

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric, down | 90 CRI | HO**

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	79	80	82
Total Lumens, 4' rail length (1219mm)	7456	7691	7848	8005
Lumens per foot (305mm)	1864	1923	1962	2001
Lumens per foot UP (305mm)	1217	1255	1281	1307
Lumens per foot DOWN (305mm)	647	668	681	695
Input Power (W), 4' rail length (1219mm)	98.44	98.44	98.44	98.44
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	96	96	96	96

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\_359\_G1S2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L011800104 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 1/9/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-DB-48-Z-HO-359-G1S2  
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 120° batwing lens up with white polycarbonate reflectors/60° white 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	7848
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	3304	8007	37662
55	1816	3855	25711
65	1112	1962	17327
75	606	940	11052
85	25	103	4274

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>	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5
<b>5</b>	1939.9	1939.9	1938.0	1939.9	1939.9	1939.9	1939.9	1939.9	1941.8	1941.8
<b>10</b>	1850.6	1848.7	1848.7	1852.5	1854.4	1860.1	1865.8	1869.6	1873.4	1879.1
<b>15</b>	1673.9	1673.9	1681.5	1691.0	1702.4	1710.0	1723.3	1738.5	1757.5	1778.4
<b>20</b>	1415.5	1413.6	1426.9	1442.1	1457.3	1482.0	1514.3	1550.4	1592.2	1620.7
<b>25</b>	1103.9	1100.1	1111.5	1134.3	1166.6	1206.5	1257.8	1316.7	1360.4	1407.9
<b>30</b>	780.9	784.7	803.7	834.1	874.0	923.4	978.5	1035.5	1100.1	1162.8
<b>35</b>	516.8	526.3	549.1	581.4	619.4	657.4	703.0	765.7	832.2	900.6
<b>40</b>	342.0	351.5	370.5	395.2	425.6	450.3	492.1	541.5	590.9	661.2
<b>45</b>	237.5	247.0	258.4	275.5	290.7	307.8	343.9	372.4	418.0	459.8
<b>50</b>	178.6	182.4	188.1	199.5	207.1	220.4	239.4	262.2	290.7	324.9
<b>55</b>	138.7	140.6	146.3	152.0	155.8	163.4	172.9	190.0	207.1	229.9
<b>60</b>	110.2	112.1	115.9	117.8	119.7	123.5	129.2	136.8	150.1	165.3
<b>65</b>	87.4	89.3	89.3	89.3	91.2	93.1	96.9	102.6	110.2	117.8
<b>70</b>	66.5	68.4	66.5	66.5	68.4	70.3	72.2	74.1	77.9	83.6
<b>75</b>	47.5	45.6	47.5	47.5	47.5	49.4	49.4	51.3	53.2	55.1
<b>80</b>	20.9	19.0	22.8	22.8	22.8	22.8	24.7	26.6	28.5	30.4
<b>85</b>	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7
<b>90</b>	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
<b>95</b>	64.6	83.6	81.7	83.6	85.5	89.3	96.9	98.8	95.0	96.9
<b>100</b>	279.3	260.3	264.1	264.1	266.0	264.1	264.1	262.2	256.5	247.0
<b>105</b>	486.4	461.7	461.7	465.5	463.6	461.7	456.0	448.4	438.9	418.0
<b>110</b>	704.9	697.3	674.5	670.7	672.6	666.9	657.4	655.5	630.8	602.3
<b>115</b>	932.9	934.8	917.7	900.6	891.1	889.2	877.8	862.6	839.8	796.1
<b>120</b>	1155.2	1155.2	1153.3	1140.0	1124.8	1109.6	1092.5	1073.5	1033.6	974.7
<b>125</b>	1360.4	1358.5	1356.6	1350.9	1341.4	1318.6	1299.6	1254.0	1206.5	1136.2
<b>130</b>	1535.2	1533.3	1525.7	1514.3	1501.0	1478.2	1444.0	1398.4	1333.8	1250.2
<b>135</b>	1670.1	1668.2	1658.7	1643.5	1624.5	1597.9	1552.3	1506.7	1428.8	1349.0
<b>140</b>	1765.1	1761.3	1748.0	1729.0	1704.3	1673.9	1624.5	1565.6	1493.4	1400.3
<b>145</b>	1814.5	1808.8	1793.6	1772.7	1740.4	1702.4	1656.8	1586.5	1512.4	1426.9
<b>150</b>	1806.9	1797.4	1784.1	1757.5	1723.3	1681.5	1632.1	1571.3	1499.1	1423.1
<b>155</b>	1730.9	1723.3	1711.9	1685.3	1653.0	1613.1	1567.5	1518.1	1457.3	1392.7
<b>160</b>	1607.4	1603.6	1590.3	1573.2	1544.7	1512.4	1476.3	1434.5	1390.8	1349.0
<b>165</b>	1457.3	1453.5	1444.0	1434.5	1419.3	1398.4	1375.6	1349.0	1322.4	1292.0
<b>170</b>	1322.4	1320.5	1316.7	1311.0	1305.3	1297.7	1290.1	1278.7	1265.4	1252.1
<b>175</b>	1236.9	1236.9	1236.9	1235.0	1233.1	1231.2	1229.3	1227.4	1225.5	1223.6
<b>180</b>	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3

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</b>	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5
<b>5</b>	1943.7	1945.6	1945.6	1947.5	1949.4	1951.3	1953.2	1955.1	1958.9
<b>10</b>	1886.7	1896.2	1905.7	1905.7	1907.6	1911.4	1913.3	1917.1	1922.8
<b>15</b>	1793.6	1803.1	1814.5	1825.9	1841.1	1843.0	1846.8	1852.5	1858.2
<b>20</b>	1647.3	1673.9	1700.5	1711.9	1725.2	1742.3	1746.1	1749.9	1757.5
<b>25</b>	1463.0	1501.0	1529.5	1563.7	1578.9	1594.1	1607.4	1609.3	1618.8
<b>30</b>	1223.6	1282.5	1331.9	1362.3	1398.4	1409.8	1428.8	1430.7	1442.1
<b>35</b>	972.8	1041.2	1096.3	1141.9	1174.2	1198.9	1214.1	1219.8	1229.3
<b>40</b>	727.7	796.1	855.0	908.2	946.2	978.5	989.9	997.5	1001.3
<b>45</b>	522.5	579.5	634.6	684.0	723.9	761.9	777.1	784.7	788.5
<b>50</b>	362.9	414.2	465.5	507.3	535.8	554.8	568.1	577.6	577.6
<b>55</b>	258.4	290.7	326.8	364.8	391.4	414.2	431.3	440.8	446.5
<b>60</b>	184.3	201.4	229.9	256.5	279.3	298.3	311.6	319.2	323.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	131.1	146.3	161.5	180.5	197.6	209.0	218.5	224.2	229.9
<b>70</b>	91.2	100.7	110.2	121.6	133.0	142.5	150.1	161.5	167.2
<b>75</b>	58.9	64.6	70.3	76.0	83.6	89.3	93.1	95.0	96.9
<b>80</b>	32.3	36.1	38.0	41.8	43.7	47.5	47.5	49.4	49.4
<b>85</b>	7.6	9.5	11.4	11.4	15.2	17.1	17.1	17.1	17.1
<b>90</b>	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
<b>95</b>	89.3	79.8	70.3	60.8	55.1	51.3	45.6	47.5	47.5
<b>100</b>	228.0	205.2	180.5	163.4	153.9	148.2	146.3	142.5	144.4
<b>105</b>	387.6	351.5	311.6	277.4	258.4	247.0	243.2	239.4	239.4
<b>110</b>	562.4	509.2	452.2	406.6	376.2	362.9	351.5	347.7	349.6
<b>115</b>	735.3	657.4	590.9	533.9	494.0	471.2	456.0	450.3	452.2
<b>120</b>	900.6	811.3	723.9	649.8	600.4	573.8	560.5	552.9	549.1
<b>125</b>	1039.3	936.7	839.8	754.3	695.4	663.1	646.0	638.4	632.7
<b>130</b>	1155.2	1048.8	946.2	858.8	794.2	754.3	731.5	720.1	716.3
<b>135</b>	1240.7	1136.2	1031.7	946.2	881.6	836.0	811.3	796.1	792.3
<b>140</b>	1303.4	1200.8	1103.9	1018.4	957.6	910.1	881.6	866.4	860.7
<b>145</b>	1333.8	1244.5	1157.1	1081.1	1022.2	978.5	950.0	934.8	927.2
<b>150</b>	1343.3	1265.4	1189.4	1128.6	1073.5	1041.2	1010.8	999.4	991.8
<b>155</b>	1330.0	1269.2	1212.2	1159.0	1121.0	1090.6	1067.8	1056.4	1048.8
<b>160</b>	1303.4	1257.8	1214.1	1185.6	1157.1	1128.6	1119.1	1109.6	1102.0
<b>165</b>	1263.5	1242.6	1219.8	1197.0	1176.1	1166.6	1159.0	1153.3	1147.6
<b>170</b>	1238.8	1223.6	1210.3	1204.6	1198.9	1193.2	1187.5	1183.7	1178.0
<b>175</b>	1221.7	1219.8	1216.0	1214.1	1212.2	1210.3	1206.5	1204.6	1202.7
<b>180</b>	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	677.84	N.A.	8.60
0-30	1309.27	N.A.	16.70
0-40	1869.78	N.A.	23.80
0-60	2501.76	N.A.	31.90
0-80	2711.06	N.A.	34.50
0-90	2725.18	N.A.	34.70
10-90	2541.52	N.A.	32.40
20-40	1191.94	N.A.	15.20
20-50	1582.29	N.A.	20.20
40-70	772.92	N.A.	9.80
60-80	209.29	N.A.	2.70
70-80	68.36	N.A.	0.90
80-90	14.12	N.A.	0.20
90-110	500.79	N.A.	6.40
90-120	1214.4	N.A.	15.50
90-130	2145.28	N.A.	27.30
90-150	3994.81	N.A.	50.90
90-180	5123.23	N.A.	65.30
110-180	4622.44	N.A.	58.90
0-180	7848.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	183.66
10-20	494.18
20-30	631.44
30-40	560.50
40-50	390.35
50-60	241.64
60-70	140.93
70-80	68.36
80-90	14.12
90-100	101.25
100-110	399.54
110-120	713.60
120-130	930.88
130-140	980.03
140-150	869.50
150-160	641.30
160-170	369.53
170-180	117.59

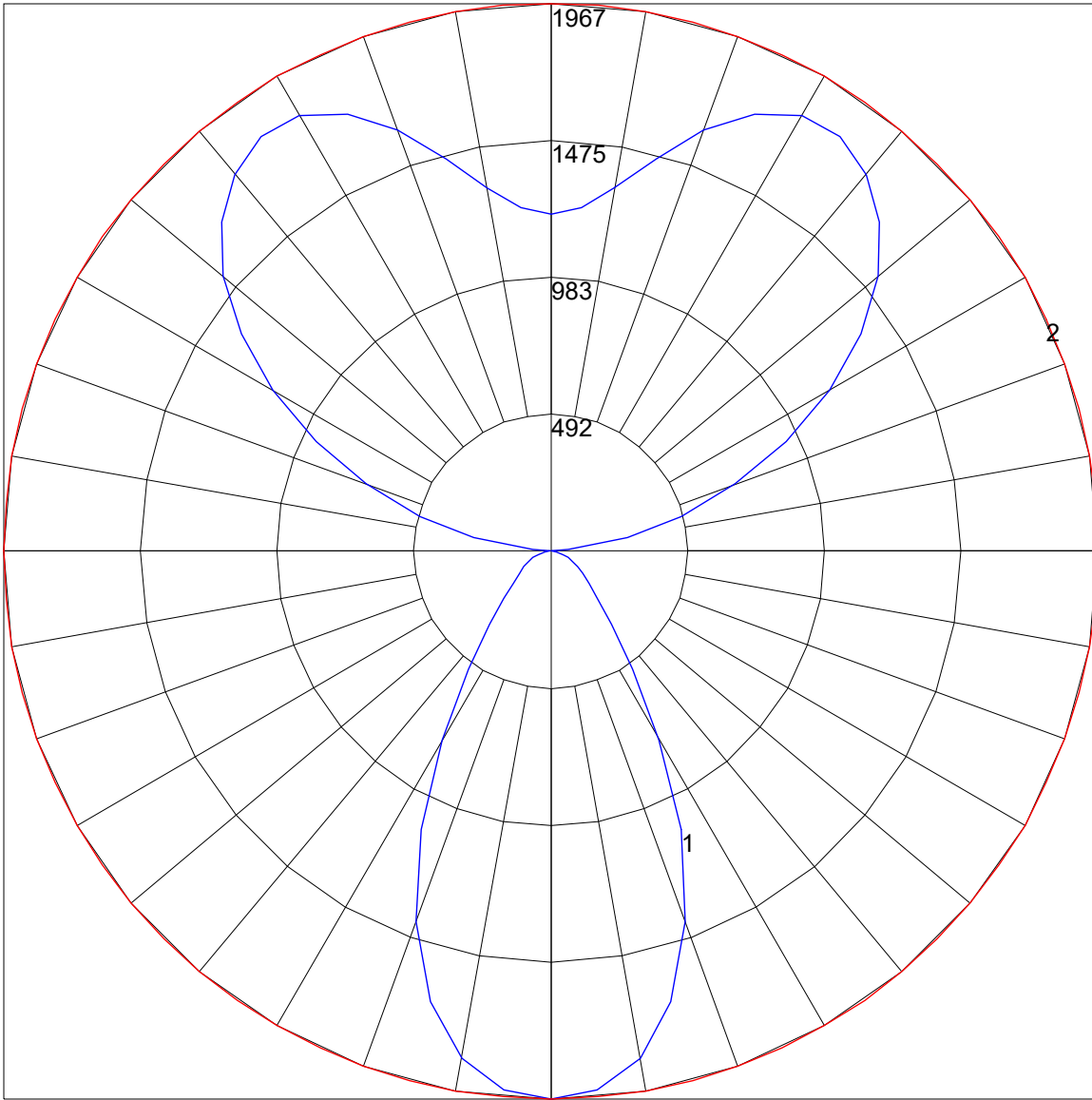
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31
2	87	81	75	71	79	74	69	65	60	56	54	47	45	43	35	34	33	28
3	80	72	65	60	73	66	60	55	53	50	46	42	40	38	32	30	29	25
4	74	64	57	52	67	59	53	48	48	44	40	38	35	33	29	27	26	22
5	68	58	50	45	62	53	47	42	44	39	36	35	32	29	27	25	23	20
6	63	52	45	40	57	48	41	37	40	35	32	32	29	26	25	23	21	18
7	59	47	40	35	53	44	37	33	36	32	28	29	26	24	23	21	19	17
8	55	43	36	31	50	40	34	29	33	29	25	27	24	21	21	19	18	15
9	51	40	33	28	46	37	31	26	31	26	23	25	22	20	20	18	16	14
10	48	37	30	25	44	34	28	24	29	24	21	23	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 1966.5 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.)