

IES Report

DoubleBox™ | 107 | 120° 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	110	114	116	118
Total Lumens, 4' rail length (1219mm)	10807	11148	11375	11603
Lumens per foot (305mm)	2702	2787	2844	2901
Lumens per foot UP (305mm)	1351	1394	1422	1450
Lumens per foot DOWN (305mm)	1351	1394	1422	1450
Input Power (W), 4' rail length (1219mm)	98.4	98.4	98.4	98.4
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	85	85	85	85

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] L011800106 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/12/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-HO-35-G1G2
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/120° flying lens down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	98.44
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25092	26418	44879
55	18674	20600	42175
65	11551	13313	38773
75	5032	6292	30808
85	694	1224	12170

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	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106
5	1615.730	1614.650	1613.526	1611.763	1610.088	1608.259	1606.275	1604.181	1601.955	1599.663
10	1690.578	1688.242	1684.143	1679.272	1673.321	1666.378	1658.422	1646.190	1633.473	1620.227
15	1795.180	1791.610	1784.380	1775.410	1763.002	1743.761	1722.735	1700.122	1676.098	1647.622
20	1899.407	1894.470	1884.662	1870.799	1847.745	1822.025	1792.447	1755.464	1716.828	1677.398
25	1974.608	1968.084	1958.518	1938.109	1913.381	1881.180	1842.985	1802.872	1748.323	1691.702
30	2009.563	2002.973	1991.843	1971.081	1943.884	1909.391	1868.816	1815.743	1755.244	1687.845
35	1992.636	1986.664	1974.828	1957.769	1930.506	1898.614	1860.176	1798.662	1735.540	1660.427
40	1922.373	1917.678	1907.077	1890.283	1868.838	1842.919	1798.222	1745.502	1683.592	1602.132
45	1803.864	1800.778	1792.381	1777.901	1759.123	1737.369	1696.793	1655.887	1586.704	1517.013
50	1638.520	1634.729	1627.918	1618.045	1605.945	1585.491	1556.641	1515.492	1458.188	1384.266
55	1426.583	1423.365	1420.059	1415.365	1408.554	1385.368	1370.095	1329.673	1286.673	1228.443
60	1178.699	1176.826	1173.145	1157.982	1144.030	1128.360	1115.378	1102.683	1067.419	1020.761
65	907.651	908.819	888.212	869.236	864.695	861.147	856.827	843.537	827.536	799.237
70	633.143	623.754	602.507	602.375	611.500	613.351	612.734	606.210	588.137	571.078
75	394.384	371.110	376.399	380.036	380.168	382.989	383.672	379.308	378.713	368.773
80	202.504	188.530	193.092	194.194	195.318	196.927	198.713	199.726	199.969	200.586
85	52.609	58.274	56.466	57.260	59.310	61.073	60.985	65.811	65.767	67.795
90	3.196	3.306	3.394	3.394	3.482	3.394	3.482	3.394	3.394	3.482
95	52.609	58.274	56.466	57.260	59.310	61.073	60.985	65.811	65.767	67.795
100	202.504	188.530	193.092	194.194	195.318	196.927	198.713	199.726	199.969	200.586
105	394.384	371.110	376.399	380.036	380.168	382.989	383.672	379.308	378.713	368.773
110	633.143	623.754	602.507	602.375	611.500	613.351	612.734	606.210	588.137	571.078
115	907.651	908.819	888.212	869.258	864.695	861.147	856.827	843.537	827.536	799.237
120	1178.699	1176.826	1173.145	1157.982	1144.030	1128.360	1115.378	1102.683	1067.419	1020.761
125	1426.583	1423.365	1420.059	1415.365	1408.554	1385.390	1370.095	1329.673	1286.673	1228.443
130	1638.520	1634.729	1627.918	1618.045	1605.945	1585.491	1556.641	1515.492	1458.188	1384.266
135	1803.864	1800.778	1792.381	1777.901	1759.123	1737.369	1696.793	1655.887	1586.704	1517.013
140	1922.373	1917.678	1907.077	1890.283	1868.838	1842.919	1798.222	1745.502	1683.592	1602.132
145	1992.636	1986.664	1974.828	1957.769	1930.506	1898.614	1860.176	1798.662	1735.540	1660.427
150	2009.563	2002.973	1991.843	1971.081	1943.884	1909.391	1868.816	1815.743	1755.244	1687.845
155	1974.608	1968.084	1958.518	1938.109	1913.381	1881.180	1842.985	1802.872	1748.323	1691.702
160	1899.407	1894.470	1884.662	1870.799	1847.745	1822.025	1792.447	1755.464	1716.828	1677.398
165	1795.180	1791.610	1784.380	1775.410	1763.002	1743.761	1722.735	1700.122	1676.098	1647.622
170	1690.578	1688.242	1684.143	1679.272	1673.321	1666.378	1658.422	1646.190	1633.473	1620.227
175	1615.730	1614.650	1613.526	1611.763	1610.088	1608.259	1606.275	1604.181	1601.955	1599.663
180	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084

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	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106	1589.106
5	1597.283	1594.836	1592.368	1589.877	1587.387	1584.918	1582.384	1580.048	1577.755
10	1606.584	1592.632	1578.725	1572.003	1565.655	1559.705	1554.129	1548.883	1544.365
15	1620.072	1595.894	1571.937	1548.398	1524.881	1514.038	1504.428	1495.612	1488.538
20	1634.971	1590.384	1547.274	1513.509	1481.154	1449.857	1436.479	1424.864	1416.334
25	1634.949	1575.816	1518.005	1462.486	1420.280	1382.966	1355.328	1340.825	1330.599
30	1616.215	1542.998	1470.861	1405.535	1345.300	1302.586	1263.884	1248.324	1238.273
35	1576.257	1493.430	1408.114	1330.334	1263.245	1210.613	1171.117	1150.708	1139.248
40	1515.228	1419.134	1325.750	1238.472	1167.966	1110.552	1072.951	1049.809	1038.326
45	1418.715	1322.202	1223.903	1135.964	1062.637	1007.581	971.876	949.615	939.587
50	1297.958	1199.549	1104.094	1018.689	947.323	899.496	866.040	845.234	837.366
55	1140.063	1050.625	962.090	882.107	817.993	777.108	752.402	737.128	732.411
60	953.120	871.065	798.884	741.183	695.582	664.969	645.706	633.694	630.388

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CANDELA TABULATION - (Cont.)

65	749.206	693.202	643.281	597.747	562.439	538.658	525.279	517.455	514.458
70	542.603	510.490	475.094	444.150	422.749	407.916	400.996	395.772	394.494
75	353.830	335.493	313.673	292.647	281.319	276.095	269.351	266.508	270.122
80	193.159	181.125	169.311	160.936	157.013	163.206	161.906	159.702	158.578
85	64.511	60.125	57.128	54.593	51.287	50.009	47.188	47.298	48.686
90	3.306	3.306	3.394	3.306	3.196	3.108	3.394	3.306	3.108
95	64.511	60.125	57.128	54.593	51.287	50.009	47.188	47.298	48.686
100	193.159	181.125	169.311	160.936	157.013	163.206	161.906	159.702	158.578
105	353.830	335.493	313.673	292.647	281.319	276.095	269.351	266.508	270.122
110	542.603	510.490	475.094	444.150	422.749	407.916	400.996	395.772	394.494
115	749.206	693.202	643.281	597.747	562.439	538.658	525.279	517.455	514.458
120	953.120	871.065	798.884	741.183	695.582	664.969	645.706	633.694	630.388
125	1140.063	1050.625	962.090	882.107	817.993	777.108	752.402	737.128	732.411
130	1297.958	1199.549	1104.094	1018.689	947.323	899.496	866.040	845.234	837.366
135	1418.737	1322.202	1223.903	1135.964	1062.637	1007.581	971.876	949.615	939.587
140	1515.228	1419.134	1325.750	1238.472	1167.966	1110.552	1072.951	1049.809	1038.326
145	1576.257	1493.430	1408.114	1330.334	1263.245	1210.613	1171.117	1150.708	1139.248
150	1616.215	1542.998	1470.861	1405.535	1345.300	1302.586	1263.884	1248.324	1238.273
155	1634.949	1575.816	1518.005	1462.486	1420.280	1382.966	1355.328	1340.825	1330.599
160	1634.971	1590.384	1547.274	1513.509	1481.154	1449.857	1436.479	1424.864	1416.334
165	1620.072	1595.894	1571.937	1548.398	1524.881	1514.038	1504.428	1495.612	1488.538
170	1606.584	1592.632	1578.725	1572.003	1565.655	1559.705	1554.129	1548.883	1544.365
175	1597.283	1594.836	1592.368	1589.877	1587.387	1584.918	1582.384	1580.048	1577.755
180	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084	1589.084

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	619.86	N.A.	5.40
0-30	1390.79	N.A.	12.20
0-40	2396.05	N.A.	21.10
0-60	4508.81	N.A.	39.60
0-80	5605.65	N.A.	49.30
0-90	5687.68	N.A.	50.00
10-90	5534.46	N.A.	48.70
20-40	1776.18	N.A.	15.60
20-50	2877.95	N.A.	25.30
40-70	2842.12	N.A.	25.00
60-80	1096.84	N.A.	9.60
70-80	367.49	N.A.	3.20
80-90	82.02	N.A.	0.70
90-110	449.51	N.A.	4.00
90-120	1178.87	N.A.	10.40
90-130	2189.86	N.A.	19.30
90-150	4296.89	N.A.	37.80
90-180	5687.68	N.A.	50.00
110-180	5238.17	N.A.	46.00
0-180	11375.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.22
10-20	466.64
20-30	770.93
30-40	1005.26
40-50	1101.77
50-60	1011.00
60-70	729.35
70-80	367.49
80-90	82.02
90-100	82.02
100-110	367.49
110-120	729.35
120-130	1011.00
130-140	1101.77
140-150	1005.26
150-160	770.93
160-170	466.64
170-180	153.22

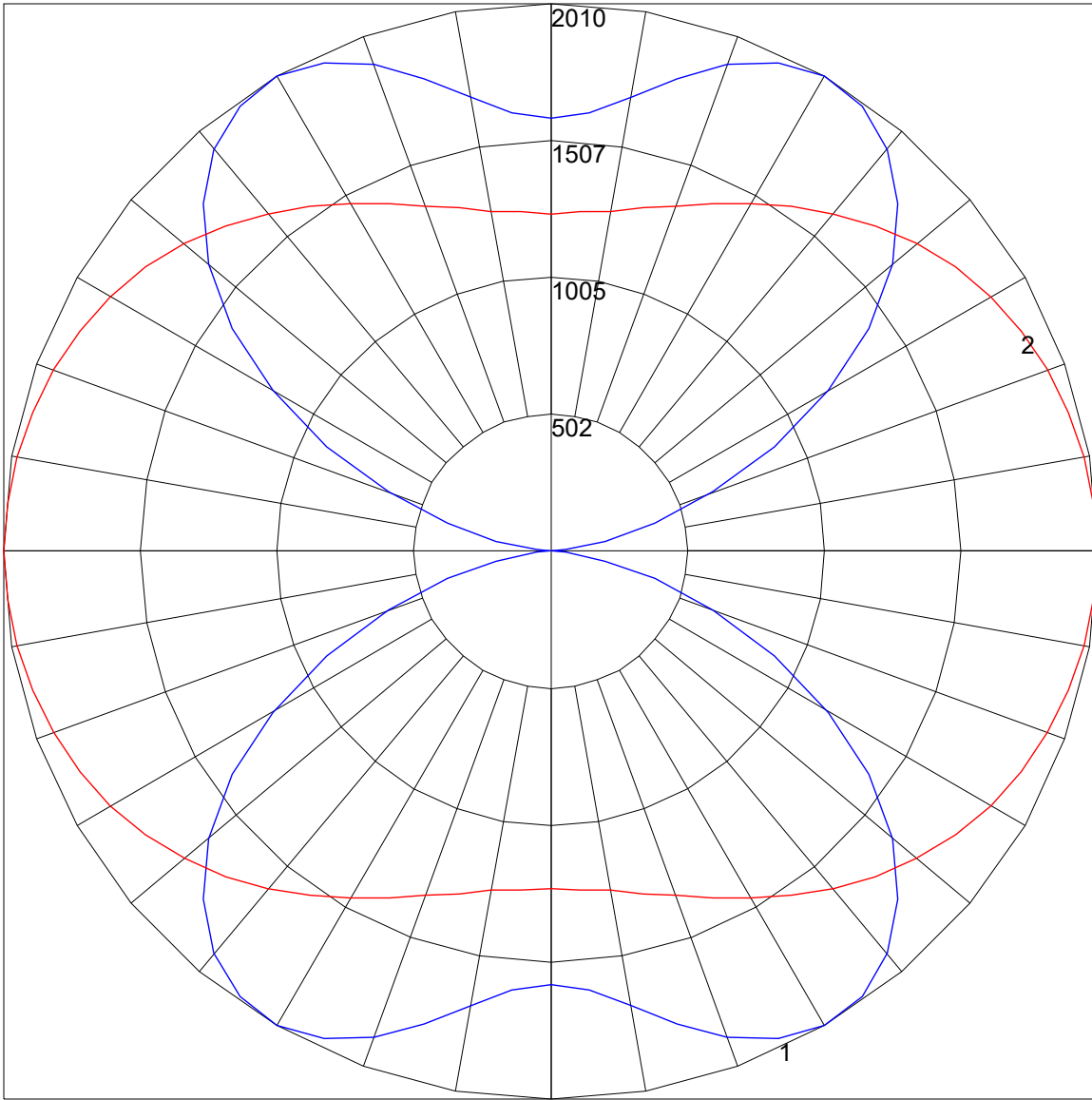
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	47	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	52	41	34	29	35	30	25	30	25	22	25	21	19	16
8	53	40	32	27	49	38	30	26	32	27	22	27	23	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	21	17	15	13
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 2009.563 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)