

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Total Lumens, 4' rail length (1219mm)	9077	9364	9555	9651
Lumens per foot (305mm)	2269	2341	2389	2413
Lumens per foot UP (305mm)	1216	1255	1281	1293
Lumens per foot DOWN (305mm)	1053	1086	1108	1119
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_G12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L1121911506 (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-G12-AL

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

[MORE] diffuse lens 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	9555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	98.12
Ballast Factor	1.00
CIE Type	General Diffuse
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	11502	18234	64722
55	6119	10869	53718
65	3170	5844	42177
75	1517	2658	31464
85	346	611	19857

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G12.IES

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	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100
5	2114.700	2114.700	2114.700	2114.700	2114.700	2114.700	2114.700	2114.700	2114.700	2116.600
10	2071.000	2071.000	2071.000	2072.900	2072.900	2072.900	2074.800	2074.800	2076.700	2076.700
15	1991.200	1991.200	1991.200	1993.100	1995.000	1996.900	2000.700	2004.500	2006.400	2010.200
20	1869.600	1871.500	1873.400	1875.300	1881.000	1884.800	1892.400	1898.100	1905.700	1911.400
25	1704.300	1706.200	1710.000	1715.700	1725.200	1732.800	1744.200	1755.600	1768.900	1780.300
30	1502.900	1506.700	1512.400	1520.000	1533.300	1546.600	1563.700	1582.700	1599.800	1618.800
35	1276.800	1278.700	1286.300	1297.700	1312.900	1333.800	1354.700	1379.400	1406.000	1430.700
40	1037.400	1041.200	1048.800	1062.100	1083.000	1107.700	1134.300	1164.700	1197.000	1227.400
45	813.200	817.000	824.600	837.900	858.800	885.400	913.900	948.100	984.200	1018.400
50	621.300	623.200	630.800	644.100	661.200	684.000	712.500	744.800	780.900	818.900
55	463.600	467.400	473.100	482.600	497.800	518.700	541.500	570.000	602.300	636.500
60	342.000	343.900	349.600	357.200	368.600	381.900	400.900	423.700	450.300	478.800
65	248.900	250.800	252.700	258.400	266.000	275.500	288.800	305.900	324.900	347.700
70	176.700	176.700	178.600	180.500	186.200	191.900	199.500	210.900	224.200	239.400
75	119.700	119.700	119.700	121.600	123.500	127.300	131.100	136.800	144.400	155.800
80	70.300	70.300	70.300	70.300	72.200	74.100	76.000	77.900	81.700	87.400
85	26.600	26.600	28.500	28.500	28.500	28.500	30.400	30.400	32.300	34.200
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	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100	2126.100
5	2116.600	2116.600	2116.600	2116.600	2118.500	2116.600	2116.600	2116.600	2118.500
10	2078.600	2080.500	2082.400	2082.400	2084.300	2084.300	2084.300	2084.300	2084.300
15	2012.100	2015.900	2019.700	2023.500	2023.500	2025.400	2027.300	2027.300	2027.300
20	1919.000	1924.700	1930.400	1936.100	1939.900	1943.700	1945.600	1945.600	1947.500
25	1791.700	1803.100	1812.600	1822.100	1829.700	1833.500	1837.300	1841.100	1841.100
30	1637.800	1654.900	1670.100	1681.500	1692.900	1700.500	1708.100	1710.000	1711.900
35	1457.300	1480.100	1501.000	1520.000	1533.300	1546.600	1554.200	1558.000	1561.800
40	1259.700	1288.200	1314.800	1337.600	1356.600	1369.900	1381.300	1387.000	1388.900
45	1054.500	1088.700	1119.100	1145.700	1166.600	1183.700	1197.000	1202.700	1206.500
50	856.900	893.000	923.400	951.900	974.700	993.700	1005.100	1014.600	1016.500
55	672.600	706.800	739.100	767.600	790.400	807.500	820.800	828.400	830.300
60	511.100	541.500	571.900	598.500	619.400	634.600	647.900	653.600	655.500

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G12.IES

CANDELA TABULATION - (Cont.)

65	372.400	399.000	423.700	446.500	465.500	480.700	490.200	495.900	497.800
70	258.400	277.400	298.300	317.300	332.500	345.800	353.400	359.100	359.100
75	167.200	180.500	195.700	209.000	222.300	231.800	239.400	243.200	245.100
80	93.100	100.700	110.200	119.700	129.200	136.800	142.500	146.300	146.300
85	36.100	39.900	43.700	49.400	55.100	60.800	64.600	68.400	70.300
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	766.27	N.A.	8.00
0-30	1582.07	N.A.	16.60
0-40	2470.97	N.A.	25.90
0-60	3834.86	N.A.	40.10
0-80	4381.24	N.A.	45.90
0-90	4432.71	N.A.	46.40
10-90	4231.98	N.A.	44.30
20-40	1704.7	N.A.	17.80
20-50	2488.86	N.A.	26.00
40-70	1727.56	N.A.	18.10
60-80	546.39	N.A.	5.70
70-80	182.71	N.A.	1.90
80-90	51.47	N.A.	0.50
90-110	513.74	N.A.	5.40
90-120	1333.11	N.A.	14.00
90-130	2355.04	N.A.	24.60
90-150	4120.00	N.A.	43.10
90-180	5122.00	N.A.	53.60
110-180	4608.27	N.A.	48.20
0-180	9554.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.74
10-20	565.53
20-30	815.80
30-40	888.91
40-50	784.16
50-60	579.72
60-70	363.68
70-80	182.71
80-90	51.47
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

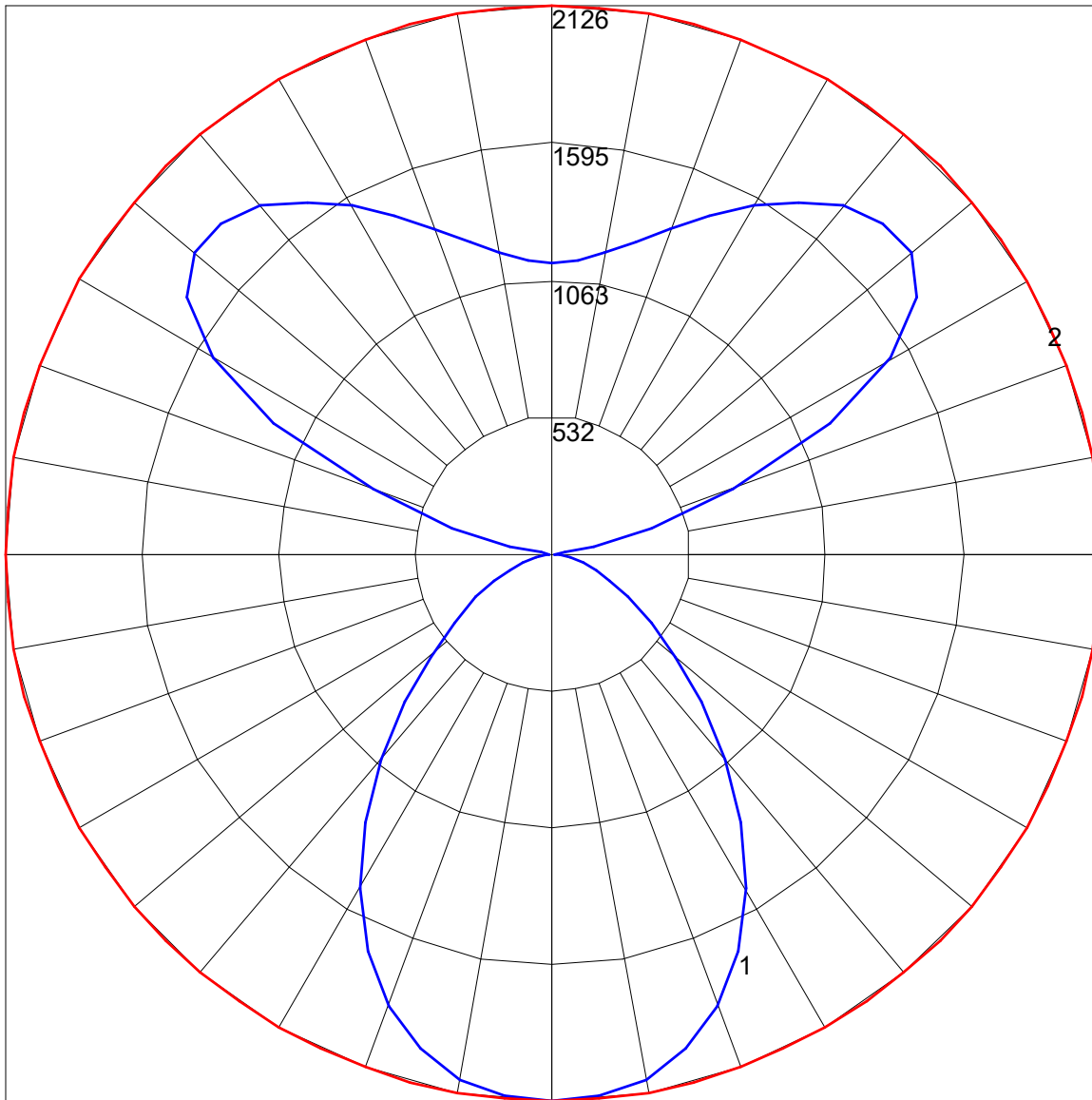
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	72	82	76	71	67	64	60	57	53	50	48	43	41	39	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	41	37	38	34	31	31	29	26	23
6	64	52	44	39	59	48	42	37	41	36	32	35	31	28	29	26	23	21
7	59	47	40	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	36	30	50	40	33	29	34	29	25	29	25	22	24	21	19	17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 2126.1 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.)