

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	71	73	75	76
Total Lumens, 4' rail length (1219mm)	6935	7154	7300	7373
Lumens per foot (305mm)	1734	1788	1825	1843
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	517	534	545	550
Input Power (W), 4' rail length (1219mm)	98.1	98.1	98.1	98.1
Watts per foot (305mm)	24.6	24.6	24.6	24.6
CRI	94	94	94	94

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_DB_HO_359_G1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911509 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-359-G1S1-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] 40° symmetric lens down, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	98.12
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2902	6112	35213
55	1669	3254	24276
65	1014	1803	16855
75	545	891	11244
85	15	110	4905

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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>
0.0	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486
1.0	1707.815	1716.973	1720.317	1735.042	1745.074	1750.888	1745.397	1749.691	1753.111	1756.778
3.0	1686.630	1689.974	1690.601	1719.994	1737.113	1743.877	1739.412	1743.003	1747.544	1751.439
5.0	1644.260	1639.491	1664.172	1683.761	1709.240	1715.776	1714.579	1720.944	1727.879	1732.420
7.0	1585.816	1573.618	1599.990	1629.535	1655.888	1666.395	1674.356	1682.488	1691.646	1699.835
9.0	1515.725	1498.853	1529.120	1571.946	1603.239	1614.563	1624.918	1636.299	1649.675	1662.823
11.0	1430.681	1406.950	1441.986	1487.776	1518.119	1539.551	1553.801	1569.324	1586.766	1604.284
13.0	1329.544	1298.574	1318.809	1371.686	1422.169	1452.816	1470.505	1492.640	1513.502	1537.556
15.0	1259.624	1228.103	1289.017	1344.687	1361.236	1382.592	1405.848	1432.030	1460.302	1489.372
17.0	1136.846	1137.473	1165.593	1234.316	1256.679	1281.607	1307.656	1337.828	1372.237	1407.520
19.5	999.400	986.252	1027.425	1086.914	1120.753	1147.828	1179.121	1214.955	1254.380	1296.503
22.5	842.365	841.396	872.214	928.359	956.156	986.575	1022.010	1061.188	1107.054	1156.663
25.5	695.039	701.328	721.791	769.405	803.016	833.986	870.390	913.311	961.723	1015.246
29.0	558.543	543.172	574.161	617.633	643.359	672.657	708.016	750.386	799.824	854.373
33.0	420.774	412.110	431.528	471.428	494.513	520.486	551.608	589.912	636.272	687.306
37.5	312.949	312.170	325.850	350.303	367.498	387.980	413.383	445.227	484.405	528.675
42.5	231.724	226.157	238.982	256.025	269.230	284.202	302.841	326.971	356.364	391.229
47.5	178.543	174.800	183.483	195.187	203.851	214.054	227.278	244.473	266.057	291.536
55.0	126.464	124.393	128.687	134.349	138.643	144.780	152.266	162.127	174.724	190.570
65.0	79.629	79.800	80.750	82.745	84.968	87.362	90.706	94.924	100.415	107.274
75.0	42.997	42.598	43.244	43.871	44.517	45.391	46.512	47.861	49.856	52.231
85.0	1.121	1.197	1.197	1.425	1.672	2.071	2.717	3.420	4.389	6.137
90.0	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
95.0	43.168	53.105	50.103	51.243	52.972	55.879	57.323	68.837	75.411	80.484
100.0	166.744	175.009	179.132	187.663	198.645	210.349	223.839	235.239	250.477	251.807
105.0	400.235	372.799	398.962	409.412	421.344	440.838	455.620	468.084	479.883	476.862
110.0	746.168	721.620	724.090	739.860	765.358	766.726	793.269	773.718	754.148	707.313
115.0	1193.542	1188.640	1146.536	1124.857	1114.673	1108.479	1078.079	1035.424	981.293	914.280
120.0	1518.917	1509.417	1488.498	1449.149	1413.011	1362.452	1308.777	1247.863	1154.098	1055.925
125.0	1730.577	1719.519	1693.850	1661.417	1620.871	1544.377	1475.350	1375.334	1275.090	1162.211
130.0	1821.055	1811.289	1783.302	1740.951	1689.366	1620.700	1533.471	1438.832	1330.589	1219.306
135.0	1820.086	1811.859	1785.696	1744.523	1687.580	1621.593	1538.183	1451.714	1351.755	1251.929
140.0	1761.167	1752.769	1729.038	1692.140	1643.101	1582.149	1510.139	1431.745	1347.917	1261.771
145.0	1668.143	1660.657	1641.695	1612.378	1570.825	1520.247	1461.271	1394.296	1324.813	1253.924
150.0	1559.843	1553.079	1539.209	1515.307	1483.425	1443.145	1395.797	1344.440	1292.000	1234.981
155.0	1447.401	1442.480	1433.303	1415.025	1391.959	1362.452	1327.739	1290.461	1251.739	1212.561
160.0	1341.647	1339.044	1331.520	1321.203	1304.787	1286.072	1264.564	1238.705	1211.573	1187.272
165.0	1251.036	1249.117	1244.367	1238.762	1231.162	1219.819	1207.222	1193.447	1178.608	1161.432
170.0	1183.339	1182.294	1179.995	1177.430	1174.257	1170.533	1166.258	1159.494	1152.483	1145.168
175.0	1142.736	1142.242	1141.843	1140.646	1139.753	1138.784	1137.739	1136.618	1135.440	1134.205
180.0	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

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>
0.0	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486	1755.486
1.0	1758.925	1760.844	1767.209	1768.558	1772.073	1772.700	1773.574	1772.472	1772.947
3.0	1754.080	1756.778	1761.319	1762.269	1773.194	1770.724	1771.427	1771.750	1772.149
5.0	1737.265	1742.927	1747.620	1751.914	1758.222	1760.768	1762.991	1768.007	1764.036
7.0	1708.518	1716.878	1725.162	1731.546	1742.756	1747.468	1751.363	1753.282	1755.904
9.0	1676.199	1688.131	1698.486	1709.487	1719.196	1726.758	1734.320	1739.507	1747.145
11.0	1622.277	1639.719	1656.363	1672.684	1684.084	1695.541	1707.093	1715.852	1723.414
13.0	1561.116	1584.144	1606.108	1628.965	1645.457	1660.030	1677.149	1684.388	1694.116
15.0	1520.665	1548.139	1576.164	1600.066	1621.802	1639.320	1651.100	1657.636	1660.980

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CANDELA TABULATION - (Cont.)

17.0	1443.981	1478.219	1511.583	1544.244	1570.768	1588.989	1606.279	1617.584	1621.479
19.5	1340.545	1381.794	1423.195	1464.843	1498.454	1525.757	1544.073	1557.145	1562.712
22.5	1208.590	1258.275	1309.252	1359.165	1399.711	1434.747	1459.751	1474.324	1480.385
25.5	1072.664	1128.163	1186.132	1242.353	1291.563	1332.888	1359.887	1379.400	1386.240
29.0	914.584	974.947	1038.578	1098.941	1153.243	1201.180	1231.523	1255.102	1263.139
33.0	747.042	806.037	870.219	934.648	992.617	1033.866	1075.039	1100.841	1110.569
37.5	581.077	634.904	693.690	754.756	811.376	860.985	899.612	924.217	930.905
42.5	431.205	477.242	526.376	579.880	630.686	675.450	710.239	731.025	739.784
47.5	321.233	357.637	396.492	438.862	480.111	518.339	547.162	565.307	573.040
55.0	207.917	229.501	254.505	281.352	308.427	334.305	356.117	369.664	375.231
65.0	115.786	125.818	137.522	150.822	164.521	177.745	188.898	196.460	198.930
75.0	55.347	59.166	63.555	68.723	73.891	79.230	83.695	86.488	87.590
85.0	8.683	11.552	13.927	14.972	15.694	16.397	17.043	17.290	17.366
90.0	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
95.0	81.681	101.061	98.705	79.211	73.682	74.176	72.713	70.015	71.516
100.0	251.408	250.363	231.876	206.549	189.297	174.021	160.341	155.116	155.762
105.0	463.771	427.709	385.928	336.661	299.782	272.403	252.757	242.801	241.281
110.0	642.295	583.946	520.182	454.727	405.517	372.438	348.536	336.452	335.901
115.0	825.873	728.137	640.414	565.079	507.756	468.521	441.484	427.063	425.885
120.0	950.836	839.458	742.976	665.627	603.497	561.089	535.192	518.491	511.727
125.0	1042.416	931.855	833.929	752.894	687.990	643.454	616.683	600.495	592.477
130.0	1108.574	1005.119	912.570	832.865	768.398	720.005	687.401	666.729	651.244
135.0	1151.267	1058.015	972.173	900.866	841.643	796.689	766.992	748.524	740.905
140.0	1174.960	1095.768	1021.478	955.510	903.925	861.536	833.226	815.974	807.956
145.0	1184.289	1118.492	1057.103	1001.984	956.897	921.443	894.862	880.954	872.936
150.0	1181.439	1129.911	1079.998	1038.901	1000.255	974.320	950.532	940.728	934.097
155.0	1172.452	1134.072	1098.941	1064.722	1040.079	1018.286	1002.022	993.567	987.449
160.0	1161.603	1134.471	1108.251	1089.498	1071.410	1054.006	1046.387	1039.927	1035.063
165.0	1145.491	1132.419	1119.328	1106.332	1093.507	1087.674	1082.810	1078.383	1074.887
170.0	1137.625	1129.930	1122.311	1118.663	1115.319	1112.203	1109.334	1106.636	1104.356
175.0	1132.932	1131.621	1130.272	1128.923	1127.574	1126.225	1124.857	1123.584	1122.349
180.0	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.33	N.A.	7.50
0-30	1008.45	N.A.	13.80
0-40	1376.82	N.A.	18.90
0-60	1882.64	N.A.	25.80
0-80	2137.77	N.A.	29.30
0-90	2178.54	N.A.	29.80
10-90	2046.81	N.A.	28.00
20-40	829.50	N.A.	11.40
20-50	1158.25	N.A.	15.90
40-70	667.83	N.A.	9.10
60-80	255.13	N.A.	3.50
70-80	93.12	N.A.	1.30
80-90	40.77	N.A.	0.60
90-110	513.74	N.A.	7.00
90-120	1333.11	N.A.	18.30
90-130	2355.04	N.A.	32.30
90-150	4120.00	N.A.	56.40
90-180	5122.00	N.A.	70.20
110-180	4608.27	N.A.	63.10
0-180	7300.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.74
10-20	415.59
20-30	461.12
30-40	368.38
40-50	328.75
50-60	177.07
60-70	162.01
70-80	93.12
80-90	40.77
90-100	96.28
100-110	417.46
110-120	819.37
120-130	1021.93
130-140	973.35
140-150	791.62
150-160	562.84
160-170	330.61
170-180	108.55

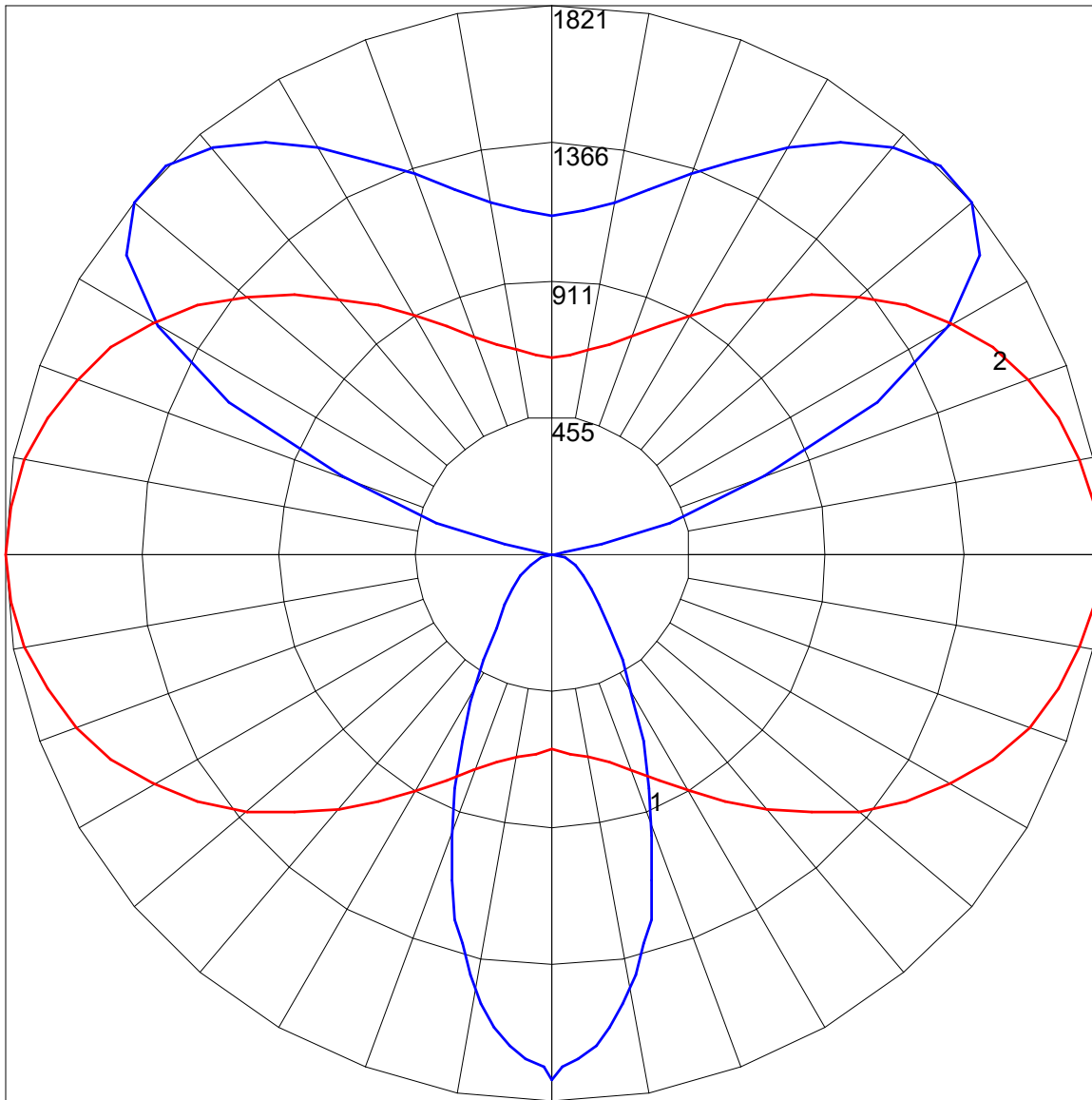
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 1821.055 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)