

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	85
Total Lumens, 4' rail length (1219mm)	7794	8040	8204	8286
Lumens per foot (305mm)	1948	2010	2051	2072
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	732	755	770	778
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911507 (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-G1WB-AL

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

[MORE] white 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	8204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
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	4112	9423	21404
55	2834	4704	16595
65	2129	2523	13040
75	674	972	8537
85	148	170	2683

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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	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500
5	2321.800	2319.900	2318.000	2314.200	2312.300	2306.600	2300.900	2295.200	2291.400	2287.600
10	2299.000	2297.100	2285.700	2274.300	2262.900	2255.300	2242.000	2224.900	2207.800	2185.000
15	2259.100	2251.500	2234.400	2217.300	2196.400	2164.100	2122.300	2080.500	2036.800	1995.000
20	2196.400	2183.100	2162.200	2133.700	2084.300	2021.600	1958.900	1898.100	1843.000	1799.300
25	2107.100	2088.100	2061.500	2006.400	1930.400	1850.600	1776.500	1719.500	1660.600	1586.500
30	2006.400	1985.500	1941.800	1858.200	1761.300	1670.100	1603.600	1504.800	1402.200	1307.200
35	1875.300	1850.600	1786.000	1685.300	1582.700	1501.000	1381.300	1255.900	1147.600	1056.400
40	1238.800	1242.600	1254.000	1271.100	1288.200	1221.700	1119.100	1012.700	875.900	741.000
45	290.700	304.000	334.400	374.300	440.800	552.900	642.200	646.000	577.600	526.300
50	224.200	231.800	245.100	260.300	279.300	304.000	334.400	362.900	378.100	385.700
55	214.700	218.500	226.100	233.700	245.100	258.400	271.700	273.600	273.600	275.500
60	199.500	201.400	199.500	199.500	199.500	203.300	205.200	205.200	205.200	205.200
65	167.200	165.300	159.600	153.900	150.100	148.200	148.200	148.200	148.200	150.100
70	104.500	102.600	102.600	98.800	96.900	95.000	95.000	96.900	96.900	98.800
75	53.200	53.200	53.200	51.300	51.300	51.300	53.200	53.200	55.100	57.000
80	26.600	26.600	24.700	24.700	24.700	24.700	24.700	24.700	24.700	26.600
85	11.400	11.400	11.400	11.400	11.400	11.400	11.400	11.400	9.500	9.500
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	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500	2327.500
5	2283.800	2281.900	2280.000	2278.100	2274.300	2274.300	2272.400	2270.500	2270.500
10	2164.100	2145.100	2126.100	2109.000	2095.700	2084.300	2076.700	2071.000	2069.100
15	1958.900	1924.700	1896.200	1871.500	1854.400	1839.200	1829.700	1825.900	1824.000
20	1761.300	1723.300	1681.500	1637.800	1603.600	1573.200	1552.300	1539.000	1535.200
25	1508.600	1438.300	1377.500	1324.300	1286.300	1255.900	1235.000	1223.600	1219.800
30	1227.400	1166.600	1102.000	1031.700	970.900	923.400	891.100	870.200	864.500
35	944.300	841.700	756.200	693.500	653.600	628.900	613.700	604.200	600.400
40	644.100	589.000	556.700	535.800	518.700	505.400	497.800	492.100	490.200
45	494.000	469.300	450.300	433.200	421.800	412.300	404.700	400.900	399.000
50	381.900	368.600	357.200	345.800	338.200	330.600	326.800	323.000	321.100
55	279.300	279.300	275.500	271.700	267.900	262.200	260.300	258.400	256.500
60	207.100	207.100	207.100	207.100	207.100	205.200	203.300	203.300	201.400

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CANDELA TABULATION - (Cont.)

65	150.100	152.000	153.900	153.900	153.900	155.800	153.900	153.900	153.900
70	100.700	102.600	104.500	106.400	106.400	108.300	108.300	108.300	108.300
75	58.900	60.800	62.700	64.600	66.500	66.500	68.400	68.400	66.500
80	26.600	28.500	30.400	30.400	32.300	32.300	34.200	34.200	32.300
85	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500
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	782.13	N.A.	9.50
0-30	1520.65	N.A.	18.50
0-40	2216.36	N.A.	27.00
0-60	2849.3	N.A.	34.70
0-80	3065.97	N.A.	37.40
0-90	3081.73	N.A.	37.60
10-90	2866.43	N.A.	34.90
20-40	1434.22	N.A.	17.50
20-50	1833.34	N.A.	22.30
40-70	784.44	N.A.	9.60
60-80	216.67	N.A.	2.60
70-80	65.17	N.A.	0.80
80-90	15.77	N.A.	0.20
90-110	513.74	N.A.	6.30
90-120	1333.11	N.A.	16.30
90-130	2355.04	N.A.	28.70
90-150	4120.00	N.A.	50.20
90-180	5122.00	N.A.	62.40
110-180	4608.27	N.A.	56.20
0-180	8203.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.31
10-20	566.82
20-30	738.51
30-40	695.71
40-50	399.12
50-60	233.82
60-70	151.50
70-80	65.17
80-90	15.77
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

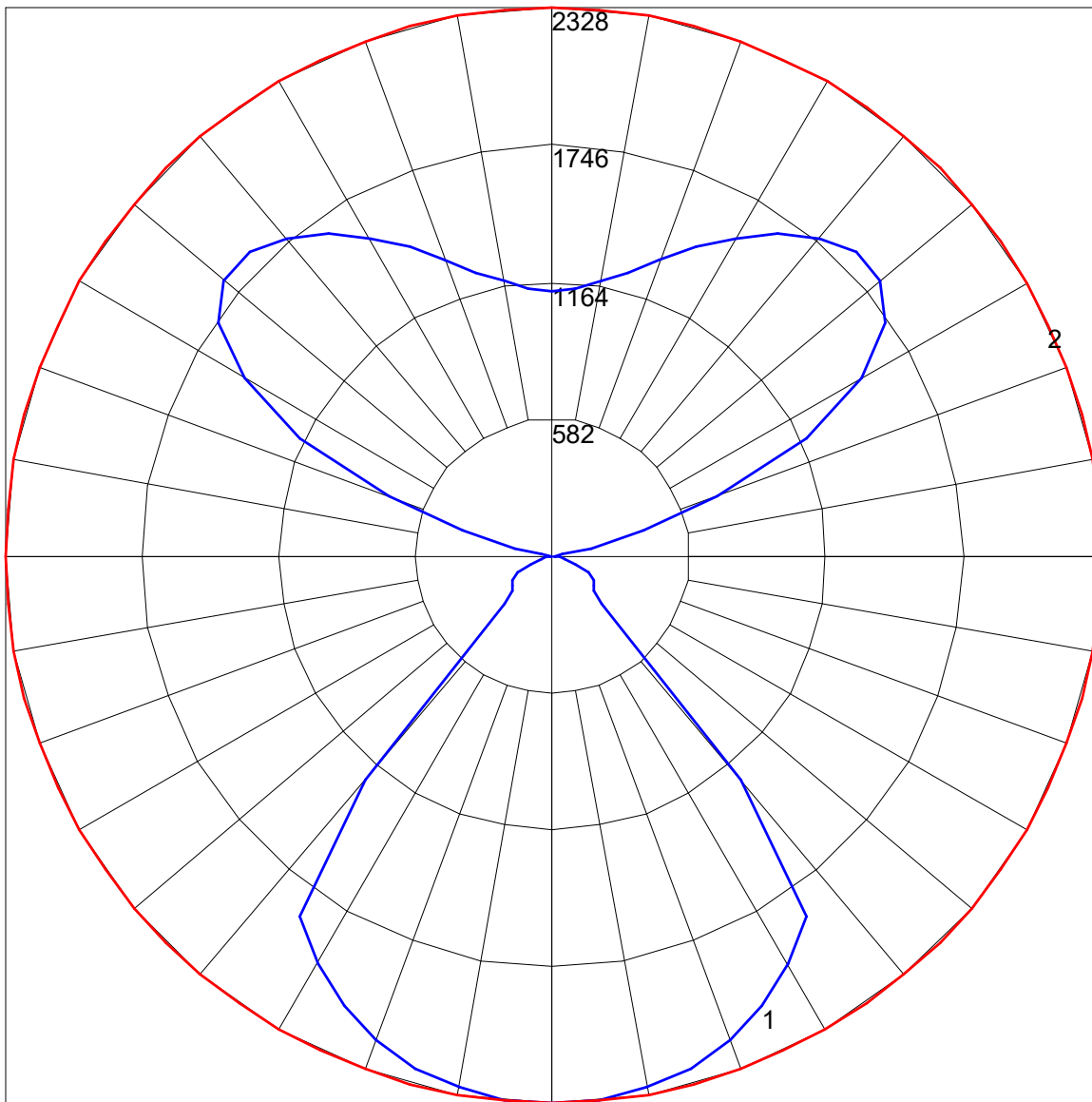
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	96	92	89	86	87	84	81	78	68	67	65	54	53	52	41	40	40	34
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	38	36	35	30
3	81	73	66	61	74	67	61	57	55	51	48	44	42	40	34	33	31	27
4	75	65	58	53	68	60	54	49	50	45	42	40	37	35	32	30	28	24
5	69	59	52	46	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	53	46	41	58	49	43	38	41	36	33	34	30	28	27	25	23	20
7	60	48	41	36	54	45	38	34	38	33	30	31	28	25	25	23	21	18
8	56	44	37	32	51	41	35	30	35	30	27	29	25	23	23	21	19	17
9	52	41	34	29	48	38	32	28	32	27	24	27	23	21	22	19	18	16
10	49	38	31	26	45	35	29	25	30	25	22	25	22	19	20	18	16	14

POLAR GRAPH



Maximum Candela = 2327.5 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.)