

**IES Report**

**DoubleBox™ | 107 | 120° 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	75	77	79	80
Total Lumens, 4' rail length (1219mm)	7314	7545	7699	7853
Lumens per foot (305mm)	1829	1886	1925	1963
Lumens per foot UP (305mm)	1326	1368	1396	1424
Lumens per foot DOWN (305mm)	502	518	529	540
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\_G1S1\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800107 (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-G1S1-BL  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/40° black symmetric 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	7699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	98.44
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)	0.08 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	1012	3454	37372
55	433	1294	19799
65	224	551	9468
75	112	263	4776
85	29	40	2204

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</b>	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876
<b>5</b>	2148.900	2146.696	2146.696	2148.900	2148.900	2151.104	2155.512	2159.920	2164.328	2168.736
<b>10</b>	1864.584	1864.584	1868.992	1880.012	1893.236	1910.868	1930.704	1954.948	1981.396	2010.048
<b>15</b>	1470.068	1470.068	1483.292	1505.332	1533.984	1571.452	1617.736	1670.632	1730.140	1789.648
<b>20</b>	1013.840	1013.840	1033.676	1066.736	1115.224	1176.936	1247.464	1315.788	1390.724	1467.864
<b>25</b>	630.344	639.160	665.608	703.076	755.972	808.868	866.172	936.700	1020.452	1117.428
<b>30</b>	370.272	374.680	392.312	431.984	471.656	511.328	555.408	619.324	703.076	786.828
<b>35</b>	211.584	213.788	227.012	251.256	277.704	304.152	335.008	392.312	447.412	522.348
<b>40</b>	116.812	121.220	130.036	143.260	158.688	174.116	202.768	238.032	279.908	337.212
<b>45</b>	72.732	74.936	79.344	85.956	92.568	101.384	123.424	143.260	171.912	198.360
<b>50</b>	48.488	48.488	50.692	55.100	57.304	66.120	77.140	88.160	103.588	125.628
<b>55</b>	33.060	33.060	35.264	37.468	39.672	44.080	48.488	55.100	66.120	77.140
<b>60</b>	24.244	24.244	24.244	26.448	28.652	30.856	33.060	37.468	44.080	50.692
<b>65</b>	17.632	17.632	17.632	19.836	19.836	22.040	24.244	26.448	28.652	33.060
<b>70</b>	13.224	13.224	13.224	15.428	15.428	15.428	17.632	17.632	19.836	22.040
<b>75</b>	8.816	8.816	8.816	11.020	11.020	11.020	11.020	13.224	13.224	15.428
<b>80</b>	2.204	4.408	4.408	4.408	4.408	4.408	6.612	6.612	6.612	8.816
<b>85</b>	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
<b>90</b>	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
<b>95</b>	83.752	88.160	88.160	90.364	92.568	96.976	103.588	103.588	101.384	99.180
<b>100</b>	299.744	277.704	282.112	282.112	282.112	279.908	279.908	282.112	271.092	260.072
<b>105</b>	526.756	491.492	493.696	498.104	495.900	495.900	491.492	482.676	473.860	454.024
<b>110</b>	773.604	760.380	727.320	725.116	729.524	727.320	722.912	709.688	685.444	650.180
<b>115</b>	1024.860	1022.656	998.412	971.964	963.148	956.536	952.128	934.496	912.456	870.580
<b>120</b>	1269.504	1267.300	1262.892	1249.668	1229.832	1212.200	1196.772	1176.936	1135.060	1073.348
<b>125</b>	1505.332	1500.924	1496.516	1489.904	1478.884	1454.640	1434.804	1384.112	1331.216	1256.280
<b>130</b>	1697.080	1694.876	1686.060	1675.040	1659.612	1637.572	1602.308	1549.412	1478.884	1386.316
<b>135</b>	1851.360	1846.952	1838.136	1820.504	1798.464	1772.016	1725.732	1675.040	1586.880	1496.516
<b>140</b>	1959.356	1952.744	1939.520	1919.684	1895.440	1862.380	1807.280	1738.956	1657.408	1551.616
<b>145</b>	2014.456	2007.844	1992.416	1970.376	1935.112	1893.236	1842.544	1760.996	1675.040	1575.860
<b>150</b>	2005.640	1996.824	1979.192	1950.540	1913.072	1864.584	1809.484	1736.752	1653.000	1560.432
<b>155</b>	1910.868	1904.256	1888.828	1860.176	1824.912	1778.628	1723.528	1666.224	1593.492	1516.352
<b>160</b>	1758.792	1754.384	1738.956	1719.120	1686.060	1650.796	1608.920	1558.228	1505.332	1454.640
<b>165</b>	1573.656	1569.248	1560.432	1547.208	1529.576	1505.332	1478.884	1450.232	1419.376	1381.908
<b>170</b>	1406.152	1403.948	1399.540	1395.132	1388.520	1379.704	1368.684	1355.460	1342.236	1326.808
<b>175</b>	1302.564	1300.360	1300.360	1298.156	1295.952	1295.952	1293.748	1291.544	1289.340	1287.136
<b>180</b>	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300

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>
<b>0</b>	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876	2245.876
<b>5</b>	2173.144	2179.756	2186.368	2195.184	2201.796	2210.612	2219.428	2226.040	2234.856
<b>10</b>	2043.108	2076.168	2113.636	2126.860	2140.084	2155.512	2170.940	2188.572	2206.204
<b>15</b>	1840.340	1884.420	1932.908	1985.804	2045.312	2065.148	2087.188	2109.228	2135.676
<b>20</b>	1547.208	1633.164	1723.528	1787.444	1860.176	1937.316	1963.764	1992.416	2027.680
<b>25</b>	1223.220	1329.012	1439.212	1558.228	1646.388	1734.548	1802.872	1835.932	1873.400
<b>30</b>	892.620	1020.452	1146.080	1273.912	1403.948	1498.720	1600.104	1635.368	1679.448
<b>35</b>	621.528	731.728	852.948	974.168	1108.612	1225.424	1329.012	1379.704	1421.580
<b>40</b>	398.924	495.900	590.672	694.260	813.276	930.088	1024.860	1086.572	1124.040
<b>45</b>	249.052	306.356	381.292	471.656	564.224	663.404	731.728	769.196	782.420
<b>50</b>	152.076	189.544	240.236	299.744	363.660	434.188	491.492	533.368	559.816
<b>55</b>	94.772	116.812	145.464	182.932	224.808	268.888	308.560	335.008	343.824
<b>60</b>	59.508	72.732	90.364	112.404	138.852	167.504	191.748	200.564	209.380

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	39.672	46.284	57.304	70.528	83.752	99.180	112.404	121.220	125.628
<b>70</b>	26.448	30.856	35.264	44.080	50.692	61.712	68.324	72.732	77.140
<b>75</b>	17.632	19.836	22.040	26.448	30.856	35.264	39.672	41.876	41.876
<b>80</b>	8.816	11.020	13.224	13.224	15.428	17.632	19.836	22.040	22.040
<b>85</b>	2.204	4.408	4.408	4.408	4.408	6.612	6.612	6.612	8.816
<b>90</b>	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
<b>95</b>	96.976	85.956	72.732	63.916	55.100	52.896	48.488	50.692	50.692
<b>100</b>	246.848	222.604	196.156	180.728	169.708	165.300	160.892	160.892	160.892
<b>105</b>	418.760	379.088	337.212	299.744	277.704	262.276	257.868	255.664	253.460
<b>110</b>	610.508	555.408	493.696	438.596	405.536	385.700	374.680	370.272	370.272
<b>115</b>	804.460	727.320	647.976	577.448	531.164	502.512	487.084	480.472	482.676
<b>120</b>	991.800	890.416	791.236	705.280	650.180	617.120	597.284	588.468	586.264
<b>125</b>	1146.080	1029.268	919.068	817.684	758.176	718.504	694.260	683.240	681.036
<b>130</b>	1280.524	1152.692	1033.676	932.292	855.152	804.460	771.400	753.768	749.360
<b>135</b>	1370.888	1247.464	1126.244	1024.860	945.516	894.824	863.968	846.336	839.724
<b>140</b>	1437.008	1313.584	1201.180	1099.796	1027.064	969.760	938.904	919.068	912.456
<b>145</b>	1463.456	1357.664	1254.076	1165.916	1095.388	1042.492	1007.228	989.596	980.780
<b>150</b>	1465.660	1373.092	1284.932	1212.200	1146.080	1106.408	1068.940	1057.920	1049.104
<b>155</b>	1439.212	1368.684	1302.564	1238.648	1194.568	1157.100	1128.448	1115.224	1106.408
<b>160</b>	1403.948	1348.848	1298.156	1262.892	1227.628	1194.568	1181.344	1170.324	1159.304
<b>165</b>	1348.848	1322.400	1295.952	1269.504	1243.056	1232.036	1223.220	1214.404	1207.792
<b>170</b>	1311.380	1293.748	1276.116	1271.708	1265.096	1258.484	1251.872	1245.260	1240.852
<b>175</b>	1282.728	1280.524	1278.320	1276.116	1271.708	1269.504	1267.300	1262.892	1260.688
<b>180</b>	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300	1267.300

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	698.37	N.A.	9.10
0-30	1243.7	N.A.	16.20
0-40	1665.21	N.A.	21.60
0-60	2035.04	N.A.	26.40
0-80	2109.88	N.A.	27.40
0-90	2115.23	N.A.	27.50
10-90	1912.27	N.A.	24.80
20-40	966.85	N.A.	12.60
20-50	1216.22	N.A.	15.80
40-70	422.78	N.A.	5.50
60-80	74.83	N.A.	1.00
70-80	21.89	N.A.	0.30
80-90	5.35	N.A.	0.10
90-110	539.33	N.A.	7.00
90-120	1314.89	N.A.	17.10
90-130	2335.95	N.A.	30.30
90-150	4367.3	N.A.	56.70
90-180	5584.01	N.A.	72.50
110-180	5044.68	N.A.	65.50
0-180	7699.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.96
10-20	495.41
20-30	545.33
30-40	421.52
40-50	249.38
50-60	120.45
60-70	52.95
70-80	21.89
80-90	5.35
90-100	108.65
100-110	430.67
110-120	775.57
120-130	1021.05
130-140	1077.17
140-150	954.19
150-160	697.43
160-170	395.40
170-180	123.88

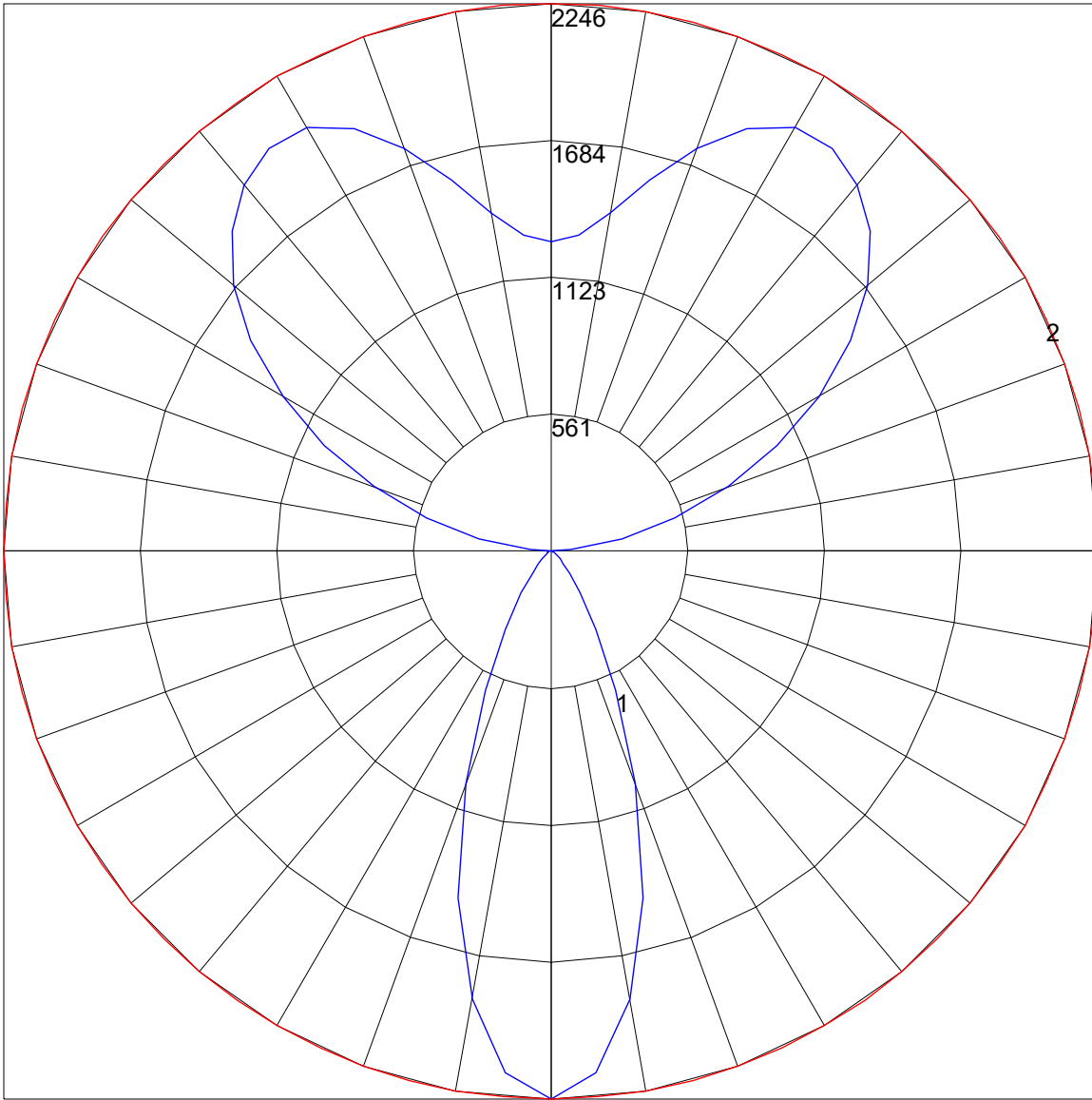
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	71	71	71	52	52	52	35	35	35	27
1	94	90	87	84	84	81	78	75	63	62	60	47	46	45	33	32	32	25
2	86	80	75	70	77	72	67	64	57	54	51	43	41	40	30	29	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	24	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	22	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	32	49	40	34	29	32	28	25	26	23	21	19	18	16	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2245.876 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)