

**IES Report**

**DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 80 CRI | HO**

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	113	116	118
Total Lumens, 4' rail length (1219mm)	10758	11098	11324	11551
Lumens per foot (305mm)	2690	2774	2831	2888
Lumens per foot UP (305mm)	1350	1392	1421	1449
Lumens per foot DOWN (305mm)	1340	1382	1410	1438
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](http://vode.com).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DR\_HO\_35\_22.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704220 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DR-48-Z-HO-35-22  
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] round diffuse 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	11334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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)	3.75 ft
Luminous Height	0.21 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20231	24886	74395
55	13548	17272	59723
65	8685	11054	48291
75	5508	6965	36099
85	3483	4404	21802

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>	2145.578	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577
<b>5</b>	2136.240	2135.070	2133.923	2133.135	2132.280	2131.537	2130.907	2130.412	2130.030	2129.782
<b>10</b>	2107.463	2105.325	2103.930	2102.827	2102.220	2102.063	2102.310	2099.160	2096.843	2095.200
<b>15</b>	2060.955	2057.940	2056.680	2056.207	2055.600	2051.010	2047.747	2045.880	2045.362	2042.797
<b>20</b>	1993.882	1989.922	1989.293	1988.438	1983.375	1980.495	1978.402	1973.182	1970.438	1966.500
<b>25</b>	1906.807	1903.140	1903.005	1897.987	1894.928	1890.315	1885.455	1884.330	1874.520	1866.938
<b>30</b>	1797.322	1793.723	1792.553	1788.053	1784.092	1779.255	1774.372	1765.868	1758.578	1748.925
<b>35</b>	1665.428	1662.188	1659.578	1658.025	1652.737	1648.418	1643.940	1631.655	1623.172	1611.675
<b>40</b>	1515.780	1513.395	1510.358	1507.253	1504.350	1500.322	1490.783	1482.277	1472.243	1459.395
<b>45</b>	1346.872	1346.152	1344.172	1342.328	1339.335	1336.095	1328.017	1322.235	1306.755	1293.930
<b>50</b>	1161.720	1160.797	1161.000	1161.810	1161.563	1159.335	1156.477	1149.660	1136.250	1120.658
<b>55</b>	975.263	974.813	977.670	979.785	978.278	974.092	974.250	967.635	961.875	951.638
<b>60</b>	798.345	798.952	801.518	794.025	785.227	784.237	785.025	786.308	782.100	774.945
<b>65</b>	653.175	652.545	636.525	625.612	624.420	626.355	630.023	629.820	627.660	624.825
<b>70</b>	525.195	511.358	495.337	497.587	504.923	508.545	506.993	503.820	501.322	495.337
<b>75</b>	419.445	391.342	400.005	402.705	402.615	402.795	400.748	399.645	398.565	391.658
<b>80</b>	326.025	322.020	326.858	328.702	327.038	324.675	321.683	318.712	313.245	304.808
<b>85</b>	260.438	281.925	281.947	282.488	277.853	271.980	263.070	255.735	249.053	238.860
<b>90</b>	262.642	268.762	270.450	271.373	264.375	254.925	242.505	235.215	228.780	217.575
<b>95</b>	282.870	296.123	296.370	295.515	290.317	284.805	277.267	269.685	262.845	251.662
<b>100</b>	342.473	336.780	341.077	341.978	340.470	337.433	333.158	330.548	325.935	318.488
<b>105</b>	432.697	408.173	412.155	414.765	413.640	413.505	411.098	407.723	403.627	393.277
<b>110</b>	527.805	519.413	501.908	500.310	506.475	507.375	505.935	503.033	501.390	494.438
<b>115</b>	645.322	646.470	636.322	626.153	625.725	627.322	630.360	630.383	630.337	627.278
<b>120</b>	797.580	797.895	800.280	794.633	787.815	786.668	783.180	784.845	785.655	777.622
<b>125</b>	972.832	972.180	974.633	976.860	976.680	974.678	974.543	967.590	962.168	951.210
<b>130</b>	1158.930	1158.255	1158.705	1159.110	1159.065	1158.345	1156.253	1150.470	1139.108	1123.200
<b>135</b>	1345.747	1345.500	1343.610	1342.215	1339.740	1337.693	1331.505	1327.703	1313.348	1300.950
<b>140</b>	1521.000	1519.178	1515.555	1512.023	1509.300	1506.352	1497.960	1490.108	1480.590	1467.630
<b>145</b>	1673.078	1670.265	1667.835	1666.283	1661.017	1656.810	1652.400	1641.307	1634.017	1622.993
<b>150</b>	1807.425	1804.455	1803.780	1799.055	1795.027	1790.595	1786.365	1778.490	1771.763	1762.672
<b>155</b>	1919.138	1916.055	1916.595	1911.487	1908.315	1903.995	1899.697	1899.135	1889.888	1882.710
<b>160</b>	2009.003	2005.470	2005.155	2004.547	1999.395	1996.695	1994.985	1990.328	1988.257	1984.230
<b>165</b>	2077.762	2074.770	2073.488	2073.060	2072.633	2068.313	2065.253	2063.430	2062.800	2060.032
<b>170</b>	2125.597	2123.573	2122.222	2121.233	2120.715	2120.670	2121.030	2117.790	2115.405	2113.762
<b>175</b>	2154.555	2153.497	2152.463	2151.653	2150.887	2150.190	2149.628	2149.155	2148.818	2148.593
<b>180</b>	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250

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>	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577	2145.577
<b>5</b>	2129.670	2129.693	2129.827	2130.097	2130.503	2131.020	2131.560	2132.370	2133.247
<b>10</b>	2094.278	2094.052	2094.435	2092.905	2091.938	2091.577	2091.802	2092.455	2094.030
<b>15</b>	2039.287	2035.215	2032.605	2031.457	2031.908	2029.207	2027.700	2027.205	2028.825
<b>20</b>	1960.965	1954.822	1950.547	1945.035	1942.380	1942.672	1939.230	1937.565	1939.703
<b>25</b>	1862.888	1853.483	1843.313	1837.395	1830.420	1825.898	1823.040	1820.070	1823.108
<b>30</b>	1738.710	1728.967	1718.392	1706.648	1699.110	1690.560	1687.253	1682.640	1685.790
<b>35</b>	1597.973	1586.902	1571.783	1558.237	1545.300	1535.378	1528.672	1523.543	1523.250
<b>40</b>	1444.680	1427.287	1409.422	1391.625	1375.785	1364.940	1354.747	1347.705	1344.825
<b>45</b>	1274.445	1255.658	1237.770	1216.800	1198.598	1183.950	1173.105	1166.197	1162.283
<b>50</b>	1103.220	1082.362	1061.550	1039.118	1017.563	1002.082	990.270	980.820	973.957
<b>55</b>	931.523	910.192	887.355	857.340	829.845	807.683	790.920	779.872	774.045
<b>60</b>	768.105	748.372	721.013	694.822	672.570	655.043	642.015	632.610	630.945

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	616.658	598.793	577.013	552.352	528.367	507.217	492.998	482.063	478.283
<b>70</b>	484.808	470.183	448.897	424.170	400.118	377.348	361.755	352.688	348.435
<b>75</b>	380.250	366.120	344.205	316.822	290.813	267.548	246.825	236.002	236.340
<b>80</b>	295.245	279.765	257.445	233.393	204.322	182.745	168.885	156.420	159.750
<b>85</b>	226.643	209.048	188.077	168.593	140.040	112.793	88.043	69.683	65.205
<b>90</b>	202.725	182.722	159.368	135.270	107.145	78.750	52.492	29.902	9.540
<b>95</b>	237.420	221.535	204.683	172.620	144.450	115.132	86.017	68.782	65.025
<b>100</b>	303.188	284.827	262.598	232.245	201.915	181.597	169.132	162.653	161.415
<b>105</b>	378.855	363.577	341.595	315.135	290.205	268.178	248.873	238.545	238.950
<b>110</b>	482.512	467.910	447.277	423.720	401.355	381.240	364.770	354.533	352.170
<b>115</b>	617.940	600.817	579.510	555.503	533.025	513.225	496.868	486.405	488.565
<b>120</b>	767.880	750.240	726.210	701.528	680.220	664.470	652.972	642.128	638.415
<b>125</b>	932.760	912.038	889.920	864.518	837.607	816.638	800.393	788.400	782.640
<b>130</b>	1107.900	1090.507	1068.210	1045.890	1024.785	1008.563	995.692	987.367	984.803
<b>135</b>	1282.455	1266.435	1245.510	1225.665	1209.757	1197.630	1184.805	1176.727	1174.995
<b>140</b>	1453.072	1437.615	1420.672	1403.730	1388.947	1378.665	1368.495	1361.632	1358.842
<b>145</b>	1610.685	1601.415	1585.822	1572.615	1561.140	1551.780	1544.243	1539.068	1539.135
<b>150</b>	1752.862	1743.570	1733.310	1721.655	1714.590	1706.918	1704.105	1699.290	1702.418
<b>155</b>	1878.885	1869.862	1859.850	1853.730	1847.047	1843.763	1841.828	1838.205	1840.500
<b>160</b>	1978.358	1972.193	1968.255	1962.540	1959.345	1958.895	1956.105	1955.115	1957.995
<b>165</b>	2056.432	2052.427	2049.818	2048.625	2049.097	2047.072	2046.510	2047.050	2049.750
<b>170</b>	2112.863	2112.705	2113.177	2111.625	2110.657	2110.298	2110.568	2111.265	2112.885
<b>175</b>	2148.480	2148.480	2148.615	2148.863	2149.222	2149.695	2150.145	2150.932	2151.742
<b>180</b>	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250	2162.250

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	778.17	N.A.	6.90
0-30	1636.34	N.A.	14.40
0-40	2637.07	N.A.	23.30
0-60	4437.12	N.A.	39.10
0-80	5406.38	N.A.	47.70
0-90	5645.48	N.A.	49.80
10-90	5443.07	N.A.	48.00
20-40	1858.9	N.A.	16.40
20-50	2840.57	N.A.	25.10
40-70	2388.99	N.A.	21.10
60-80	969.26	N.A.	8.60
70-80	380.33	N.A.	3.40
80-90	239.10	N.A.	2.10
90-110	632.33	N.A.	5.60
90-120	1223.26	N.A.	10.80
90-130	2044.06	N.A.	18.00
90-150	4038.35	N.A.	35.60
90-180	5688.49	N.A.	50.20
110-180	5056.16	N.A.	44.60
0-180	11333.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.41
10-20	575.76
20-30	858.17
30-40	1000.73
40-50	981.67
50-60	818.38
60-70	588.93
70-80	380.33
80-90	239.10
90-100	246.80
100-110	385.54
110-120	590.93
120-130	820.80
130-140	986.33
140-150	1007.96
150-160	865.24
160-170	580.74
170-180	204.17

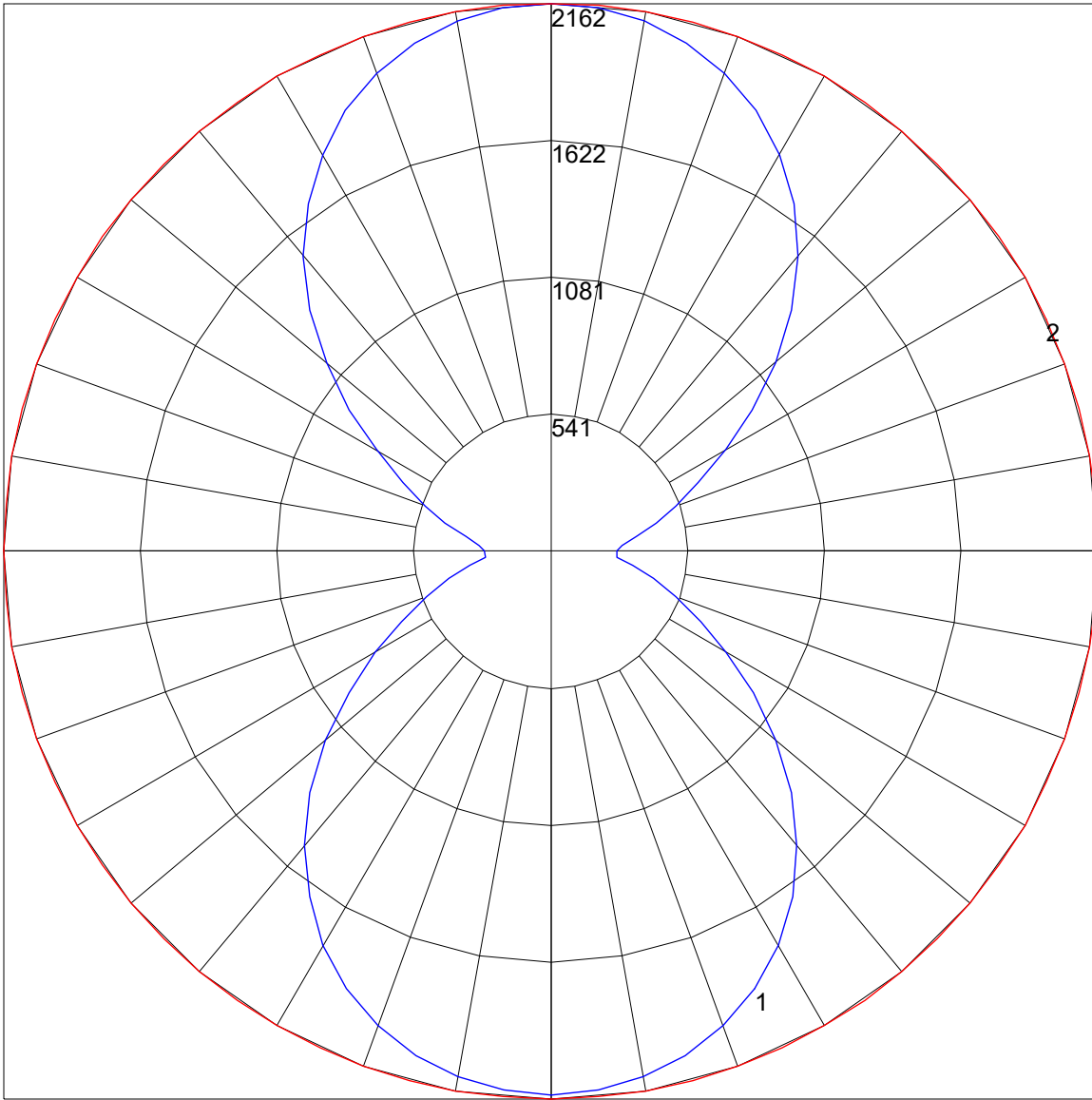
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	46	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	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	13

POLAR GRAPH



Maximum Candela = 2162.25 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)