

## 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-AL / WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	85	87	87
Total Lumens, 4' rail length (1219mm)	8044	8298	8468	8468
Lumens per foot (305mm)	2011	2075	2117	2117
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	600	619	632	632
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911509 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-35-G1S1-AL

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

[MORE] 40° symmetric 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	8453
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	3360	7077	40773
55	1933	3768	28109
65	1174	2088	19516
75	631	1032	13020
85	17	127	5680

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.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>
<b>0.0</b>	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668
<b>1.0</b>	1977.470	1988.074	1991.946	2008.996	2020.612	2027.344	2020.986	2025.958	2029.918	2034.164
<b>3.0</b>	1952.940	1956.812	1957.538	1991.572	2011.394	2019.226	2014.056	2018.214	2023.472	2027.982
<b>5.0</b>	1903.880	1898.358	1926.936	1949.618	1979.120	1986.688	1985.302	1992.672	2000.702	2005.960
<b>7.0</b>	1836.208	1822.084	1852.620	1886.830	1917.344	1929.510	1938.728	1948.144	1958.748	1968.230
<b>9.0</b>	1755.050	1735.514	1770.560	1820.148	1856.382	1869.494	1881.484	1894.662	1910.150	1925.374
<b>11.0</b>	1656.578	1629.100	1669.668	1722.688	1757.822	1782.638	1799.138	1817.112	1837.308	1857.592
<b>13.0</b>	1539.472	1503.612	1527.042	1588.268	1646.722	1682.208	1702.690	1728.320	1752.476	1780.328
<b>15.0</b>	1458.512	1422.014	1492.546	1557.006	1576.168	1600.896	1627.824	1658.140	1690.876	1724.536
<b>17.0</b>	1316.348	1317.074	1349.634	1429.208	1455.102	1483.966	1514.128	1549.064	1588.906	1629.760
<b>19.5</b>	1157.200	1141.976	1189.650	1258.532	1297.714	1329.064	1365.298	1406.790	1452.440	1501.214
<b>22.5</b>	975.370	974.248	1009.932	1074.942	1107.128	1142.350	1183.380	1228.744	1281.852	1339.294
<b>25.5</b>	804.782	812.064	835.758	890.890	929.808	965.668	1007.820	1057.518	1113.574	1175.548
<b>29.0</b>	646.734	628.936	664.818	715.154	744.942	778.866	819.808	868.868	926.112	989.274
<b>33.0</b>	487.212	477.180	499.664	545.864	572.594	602.668	638.704	683.056	736.736	795.828
<b>37.5</b>	362.362	361.460	377.300	405.614	425.524	449.240	478.654	515.526	560.890	612.150
<b>42.5</b>	268.312	261.866	276.716	296.450	311.740	329.076	350.658	378.598	412.632	453.002
<b>47.5</b>	206.734	202.400	212.454	226.006	236.038	247.852	263.164	283.074	308.066	337.568
<b>55.0</b>	146.432	144.034	149.006	155.562	160.534	167.640	176.308	187.726	202.312	220.660
<b>65.0</b>	92.202	92.400	93.500	95.810	98.384	101.156	105.028	109.912	116.270	124.212
<b>75.0</b>	49.786	49.324	50.072	50.798	51.546	52.558	53.856	55.418	57.728	60.478
<b>85.0</b>	1.298	1.386	1.386	1.650	1.936	2.398	3.146	3.960	5.082	7.106
<b>90.0</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95.0</b>	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
<b>100.0</b>	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
<b>105.0</b>	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
<b>110.0</b>	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
<b>115.0</b>	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
<b>120.0</b>	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
<b>125.0</b>	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
<b>130.0</b>	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
<b>135.0</b>	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
<b>140.0</b>	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
<b>145.0</b>	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
<b>150.0</b>	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
<b>155.0</b>	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
<b>160.0</b>	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
<b>165.0</b>	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
<b>170.0</b>	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
<b>175.0</b>	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
<b>180.0</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**Vert. Horizontal Angles**  
**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>
<b>0.0</b>	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668	2032.668
<b>1.0</b>	2036.650	2038.872	2046.242	2047.804	2051.874	2052.600	2053.612	2052.336	2052.886
<b>3.0</b>	2031.040	2034.164	2039.422	2040.522	2053.172	2050.312	2051.126	2051.500	2051.962
<b>5.0</b>	2011.570	2018.126	2023.560	2028.532	2035.836	2038.784	2041.358	2047.166	2042.568
<b>7.0</b>	1978.284	1987.964	1997.556	2004.948	2017.928	2023.384	2027.894	2030.116	2033.152
<b>9.0</b>	1940.862	1954.678	1966.668	1979.406	1990.648	1999.404	2008.160	2014.166	2023.010
<b>11.0</b>	1878.426	1898.622	1917.894	1936.792	1949.992	1963.258	1976.634	1986.776	1995.532
<b>13.0</b>	1807.608	1834.272	1859.704	1886.170	1905.266	1922.140	1941.962	1950.344	1961.608
<b>15.0</b>	1760.770	1792.582	1825.032	1852.708	1877.876	1898.160	1911.800	1919.368	1923.240

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES**

**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1671.978	1711.622	1750.254	1788.072	1818.784	1839.882	1859.902	1872.992	1877.502
<b>19.5</b>	1552.210	1599.972	1647.910	1696.134	1735.052	1766.666	1787.874	1803.010	1809.456
<b>22.5</b>	1399.420	1456.950	1515.976	1573.770	1620.718	1661.286	1690.238	1707.112	1714.130
<b>25.5</b>	1242.032	1306.294	1373.416	1438.514	1495.494	1543.344	1574.606	1597.200	1605.120
<b>29.0</b>	1058.992	1128.886	1202.564	1272.458	1335.334	1390.840	1425.974	1453.276	1462.582
<b>33.0</b>	864.996	933.306	1007.622	1082.224	1149.346	1197.108	1244.782	1274.658	1285.922
<b>37.5</b>	672.826	735.152	803.220	873.928	939.488	996.930	1041.656	1070.146	1077.890
<b>42.5</b>	499.290	552.596	609.488	671.440	730.268	782.100	822.382	846.450	856.592
<b>47.5</b>	371.954	414.106	459.096	508.156	555.918	600.182	633.556	654.566	663.520
<b>55.0</b>	240.746	265.738	294.690	325.776	357.126	387.090	412.346	428.032	434.478
<b>65.0</b>	134.068	145.684	159.236	174.636	190.498	205.810	218.724	227.480	230.340
<b>75.0</b>	64.086	68.508	73.590	79.574	85.558	91.740	96.910	100.144	101.420
<b>85.0</b>	10.054	13.376	16.126	17.336	18.172	18.986	19.734	20.020	20.108
<b>90.0</b>	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
<b>95.0</b>	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808
<b>100.0</b>	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356
<b>105.0</b>	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378
<b>110.0</b>	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938
<b>115.0</b>	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130
<b>120.0</b>	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526
<b>125.0</b>	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026
<b>130.0</b>	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072
<b>135.0</b>	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890
<b>140.0</b>	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528
<b>145.0</b>	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768
<b>150.0</b>	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586
<b>155.0</b>	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362
<b>160.0</b>	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494
<b>165.0</b>	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606
<b>170.0</b>	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728
<b>175.0</b>	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562
<b>180.0</b>	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	633.75	N.A.	7.50
0-30	1167.68	N.A.	13.80
0-40	1594.22	N.A.	18.90
0-60	2179.9	N.A.	25.80
0-80	2475.31	N.A.	29.30
0-90	2522.52	N.A.	29.80
10-90	2369.99	N.A.	28.00
20-40	960.47	N.A.	11.40
20-50	1341.13	N.A.	15.90
40-70	773.27	N.A.	9.10
60-80	295.41	N.A.	3.50
70-80	107.82	N.A.	1.30
80-90	47.21	N.A.	0.60
90-110	594.85	N.A.	7.00
90-120	1543.6	N.A.	18.30
90-130	2726.89	N.A.	32.30
90-150	4770.53	N.A.	56.40
90-180	5930.74	N.A.	70.20
110-180	5335.89	N.A.	63.10
0-180	8453.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.54
10-20	481.21
20-30	533.93
30-40	426.54
40-50	380.66
50-60	205.02
60-70	187.59
70-80	107.82
80-90	47.21
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

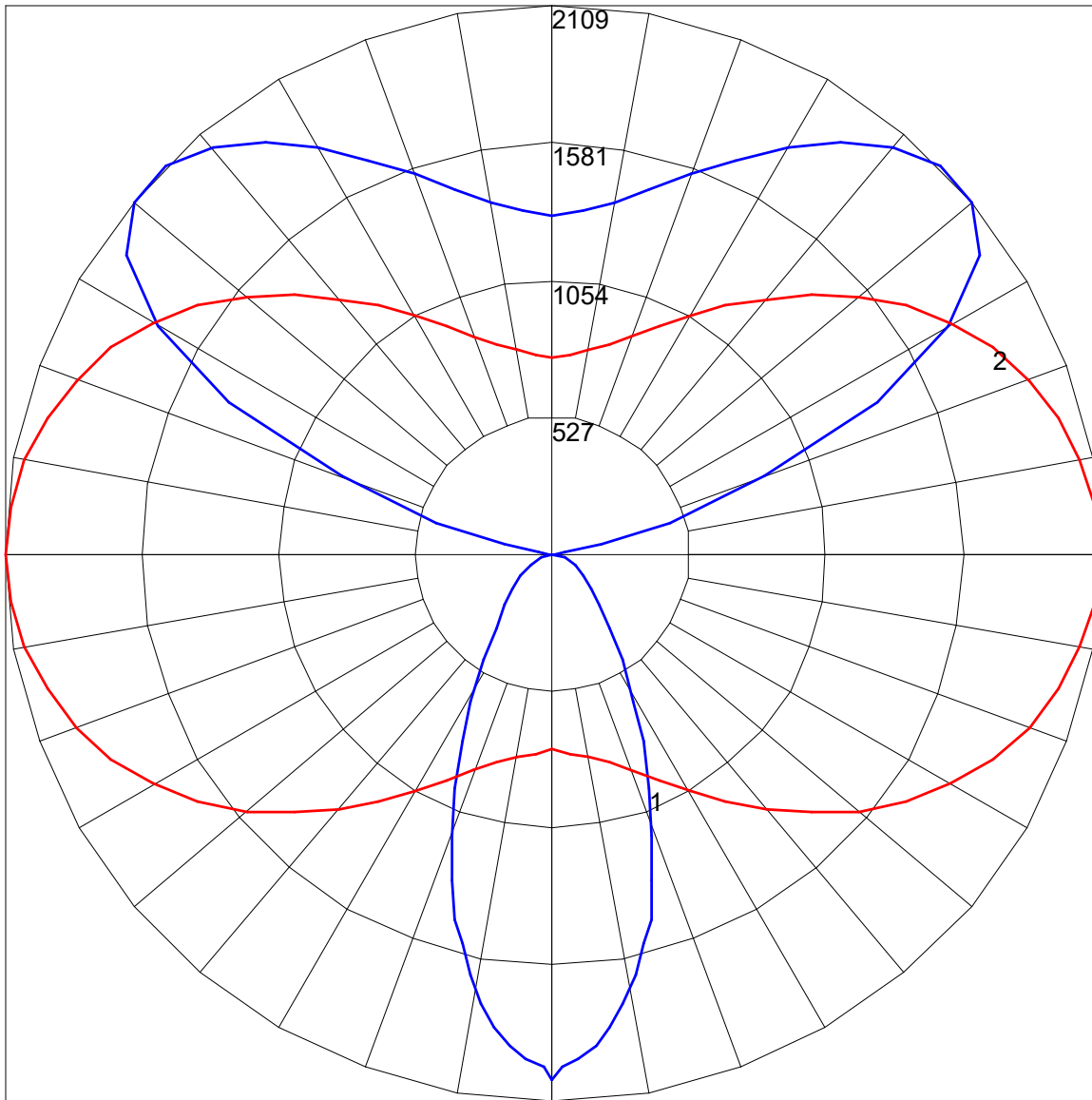
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES

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	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	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.)