

**IES Report**

DoubleRace™ | 107 | 120° Batwing, Flat, up | 120° FlyWing™, Flat, down | 90 CRI | HO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	93
Total Lumens, 4' rail length (1219mm)	8481	8749	8928	9106
Lumens per foot (305mm)	2120	2187	1111	2277
Lumens per foot UP (305mm)	1056	1089	1121	1133
Lumens per foot DOWN (305mm)	1064	1099	2232	1143
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	96	96	96	96

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\_359\_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-359-G1G2  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 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	8928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	24105	26862	51246
55	17015	19683	47239
65	8726	11305	43710
75	2719	4383	33759
85	142	388	11702

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	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847
5	1541.261	1540.083	1538.905	1537.385	1535.922	1534.402	1532.825	1531.191	1529.519	1527.828
10	1574.701	1572.364	1569.267	1565.828	1561.933	1557.601	1552.813	1543.826	1534.820	1525.757
15	1609.414	1606.241	1601.909	1596.950	1590.186	1578.235	1565.543	1552.186	1538.221	1520.722
20	1629.136	1625.412	1620.909	1614.392	1602.004	1589.065	1574.340	1554.314	1533.908	1510.044
25	1628.661	1624.804	1620.928	1610.174	1598.185	1582.491	1563.795	1545.080	1514.490	1482.247
30	1605.785	1601.586	1596.532	1586.500	1573.504	1556.860	1537.632	1511.450	1480.081	1443.221
35	1558.608	1554.960	1548.443	1539.855	1525.700	1509.512	1490.151	1458.991	1427.033	1386.240
40	1483.045	1479.720	1472.994	1463.323	1451.752	1437.882	1413.771	1386.297	1353.522	1309.062
45	1374.327	1372.123	1366.632	1357.778	1347.499	1335.605	1311.513	1290.499	1251.378	1212.732
50	1226.507	1223.885	1219.192	1212.884	1207.165	1196.487	1178.779	1156.739	1123.299	1079.789
55	1035.918	1032.821	1030.104	1028.850	1027.045	1013.213	1008.577	984.067	961.362	927.770
60	798.475	796.784	795.568	787.341	779.304	774.858	773.072	770.868	751.412	732.545
65	548.891	550.297	538.061	528.675	531.373	536.047	546.003	542.393	543.058	539.125
70	329.574	325.679	317.129	318.839	329.764	338.922	345.002	349.277	351.899	353.077
75	171.342	159.809	163.818	169.537	173.508	180.120	186.314	192.014	200.868	205.105
80	45.600	50.217	51.528	53.466	56.563	60.363	64.258	72.238	78.147	90.250
85	8.683	9.899	9.994	10.051	10.165	10.545	10.298	10.830	13.604	17.252
90	3.458	3.553	3.477	3.401	3.401	3.477	3.705	3.477	3.477	3.629
95	44.175	58.349	51.528	54.606	59.185	64.999	68.134	79.857	77.425	74.575
100	228.931	213.503	217.797	220.362	219.070	218.177	218.576	215.384	209.798	201.305
105	405.631	380.817	384.237	386.802	382.983	381.330	378.461	371.811	366.871	350.816
110	590.216	581.096	561.849	559.816	565.953	566.827	566.485	552.273	544.673	521.227
115	798.152	797.867	780.729	768.094	763.040	760.228	755.478	743.014	727.301	703.057
120	1019.502	1017.222	1012.168	999.324	988.342	974.282	961.020	947.112	911.696	861.859
125	1213.245	1210.034	1204.923	1200.097	1192.649	1172.319	1156.682	1116.193	1072.246	1010.420
130	1373.852	1370.508	1362.908	1353.142	1341.666	1321.621	1291.753	1249.516	1190.464	1113.875
135	1495.509	1492.469	1482.247	1467.655	1448.731	1426.292	1383.181	1338.398	1267.737	1193.371
140	1567.595	1563.054	1551.179	1533.680	1511.165	1482.437	1437.255	1382.573	1317.821	1232.701
145	1596.779	1591.402	1579.185	1560.736	1533.091	1499.518	1458.098	1394.695	1327.568	1248.224
150	1582.909	1576.924	1564.859	1541.926	1512.153	1474.970	1431.479	1374.441	1307.941	1234.791
155	1514.110	1507.555	1496.060	1472.728	1443.715	1407.045	1363.991	1317.840	1260.954	1201.845
160	1392.168	1387.494	1376.151	1360.248	1335.510	1307.105	1274.387	1235.228	1193.922	1155.409
165	1248.110	1245.279	1238.002	1228.730	1215.943	1197.247	1176.442	1153.756	1129.379	1101.791
170	1123.641	1122.121	1118.663	1114.426	1109.087	1102.684	1095.236	1084.710	1073.614	1061.948
175	1045.076	1044.506	1043.955	1042.568	1041.409	1040.079	1038.597	1037.001	1035.272	1033.429
180	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300

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	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847	1527.847
5	1526.118	1524.408	1522.717	1521.045	1519.430	1517.872	1516.238	1514.927	1513.635
10	1516.675	1507.669	1498.910	1493.514	1488.612	1484.204	1480.309	1476.813	1474.210
15	1502.767	1485.762	1469.137	1453.082	1437.407	1428.895	1421.656	1415.367	1411.092
20	1482.969	1454.203	1426.444	1401.060	1376.797	1353.522	1341.153	1330.342	1323.065
25	1449.966	1412.536	1372.997	1334.655	1301.310	1271.385	1248.699	1235.247	1226.659
30	1401.706	1356.562	1308.891	1260.042	1214.404	1177.924	1145.206	1130.291	1121.589
35	1338.854	1289.967	1231.599	1175.226	1121.456	1076.711	1040.630	1020.870	1009.565
40	1259.396	1201.693	1140.361	1077.243	1020.300	971.052	934.591	911.392	899.289
45	1154.915	1098.010	1034.664	970.881	914.261	866.362	830.984	807.614	796.575
50	1031.073	974.871	913.653	855.912	803.643	759.430	727.358	707.826	700.663
55	879.149	828.419	774.611	726.921	685.843	654.683	631.750	615.315	606.632
60	706.002	660.231	623.143	594.586	569.867	548.929	532.532	520.999	518.111

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	525.217	505.267	485.640	466.773	451.744	440.097	430.274	424.479	426.132
<b>70</b>	350.778	349.999	345.686	338.371	333.507	330.486	326.382	323.760	323.741
<b>75</b>	211.394	216.980	219.792	218.766	218.234	217.873	217.265	216.144	214.719
<b>80</b>	100.928	104.899	109.915	111.644	113.829	127.870	131.062	129.409	130.948
<b>85</b>	19.361	22.667	25.175	27.151	31.293	34.808	32.794	32.262	32.509
<b>90</b>	3.553	3.477	3.401	3.401	3.154	3.078	3.306	3.306	3.002
<b>95</b>	72.542	65.265	59.071	50.901	45.524	43.396	41.572	42.655	42.921
<b>100</b>	189.392	172.957	159.182	138.510	130.682	136.724	134.102	132.506	134.254
<b>105</b>	328.130	298.718	266.893	240.388	222.034	211.356	208.335	203.661	201.628
<b>110</b>	484.424	441.389	393.490	351.918	324.957	307.762	298.984	294.215	293.455
<b>115</b>	652.821	586.245	519.099	462.859	424.080	400.520	387.353	381.653	379.601
<b>120</b>	795.967	709.460	628.634	565.573	519.175	490.390	474.772	465.823	465.728
<b>125</b>	921.785	828.248	733.590	654.702	602.490	570.266	551.209	541.234	539.733
<b>130</b>	1024.537	921.329	824.277	739.936	676.666	642.485	621.623	610.774	608.988
<b>135</b>	1091.778	991.743	894.273	814.131	750.975	709.479	686.584	673.664	668.629
<b>140</b>	1140.988	1042.131	951.729	872.670	815.252	771.400	746.909	732.754	726.693
<b>145</b>	1159.912	1074.754	994.061	924.217	870.029	830.300	803.206	790.476	783.959
<b>150</b>	1160.615	1087.845	1019.217	963.718	912.988	882.132	854.145	844.588	838.071
<b>155</b>	1141.881	1085.717	1035.025	986.119	952.983	924.293	903.621	894.254	887.300
<b>160</b>	1115.357	1073.918	1034.417	1007.532	981.749	956.669	946.865	938.125	931.000
<b>165</b>	1076.673	1056.476	1036.298	1016.234	995.980	988.019	980.951	974.282	968.544
<b>170</b>	1049.807	1037.267	1024.727	1019.540	1014.581	1009.774	1005.157	1000.711	996.626
<b>175</b>	1031.510	1029.515	1027.444	1025.335	1023.207	1021.041	1018.818	1016.709	1014.619
<b>180</b>	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300	1020.300

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	574.00	N.A.	6.40
0-30	1244.86	N.A.	13.90
0-40	2078.87	N.A.	23.30
0-60	3729.23	N.A.	41.80
0-80	4447.97	N.A.	49.80
0-90	4483.55	N.A.	50.20
10-90	4337.81	N.A.	48.60
20-40	1504.88	N.A.	16.90
20-50	2385.25	N.A.	26.70
40-70	2152.82	N.A.	24.10
60-80	718.74	N.A.	8.10
70-80	216.27	N.A.	2.40
80-90	35.58	N.A.	0.40
90-110	419.94	N.A.	4.70
90-120	1036.37	N.A.	11.60
90-130	1856.34	N.A.	20.80
90-150	3475.88	N.A.	38.90
90-180	4444.02	N.A.	49.80
110-180	4024.08	N.A.	45.10
0-180	8927.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.74
10-20	428.25
20-30	670.86
30-40	834.02
40-50	880.37
50-60	769.98
60-70	502.47
70-80	216.27
80-90	35.58
90-100	82.81
100-110	337.13
110-120	616.43
120-130	819.97
130-140	862.20
140-150	757.35
150-160	553.47
160-170	315.23
170-180	99.43

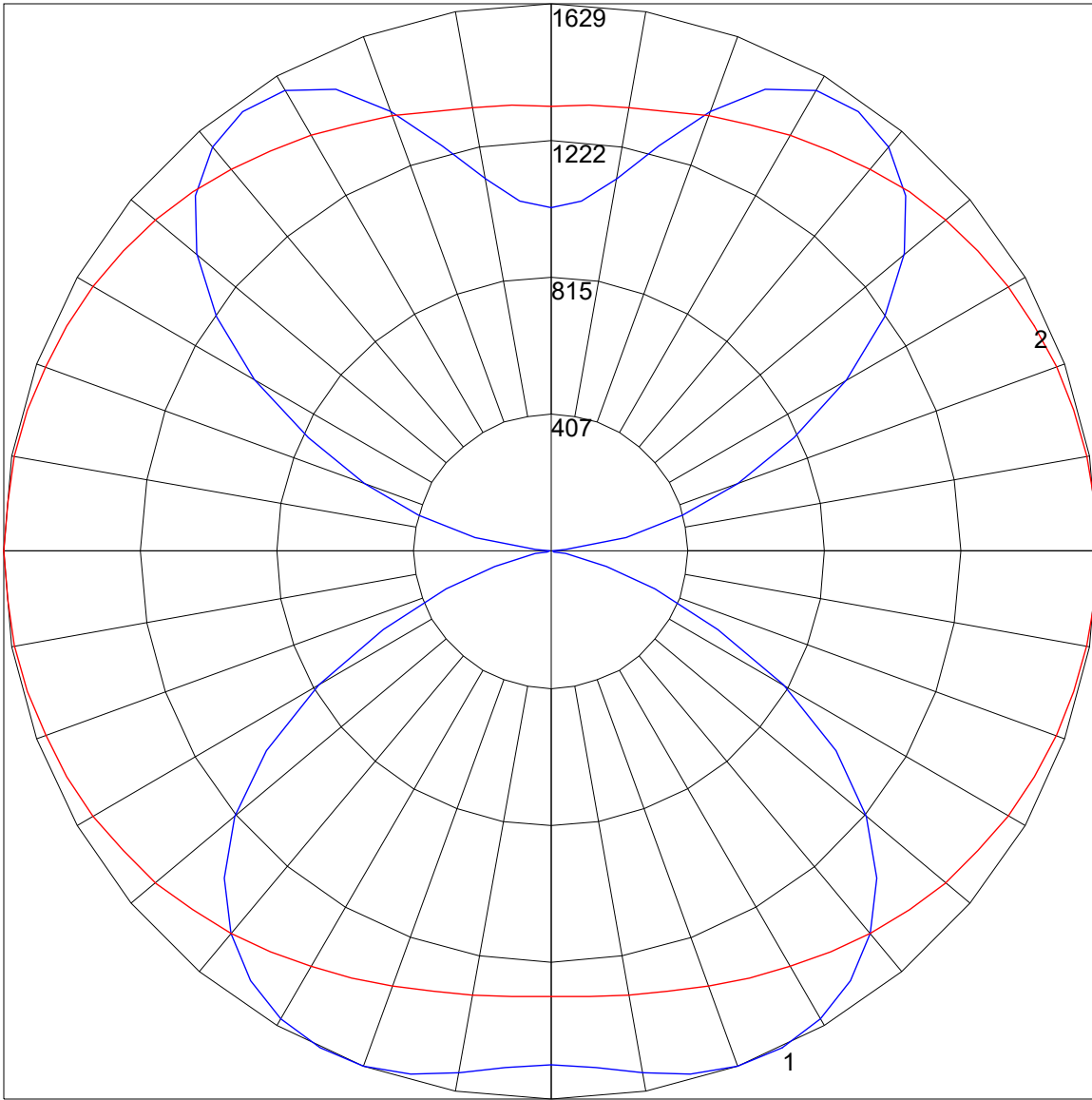
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1629.136 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.)