

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 120° FlyWing™, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	117	121	123	123
Total Lumens, 4' rail length (1219mm)	11436	11797	12038	12038
Lumens per foot (305mm)	2859	2949	3010	3010
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	1445	1491	1521	1521
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	82	82	82	82

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_35_G1G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911505 (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-35-G1G2-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /

[MORE] flywing 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	12007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	25829	28945	57269
55	18499	21436	52998
65	9831	12800	49547
75	3420	5310	40460
85	218	552	15989

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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	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208
5	2025.958	2024.484	2024.308	2022.548	2022.086	2020.062	2018.588	2016.366	2013.506	2011.306
10	2064.326	2063.116	2060.080	2057.220	2051.962	2044.680	2038.234	2029.742	2020.436	2010.184
15	2110.416	2108.304	2104.696	2097.524	2087.734	2075.480	2060.718	2044.218	2024.110	2004.750
20	2138.092	2136.244	2130.524	2121.856	2109.316	2092.728	2071.982	2048.376	2019.974	1989.812
25	2140.490	2139.192	2132.636	2122.318	2106.368	2088.284	2063.490	2033.328	1998.942	1958.836
30	2112.638	2112.352	2106.368	2095.126	2078.802	2056.934	2031.040	1997.754	1956.262	1909.600
35	2056.384	2054.536	2047.628	2035.638	2020.150	1998.568	1971.090	1935.054	1892.528	1839.420
40	1961.960	1960.024	1953.754	1943.062	1927.200	1906.564	1879.988	1844.128	1797.576	1743.984
45	1826.066	1824.944	1819.136	1811.018	1797.290	1779.030	1752.190	1717.804	1672.528	1616.648
50	1641.464	1640.452	1637.042	1630.574	1620.806	1606.330	1583.934	1552.474	1508.870	1455.762
55	1401.532	1401.070	1399.706	1398.584	1394.536	1385.582	1368.708	1343.826	1304.732	1255.386
60	1099.648	1100.396	1103.718	1107.304	1109.900	1109.438	1102.046	1086.470	1058.816	1019.436
65	771.958	773.146	777.766	784.410	792.154	798.512	801.086	797.214	784.036	761.530
70	481.316	482.702	487.410	494.604	503.448	513.502	521.158	525.404	524.018	516.274
75	269.808	270.534	273.482	278.564	285.098	292.666	299.860	305.932	309.628	311.300
80	113.960	114.620	116.556	119.878	124.564	130.284	136.466	142.560	148.544	153.802
85	16.786	16.786	17.050	17.336	18.172	19.096	20.658	23.056	26.554	30.888
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
100	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
105	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
110	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
115	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
120	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
125	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
130	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
135	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
140	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
145	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
150	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
155	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
160	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
165	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
170	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
175	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208	2012.208
5	2009.634	2007.522	2005.036	2003.914	2002.902	2000.878	1999.690	1999.140	1998.304
10	2000.042	1990.472	1981.342	1973.136	1965.568	1958.836	1954.590	1951.642	1949.794
15	1984.554	1961.520	1941.412	1922.778	1905.266	1890.240	1880.362	1874.004	1870.682
20	1957.450	1920.754	1888.216	1853.632	1824.218	1799.050	1779.316	1767.040	1762.618
25	1914.308	1868.196	1818.674	1771.660	1727.858	1689.226	1659.900	1642.102	1634.094
30	1856.492	1798.478	1735.052	1674.288	1615.922	1566.136	1527.042	1503.326	1493.932
35	1777.732	1709.598	1637.966	1562.066	1493.096	1434.466	1387.980	1359.688	1349.348
40	1675.938	1600.346	1520.662	1438.602	1361.800	1294.304	1245.706	1215.280	1204.588
45	1546.952	1469.028	1386.880	1300.860	1223.398	1157.376	1107.678	1078.088	1067.572
50	1386.880	1310.078	1230.966	1150.468	1080.838	1019.524	975.634	948.244	939.224
55	1192.598	1123.914	1055.758	988.922	932.118	883.520	849.046	826.628	819.170
60	970.288	916.168	865.260	818.422	779.328	746.592	723.646	709.346	703.714

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CANDELA TABULATION - (Cont.)

65	731.478	699.842	670.978	645.172	624.338	607.266	595.188	587.180	584.782
70	505.208	493.130	482.702	474.210	467.302	463.056	459.096	456.236	455.136
75	312.026	312.202	312.202	312.862	313.874	315.062	315.634	315.524	315.172
80	158.510	162.756	166.166	168.916	171.314	172.898	173.998	174.724	174.636
85	37.070	43.604	49.060	53.020	55.330	56.342	56.606	56.804	56.606
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808
100	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356
105	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378
110	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938
115	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130
120	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526
125	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026
130	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072
135	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890
140	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528
145	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768
150	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586
155	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362
160	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494
165	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606
170	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728
175	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	756.60	N.A.	6.30
0-30	1643.37	N.A.	13.70
0-40	2749.84	N.A.	22.90
0-60	4973.01	N.A.	41.40
0-80	6013.69	N.A.	50.10
0-90	6076.32	N.A.	50.60
10-90	5884.38	N.A.	49.00
20-40	1993.24	N.A.	16.60
20-50	3168.97	N.A.	26.40
40-70	2936.13	N.A.	24.50
60-80	1040.68	N.A.	8.70
70-80	327.72	N.A.	2.70
80-90	62.63	N.A.	0.50
90-110	594.85	N.A.	5.00
90-120	1543.6	N.A.	12.90
90-130	2726.89	N.A.	22.70
90-150	4770.53	N.A.	39.70
90-180	5930.74	N.A.	49.40
110-180	5335.89	N.A.	44.40
0-180	12007.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.94
10-20	564.66
20-30	886.77
30-40	1106.47
40-50	1175.73
50-60	1047.45
60-70	712.95
70-80	327.72
80-90	62.63
90-100	111.48
100-110	483.37
110-120	948.74
120-130	1183.29
130-140	1127.03
140-150	916.61
150-160	651.71
160-170	382.81
170-180	125.69

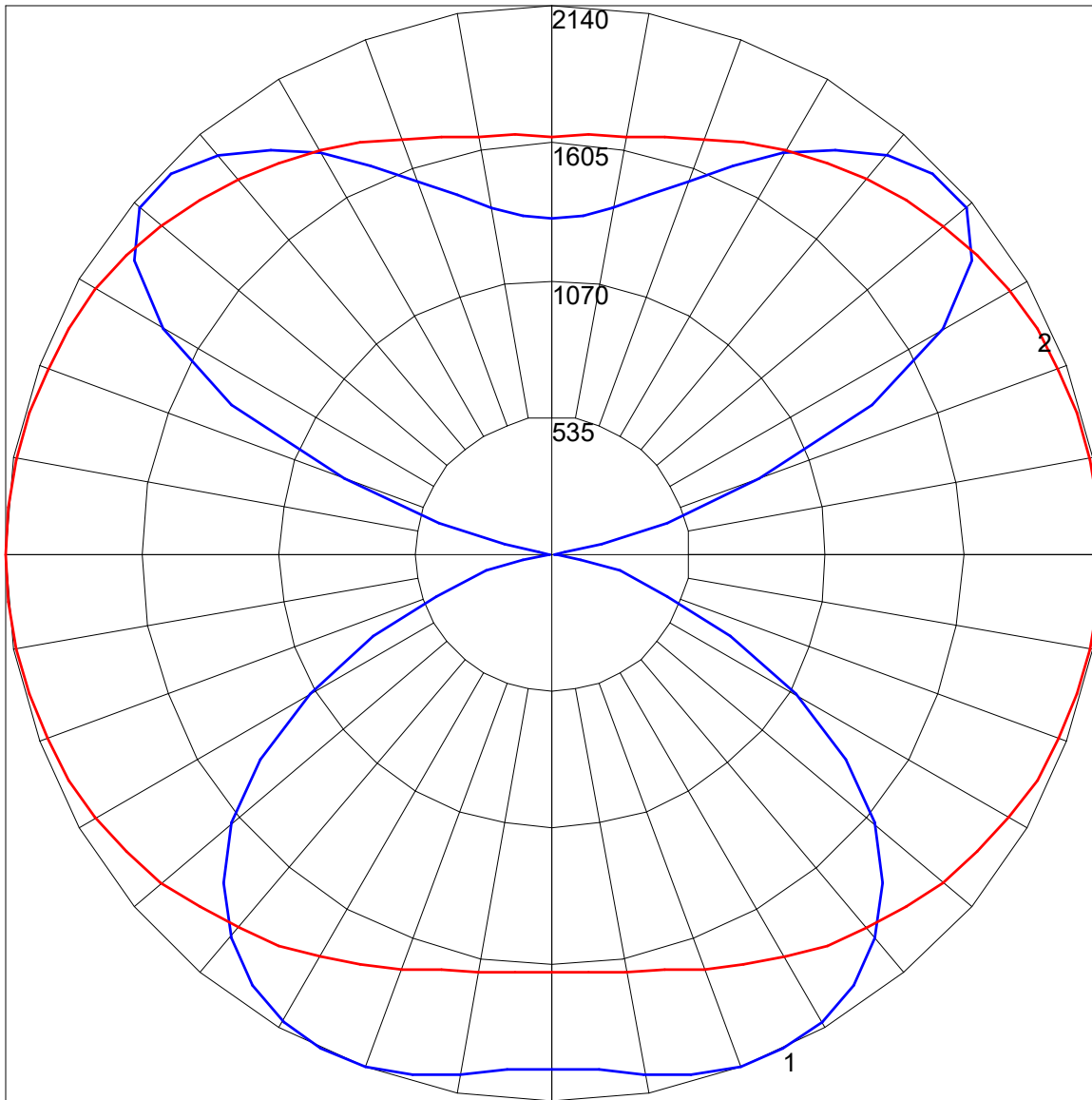
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	90	87	83	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	37	58	47	40	34	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 2140.49 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)