

**IES Report**

**DoubleBox™ | 107 | 120° 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	64	66	68	69
Total Lumens, 4' rail length (1219mm)	6285	6484	6616	6748
Lumens per foot (305mm)	1571	1621	1654	1687
Lumens per foot UP (305mm)	1133	1169	1193	1216
Lumens per foot DOWN (305mm)	438	452	462	471
Input Power (W), 4' rail length (1219mm)	98.44	98.44	98.44	98.44
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	96	96	96	96

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] L011800108 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/12/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DB-48-Z-HO-359-G1S2-BL  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/60° black symmetric 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	6616
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	98.44
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1604	4155	24039
55	634	1638	12319
65	295	677	6576
75	139	286	3708
85	21	54	1619

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>	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710
<b>5</b>	1770.800	1769.470	1768.064	1768.805	1769.014	1769.641	1770.686	1772.149	1774.011	1776.272
<b>10</b>	1608.312	1606.108	1608.255	1611.960	1618.135	1626.704	1637.439	1645.609	1656.249	1669.169
<b>15</b>	1356.980	1354.377	1361.331	1372.237	1387.570	1402.884	1423.461	1449.035	1479.321	1509.246
<b>20</b>	1053.911	1052.277	1065.292	1083.209	1103.691	1132.818	1168.196	1204.011	1247.255	1287.592
<b>25</b>	753.027	755.345	769.709	788.519	816.943	850.155	887.889	933.394	980.552	1034.550
<b>30</b>	495.881	498.636	512.658	534.033	561.545	592.648	627.931	672.828	728.175	782.002
<b>35</b>	309.396	312.854	324.330	343.007	363.318	387.163	414.922	459.743	504.545	554.743
<b>40</b>	188.062	191.121	199.728	211.869	226.157	241.262	267.102	298.053	330.239	375.269
<b>45</b>	115.330	117.743	123.690	130.948	139.080	148.352	168.796	186.333	214.092	238.583
<b>50</b>	73.207	74.651	78.147	82.536	87.229	95.475	106.324	119.244	134.406	154.280
<b>55</b>	48.431	49.305	51.395	54.112	56.430	62.301	67.469	76.608	86.393	97.679
<b>60</b>	33.136	33.782	34.979	36.290	37.867	40.812	44.631	48.621	55.898	63.802
<b>65</b>	23.199	23.560	23.978	24.643	25.916	27.246	29.830	32.604	36.252	40.622
<b>70</b>	16.093	16.169	16.663	17.385	18.335	19.304	20.349	21.622	23.750	26.467
<b>75</b>	10.887	10.868	11.533	12.369	12.673	13.034	13.604	14.288	15.371	16.777
<b>80</b>	4.579	5.624	5.871	6.156	6.308	6.555	6.897	7.524	8.417	9.424
<b>85</b>	1.577	2.489	2.489	2.375	2.318	2.394	2.299	2.432	2.641	3.002
<b>90</b>	1.596	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729
<b>95</b>	63.897	73.948	72.770	75.012	77.748	80.370	83.296	89.927	85.652	83.866
<b>100</b>	251.959	234.251	239.248	240.008	240.331	239.837	237.709	236.759	227.449	217.512
<b>105</b>	443.023	418.741	418.855	420.337	416.822	414.884	410.761	404.168	394.649	376.010
<b>110</b>	646.855	637.944	617.576	611.876	614.194	609.254	604.713	594.833	584.611	552.843
<b>115</b>	862.524	861.289	844.170	829.236	820.458	815.632	803.909	788.310	766.346	731.633
<b>120</b>	1068.104	1065.672	1062.480	1050.833	1036.032	1018.457	1001.471	982.509	944.813	893.475
<b>125</b>	1256.470	1252.993	1248.870	1242.600	1233.461	1212.143	1192.041	1150.849	1106.256	1045.190
<b>130</b>	1417.723	1414.265	1406.494	1395.645	1382.326	1360.685	1328.974	1285.996	1229.623	1156.302
<b>135</b>	1545.194	1542.363	1532.578	1517.872	1498.036	1474.533	1432.581	1389.356	1320.880	1250.409
<b>140</b>	1634.171	1629.877	1617.641	1599.762	1577.076	1549.032	1503.185	1448.655	1385.442	1305.243
<b>145</b>	1679.144	1673.615	1660.600	1641.106	1612.416	1578.729	1538.107	1474.875	1409.363	1334.845
<b>150</b>	1671.563	1665.274	1653.076	1629.991	1600.142	1562.921	1519.924	1465.223	1402.447	1334.370
<b>155</b>	1607.514	1601.396	1590.927	1568.716	1541.223	1506.339	1465.584	1422.435	1368.247	1312.444
<b>160</b>	1499.594	1495.395	1485.078	1470.334	1446.660	1419.794	1389.052	1351.983	1313.052	1275.166
<b>165</b>	1369.596	1366.765	1359.754	1350.805	1338.455	1320.177	1299.866	1277.731	1253.943	1226.640
<b>170</b>	1250.637	1249.117	1245.697	1241.441	1236.064	1229.585	1222.042	1211.136	1199.603	1187.481
<b>175</b>	1170.343	1169.792	1169.184	1167.873	1166.657	1165.289	1163.750	1162.040	1160.216	1158.259
<b>180</b>	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900

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>	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710	1825.710
<b>5</b>	1778.913	1781.877	1785.202	1788.812	1792.688	1796.830	1800.915	1805.646	1810.415
<b>10</b>	1684.255	1701.374	1719.785	1724.820	1730.653	1737.512	1745.302	1753.700	1763.390
<b>15</b>	1535.257	1555.606	1579.242	1605.975	1636.318	1645.001	1654.881	1666.186	1680.569
<b>20</b>	1327.701	1369.634	1414.474	1443.430	1476.756	1514.927	1525.453	1537.651	1555.454
<b>25</b>	1094.723	1146.783	1195.955	1250.713	1287.820	1326.428	1356.239	1366.461	1385.537
<b>30</b>	842.099	905.882	966.777	1020.034	1075.495	1112.317	1155.542	1163.617	1183.111
<b>35</b>	607.050	661.010	729.448	786.258	838.318	878.883	908.371	926.288	947.720
<b>40</b>	418.380	472.036	521.455	568.461	615.923	659.889	683.145	698.763	711.075
<b>45</b>	277.495	313.177	351.253	391.723	429.172	463.790	482.182	494.608	503.291
<b>50</b>	175.921	202.711	229.577	256.728	283.271	304.475	319.409	329.308	332.747
<b>55</b>	113.050	128.174	145.711	165.262	180.899	194.655	206.017	212.876	213.940
<b>60</b>	72.561	81.377	93.727	105.602	115.805	126.255	134.064	134.900	136.781

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	46.474	52.497	59.280	66.139	73.017	78.907	82.289	84.759	87.248
<b>70</b>	29.754	33.782	37.924	41.800	45.866	49.571	51.642	53.409	55.062
<b>75</b>	18.601	20.900	23.351	25.403	27.512	29.488	30.894	31.806	32.509
<b>80</b>	10.241	11.723	12.901	13.737	14.858	15.542	16.150	16.625	16.891
<b>85</b>	3.325	3.648	4.104	4.769	6.023	6.365	6.099	6.346	6.479
<b>90</b>	1.729	1.729	1.653	1.577	1.653	1.577	1.900	1.900	1.577
<b>95</b>	79.249	71.022	63.460	57.152	50.502	46.037	43.776	43.434	44.175
<b>100</b>	203.813	186.542	170.772	156.161	148.409	141.645	138.833	135.660	137.883
<b>105</b>	351.253	323.380	293.531	264.993	243.466	230.413	225.093	221.122	218.671
<b>110</b>	515.071	471.732	425.885	384.560	355.984	338.504	327.085	321.081	319.960
<b>115</b>	680.732	620.122	559.208	506.103	467.476	441.864	425.885	417.772	419.045
<b>120</b>	831.288	755.060	676.381	614.897	572.109	543.134	524.780	513.266	510.074
<b>125</b>	961.495	876.470	792.224	716.642	667.356	633.954	612.408	600.723	596.999
<b>130</b>	1074.298	982.433	895.090	818.197	757.872	717.763	690.346	675.469	674.462
<b>135</b>	1156.967	1066.451	978.253	902.215	840.351	796.309	769.139	752.685	745.788
<b>140</b>	1220.845	1130.614	1046.577	970.881	912.437	865.830	837.539	820.496	812.364
<b>145</b>	1253.981	1175.644	1097.953	1029.477	973.674	931.741	901.740	886.597	877.990
<b>150</b>	1265.324	1196.411	1130.253	1073.766	1021.668	988.285	958.151	946.941	939.037
<b>155</b>	1256.508	1202.016	1150.963	1101.753	1066.280	1034.968	1012.187	1001.490	993.472
<b>160</b>	1235.361	1194.207	1154.782	1126.301	1098.770	1071.771	1060.789	1050.909	1042.853
<b>165</b>	1201.161	1179.938	1158.810	1137.891	1116.782	1108.232	1100.575	1093.374	1087.199
<b>170</b>	1174.846	1161.812	1148.759	1143.078	1137.644	1132.400	1127.384	1122.539	1118.112
<b>175</b>	1156.188	1154.022	1151.780	1149.481	1147.144	1144.769	1142.337	1140.000	1137.682
<b>180</b>	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900	1141.900

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	586.35	N.A.	8.90
0-30	1067.62	N.A.	16.10
0-40	1441.32	N.A.	21.80
0-60	1769.41	N.A.	26.70
0-80	1840.42	N.A.	27.80
0-90	1845.72	N.A.	27.90
10-90	1678.95	N.A.	25.40
20-40	854.97	N.A.	12.90
20-50	1074.85	N.A.	16.20
40-70	377.94	N.A.	5.70
60-80	71.02	N.A.	1.10
70-80	21.17	N.A.	0.30
80-90	5.30	N.A.	0.10
90-110	457.78	N.A.	6.90
90-120	1117.46	N.A.	16.90
90-130	1980.89	N.A.	29.90
90-150	3706.89	N.A.	56.00
90-180	4770.09	N.A.	72.10
110-180	4312.31	N.A.	65.20
0-180	6615.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	166.78
10-20	419.57
20-30	481.26
30-40	373.70
40-50	219.89
50-60	108.21
60-70	49.85
70-80	21.17
80-90	5.30
90-100	91.98
100-110	365.80
110-120	659.68
120-130	863.44
130-140	912.80
140-150	813.19
150-160	602.46
160-170	349.44
170-180	111.30

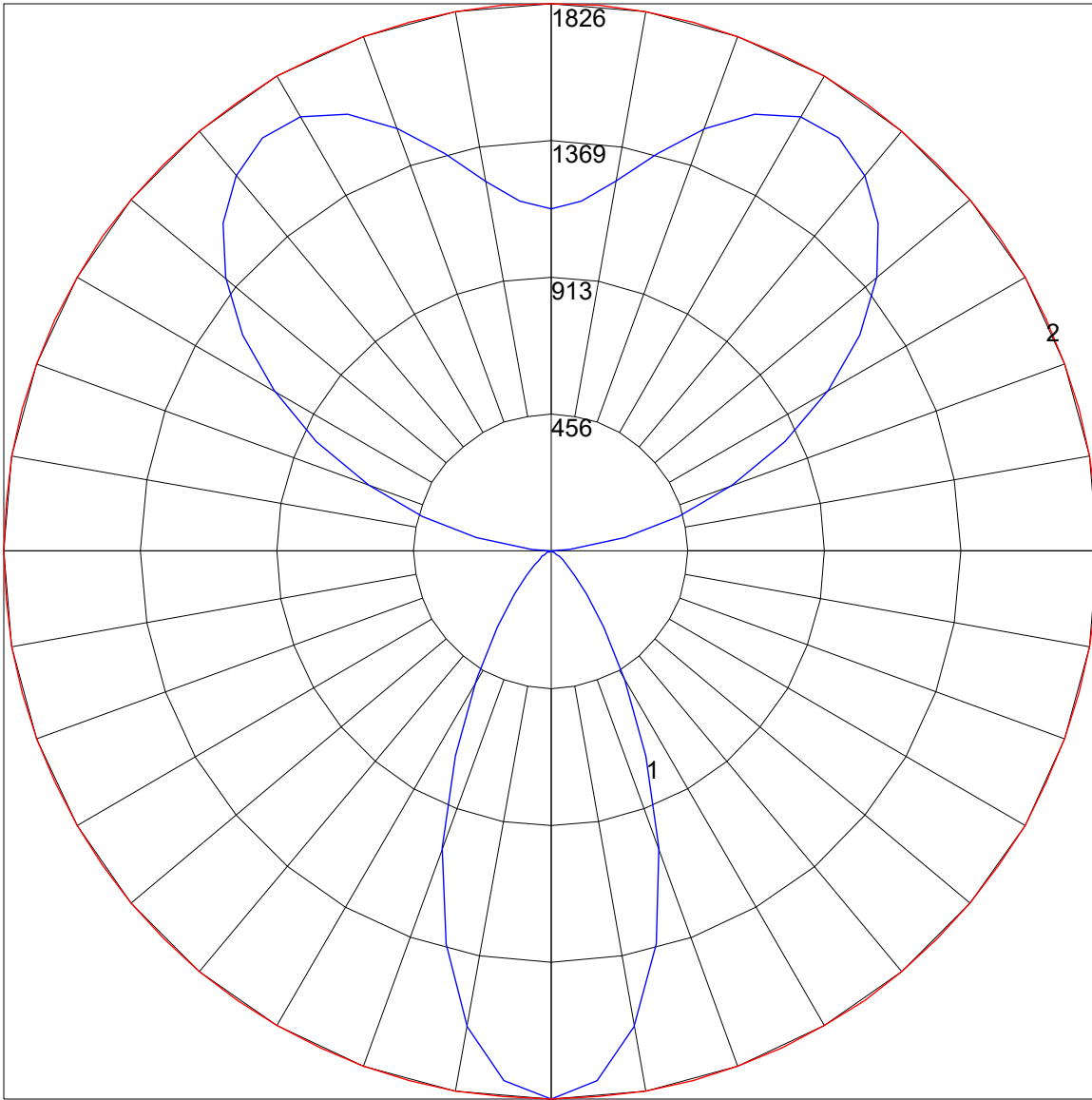
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	71	71	71	53	53	53	36	36	36	28
1	94	90	87	84	84	81	78	76	64	62	60	48	47	46	33	33	32	25
2	86	80	75	70	77	72	67	64	57	54	52	43	41	40	31	30	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	25	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	23	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1825.71 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.)