

IES Report

DoubleBox™ | 107 | 120° 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	64	66	67	69
Total Lumens, 4' rail length (1219mm)	6251	6448	6580	6711
Lumens per foot (305mm)	1563	1612	1645	1678
Lumens per foot UP (305mm)	1219	1257	1283	1309
Lumens per foot DOWN (305mm)	344	355	362	369
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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800102 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-HO-359-G1BB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/black baffle down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6580
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	593	1690	1967
55	461	420	1036
65	301	204	583
75	181	146	451
85	67	83	551

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	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595
5	1826.660	1804.943	1783.378	1762.402	1741.806	1721.856	1702.704	1684.483	1667.326	1651.366
10	1804.411	1760.806	1718.189	1676.427	1636.052	1597.330	1561.838	1534.516	1509.816	1487.054
15	1769.223	1704.661	1641.942	1580.629	1523.876	1480.043	1438.908	1400.832	1366.062	1316.871
20	1719.538	1636.926	1557.164	1482.019	1420.174	1361.977	1300.512	1215.544	1136.523	1064.190
25	1653.893	1552.642	1454.716	1376.569	1304.616	1210.661	1101.183	995.961	933.204	875.843
30	1575.176	1459.751	1352.211	1261.315	1153.699	1024.499	917.681	833.454	751.830	650.199
35	1456.540	1325.535	1210.243	1103.767	944.756	821.693	725.249	615.961	502.930	419.349
40	658.692	608.722	577.923	562.058	545.965	552.767	471.903	378.841	327.693	253.574
45	42.598	65.531	110.618	142.291	140.296	127.984	165.300	153.824	134.672	97.033
50	37.867	37.221	36.119	34.808	33.079	38.836	36.119	41.192	43.358	44.023
55	35.188	34.029	31.901	29.184	26.315	24.415	22.401	22.895	23.845	25.023
60	32.338	30.837	27.968	24.643	21.850	19.380	17.879	16.644	16.378	16.397
65	23.674	23.294	21.945	19.798	18.031	16.454	15.124	13.927	12.939	12.274
70	18.620	17.841	17.138	16.397	15.276	14.155	13.053	11.970	10.982	10.146
75	14.193	13.547	14.079	13.547	12.844	11.875	10.944	10.089	9.272	8.550
80	11.362	11.172	11.115	10.754	10.165	9.519	8.816	8.132	7.467	6.935
85	5.054	5.966	6.061	5.909	5.719	5.586	5.301	5.225	4.902	4.617
90	1.767	1.824	1.824	1.824	1.900	1.824	1.824	1.824	1.729	1.729
95	66.899	83.638	82.726	85.405	88.407	90.516	97.641	97.413	95.133	96.786
100	278.787	258.096	262.732	263.796	264.347	263.587	262.409	260.737	252.396	243.998
105	484.994	458.147	458.907	460.579	459.078	457.159	454.233	448.153	437.608	417.772
110	703.190	693.899	670.396	665.323	668.724	661.903	652.707	652.327	626.791	598.956
115	929.271	929.936	913.159	895.261	886.217	883.063	873.943	857.717	834.613	792.186
120	1148.721	1147.847	1145.396	1133.958	1117.162	1102.171	1086.496	1067.477	1026.779	970.349
125	1351.926	1349.000	1346.036	1339.576	1331.121	1310.221	1293.026	1248.338	1201.541	1136.105
130	1526.574	1523.249	1516.637	1505.446	1492.393	1471.493	1439.744	1395.740	1335.529	1255.102
135	1664.628	1661.645	1652.772	1638.598	1619.066	1595.696	1552.794	1507.916	1433.227	1355.612
140	1763.086	1758.507	1746.917	1729.247	1706.485	1678.764	1630.504	1571.908	1502.216	1410.028
145	1817.502	1811.479	1797.685	1777.013	1746.841	1711.159	1666.680	1596.000	1522.698	1437.369
150	1813.569	1806.349	1792.460	1766.259	1733.028	1692.178	1643.823	1580.591	1508.676	1431.365
155	1740.362	1733.351	1721.362	1695.978	1664.457	1624.785	1578.425	1528.911	1466.591	1402.751
160	1616.501	1611.618	1599.553	1582.320	1554.542	1522.926	1486.826	1443.924	1398.761	1356.467
165	1464.729	1461.366	1453.215	1442.879	1428.629	1407.501	1384.207	1358.994	1332.109	1301.804
170	1328.575	1326.865	1323.103	1318.505	1312.691	1305.737	1297.681	1285.901	1273.475	1260.422
175	1243.702	1243.075	1242.391	1241.004	1239.731	1238.287	1236.691	1234.943	1233.062	1231.048
180	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000

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	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595	1833.595
5	1636.717	1623.493	1611.789	1601.700	1593.321	1586.690	1579.888	1578.501	1578.007
10	1466.420	1448.028	1431.973	1416.089	1402.884	1392.491	1384.986	1379.685	1378.754
15	1266.084	1218.147	1175.397	1138.176	1106.788	1082.430	1065.178	1053.208	1052.163
20	1011.104	973.959	940.880	907.896	881.486	861.555	848.217	839.648	839.800
25	824.296	756.599	689.757	632.738	583.908	545.832	518.149	497.325	493.506
30	552.748	471.694	428.792	392.388	362.520	338.409	321.290	304.361	298.338
35	356.934	301.682	248.558	200.868	159.106	126.160	102.885	88.350	82.992
40	180.215	112.195	86.355	78.185	70.832	65.284	61.864	59.850	59.166
45	76.532	65.170	58.976	54.074	49.799	45.980	43.206	41.572	41.173
50	45.315	42.693	39.767	37.031	34.200	31.407	29.317	27.987	27.455
55	26.695	26.467	25.973	24.662	22.857	21.071	19.589	18.563	17.993
60	16.739	16.682	16.625	16.150	15.181	14.060	13.053	12.236	11.837

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CANDELA TABULATION - (Cont.)

65	11.875	11.476	11.362	10.982	10.298	9.557	8.911	8.189	7.733
70	9.405	8.854	8.474	8.018	7.429	6.935	6.384	5.757	5.529
75	7.809	7.163	6.650	6.156	5.605	5.111	4.617	4.180	3.952
80	6.289	5.681	5.263	4.788	4.294	3.781	3.496	3.154	2.850
85	4.389	4.161	3.895	3.648	3.211	2.869	2.451	2.299	2.204
90	1.729	1.653	1.425	1.425	1.425	1.425	1.102	1.102	1.102
95	88.540	78.603	69.882	62.415	54.549	50.255	48.526	47.785	47.025
100	227.620	204.250	182.856	166.858	155.287	149.720	149.359	148.732	145.616
105	388.227	349.961	310.726	277.381	258.286	248.007	242.345	240.958	242.345
110	559.493	505.704	451.516	406.676	376.770	361.513	355.053	349.201	348.821
115	732.241	652.403	588.069	534.318	494.399	471.637	460.522	454.157	452.333
120	900.258	812.041	720.138	652.726	606.214	577.410	561.773	554.781	555.503
125	1040.364	939.398	841.947	759.924	702.487	665.418	645.563	638.172	635.816
130	1161.907	1052.201	950.665	864.614	799.767	760.684	736.801	724.660	722.114
135	1246.685	1140.437	1037.514	953.705	887.585	842.289	817.399	803.643	798.950
140	1311.912	1206.766	1110.246	1025.867	963.794	915.800	889.542	875.311	870.580
145	1342.920	1251.378	1163.750	1088.320	1029.819	986.955	957.847	943.806	936.529
150	1352.268	1273.361	1198.387	1137.758	1082.810	1049.351	1019.331	1008.197	1000.578
155	1339.063	1277.731	1221.301	1167.417	1130.994	1099.587	1076.920	1066.318	1058.471
160	1312.786	1267.547	1224.132	1194.359	1165.840	1138.157	1127.840	1118.872	1111.804
165	1274.102	1251.663	1229.376	1207.317	1185.125	1176.157	1168.139	1160.577	1154.079
170	1246.856	1232.872	1218.831	1212.846	1207.108	1201.598	1196.335	1191.300	1186.740
175	1228.958	1226.754	1224.493	1222.175	1219.838	1217.463	1215.031	1212.713	1210.414
180	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000	1216.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	529.90	N.A.	8.10
0-30	963.28	N.A.	14.60
0-40	1298.37	N.A.	19.70
0-60	1419.24	N.A.	21.60
0-80	1443.08	N.A.	21.90
0-90	1447.87	N.A.	22.00
10-90	1291.87	N.A.	19.60
20-40	768.47	N.A.	11.70
20-50	865.74	N.A.	13.20
40-70	135.17	N.A.	2.10
60-80	23.84	N.A.	0.40
70-80	9.54	N.A.	0.10
80-90	4.79	N.A.	0.10
90-110	499.70	N.A.	7.60
90-120	1210.8	N.A.	18.40
90-130	2139.8	N.A.	32.50
90-150	3995.67	N.A.	60.70
90-180	5131.69	N.A.	78.00
110-180	4631.99	N.A.	70.40
0-180	6579.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.01
10-20	373.89
20-30	433.38
30-40	335.09
40-50	97.27
50-60	23.61
60-70	14.29
70-80	9.54
80-90	4.79
90-100	101.43
100-110	398.27
110-120	711.10
120-130	929.00
130-140	981.79
140-150	874.08
150-160	645.69
160-170	372.05
170-180	118.28

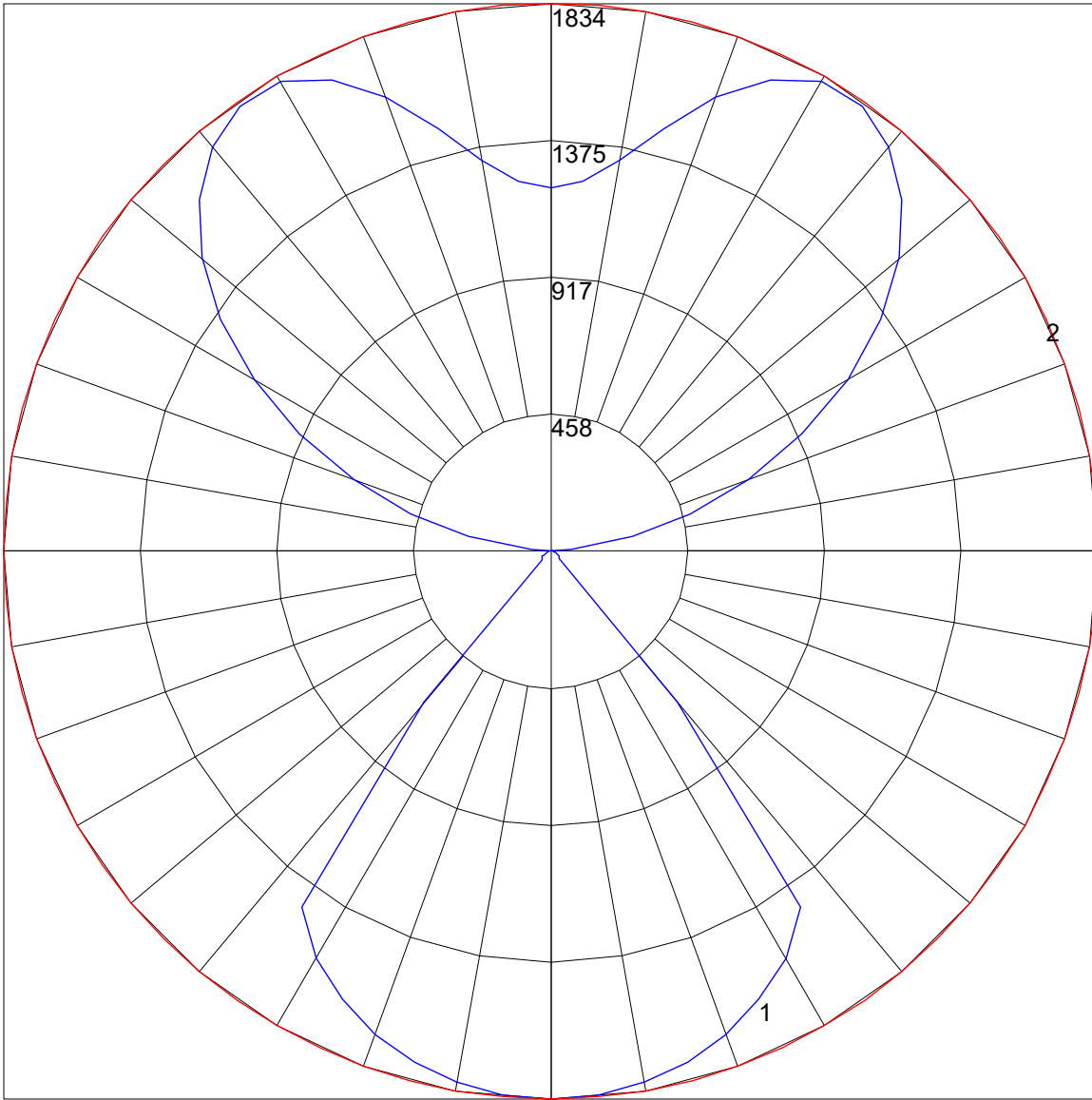
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	89	85	82	82	79	76	74	61	59	57	44	43	42	28	28	27	20
2	85	79	73	69	75	70	66	62	54	52	49	40	38	37	26	25	25	19
3	78	70	64	59	69	63	58	53	49	46	43	36	34	32	24	23	22	17
4	72	63	56	51	64	56	51	46	44	40	37	33	31	29	23	21	21	16
5	67	57	49	44	59	51	45	40	40	36	33	30	28	26	21	20	19	15
6	62	51	44	39	55	46	40	36	37	33	30	28	25	23	20	18	17	14
7	57	47	40	35	51	42	36	32	34	30	26	26	23	21	18	17	16	13
8	53	43	36	31	48	39	33	29	31	27	24	24	21	19	17	16	15	12
9	50	39	32	28	45	35	30	26	29	25	22	22	20	18	16	15	14	11
10	47	36	30	25	42	33	27	23	27	23	20	21	18	16	15	14	13	11

POLAR GRAPH



Maximum Candela = 1833.595 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.)