

IES Report

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

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	112	115
Total Lumens, 4' rail length (1219mm)	10461	10792	11012	11232
Lumens per foot (305mm)	2615	2698	2753	2808
Lumens per foot UP (305mm)	1234	1273	1299	1325
Lumens per foot DOWN (305mm)	1382	1526	1455	1484
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_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-35-G12
 [LUMINAIRE] DoubleRace LED, 48", 3500K, 80 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	11012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	24701	30170	78693
55	16543	21182	62644
65	10336	13587	51544
75	6086	8148	38464
85	3133	4063	23800

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	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896
5	2248.080	2248.080	2245.876	2245.876	2245.876	2243.672	2243.672	2243.672	2241.468	2241.468
10	2221.632	2219.428	2217.224	2217.224	2215.020	2215.020	2215.020	2212.816	2208.408	2208.408
15	2173.144	2168.736	2168.736	2166.532	2166.532	2162.124	2157.716	2155.512	2155.512	2153.308
20	2102.616	2098.208	2098.208	2098.208	2091.596	2087.188	2084.984	2078.372	2076.168	2071.760
25	2010.048	2007.844	2007.844	2001.232	1999.028	1994.620	1988.008	1985.804	1974.784	1965.968
30	1895.440	1891.032	1888.828	1884.420	1880.012	1875.604	1871.196	1862.380	1855.768	1842.544
35	1752.180	1749.976	1747.772	1745.568	1738.956	1734.548	1730.140	1719.120	1710.304	1697.080
40	1591.288	1589.084	1586.880	1582.472	1580.268	1578.064	1567.044	1560.432	1549.412	1536.188
45	1408.356	1408.356	1408.356	1406.152	1403.948	1401.744	1392.928	1388.520	1373.092	1362.072
50	1209.996	1207.792	1209.996	1209.996	1212.200	1212.200	1209.996	1203.384	1192.364	1179.140
55	1007.228	1007.228	1011.636	1013.840	1016.044	1013.840	1016.044	1011.636	1007.228	998.412
60	817.684	817.684	819.888	815.480	808.868	811.072	815.480	819.888	815.480	808.868
65	650.180	652.384	639.160	630.344	632.548	636.956	643.568	647.976	650.180	647.976
70	504.716	498.104	480.472	484.880	493.696	498.104	502.512	504.716	504.716	504.716
75	383.496	361.456	365.864	370.272	372.476	374.680	379.088	381.292	383.496	381.292
80	275.500	262.276	266.684	271.092	271.092	273.296	273.296	275.500	275.500	275.500
85	191.748	196.156	198.360	198.360	198.360	193.952	191.748	187.340	182.932	180.728
90	141.056	145.464	145.464	147.668	141.056	136.648	130.036	125.628	123.424	119.016
95	136.648	174.116	165.300	169.708	169.708	171.912	169.708	174.116	171.912	167.504
100	341.620	330.600	337.212	337.212	337.212	332.804	326.192	319.580	306.356	290.928
105	546.592	506.920	513.532	513.532	511.328	504.716	493.696	482.676	467.248	443.004
110	744.952	729.524	698.668	692.056	696.464	694.260	683.240	661.200	654.588	619.324
115	958.740	956.536	930.088	908.048	899.232	892.620	883.804	866.172	844.132	804.460
120	1176.936	1174.732	1170.324	1150.488	1130.652	1113.020	1097.592	1082.164	1040.288	982.984
125	1386.316	1381.908	1379.704	1370.888	1359.868	1333.420	1315.788	1269.504	1218.812	1150.488
130	1564.840	1562.636	1553.820	1540.596	1527.372	1503.128	1470.068	1421.580	1353.256	1267.300
135	1703.692	1701.488	1688.264	1672.836	1650.796	1624.348	1573.656	1525.168	1443.620	1357.664
140	1787.444	1780.832	1767.608	1747.772	1721.324	1688.264	1635.368	1571.452	1496.516	1401.744
145	1820.504	1813.892	1800.668	1778.628	1745.568	1708.100	1659.612	1586.880	1509.740	1419.376
150	1802.872	1796.260	1783.036	1754.384	1721.324	1679.448	1628.756	1562.636	1487.700	1403.948
155	1721.324	1714.712	1701.488	1675.040	1641.980	1602.308	1551.616	1500.924	1434.804	1366.480
160	1582.472	1578.064	1564.840	1547.208	1518.556	1485.496	1448.028	1403.948	1355.460	1311.380
165	1419.376	1414.968	1406.152	1395.132	1381.908	1359.868	1335.624	1309.176	1282.728	1249.668
170	1273.912	1271.708	1269.504	1262.892	1258.484	1249.668	1243.056	1229.832	1216.608	1203.384
175	1183.548	1183.548	1183.548	1181.344	1179.140	1179.140	1176.936	1174.732	1172.528	1170.324
180	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896

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	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896	2256.896
5	2241.468	2241.468	2241.468	2241.468	2241.468	2243.672	2243.672	2243.672	2245.876
10	2206.204	2206.204	2206.204	2204.000	2201.796	2201.796	2201.796	2201.796	2204.000
15	2148.900	2144.492	2140.084	2140.084	2140.084	2135.676	2133.472	2133.472	2135.676
20	2065.148	2058.536	2056.332	2049.720	2045.312	2045.312	2040.904	2036.496	2038.700
25	1959.356	1950.540	1941.724	1935.112	1928.500	1924.092	1919.684	1915.276	1917.480
30	1831.524	1820.504	1809.484	1798.464	1789.648	1780.832	1778.628	1769.812	1769.812
35	1683.856	1672.836	1655.204	1639.776	1626.552	1617.736	1608.920	1604.512	1602.308
40	1520.760	1503.128	1483.292	1467.864	1450.232	1434.804	1423.784	1419.376	1421.580
45	1340.032	1320.196	1300.360	1280.524	1262.892	1245.260	1232.036	1225.424	1223.220
50	1161.508	1139.468	1115.224	1093.184	1075.552	1053.512	1038.084	1029.268	1031.472
55	980.780	958.740	930.088	899.232	872.784	848.540	824.296	804.460	804.460
60	802.256	773.604	751.564	727.320	707.484	689.852	674.424	665.608	663.404

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CANDELA TABULATION - (Cont.)

65	641.364	625.936	603.896	579.652	555.408	533.368	517.940	506.920	502.512
70	495.900	484.880	465.044	443.004	418.760	396.720	381.292	368.068	363.660
75	374.680	365.864	348.232	326.192	299.744	277.704	260.072	249.052	244.644
80	271.092	260.072	246.848	227.012	204.972	182.932	167.504	160.892	160.892
85	171.912	163.096	152.076	145.464	123.424	103.588	88.160	72.732	66.120
90	112.404	99.180	85.956	72.732	59.508	44.080	28.652	17.632	8.816
95	156.484	143.260	119.016	101.384	83.752	66.120	55.100	50.692	46.284
100	271.092	238.032	209.380	185.136	169.708	154.280	156.484	147.668	136.648
105	407.740	365.864	321.784	284.316	257.868	242.440	235.828	231.420	227.012
110	570.836	513.532	456.228	405.536	372.476	352.640	341.620	335.008	332.804
115	749.360	674.424	592.876	528.960	484.880	456.228	443.004	434.188	431.984
120	910.252	811.072	718.504	647.976	595.080	559.816	539.980	531.164	531.164
125	1051.308	943.312	837.520	744.952	689.852	652.384	628.140	617.120	614.916
130	1170.324	1051.308	938.904	841.928	775.808	733.932	707.484	694.260	692.056
135	1243.056	1130.652	1018.248	930.088	859.560	808.868	773.604	753.768	749.360
140	1298.156	1187.956	1084.368	996.208	930.088	877.192	848.540	833.112	828.704
145	1320.196	1225.424	1130.652	1051.308	989.596	943.312	912.456	899.232	890.416
150	1320.196	1236.444	1157.100	1095.388	1038.084	1002.820	969.760	958.740	949.924
155	1300.360	1234.240	1174.732	1119.632	1082.164	1049.104	1024.860	1013.840	1005.024
160	1267.300	1218.812	1172.528	1141.672	1113.020	1084.368	1073.348	1064.532	1057.920
165	1221.016	1198.976	1174.732	1152.692	1130.652	1121.836	1113.020	1104.204	1097.592
170	1190.160	1176.936	1161.508	1154.896	1150.488	1143.876	1139.468	1135.060	1128.448
175	1168.120	1165.916	1163.712	1161.508	1159.304	1157.100	1154.896	1152.692	1150.488
180	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896	1154.896

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	819.66	N.A.	7.40
0-30	1723.86	N.A.	15.70
0-40	2777.54	N.A.	25.20
0-60	4662.82	N.A.	42.30
0-80	5637.15	N.A.	51.20
0-90	5818.06	N.A.	52.80
10-90	5604.95	N.A.	50.90
20-40	1957.88	N.A.	17.80
20-50	2988.83	N.A.	27.10
40-70	2491.28	N.A.	22.60
60-80	974.34	N.A.	8.80
70-80	368.33	N.A.	3.30
80-90	180.91	N.A.	1.60
90-110	596.96	N.A.	5.40
90-120	1315.1	N.A.	11.90
90-130	2250.72	N.A.	20.40
90-150	4094.26	N.A.	37.20
90-180	5193.87	N.A.	47.20
110-180	4596.91	N.A.	41.70
0-180	11011.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.10
10-20	606.56
20-30	904.20
30-40	1053.68
40-50	1030.95
50-60	854.33
60-70	606.00
70-80	368.33
80-90	180.91
90-100	171.09
100-110	425.87
110-120	718.14
120-130	935.62
130-140	981.54
140-150	862.01
150-160	629.15
160-170	357.78
170-180	112.67

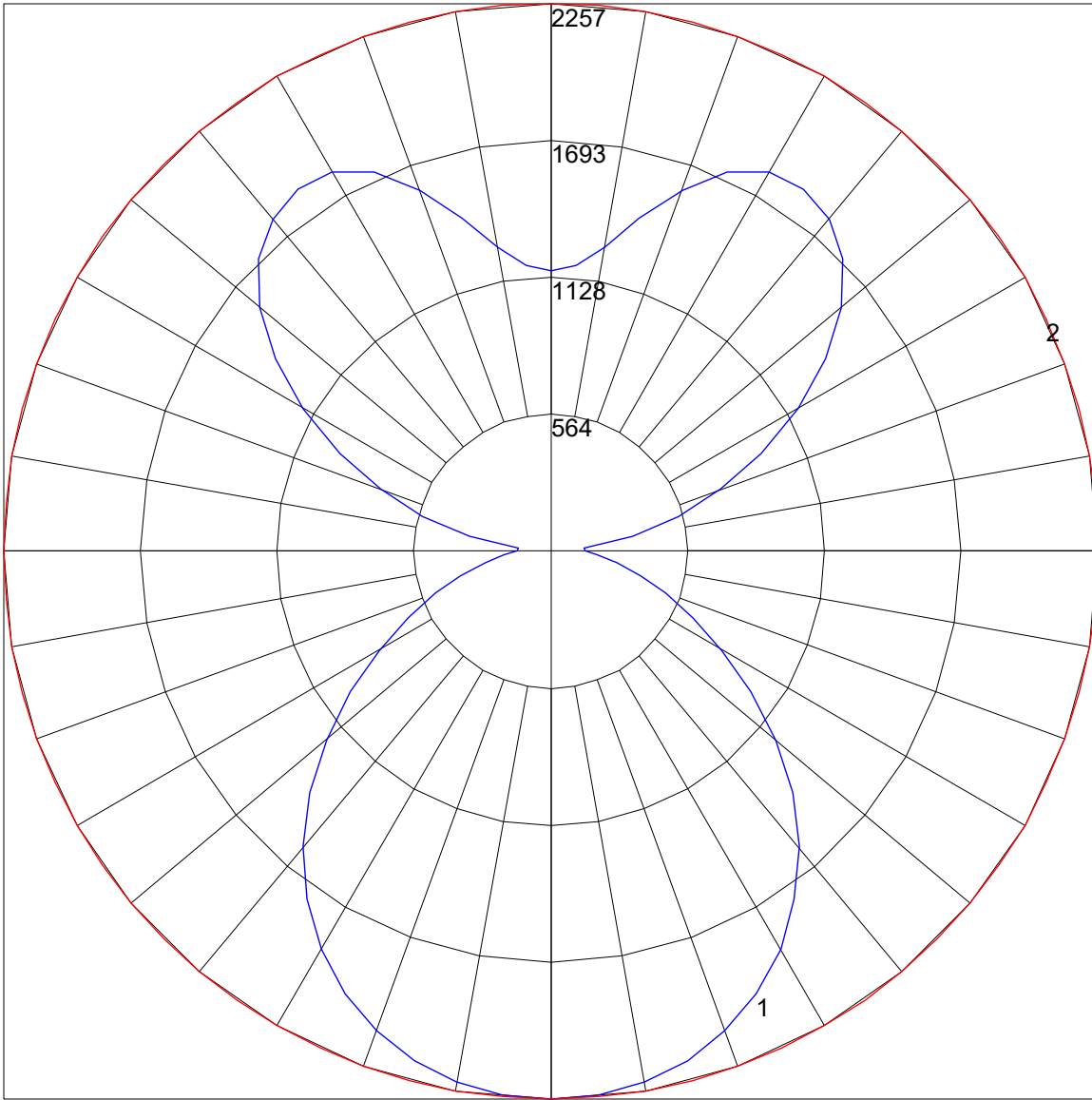
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2256.896 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.)