

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 40° Symmetric, down | 90 CRI | HO**

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	71	73	74	76
Total Lumens, 4' rail length (1219mm)	6920	7139	7285	7430
Lumens per foot (305mm)	1730	1785	1821	1858
Lumens per foot UP (305mm)	1208	1246	1271	1297
Lumens per foot DOWN (305mm)	523	539	550	561
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\_G1S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800103 (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-359-G1S1  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/40° 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	7285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
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	2141	4434	40566
55	1343	2421	25164
65	871	1393	15322
75	461	713	9535
85	25	103	3324

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>	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0
<b>5</b>	1989.3	1989.3	1989.3	1989.3	1991.2	1995.0	1996.9	2000.7	2006.4	2012.1
<b>10</b>	1706.2	1706.2	1710.0	1719.5	1732.8	1749.9	1770.8	1793.6	1820.2	1848.7
<b>15</b>	1312.9	1312.9	1326.2	1347.1	1375.6	1407.9	1449.7	1497.2	1554.2	1613.1
<b>20</b>	910.1	913.9	934.8	963.3	997.5	1043.1	1098.2	1162.8	1233.1	1312.9
<b>25</b>	596.6	600.4	617.5	642.2	676.4	722.0	779.0	841.7	921.5	1014.6
<b>30</b>	383.8	385.7	399.0	421.8	450.3	486.4	526.3	585.2	659.3	735.3
<b>35</b>	264.1	266.0	273.6	286.9	305.9	328.7	357.2	404.7	452.2	516.8
<b>40</b>	193.8	195.7	199.5	209.0	222.3	233.7	256.5	283.1	313.5	364.8
<b>45</b>	153.9	155.8	157.7	163.4	171.0	176.7	191.9	205.2	229.9	254.6
<b>50</b>	125.4	125.4	127.3	131.1	136.8	142.5	148.2	159.6	171.0	191.9
<b>55</b>	102.6	104.5	106.4	108.3	110.2	114.0	117.8	125.4	133.0	144.4
<b>60</b>	85.5	85.5	85.5	87.4	87.4	89.3	93.1	96.9	102.6	110.2
<b>65</b>	68.4	68.4	68.4	68.4	68.4	70.3	72.2	74.1	77.9	83.6
<b>70</b>	51.3	51.3	51.3	51.3	53.2	53.2	55.1	55.1	57.0	60.8
<b>75</b>	36.1	36.1	36.1	38.0	38.0	38.0	38.0	38.0	39.9	41.8
<b>80</b>	17.1	15.2	19.0	19.0	19.0	19.0	20.9	20.9	22.8	22.8
<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>	79.8	79.8	77.9	77.9	79.8	79.8	83.6	85.5	89.3	89.3
<b>100</b>	271.7	245.1	250.8	250.8	250.8	248.9	247.0	245.1	239.4	235.6
<b>105</b>	469.3	435.1	440.8	442.7	440.8	440.8	437.0	429.4	421.8	404.7
<b>110</b>	691.6	676.4	644.1	640.3	646.0	647.9	640.3	630.8	604.2	583.3
<b>115</b>	913.9	912.0	885.4	864.5	856.9	853.1	847.4	834.1	813.2	777.1
<b>120</b>	1132.4	1128.6	1124.8	1107.7	1088.7	1073.5	1060.2	1043.1	1008.9	959.5
<b>125</b>	1337.6	1333.8	1330.0	1324.3	1312.9	1290.1	1274.9	1233.1	1189.4	1126.7
<b>130</b>	1516.2	1512.4	1504.8	1493.4	1482.0	1461.1	1430.7	1387.0	1328.1	1248.3
<b>135</b>	1654.9	1651.1	1643.5	1628.3	1609.3	1586.5	1544.7	1501.0	1426.9	1349.0
<b>140</b>	1753.7	1748.0	1736.6	1719.5	1696.7	1668.2	1620.7	1561.8	1493.4	1404.1
<b>145</b>	1805.0	1797.4	1784.1	1765.1	1734.7	1698.6	1656.8	1586.5	1516.2	1432.6
<b>150</b>	1797.4	1791.7	1778.4	1751.8	1719.5	1679.6	1632.1	1571.3	1502.9	1428.8
<b>155</b>	1727.1	1719.5	1708.1	1683.4	1653.0	1615.0	1569.4	1521.9	1461.1	1400.3
<b>160</b>	1605.5	1601.7	1590.3	1573.2	1546.6	1516.2	1482.0	1440.2	1396.5	1354.7
<b>165</b>	1457.3	1455.4	1447.8	1436.4	1423.1	1402.2	1381.3	1356.6	1330.0	1299.6
<b>170</b>	1324.3	1322.4	1318.6	1314.8	1309.1	1301.5	1293.9	1282.5	1269.2	1257.8
<b>175</b>	1238.8	1238.8	1236.9	1236.9	1235.0	1233.1	1231.2	1229.3	1227.4	1225.5
<b>180</b>	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3	1210.3

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>	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0
<b>5</b>	2017.8	2023.5	2031.1	2038.7	2046.3	2053.9	2061.5	2071.0	2080.5
<b>10</b>	1882.9	1919.0	1957.0	1970.3	1983.6	1998.8	2014.0	2031.1	2048.2
<b>15</b>	1670.1	1719.5	1774.6	1833.5	1900.0	1920.9	1943.7	1968.4	1995.0
<b>20</b>	1396.5	1483.9	1575.1	1647.3	1727.1	1812.6	1839.2	1869.6	1903.8
<b>25</b>	1115.3	1216.0	1320.5	1432.6	1527.6	1622.6	1694.8	1727.1	1767.0
<b>30</b>	832.2	944.3	1056.4	1178.0	1303.4	1406.0	1512.4	1546.6	1590.3
<b>35</b>	600.4	693.5	805.6	919.6	1045.0	1160.9	1267.3	1320.5	1362.3
<b>40</b>	418.0	497.8	583.3	680.2	792.3	910.1	1007.0	1067.8	1103.9
<b>45</b>	298.3	347.7	416.1	495.9	583.3	672.6	756.2	818.9	849.3
<b>50</b>	214.7	248.9	296.4	353.4	418.0	486.4	549.1	596.6	617.5
<b>55</b>	161.5	182.4	210.9	248.9	294.5	342.0	385.7	419.9	437.0
<b>60</b>	121.6	134.9	153.9	178.6	207.1	237.5	267.9	290.7	302.1

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	91.2	98.8	112.1	127.3	146.3	167.2	184.3	197.6	203.3
<b>70</b>	64.6	70.3	77.9	87.4	98.8	110.2	123.5	144.4	144.4
<b>75</b>	43.7	47.5	51.3	57.0	62.7	70.3	74.1	79.8	83.6
<b>80</b>	24.7	26.6	28.5	30.4	34.2	36.1	39.9	41.8	43.7
<b>85</b>	7.6	7.6	9.5	9.5	13.3	13.3	13.3	13.3	13.3
<b>90</b>	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
<b>95</b>	83.6	76.0	68.4	60.8	53.2	51.3	47.5	47.5	49.4
<b>100</b>	222.3	201.4	180.5	165.3	153.9	148.2	146.3	144.4	144.4
<b>105</b>	378.1	343.9	309.7	277.4	256.5	248.9	241.3	237.5	241.3
<b>110</b>	547.2	501.6	450.3	406.6	378.1	361.0	351.5	345.8	345.8
<b>115</b>	716.3	646.0	589.0	533.9	495.9	471.2	457.9	452.2	450.3
<b>120</b>	893.0	809.4	723.9	653.6	604.2	575.7	560.5	552.9	552.9
<b>125</b>	1037.4	940.5	843.6	760.0	703.0	666.9	646.0	636.5	634.6
<b>130</b>	1159.0	1052.6	951.9	864.5	799.9	761.9	737.2	723.9	720.1
<b>135</b>	1244.5	1141.9	1039.3	953.8	887.3	843.6	817.0	803.7	798.0
<b>140</b>	1309.1	1206.5	1111.5	1026.0	965.2	917.7	891.1	874.0	866.4
<b>145</b>	1339.5	1250.2	1164.7	1088.7	1029.8	986.1	957.6	942.4	934.8
<b>150</b>	1350.9	1273.0	1198.9	1138.1	1083.0	1048.8	1016.5	1007.0	999.4
<b>155</b>	1337.6	1276.8	1219.8	1166.6	1130.5	1098.2	1075.4	1064.0	1056.4
<b>160</b>	1311.0	1265.4	1221.7	1193.2	1164.7	1136.2	1126.7	1117.2	1109.6
<b>165</b>	1271.1	1250.2	1227.4	1204.6	1183.7	1174.2	1166.6	1159.0	1153.3
<b>170</b>	1244.5	1229.3	1216.0	1210.3	1204.6	1198.9	1193.2	1189.4	1183.7
<b>175</b>	1223.6	1221.7	1219.8	1217.9	1214.1	1212.2	1210.3	1208.4	1204.6
<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	640.53	N.A.	8.80
0-30	1143.88	N.A.	15.70
0-40	1558.56	N.A.	21.40
0-60	2028.22	N.A.	27.80
0-80	2188.53	N.A.	30.00
0-90	2200.19	N.A.	30.20
10-90	2012.27	N.A.	27.60
20-40	918.03	N.A.	12.60
20-50	1205.98	N.A.	16.60
40-70	577.01	N.A.	7.90
60-80	160.30	N.A.	2.20
70-80	52.96	N.A.	0.70
80-90	11.66	N.A.	0.20
90-110	484.43	N.A.	6.70
90-120	1182.49	N.A.	16.20
90-130	2103.81	N.A.	28.90
90-150	3952.32	N.A.	54.30
90-180	5084.35	N.A.	69.80
110-180	4599.93	N.A.	63.10
0-180	7284.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	187.92
10-20	452.61
20-30	503.35
30-40	414.68
40-50	287.95
50-60	181.72
60-70	107.34
70-80	52.96
80-90	11.66
90-100	96.91
100-110	387.51
110-120	698.06
120-130	921.32
130-140	978.07
140-150	870.43
150-160	643.14
160-170	371.05
170-180	117.85

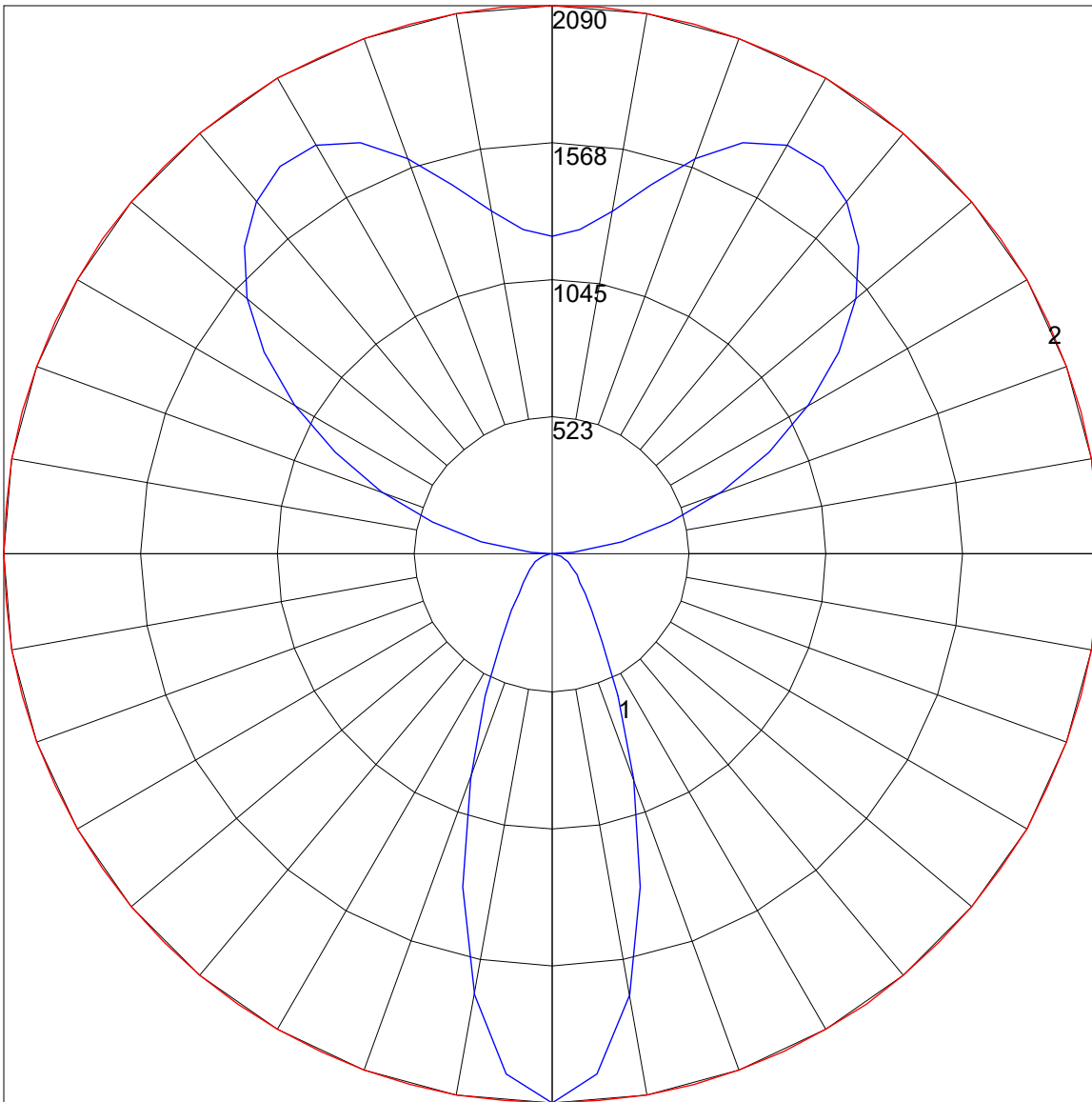
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	87	84	85	81	78	76	65	63	61	49	48	47	35	34	34	27
2	87	80	74	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24
3	80	71	65	59	71	64	59	54	52	48	45	40	38	35	29	28	27	22
4	73	64	56	51	66	58	52	47	47	42	39	36	34	31	27	25	24	20
5	68	57	50	44	61	52	46	41	42	38	34	33	30	28	25	23	21	18
6	63	52	44	39	56	47	41	36	38	34	31	30	27	25	23	21	20	16
7	58	47	40	35	52	43	37	32	35	31	27	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	39	33	28	46	36	30	26	30	25	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2090 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.)