

**IES Report**

**DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 90 CRI | HO**

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	99
Total Lumens, 4' rail length (1219mm)	9018	9303	9493	9683
Lumens per foot (305mm)	2255	2326	2373	2421
Lumens per foot UP (305mm)	1064	1097	1119	1142
Lumens per foot DOWN (305mm)	1191	1229	1254	1279
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\_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-HO-359-G12  
 [LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 120° batwing lens up/round diffuse 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	9493
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	21294	26009	67839
55	14262	18260	54003
65	8911	11713	44435
75	5247	7024	33159
85	2701	3502	20517

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>	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6
<b>5</b>	1938.0	1938.0	1936.1	1936.1	1936.1	1934.2	1934.2	1934.2	1932.3	1932.3
<b>10</b>	1915.2	1913.3	1911.4	1911.4	1909.5	1909.5	1909.5	1907.6	1903.8	1903.8
<b>15</b>	1873.4	1869.6	1869.6	1867.7	1867.7	1863.9	1860.1	1858.2	1858.2	1856.3
<b>20</b>	1812.6	1808.8	1808.8	1808.8	1803.1	1799.3	1797.4	1791.7	1789.8	1786.0
<b>25</b>	1732.8	1730.9	1730.9	1725.2	1723.3	1719.5	1713.8	1711.9	1702.4	1694.8
<b>30</b>	1634.0	1630.2	1628.3	1624.5	1620.7	1616.9	1613.1	1605.5	1599.8	1588.4
<b>35</b>	1510.5	1508.6	1506.7	1504.8	1499.1	1495.3	1491.5	1482.0	1474.4	1463.0
<b>40</b>	1371.8	1369.9	1368.0	1364.2	1362.3	1360.4	1350.9	1345.2	1335.7	1324.3
<b>45</b>	1214.1	1214.1	1214.1	1212.2	1210.3	1208.4	1200.8	1197.0	1183.7	1174.2
<b>50</b>	1043.1	1041.2	1043.1	1043.1	1045.0	1045.0	1043.1	1037.4	1027.9	1016.5
<b>55</b>	868.3	868.3	872.1	874.0	875.9	874.0	875.9	872.1	868.3	860.7
<b>60</b>	704.9	704.9	706.8	703.0	697.3	699.2	703.0	706.8	703.0	697.3
<b>65</b>	560.5	562.4	551.0	543.4	545.3	549.1	554.8	558.6	560.5	558.6
<b>70</b>	435.1	429.4	414.2	418.0	425.6	429.4	433.2	435.1	435.1	435.1
<b>75</b>	330.6	311.6	315.4	319.2	321.1	323.0	326.8	328.7	330.6	328.7
<b>80</b>	237.5	226.1	229.9	233.7	233.7	235.6	235.6	237.5	237.5	237.5
<b>85</b>	165.3	169.1	171.0	171.0	171.0	167.2	165.3	161.5	157.7	155.8
<b>90</b>	121.6	125.4	125.4	127.3	121.6	117.8	112.1	108.3	106.4	102.6
<b>95</b>	117.8	150.1	142.5	146.3	146.3	148.2	146.3	150.1	148.2	144.4
<b>100</b>	294.5	285.0	290.7	290.7	290.7	286.9	281.2	275.5	264.1	250.8
<b>105</b>	471.2	437.0	442.7	442.7	440.8	435.1	425.6	416.1	402.8	381.9
<b>110</b>	642.2	628.9	602.3	596.6	600.4	598.5	589.0	570.0	564.3	533.9
<b>115</b>	826.5	824.6	801.8	782.8	775.2	769.5	761.9	746.7	727.7	693.5
<b>120</b>	1014.6	1012.7	1008.9	991.8	974.7	959.5	946.2	932.9	896.8	847.4
<b>125</b>	1195.1	1191.3	1189.4	1181.8	1172.3	1149.5	1134.3	1094.4	1050.7	991.8
<b>130</b>	1349.0	1347.1	1339.5	1328.1	1316.7	1295.8	1267.3	1225.5	1166.6	1092.5
<b>135</b>	1468.7	1466.8	1455.4	1442.1	1423.1	1400.3	1356.6	1314.8	1244.5	1170.4
<b>140</b>	1540.9	1535.2	1523.8	1506.7	1483.9	1455.4	1409.8	1354.7	1290.1	1208.4
<b>145</b>	1569.4	1563.7	1552.3	1533.3	1504.8	1472.5	1430.7	1368.0	1301.5	1223.6
<b>150</b>	1554.2	1548.5	1537.1	1512.4	1483.9	1447.8	1404.1	1347.1	1282.5	1210.3
<b>155</b>	1483.9	1478.2	1466.8	1444.0	1415.5	1381.3	1337.6	1293.9	1236.9	1178.0
<b>160</b>	1364.2	1360.4	1349.0	1333.8	1309.1	1280.6	1248.3	1210.3	1168.5	1130.5
<b>165</b>	1223.6	1219.8	1212.2	1202.7	1191.3	1172.3	1151.4	1128.6	1105.8	1077.3
<b>170</b>	1098.2	1096.3	1094.4	1088.7	1084.9	1077.3	1071.6	1060.2	1048.8	1037.4
<b>175</b>	1020.3	1020.3	1020.3	1018.4	1016.5	1016.5	1014.6	1012.7	1010.8	1008.9
<b>180</b>	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6

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>	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6	1945.6
<b>5</b>	1932.3	1932.3	1932.3	1932.3	1932.3	1934.2	1934.2	1934.2	1936.1
<b>10</b>	1901.9	1901.9	1901.9	1900.0	1898.1	1898.1	1898.1	1898.1	1900.0
<b>15</b>	1852.5	1848.7	1844.9	1844.9	1844.9	1841.1	1839.2	1839.2	1841.1
<b>20</b>	1780.3	1774.6	1772.7	1767.0	1763.2	1763.2	1759.4	1755.6	1757.5
<b>25</b>	1689.1	1681.5	1673.9	1668.2	1662.5	1658.7	1654.9	1651.1	1653.0
<b>30</b>	1578.9	1569.4	1559.9	1550.4	1542.8	1535.2	1533.3	1525.7	1525.7
<b>35</b>	1451.6	1442.1	1426.9	1413.6	1402.2	1394.6	1387.0	1383.2	1381.3
<b>40</b>	1311.0	1295.8	1278.7	1265.4	1250.2	1236.9	1227.4	1223.6	1225.5
<b>45</b>	1155.2	1138.1	1121.0	1103.9	1088.7	1073.5	1062.1	1056.4	1054.5
<b>50</b>	1001.3	982.3	961.4	942.4	927.2	908.2	894.9	887.3	889.2
<b>55</b>	845.5	826.5	801.8	775.2	752.4	731.5	710.6	693.5	693.5
<b>60</b>	691.6	666.9	647.9	627.0	609.9	594.7	581.4	573.8	571.9

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	552.9	539.6	520.6	499.7	478.8	459.8	446.5	437.0	433.2
<b>70</b>	427.5	418.0	400.9	381.9	361.0	342.0	328.7	317.3	313.5
<b>75</b>	323.0	315.4	300.2	281.2	258.4	239.4	224.2	214.7	210.9
<b>80</b>	233.7	224.2	212.8	195.7	176.7	157.7	144.4	138.7	138.7
<b>85</b>	148.2	140.6	131.1	125.4	106.4	89.3	76.0	62.7	57.0
<b>90</b>	96.9	85.5	74.1	62.7	51.3	38.0	24.7	15.2	7.6
<b>95</b>	134.9	123.5	102.6	87.4	72.2	57.0	47.5	43.7	39.9
<b>100</b>	233.7	205.2	180.5	159.6	146.3	133.0	134.9	127.3	117.8
<b>105</b>	351.5	315.4	277.4	245.1	222.3	209.0	203.3	199.5	195.7
<b>110</b>	492.1	442.7	393.3	349.6	321.1	304.0	294.5	288.8	286.9
<b>115</b>	646.0	581.4	511.1	456.0	418.0	393.3	381.9	374.3	372.4
<b>120</b>	784.7	699.2	619.4	558.6	513.0	482.6	465.5	457.9	457.9
<b>125</b>	906.3	813.2	722.0	642.2	594.7	562.4	541.5	532.0	530.1
<b>130</b>	1008.9	906.3	809.4	725.8	668.8	632.7	609.9	598.5	596.6
<b>135</b>	1071.6	974.7	877.8	801.8	741.0	697.3	666.9	649.8	646.0
<b>140</b>	1119.1	1024.1	934.8	858.8	801.8	756.2	731.5	718.2	714.4
<b>145</b>	1138.1	1056.4	974.7	906.3	853.1	813.2	786.6	775.2	767.6
<b>150</b>	1138.1	1065.9	997.5	944.3	894.9	864.5	836.0	826.5	818.9
<b>155</b>	1121.0	1064.0	1012.7	965.2	932.9	904.4	883.5	874.0	866.4
<b>160</b>	1092.5	1050.7	1010.8	984.2	959.5	934.8	925.3	917.7	912.0
<b>165</b>	1052.6	1033.6	1012.7	993.7	974.7	967.1	959.5	951.9	946.2
<b>170</b>	1026.0	1014.6	1001.3	995.6	991.8	986.1	982.3	978.5	972.8
<b>175</b>	1007.0	1005.1	1003.2	1001.3	999.4	997.5	995.6	993.7	991.8
<b>180</b>	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6	995.6

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	706.61	N.A.	7.40
0-30	1486.09	N.A.	15.70
0-40	2394.43	N.A.	25.20
0-60	4019.67	N.A.	42.30
0-80	4859.62	N.A.	51.20
0-90	5015.57	N.A.	52.80
10-90	4831.86	N.A.	50.90
20-40	1687.83	N.A.	17.80
20-50	2576.58	N.A.	27.10
40-70	2147.66	N.A.	22.60
60-80	839.94	N.A.	8.80
70-80	317.53	N.A.	3.30
80-90	155.95	N.A.	1.60
90-110	514.62	N.A.	5.40
90-120	1133.71	N.A.	11.90
90-130	1940.28	N.A.	20.40
90-150	3529.54	N.A.	37.20
90-180	4477.47	N.A.	47.20
110-180	3962.85	N.A.	41.70
0-180	9493.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	183.71
10-20	522.90
20-30	779.48
30-40	908.35
40-50	888.75
50-60	736.49
60-70	522.42
70-80	317.53
80-90	155.95
90-100	147.49
100-110	367.13
110-120	619.09
120-130	806.57
130-140	846.15
140-150	743.11
150-160	542.37
160-170	308.44
170-180	97.13

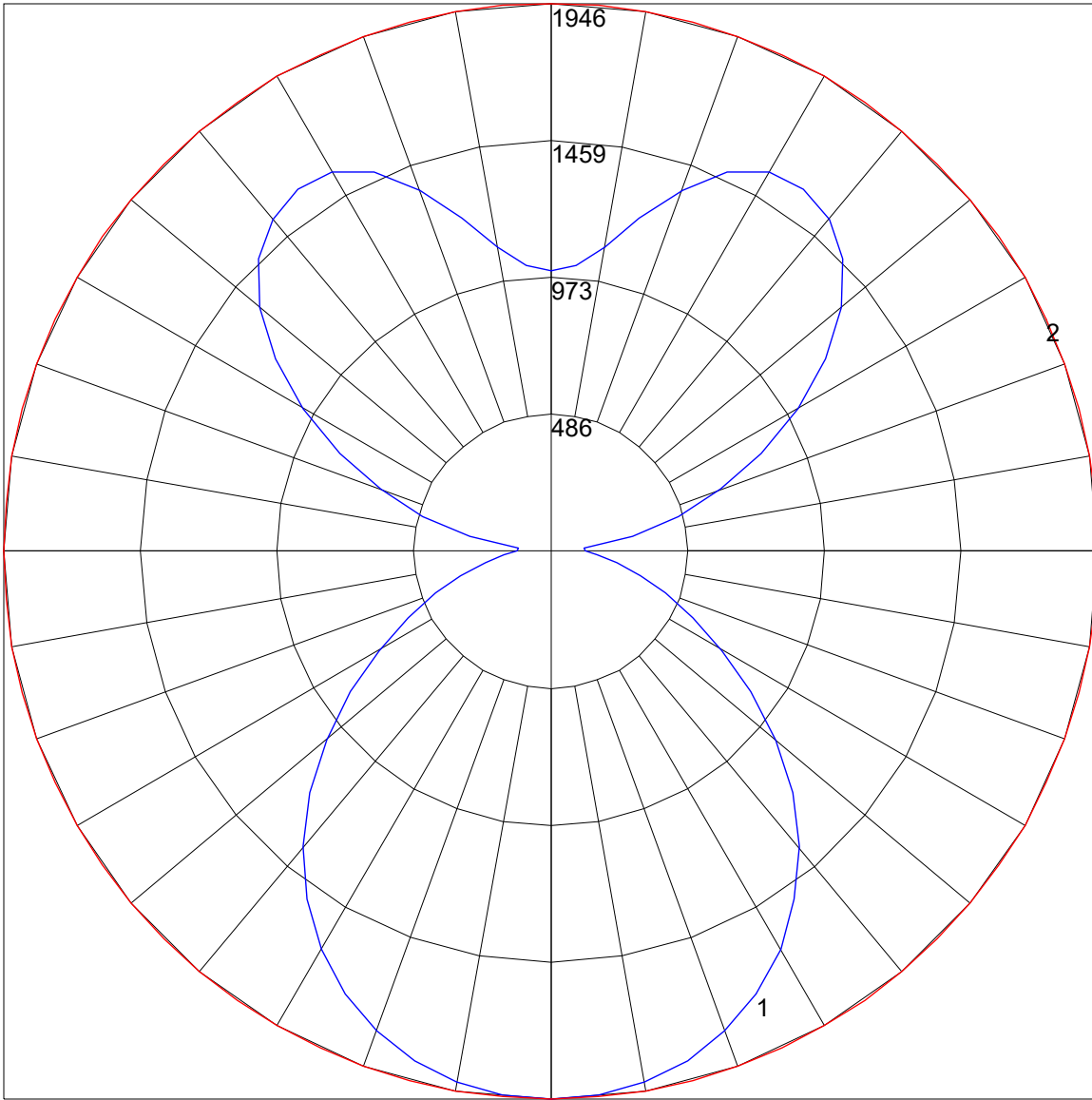
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 1945.6 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.)