

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	81	83	83
Total Lumens, 4' rail length (1219mm)	7672	7914	8075	8075
Lumens per foot (305mm)	1918	1978	2019	2019
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	507	523	533	533
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_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (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-G1S2-BL

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

[MORE] 60° symmetric lens down, high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
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	2316	4860	32899
55	820	1841	18624
65	333	762	10563
75	131	299	6038
85	2	36	2399

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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>
0.0	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468
1.0	1898.336	1911.998	1910.612	1924.340	1966.294	1990.736	2007.148	2017.488	2025.408	2039.598
3.0	1906.454	1917.432	1916.706	1935.780	1972.674	1993.310	2006.224	2019.974	2037.772	2053.436
5.0	1900.932	1907.576	1909.050	1923.702	1959.210	1979.120	1990.824	2009.722	2032.976	2047.804
7.0	1848.000	1851.498	1856.118	1868.372	1911.712	1930.896	1939.938	1956.438	1977.932	2008.622
9.0	1783.826	1785.938	1791.108	1804.396	1849.210	1866.172	1882.122	1905.068	1944.734	1968.340
11.0	1701.766	1699.830	1706.188	1715.406	1758.020	1779.316	1789.920	1817.024	1869.956	1904.716
13.0	1599.598	1595.176	1600.984	1610.202	1649.208	1672.616	1688.940	1726.560	1782.176	1825.142
15.0	1496.154	1491.160	1499.366	1506.560	1541.518	1567.698	1590.468	1649.120	1703.240	1750.826
17.0	1382.172	1373.416	1383.734	1392.314	1422.828	1445.422	1467.840	1519.100	1579.776	1637.856
19.5	1230.042	1219.702	1231.780	1235.476	1264.604	1285.636	1322.508	1388.992	1454.838	1515.316
22.5	1040.820	1028.192	1038.070	1034.748	1058.244	1086.184	1120.394	1180.344	1255.848	1323.894
25.5	867.856	853.468	866.272	874.676	888.602	915.068	954.514	1015.388	1086.096	1159.026
29.0	672.738	660.022	670.252	661.958	674.498	698.742	737.660	790.394	861.388	934.428
33.0	484.814	473.286	484.550	494.780	499.202	509.432	540.694	587.356	648.406	712.382
37.5	322.718	314.974	323.840	317.922	324.742	340.516	367.818	406.824	454.212	509.432
42.5	202.312	196.482	201.938	207.548	209.132	213.928	231.528	256.520	289.630	330.000
47.5	125.224	121.902	125.224	127.710	129.008	133.430	145.310	162.382	185.988	212.894
55.0	62.150	60.588	62.238	62.326	63.624	66.572	72.556	81.136	93.764	107.800
65.0	26.180	25.630	26.378	26.554	27.016	28.314	30.800	34.584	39.468	45.364
75.0	10.318	10.230	10.516	10.428	10.692	11.440	12.364	13.464	15.400	17.512
85.0	0.176	0.176	0.176	0.176	0.176	0.374	0.550	0.836	1.386	2.024
90.0	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95.0	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
100.0	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
105.0	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
110.0	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
115.0	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
120.0	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
125.0	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
130.0	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
135.0	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
140.0	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
145.0	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
150.0	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
155.0	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
160.0	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
165.0	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
170.0	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
175.0	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
180.0	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>
0.0	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468	1986.468
1.0	2052.138	2059.618	2068.660	2078.604	2084.324	2089.032	2091.606	2092.992	2095.676
3.0	2062.104	2074.006	2080.650	2085.886	2087.646	2091.892	2094.202	2095.126	2096.226
5.0	2059.530	2065.514	2070.772	2070.948	2075.392	2079.990	2083.950	2086.546	2086.458
7.0	2028.092	2035.924	2040.720	2045.318	2051.962	2057.506	2063.490	2065.514	2066.350
9.0	1987.700	2000.152	2008.996	2015.816	2023.846	2032.866	2038.872	2043.580	2045.318
11.0	1931.644	1948.144	1958.660	1971.376	1985.390	1996.830	2005.674	2010.756	2013.044
13.0	1855.656	1886.456	1903.418	1922.228	1939.564	1953.578	1964.358	1972.102	1975.424
15.0	1784.662	1816.826	1841.356	1866.260	1888.304	1906.828	1921.766	1931.358	1933.008

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CANDELA TABULATION - (Cont.)

17.0	1684.892	1720.378	1754.500	1786.598	1814.538	1836.846	1854.644	1866.898	1871.056
19.5	1565.300	1606.968	1649.582	1690.238	1726.098	1756.986	1779.404	1794.342	1800.414
22.5	1399.244	1453.166	1505.372	1555.994	1601.446	1638.054	1666.170	1684.892	1692.724
25.5	1222.298	1286.098	1348.050	1408.352	1461.372	1504.624	1537.074	1558.744	1566.774
29.0	1009.294	1080.112	1148.532	1220.538	1281.588	1332.650	1371.392	1396.010	1404.678
33.0	783.200	857.340	929.632	1001.550	1065.438	1119.206	1160.060	1186.966	1196.844
37.5	569.382	632.544	699.842	767.712	825.792	884.730	926.860	954.426	964.656
42.5	378.774	431.156	485.100	540.320	594.176	643.500	680.482	704.924	714.054
47.5	247.016	283.536	324.940	369.006	411.620	452.188	483.252	503.448	512.490
55.0	126.148	146.432	169.840	196.592	222.684	247.390	268.510	282.524	287.870
65.0	52.646	61.050	70.906	82.060	93.764	105.490	115.346	121.990	124.674
75.0	20.284	23.430	26.928	31.262	35.508	39.842	43.428	46.112	47.036
85.0	3.322	4.422	5.258	6.094	6.644	7.370	8.030	8.294	8.492
90.0	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95.0	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808
100.0	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356
105.0	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378
110.0	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938
115.0	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130
120.0	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526
125.0	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026
130.0	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072
135.0	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890
140.0	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528
145.0	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768
150.0	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586
155.0	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362
160.0	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494
165.0	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606
170.0	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728
175.0	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562
180.0	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	638.45	N.A.	7.90
0-30	1162.28	N.A.	14.40
0-40	1550.77	N.A.	19.20
0-60	1976.19	N.A.	24.50
0-80	2112.24	N.A.	26.20
0-90	2130.09	N.A.	26.40
10-90	1976.07	N.A.	24.50
20-40	912.33	N.A.	11.30
20-50	1208.77	N.A.	15.00
40-70	519.43	N.A.	6.40
60-80	136.05	N.A.	1.70
70-80	42.03	N.A.	0.50
80-90	17.84	N.A.	0.20
90-110	594.85	N.A.	7.40
90-120	1543.6	N.A.	19.10
90-130	2726.89	N.A.	33.80
90-150	4770.53	N.A.	59.20
90-180	5930.74	N.A.	73.60
110-180	5335.89	N.A.	66.20
0-180	8060.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.02
10-20	484.43
20-30	523.84
30-40	388.49
40-50	296.45
50-60	128.97
60-70	94.02
70-80	42.03
80-90	17.84
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

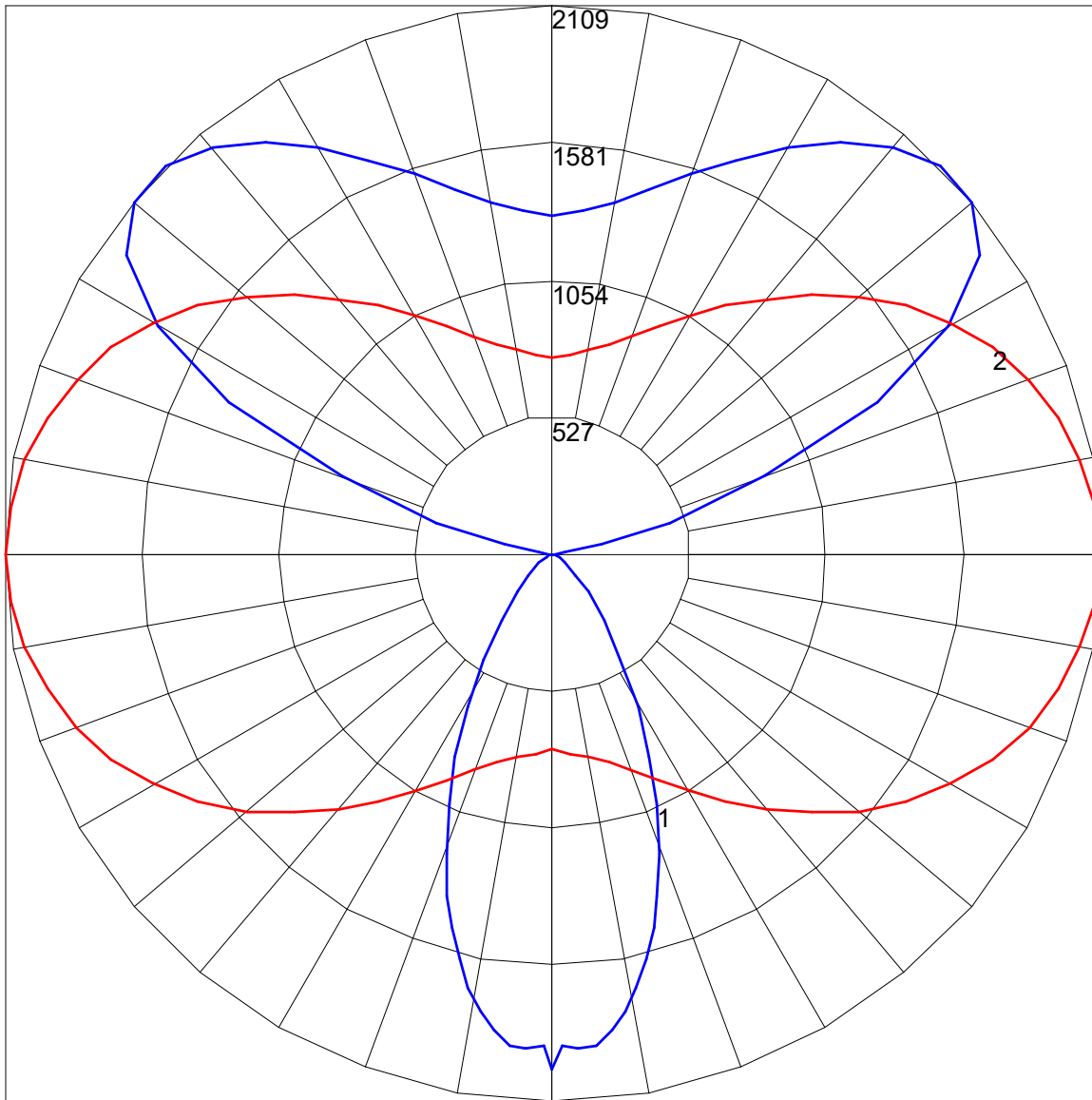
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	35	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 2108.59 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)