

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 60° Symmetric, down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	71	72
Total Lumens, 4' rail length (1219mm)	6614	6822	6962	7031
Lumens per foot (305mm)	1653	1706	1740	1758
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	437	451	460	465
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_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (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-G1S2-BL

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

[MORE] 60° symmetric lens down, high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6962
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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	2001	4197	28412
55	708	1590	16085
65	288	659	9123
75	113	258	5215
85	2	31	2072

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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	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586
1.0	1639.472	1651.271	1650.074	1661.930	1698.163	1719.272	1733.446	1742.376	1749.216	1761.471
3.0	1646.483	1655.964	1655.337	1671.810	1703.673	1721.495	1732.648	1744.523	1759.894	1773.422
5.0	1641.714	1647.452	1648.725	1661.379	1692.045	1709.240	1719.348	1735.669	1755.752	1768.558
7.0	1596.000	1599.021	1603.011	1613.594	1651.024	1667.592	1675.401	1689.651	1708.214	1734.719
9.0	1540.577	1542.401	1546.866	1558.342	1597.045	1611.694	1625.469	1645.286	1679.543	1699.930
11.0	1469.707	1468.035	1473.526	1481.487	1518.290	1536.682	1545.840	1569.248	1614.962	1644.982
13.0	1381.471	1377.652	1382.668	1390.629	1424.316	1444.532	1458.630	1491.120	1539.152	1576.259
15.0	1292.133	1287.820	1294.907	1301.120	1331.311	1353.921	1373.586	1424.240	1470.980	1512.077
17.0	1193.694	1186.132	1195.043	1202.453	1228.806	1248.319	1267.680	1311.950	1364.352	1414.512
19.5	1062.309	1053.379	1063.810	1067.002	1092.158	1110.322	1142.166	1199.584	1256.451	1308.682
22.5	898.890	887.984	896.515	893.646	913.938	938.068	967.613	1019.388	1084.596	1143.363
25.5	749.512	737.086	748.144	755.402	767.429	790.286	824.353	876.926	937.992	1000.977
29.0	581.001	570.019	578.854	571.691	582.521	603.459	637.070	682.613	743.926	807.006
33.0	418.703	408.747	418.475	427.310	431.129	439.964	466.963	507.262	559.987	615.239
37.5	278.711	272.023	279.680	274.569	280.459	294.082	317.661	351.348	392.274	439.964
42.5	174.724	169.689	174.401	179.246	180.614	184.756	199.956	221.540	250.135	285.000
47.5	108.148	105.279	108.148	110.295	111.416	115.235	125.495	140.239	160.626	183.863
55.0	53.675	52.326	53.751	53.827	54.948	57.494	62.662	70.072	80.978	93.100
65.0	22.610	22.135	22.781	22.933	23.332	24.453	26.600	29.868	34.086	39.178
75.0	8.911	8.835	9.082	9.006	9.234	9.880	10.678	11.628	13.300	15.124
85.0	0.152	0.152	0.152	0.152	0.152	0.323	0.475	0.722	1.197	1.748
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. 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>
0.0	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586	1715.586
1.0	1772.301	1778.761	1786.570	1795.158	1800.098	1804.164	1806.387	1807.584	1809.902
3.0	1780.908	1791.187	1796.925	1801.447	1802.967	1806.634	1808.629	1809.427	1810.377
5.0	1778.685	1783.853	1788.394	1788.546	1792.384	1796.355	1799.775	1802.017	1801.941
7.0	1751.534	1758.298	1762.440	1766.411	1772.149	1776.937	1782.105	1783.853	1784.575
9.0	1716.650	1727.404	1735.042	1740.932	1747.867	1755.657	1760.844	1764.910	1766.411
11.0	1668.238	1682.488	1691.570	1702.552	1714.655	1724.535	1732.173	1736.562	1738.538
13.0	1602.612	1629.212	1643.861	1660.106	1675.078	1687.181	1696.491	1703.179	1706.048
15.0	1541.299	1569.077	1590.262	1611.770	1630.808	1646.806	1659.707	1667.991	1669.416

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CANDELA TABULATION - (Cont.)

17.0	1455.134	1485.781	1515.250	1542.971	1567.101	1586.367	1601.738	1612.321	1615.912
19.5	1351.850	1387.836	1424.639	1459.751	1490.721	1517.397	1536.758	1549.659	1554.903
22.5	1208.438	1255.007	1300.094	1343.813	1383.067	1414.683	1438.965	1455.134	1461.898
25.5	1055.621	1110.721	1164.225	1216.304	1262.094	1299.448	1327.473	1346.188	1353.123
29.0	871.663	932.824	991.914	1054.101	1106.826	1150.925	1184.384	1205.645	1213.131
33.0	676.400	740.430	802.864	864.975	920.151	966.587	1001.870	1025.107	1033.638
37.5	491.739	546.288	604.409	663.024	713.184	764.085	800.470	824.277	833.112
42.5	327.123	372.362	418.950	466.640	513.152	555.750	587.689	608.798	616.683
47.5	213.332	244.872	280.630	318.687	355.490	390.526	417.354	434.796	442.605
55.0	108.946	126.464	146.680	169.784	192.318	213.655	231.895	243.998	248.615
65.0	45.467	52.725	61.237	70.870	80.978	91.105	99.617	105.355	107.673
75.0	17.518	20.235	23.256	26.999	30.666	34.409	37.506	39.824	40.622
85.0	2.869	3.819	4.541	5.263	5.738	6.365	6.935	7.163	7.334
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	551.39	N.A.	7.90
0-30	1003.79	N.A.	14.40
0-40	1339.31	N.A.	19.20
0-60	1706.71	N.A.	24.50
0-80	1824.21	N.A.	26.20
0-90	1839.62	N.A.	26.40
10-90	1706.6	N.A.	24.50
20-40	787.92	N.A.	11.30
20-50	1043.94	N.A.	15.00
40-70	448.60	N.A.	6.40
60-80	117.50	N.A.	1.70
70-80	36.30	N.A.	0.50
80-90	15.41	N.A.	0.20
90-110	513.74	N.A.	7.40
90-120	1333.11	N.A.	19.10
90-130	2355.04	N.A.	33.80
90-150	4120.00	N.A.	59.20
90-180	5122.00	N.A.	73.60
110-180	4608.27	N.A.	66.20
0-180	6961.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.02
10-20	418.37
20-30	452.40
30-40	335.52
40-50	256.02
50-60	111.38
60-70	81.20
70-80	36.30
80-90	15.41
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

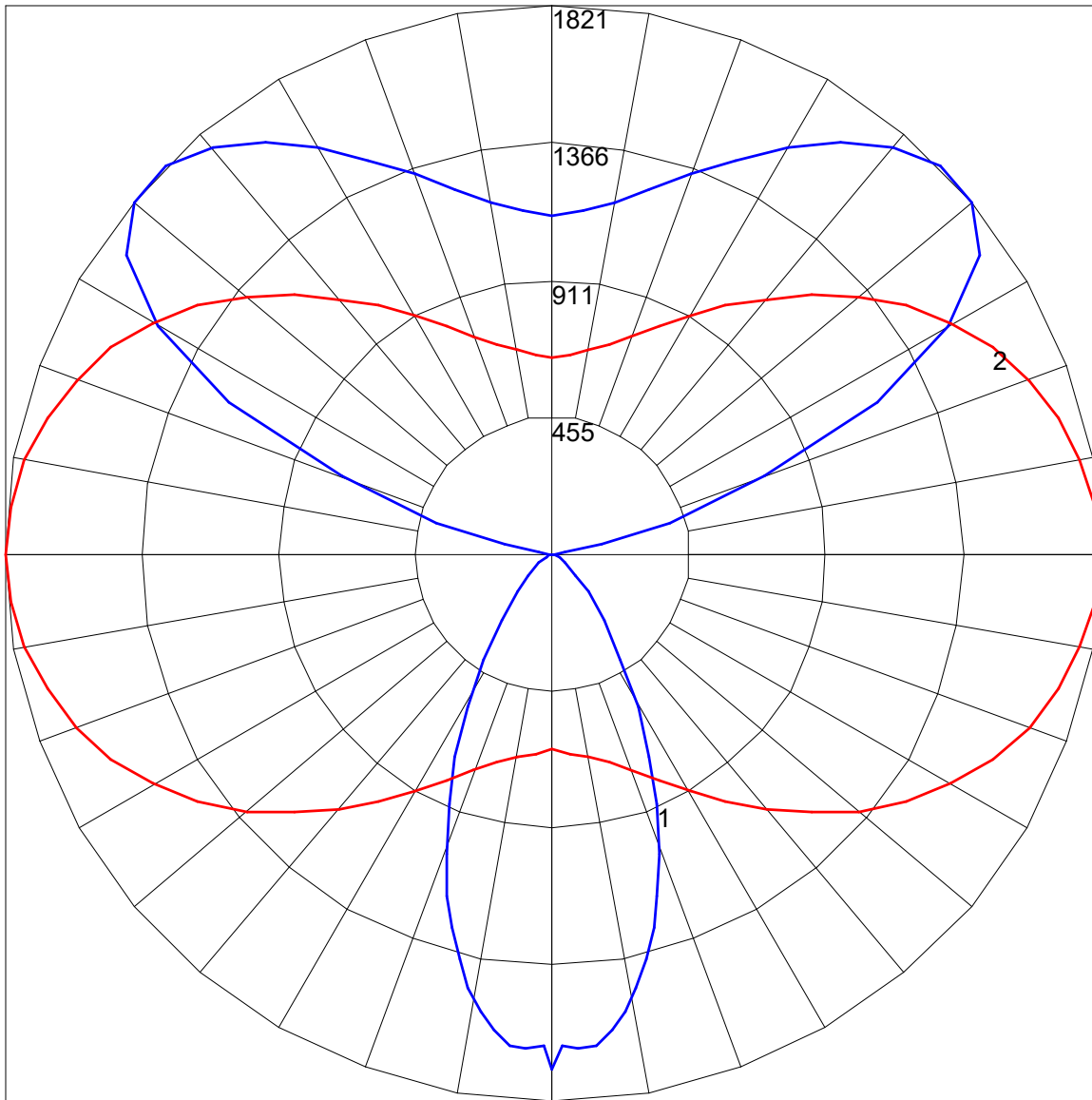
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	35	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	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.)