

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 120° FlyWing™, down | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	101	104	106	107
Total Lumens, 4' rail length (1219mm)	9859	10170	10378	10482
Lumens per foot (305mm)	2465	2543	2594	2620
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	1246	1285	1311	1324
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_G1G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911505 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-359-G1G2-AL

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

[MORE] flywing 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	10370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	98.12
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)	0.07 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	22307	24998	49460
55	15976	18513	45771
65	8490	11054	42791
75	2953	4586	34943
85	189	477	13809

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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	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816
5	1749.691	1748.418	1748.266	1746.746	1746.347	1744.599	1743.326	1741.407	1738.937	1737.037
10	1782.827	1781.782	1779.160	1776.690	1772.149	1765.860	1760.293	1752.959	1744.922	1736.068
15	1822.632	1820.808	1817.692	1811.498	1803.043	1792.460	1779.711	1765.461	1748.095	1731.375
20	1846.534	1844.938	1839.998	1832.512	1821.682	1807.356	1789.439	1769.052	1744.523	1718.474
25	1848.605	1847.484	1841.822	1832.911	1819.136	1803.518	1782.105	1756.056	1726.359	1691.722
30	1824.551	1824.304	1819.136	1809.427	1795.329	1776.443	1754.080	1725.333	1689.499	1649.200
35	1775.968	1774.372	1768.406	1758.051	1744.675	1726.036	1702.305	1671.183	1634.456	1588.590
40	1694.420	1692.748	1687.333	1678.099	1664.400	1646.578	1623.626	1592.656	1552.452	1506.168
45	1577.057	1576.088	1571.072	1564.061	1552.205	1536.435	1513.255	1483.558	1444.456	1396.196
50	1417.628	1416.754	1413.809	1408.223	1399.787	1387.285	1367.943	1340.773	1303.115	1257.249
55	1210.414	1210.015	1208.837	1207.868	1204.372	1196.639	1182.066	1160.577	1126.814	1084.197
60	949.696	950.342	953.211	956.308	958.550	958.151	951.767	938.315	914.432	880.422
65	666.691	667.717	671.707	677.445	684.133	689.624	691.847	688.503	677.122	657.685
70	415.682	416.879	420.945	427.158	434.796	443.479	450.091	453.758	452.561	445.873
75	233.016	233.643	236.189	240.578	246.221	252.757	258.970	264.214	267.406	268.850
80	98.420	98.990	100.662	103.531	107.578	112.518	117.857	123.120	128.288	132.829
85	14.497	14.497	14.725	14.972	15.694	16.492	17.841	19.912	22.933	26.676
90	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
95	43.168	53.105	50.103	51.243	52.972	55.879	57.323	68.837	75.411	80.484
100	166.744	175.009	179.132	187.663	198.645	210.349	223.839	235.239	250.477	251.807
105	400.235	372.799	398.962	409.412	421.344	440.838	455.620	468.084	479.883	476.862
110	746.168	721.620	724.090	739.860	765.358	766.726	793.269	773.718	754.148	707.313
115	1193.542	1188.640	1146.536	1124.857	1114.673	1108.479	1078.079	1035.424	981.293	914.280
120	1518.917	1509.417	1488.498	1449.149	1413.011	1362.452	1308.777	1247.863	1154.098	1055.925
125	1730.577	1719.519	1693.850	1661.417	1620.871	1544.377	1475.350	1375.334	1275.090	1162.211
130	1821.055	1811.289	1783.302	1740.951	1689.366	1620.700	1533.471	1438.832	1330.589	1219.306
135	1820.086	1811.859	1785.696	1744.523	1687.580	1621.593	1538.183	1451.714	1351.755	1251.929
140	1761.167	1752.769	1729.038	1692.140	1643.101	1582.149	1510.139	1431.745	1347.917	1261.771
145	1668.143	1660.657	1641.695	1612.378	1570.825	1520.247	1461.271	1394.296	1324.813	1253.924
150	1559.843	1553.079	1539.209	1515.307	1483.425	1443.145	1395.797	1344.440	1292.000	1234.981
155	1447.401	1442.480	1433.303	1415.025	1391.959	1362.452	1327.739	1290.461	1251.739	1212.561
160	1341.647	1339.044	1331.520	1321.203	1304.787	1286.072	1264.564	1238.705	1211.573	1187.272
165	1251.036	1249.117	1244.367	1238.762	1231.162	1219.819	1207.222	1193.447	1178.608	1161.432
170	1183.339	1182.294	1179.995	1177.430	1174.257	1170.533	1166.258	1159.494	1152.483	1145.168
175	1142.736	1142.242	1141.843	1140.646	1139.753	1138.784	1137.739	1136.618	1135.440	1134.205
180	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	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816	1737.816
5	1735.593	1733.769	1731.622	1730.653	1729.779	1728.031	1727.005	1726.530	1725.808
10	1727.309	1719.044	1711.159	1704.072	1697.536	1691.722	1688.055	1685.509	1683.913
15	1713.933	1694.040	1676.674	1660.581	1645.457	1632.480	1623.949	1618.458	1615.589
20	1690.525	1658.833	1630.732	1600.864	1575.461	1553.725	1536.682	1526.080	1522.261
25	1653.266	1613.442	1570.673	1530.070	1492.241	1458.877	1433.550	1418.179	1411.263
30	1603.334	1553.231	1498.454	1445.976	1395.569	1352.572	1318.809	1298.327	1290.214
35	1535.314	1476.471	1414.607	1349.057	1289.492	1238.857	1198.710	1174.276	1165.346
40	1447.401	1382.117	1313.299	1242.429	1176.100	1117.808	1075.837	1049.560	1040.326
45	1336.004	1268.706	1197.760	1123.470	1056.571	999.552	956.631	931.076	921.994
50	1197.760	1131.431	1063.107	993.586	933.451	880.498	842.593	818.938	811.148
55	1029.971	970.653	911.791	854.069	805.011	763.040	733.267	713.906	707.465
60	837.976	791.236	747.270	706.819	673.056	644.784	624.967	612.617	607.753

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CANDELA TABULATION - (Cont.)

65	631.731	604.409	579.481	557.194	539.201	524.457	514.026	507.110	505.039
70	436.316	425.885	416.879	409.545	403.579	399.912	396.492	394.022	393.072
75	269.477	269.629	269.629	270.199	271.073	272.099	272.593	272.498	272.194
80	136.895	140.562	143.507	145.882	147.953	149.321	150.271	150.898	150.822
85	32.015	37.658	42.370	45.790	47.785	48.659	48.887	49.058	48.887
90	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
95	81.681	101.061	98.705	79.211	73.682	74.176	72.713	70.015	71.516
100	251.408	250.363	231.876	206.549	189.297	174.021	160.341	155.116	155.762
105	463.771	427.709	385.928	336.661	299.782	272.403	252.757	242.801	241.281
110	642.295	583.946	520.182	454.727	405.517	372.438	348.536	336.452	335.901
115	825.873	728.137	640.414	565.079	507.756	468.521	441.484	427.063	425.885
120	950.836	839.458	742.976	665.627	603.497	561.089	535.192	518.491	511.727
125	1042.416	931.855	833.929	752.894	687.990	643.454	616.683	600.495	592.477
130	1108.574	1005.119	912.570	832.865	768.398	720.005	687.401	666.729	651.244
135	1151.267	1058.015	972.173	900.866	841.643	796.689	766.992	748.524	740.905
140	1174.960	1095.768	1021.478	955.510	903.925	861.536	833.226	815.974	807.956
145	1184.289	1118.492	1057.103	1001.984	956.897	921.443	894.862	880.954	872.936
150	1181.439	1129.911	1079.998	1038.901	1000.255	974.320	950.532	940.728	934.097
155	1172.452	1134.072	1098.941	1064.722	1040.079	1018.286	1002.022	993.567	987.449
160	1161.603	1134.471	1108.251	1089.498	1071.410	1054.006	1046.387	1039.927	1035.063
165	1145.491	1132.419	1119.328	1106.332	1093.507	1087.674	1082.810	1078.383	1074.887
170	1137.625	1129.930	1122.311	1118.663	1115.319	1112.203	1109.334	1106.636	1104.356
175	1132.932	1131.621	1130.272	1128.923	1127.574	1126.225	1124.857	1123.584	1122.349
180	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	653.43	N.A.	6.30
0-30	1419.27	N.A.	13.70
0-40	2374.86	N.A.	22.90
0-60	4294.88	N.A.	41.40
0-80	5193.64	N.A.	50.10
0-90	5247.73	N.A.	50.60
10-90	5081.96	N.A.	49.00
20-40	1721.43	N.A.	16.60
20-50	2736.83	N.A.	26.40
40-70	2535.75	N.A.	24.50
60-80	898.77	N.A.	8.70
70-80	283.03	N.A.	2.70
80-90	54.09	N.A.	0.50
90-110	513.74	N.A.	5.00
90-120	1333.11	N.A.	12.90
90-130	2355.04	N.A.	22.70
90-150	4120.00	N.A.	39.70
90-180	5122.00	N.A.	49.40
110-180	4608.27	N.A.	44.40
0-180	10369.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.77
10-20	487.66
20-30	765.85
30-40	955.59
40-50	1015.4
50-60	904.62
60-70	615.73
70-80	283.03
80-90	54.09
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

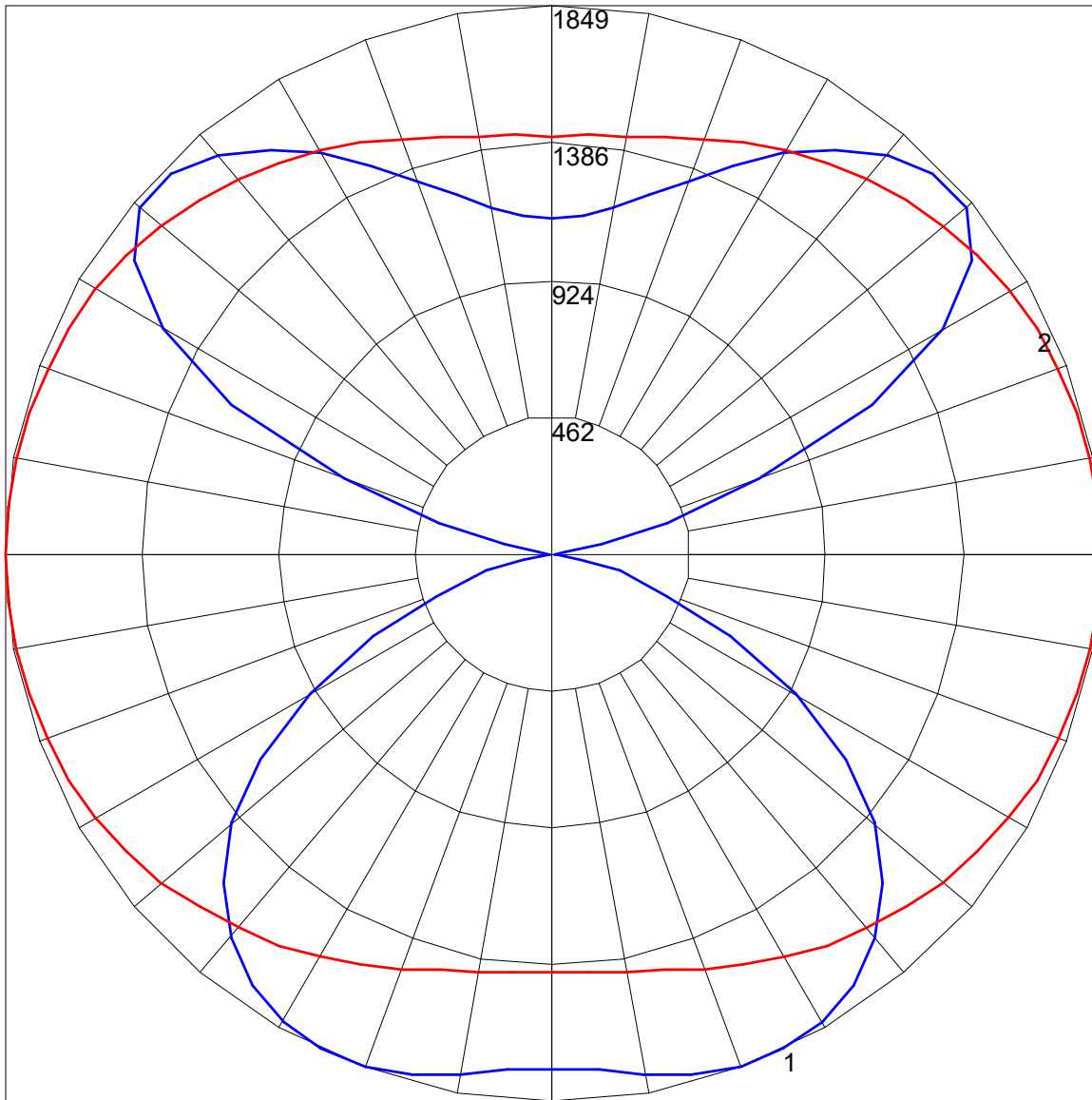
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	90	87	83	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	37	58	47	40	34	40	35	30	34	30	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	33	28	49	38	31	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 1848.605 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)