

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	80
Total Lumens, 4' rail length (1219mm)	7387	7620	7776	7776
Lumens per foot (305mm)	1847	1905	1944	1944
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	436	450	459	459
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_G1S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911512 (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-G1S1-BL

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

[MORE] 40° 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	7762
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	1972	4007	28515
55	723	1482	15439
65	258	606	8563
75	112	242	4829
85	0	29	1926

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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	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240
1.0	1678.534	1713.844	1743.522	1773.046	1788.160	1791.746	1796.916	1799.402	1803.186	1854.732
3.0	1721.874	1729.156	1753.488	1777.556	1796.454	1804.660	1807.256	1808.730	1810.754	1854.468
5.0	1690.524	1705.638	1738.176	1762.068	1774.872	1783.188	1787.786	1791.746	1795.640	1801.074
7.0	1645.512	1668.018	1694.022	1719.740	1733.754	1741.784	1744.732	1750.166	1757.822	1766.314
9.0	1612.138	1625.426	1656.402	1680.822	1694.660	1689.490	1692.174	1699.918	1723.986	1739.012
11.0	1602.172	1593.614	1605.692	1620.168	1622.192	1614.360	1620.806	1633.984	1651.782	1675.938
13.0	1509.420	1501.390	1508.122	1523.720	1527.306	1519.562	1527.856	1538.460	1566.598	1595.902
15.0	1285.922	1295.954	1325.566	1343.452	1362.900	1396.934	1418.494	1447.732	1480.380	1512.104
17.0	1228.920	1224.410	1238.138	1256.310	1271.336	1293.380	1311.552	1345.102	1384.020	1424.038
19.5	1150.358	1139.028	1135.882	1143.648	1139.754	1149.082	1136.080	1175.812	1223.860	1275.582
22.5	859.188	866.184	872.828	882.882	917.818	945.494	984.038	986.612	1042.206	1101.320
25.5	761.442	750.464	750.090	753.412	763.466	785.422	816.574	812.064	869.594	931.568
29.0	587.356	574.178	570.768	581.834	590.854	602.382	622.490	666.292	718.102	777.106
33.0	389.114	394.174	390.214	394.086	406.450	426.360	457.248	497.640	505.934	561.990
37.5	250.074	253.110	252.186	258.368	270.710	288.046	310.926	341.616	346.874	391.600
42.5	171.314	166.430	165.506	169.290	176.308	181.544	197.406	218.438	245.168	279.114
47.5	107.514	106.678	105.402	107.338	110.374	115.896	113.410	127.886	146.058	168.454
55.0	54.780	53.944	53.108	54.120	55.792	58.828	57.816	65.384	75.064	86.768
65.0	20.284	20.834	20.922	21.582	22.968	24.618	27.016	30.052	31.262	36.058
75.0	8.844	8.844	8.756	9.218	9.416	9.856	10.780	11.902	12.364	14.190
85.0	0.000	0.000	0.000	0.000	0.176	0.176	0.374	0.550	0.924	1.650
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	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240	1813.240
1.0	1856.206	1857.878	1859.154	1861.178	1863.488	1864.610	1865.512	1866.172	1867.360
3.0	1856.118	1858.340	1860.078	1862.102	1863.686	1865.336	1866.810	1867.184	1867.910
5.0	1839.970	1845.140	1849.100	1853.170	1857.416	1859.440	1861.464	1862.212	1863.488
7.0	1801.712	1810.754	1819.686	1828.552	1834.998	1840.080	1843.666	1846.064	1848.374
9.0	1755.050	1769.988	1784.288	1796.366	1807.432	1815.264	1821.622	1825.780	1827.892
11.0	1698.444	1720.290	1740.398	1759.582	1773.508	1785.850	1795.816	1802.086	1804.858
13.0	1625.976	1655.390	1682.956	1709.422	1731.092	1746.668	1760.770	1768.800	1771.286
15.0	1546.666	1579.490	1610.488	1647.646	1674.552	1699.544	1718.552	1730.718	1741.960

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CANDELA TABULATION - (Cont.)

17.0	1466.454	1507.572	1542.706	1586.684	1623.380	1652.992	1673.540	1689.402	1695.496
19.5	1331.638	1387.144	1440.538	1493.184	1536.986	1570.822	1599.598	1616.384	1618.034
22.5	1166.418	1230.680	1294.018	1357.554	1409.012	1454.002	1490.148	1513.116	1519.936
25.5	999.152	1070.520	1141.800	1213.894	1275.868	1325.654	1367.520	1393.238	1400.608
29.0	809.754	883.344	959.772	1034.836	1099.384	1160.060	1209.296	1239.722	1254.374
33.0	627.000	697.532	769.098	845.350	914.694	973.236	1021.460	1053.360	1062.578
37.5	445.368	505.296	569.932	637.978	698.456	756.360	803.308	833.646	842.952
42.5	320.144	362.648	411.246	463.606	494.868	545.688	587.818	614.658	627.550
47.5	196.394	228.756	265.452	305.470	344.476	379.346	410.498	430.606	435.578
55.0	101.530	118.954	139.040	160.996	182.006	203.588	221.760	234.014	238.634
65.0	42.042	49.060	57.266	66.572	75.878	85.470	93.412	98.934	101.068
75.0	16.236	18.810	21.758	25.256	28.578	31.900	34.936	36.982	37.620
85.0	2.574	3.696	4.620	5.082	5.434	5.808	6.182	6.644	6.820
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	570.31	N.A.	7.30
0-30	1022.19	N.A.	13.20
0-40	1349.15	N.A.	17.40
0-60	1704.99	N.A.	22.00
0-80	1816.54	N.A.	23.40
0-90	1831.59	N.A.	23.60
10-90	1693.43	N.A.	21.80
20-40	778.84	N.A.	10.00
20-50	1027.8	N.A.	13.20
40-70	433.15	N.A.	5.60
60-80	111.54	N.A.	1.40
70-80	34.24	N.A.	0.40
80-90	15.05	N.A.	0.20
90-110	594.85	N.A.	7.70
90-120	1543.6	N.A.	19.90
90-130	2726.89	N.A.	35.10
90-150	4770.53	N.A.	61.50
90-180	5930.74	N.A.	76.40
110-180	5335.89	N.A.	68.70
0-180	7762.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.16
10-20	432.15
20-30	451.88
30-40	326.96
40-50	248.95
50-60	106.89
60-70	77.30
70-80	34.24
80-90	15.05
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

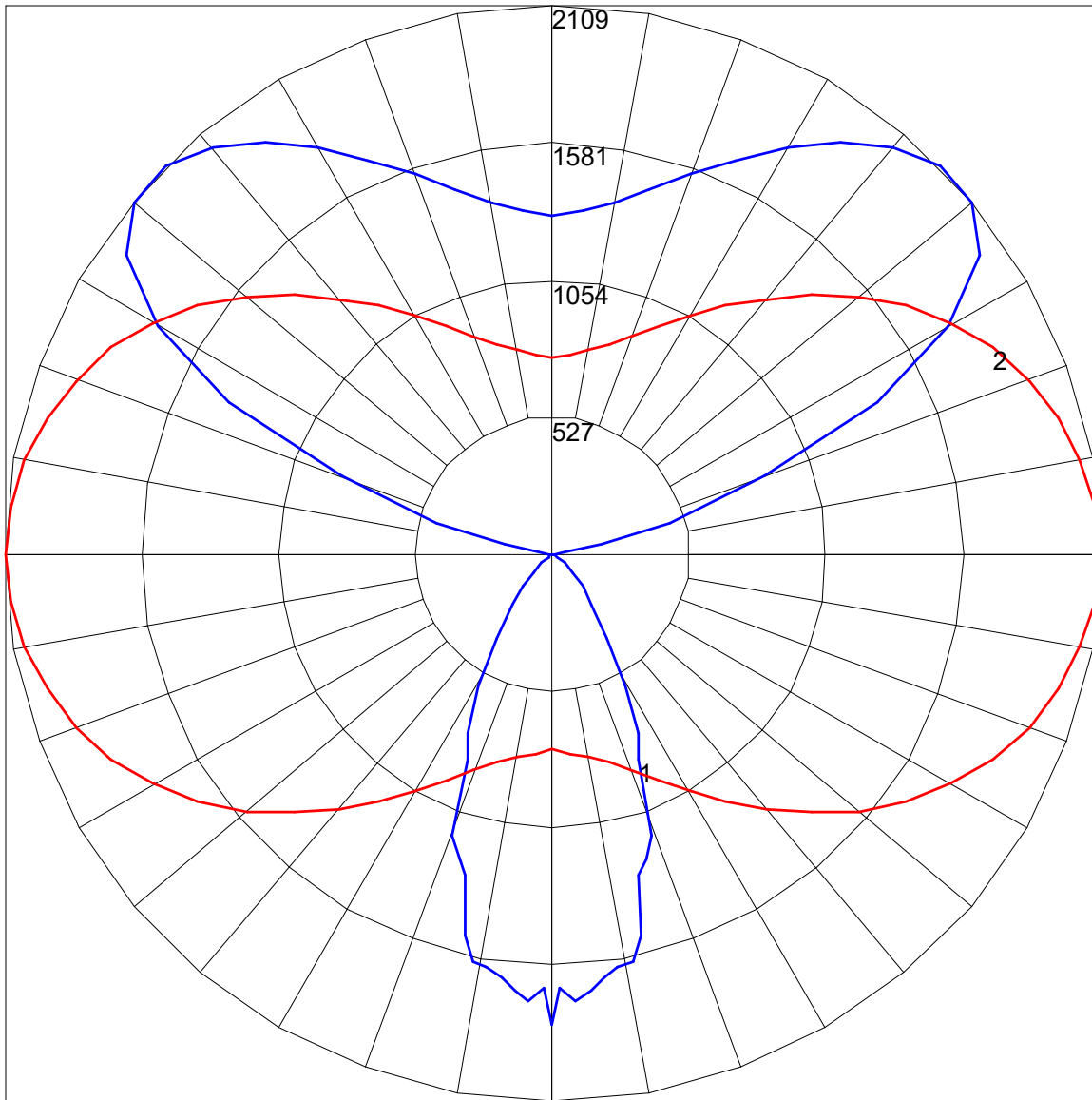
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	44	43	42	29	29	28	21
2	85	78	73	68	75	70	66	62	54	51	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	24	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	48	43	59	50	44	39	40	35	32	30	27	25	21	19	18	14
6	61	50	43	38	54	45	39	35	36	32	28	27	25	22	19	18	16	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

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.)