1194.237	1191.835	1189.389	1186.920	1184.408	1181.829	1179.382	1176.958
180	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548	1183.548

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	665.84	N.A.	6.40
0-30	1444.04	N.A.	13.90
0-40	2411.49	N.A.	23.30
0-60	4325.9	N.A.	41.80
0-80	5159.64	N.A.	49.80
0-90	5200.92	N.A.	50.20
10-90	5031.85	N.A.	48.60
20-40	1745.66	N.A.	16.90
20-50	2766.89	N.A.	26.70
40-70	2497.27	N.A.	24.10
60-80	833.74	N.A.	8.10
70-80	250.87	N.A.	2.40
80-90	41.27	N.A.	0.40
90-110	487.13	N.A.	4.70
90-120	1202.19	N.A.	11.60
90-130	2153.35	N.A.	20.80
90-150	4032.03	N.A.	38.90
90-180	5155.06	N.A.	49.80
110-180	4667.93	N.A.	45.10
0-180	10355.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.06
10-20	496.77
20-30	778.20
30-40	967.46
40-50	1021.23
50-60	893.18
60-70	582.87
70-80	250.87
80-90	41.27
90-100	96.06
100-110	391.07
110-120	715.06
120-130	951.16
130-140	1000.15
140-150	878.53
150-160	642.02
160-170	365.67
170-180	115.34

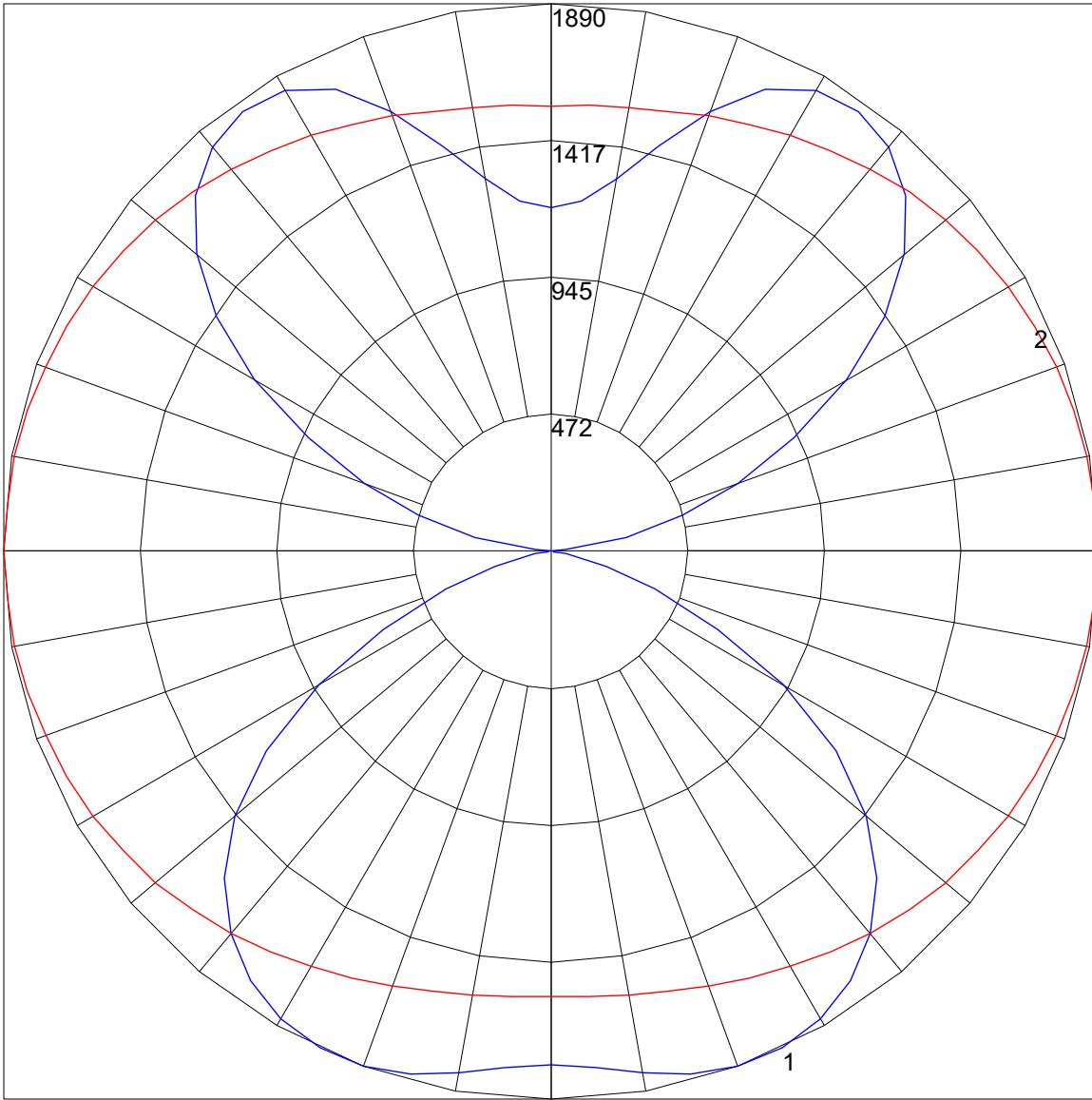
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	69	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 = 1889.798 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.)