

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | Black Baffle, down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	70	70
Total Lumens, 4' rail length (1219mm)	6444	6647	6783	6851
Lumens per foot (305mm)	1611	1662	1696	1713
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	394	407	415	419
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\_G1BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911508 (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-G1BB-AL

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

[MORE] black baffle 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	6783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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	565	1755	2307
55	456	403	1030
65	324	169	459
75	196	118	224
85	81	74	91

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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>
<b>0</b>	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184
<b>5</b>	1889.208	1888.258	1884.591	1879.727	1873.210	1864.679	1855.597	1844.691	1834.184	1823.905
<b>10</b>	1873.134	1867.947	1852.899	1829.966	1800.269	1769.679	1740.210	1711.159	1683.438	1658.282
<b>15</b>	1838.250	1827.344	1793.486	1747.069	1697.061	1649.200	1602.365	1554.352	1505.541	1461.499
<b>20</b>	1789.344	1769.527	1712.109	1645.932	1577.931	1509.208	1439.117	1371.686	1308.606	1253.829
<b>25</b>	1726.435	1695.142	1615.988	1532.939	1441.359	1350.653	1266.008	1186.683	1112.393	1041.675
<b>30</b>	1648.554	1603.733	1504.591	1403.131	1289.663	1184.707	1090.410	994.460	891.328	793.535
<b>35</b>	1554.751	1496.858	1379.001	1256.679	1127.992	1014.524	898.662	772.046	642.637	546.212
<b>40</b>	930.905	918.973	917.852	914.584	884.564	803.814	659.034	541.500	410.514	273.144
<b>45</b>	39.976	41.648	45.144	52.554	86.488	139.669	215.878	237.234	143.412	98.021
<b>50</b>	35.834	35.207	33.440	31.464	29.792	28.994	30.571	36.480	45.391	51.604
<b>55</b>	34.561	33.440	30.666	27.626	24.282	21.508	19.589	19.266	20.539	23.579
<b>60</b>	33.288	31.616	28.272	24.605	20.862	17.670	15.618	14.250	13.547	13.699
<b>65</b>	25.479	24.529	22.382	19.988	17.366	15.048	13.376	11.951	10.830	10.032
<b>70</b>	19.912	19.190	17.670	16.093	14.250	12.749	11.305	10.203	9.082	8.208
<b>75</b>	15.447	15.048	14.022	12.977	11.875	10.754	9.633	8.607	7.638	6.935
<b>80</b>	12.426	12.027	11.153	10.355	9.633	8.683	7.885	7.087	6.213	5.567
<b>85</b>	6.213	6.213	5.966	5.814	5.662	5.491	5.263	5.016	4.617	4.142
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	43.168	53.105	50.103	51.243	52.972	55.879	57.323	68.837	75.411	80.484
<b>100</b>	166.744	175.009	179.132	187.663	198.645	210.349	223.839	235.239	250.477	251.807
<b>105</b>	400.235	372.799	398.962	409.412	421.344	440.838	455.620	468.084	479.883	476.862
<b>110</b>	746.168	721.620	724.090	739.860	765.358	766.726	793.269	773.718	754.148	707.313
<b>115</b>	1193.542	1188.640	1146.536	1124.857	1114.673	1108.479	1078.079	1035.424	981.293	914.280
<b>120</b>	1518.917	1509.417	1488.498	1449.149	1413.011	1362.452	1308.777	1247.863	1154.098	1055.925
<b>125</b>	1730.577	1719.519	1693.850	1661.417	1620.871	1544.377	1475.350	1375.334	1275.090	1162.211
<b>130</b>	1821.055	1811.289	1783.302	1740.951	1689.366	1620.700	1533.471	1438.832	1330.589	1219.306
<b>135</b>	1820.086	1811.859	1785.696	1744.523	1687.580	1621.593	1538.183	1451.714	1351.755	1251.929
<b>140</b>	1761.167	1752.769	1729.038	1692.140	1643.101	1582.149	1510.139	1431.745	1347.917	1261.771
<b>145</b>	1668.143	1660.657	1641.695	1612.378	1570.825	1520.247	1461.271	1394.296	1324.813	1253.924
<b>150</b>	1559.843	1553.079	1539.209	1515.307	1483.425	1443.145	1395.797	1344.440	1292.000	1234.981
<b>155</b>	1447.401	1442.480	1433.303	1415.025	1391.959	1362.452	1327.739	1290.461	1251.739	1212.561
<b>160</b>	1341.647	1339.044	1331.520	1321.203	1304.787	1286.072	1264.564	1238.705	1211.573	1187.272
<b>165</b>	1251.036	1249.117	1244.367	1238.762	1231.162	1219.819	1207.222	1193.447	1178.608	1161.432
<b>170</b>	1183.339	1182.294	1179.995	1177.430	1174.257	1170.533	1166.258	1159.494	1152.483	1145.168
<b>175</b>	1142.736	1142.242	1141.843	1140.646	1139.753	1138.784	1137.739	1136.618	1135.440	1134.205
<b>180</b>	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>
<b>0</b>	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184	1891.184
<b>5</b>	1813.569	1804.563	1796.431	1788.869	1782.979	1778.210	1774.543	1772.700	1771.997
<b>10</b>	1633.753	1611.371	1590.984	1573.067	1557.696	1545.669	1536.758	1531.495	1529.899
<b>15</b>	1421.124	1383.865	1352.173	1324.775	1302.640	1285.350	1273.323	1266.084	1263.291
<b>20</b>	1204.049	1157.784	1116.212	1078.953	1046.767	1020.186	1000.103	988.171	983.953
<b>25</b>	969.931	900.657	838.698	785.023	741.380	707.769	683.962	669.636	664.772
<b>30</b>	702.050	623.447	556.795	494.038	439.337	393.794	359.936	339.644	332.234
<b>35</b>	441.256	336.452	243.124	173.280	134.824	114.513	104.329	99.218	97.622
<b>40</b>	159.904	112.043	95.000	85.614	78.603	73.017	69.046	66.576	65.778
<b>45</b>	84.816	75.012	66.253	59.090	53.428	49.134	45.942	43.795	42.997
<b>50</b>	52.003	48.260	43.320	38.551	34.637	31.464	28.994	27.474	26.752
<b>55</b>	26.448	27.398	26.049	23.731	21.508	19.361	17.594	16.397	15.922
<b>60</b>	14.250	14.896	14.972	14.250	13.053	11.875	10.754	9.804	9.234

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	9.633	9.405	9.234	8.759	8.208	7.410	6.536	5.814	5.415
<b>70</b>	7.562	6.935	6.460	5.890	5.339	4.693	4.142	3.496	3.192
<b>75</b>	6.061	5.415	4.864	4.294	3.743	3.192	2.622	2.223	1.748
<b>80</b>	4.864	4.218	3.743	3.192	2.793	2.223	1.824	1.273	0.950
<b>85</b>	3.819	3.268	2.717	2.394	1.919	1.596	1.197	0.722	0.323
<b>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	81.681	101.061	98.705	79.211	73.682	74.176	72.713	70.015	71.516
<b>100</b>	251.408	250.363	231.876	206.549	189.297	174.021	160.341	155.116	155.762
<b>105</b>	463.771	427.709	385.928	336.661	299.782	272.403	252.757	242.801	241.281
<b>110</b>	642.295	583.946	520.182	454.727	405.517	372.438	348.536	336.452	335.901
<b>115</b>	825.873	728.137	640.414	565.079	507.756	468.521	441.484	427.063	425.885
<b>120</b>	950.836	839.458	742.976	665.627	603.497	561.089	535.192	518.491	511.727
<b>125</b>	1042.416	931.855	833.929	752.894	687.990	643.454	616.683	600.495	592.477
<b>130</b>	1108.574	1005.119	912.570	832.865	768.398	720.005	687.401	666.729	651.244
<b>135</b>	1151.267	1058.015	972.173	900.866	841.643	796.689	766.992	748.524	740.905
<b>140</b>	1174.960	1095.768	1021.478	955.510	903.925	861.536	833.226	815.974	807.956
<b>145</b>	1184.289	1118.492	1057.103	1001.984	956.897	921.443	894.862	880.954	872.936
<b>150</b>	1181.439	1129.911	1079.998	1038.901	1000.255	974.320	950.532	940.728	934.097
<b>155</b>	1172.452	1134.072	1098.941	1064.722	1040.079	1018.286	1002.022	993.567	987.449
<b>160</b>	1161.603	1134.471	1108.251	1089.498	1071.410	1054.006	1046.387	1039.927	1035.063
<b>165</b>	1145.491	1132.419	1119.328	1106.332	1093.507	1087.674	1082.810	1078.383	1074.887
<b>170</b>	1137.625	1129.930	1122.311	1118.663	1115.319	1112.203	1109.334	1106.636	1104.356
<b>175</b>	1132.932	1131.621	1130.272	1128.923	1127.574	1126.225	1124.857	1123.584	1122.349
<b>180</b>	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	589.92	N.A.	8.70
0-30	1091.17	N.A.	16.10
0-40	1491.89	N.A.	22.00
0-60	1633.5	N.A.	24.10
0-80	1654.54	N.A.	24.40
0-90	1660.83	N.A.	24.50
10-90	1490.99	N.A.	22.00
20-40	901.97	N.A.	13.30
20-50	1021.12	N.A.	15.10
40-70	154.42	N.A.	2.30
60-80	21.05	N.A.	0.30
70-80	8.24	N.A.	0.10
80-90	6.28	N.A.	0.10
90-110	513.74	N.A.	7.60
90-120	1333.11	N.A.	19.70
90-130	2355.04	N.A.	34.70
90-150	4120.00	N.A.	60.70
90-180	5122.00	N.A.	75.50
110-180	4608.27	N.A.	67.90
0-180	6782.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.83
10-20	420.09
20-30	501.24
30-40	400.72
40-50	119.15
50-60	22.45
60-70	12.81
70-80	8.24
80-90	6.28
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

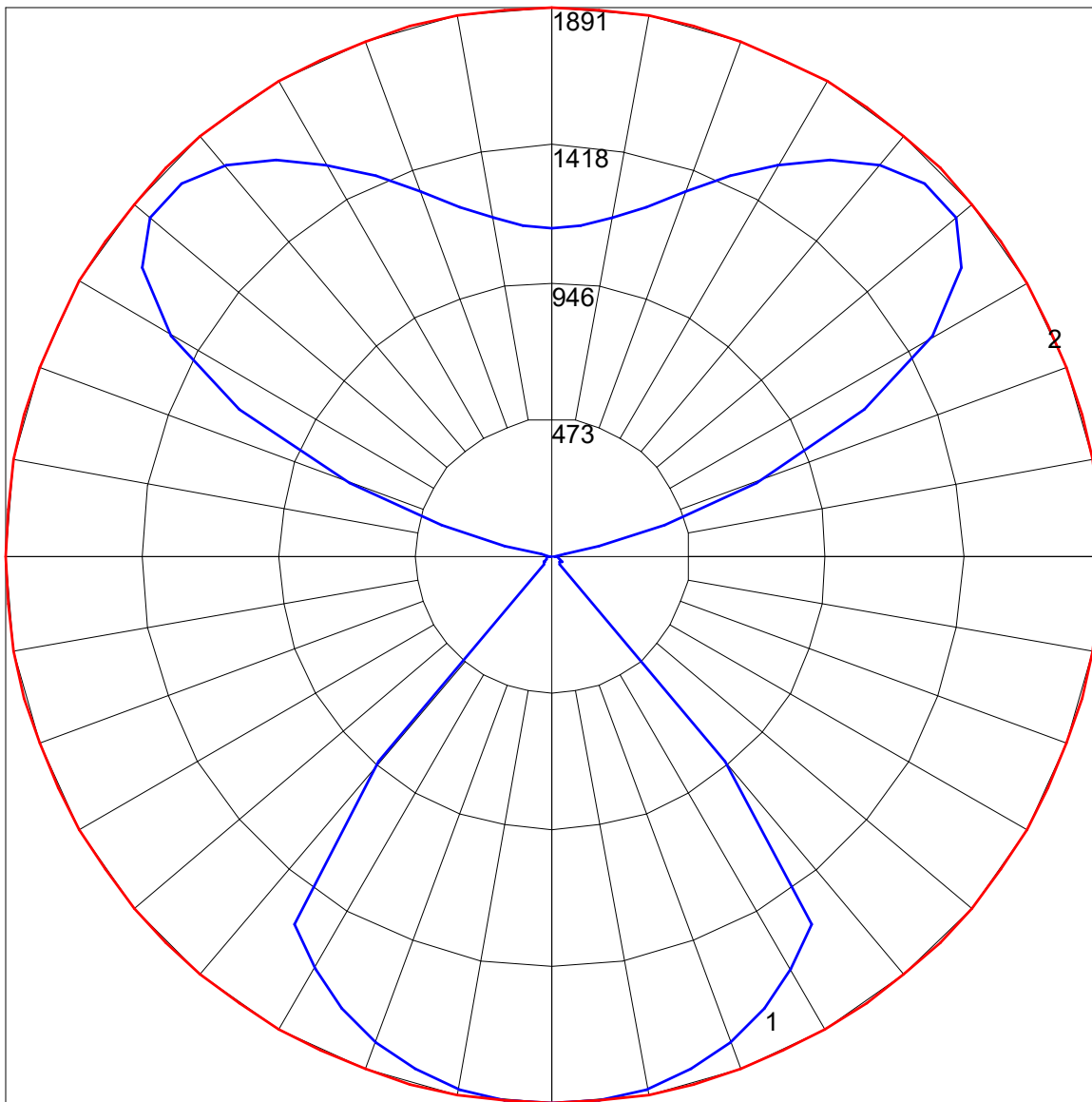
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	30	30	30	23
2	86	79	74	70	76	71	67	63	56	53	50	41	40	38	28	27	27	21
3	79	71	65	60	70	64	59	54	50	47	44	38	36	34	26	25	24	19
4	73	64	57	52	65	57	52	47	46	42	39	35	32	30	24	23	22	18
5	67	57	50	45	60	52	46	41	42	37	34	32	29	27	23	21	20	17
6	63	52	45	40	56	47	41	37	38	34	31	29	27	25	21	20	19	16
7	58	47	40	35	52	43	37	33	35	31	28	27	24	22	20	18	17	14
8	54	43	36	32	49	39	34	29	32	28	25	25	22	20	19	17	16	14
9	51	40	33	29	46	36	31	27	30	26	23	23	21	19	18	16	15	13
10	47	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1891.184 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)