

**IES Report**

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	101	103	105
Total Lumens, 4' rail length (1219mm)	9546	9847	10048	10249
Lumens per foot (305mm)	2386	2462	2512	2562
Lumens per foot UP (305mm)	1235	1274	1300	1326
Lumens per foot DOWN (305mm)	1152	1188	1212	1237
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\_G12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
 [ISSUEDATE] 1/9/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-DB-48-Z-HO-359-G12  
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,  
 [MORE] 120° batwing lens up with white polycarbonate reflectors/diffuse 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	10048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	15779	20084	55813
55	10297	13700	47702
65	5900	8229	39236
75	2303	3955	30555
85	251	549	18997

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>	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5
<b>5</b>	2012.1	2010.2	2010.2	2008.3	2008.3	2008.3	2008.3	2006.4	2006.4	2006.4
<b>10</b>	1976.0	1974.1	1974.1	1972.2	1972.2	1972.2	1974.1	1972.2	1972.2	1972.2
<b>15</b>	1917.1	1915.2	1913.3	1915.2	1915.2	1913.3	1913.3	1913.3	1917.1	1917.1
<b>20</b>	1835.4	1831.6	1833.5	1833.5	1831.6	1831.6	1833.5	1833.5	1835.4	1837.3
<b>25</b>	1730.9	1727.1	1729.0	1727.1	1729.0	1729.0	1729.0	1734.7	1732.8	1732.8
<b>30</b>	1605.5	1603.6	1603.6	1603.6	1603.6	1605.5	1609.3	1609.3	1609.3	1611.2
<b>35</b>	1463.0	1461.1	1459.2	1461.1	1461.1	1463.0	1466.8	1464.9	1468.7	1470.6
<b>40</b>	1303.4	1303.4	1303.4	1303.4	1305.3	1307.2	1309.1	1311.0	1312.9	1316.7
<b>45</b>	1134.3	1136.2	1136.2	1136.2	1138.1	1140.0	1143.8	1149.5	1147.6	1153.3
<b>50</b>	961.4	961.4	961.4	963.3	967.1	969.0	974.7	976.6	980.4	984.2
<b>55</b>	786.6	786.6	790.4	792.3	794.2	796.1	801.8	805.6	811.3	817.0
<b>60</b>	623.2	623.2	623.2	619.4	619.4	619.4	625.1	628.9	640.3	649.8
<b>65</b>	463.6	465.5	457.9	454.1	456.0	459.8	467.4	476.9	486.4	494.0
<b>70</b>	317.3	311.6	305.9	307.8	317.3	323.0	328.7	336.3	345.8	355.3
<b>75</b>	180.5	171.0	178.6	182.4	188.1	193.8	201.4	210.9	220.4	231.8
<b>80</b>	74.1	72.2	74.1	77.9	79.8	83.6	91.2	100.7	108.3	123.5
<b>85</b>	19.0	20.9	20.9	20.9	20.9	20.9	20.9	22.8	26.6	30.4
<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>	70.3	79.8	81.7	83.6	87.4	89.3	93.1	100.7	95.0	95.0
<b>100</b>	285.0	260.3	266.0	267.9	267.9	266.0	264.1	262.2	256.5	245.1
<b>105</b>	494.0	459.8	465.5	467.4	465.5	463.6	457.9	450.3	440.8	421.8
<b>110</b>	716.3	701.1	674.5	672.6	676.4	668.8	657.4	653.6	636.5	609.9
<b>115</b>	944.3	944.3	919.6	898.7	891.1	885.4	877.8	862.6	841.7	803.7
<b>120</b>	1166.6	1164.7	1159.0	1141.9	1124.8	1109.6	1094.4	1077.3	1037.4	984.2
<b>125</b>	1368.0	1366.1	1362.3	1354.7	1345.2	1322.4	1305.3	1261.6	1214.1	1149.5
<b>130</b>	1542.8	1539.0	1531.4	1520.0	1508.6	1485.8	1455.4	1411.7	1350.9	1271.1
<b>135</b>	1679.6	1677.7	1668.2	1653.0	1634.0	1611.2	1569.4	1527.6	1451.6	1375.6
<b>140</b>	1780.3	1776.5	1765.1	1748.0	1725.2	1696.7	1651.1	1592.2	1523.8	1432.6
<b>145</b>	1839.2	1831.6	1818.3	1799.3	1768.9	1732.8	1691.0	1620.7	1546.6	1461.1
<b>150</b>	1837.3	1829.7	1814.5	1789.8	1757.5	1715.7	1668.2	1605.5	1533.3	1455.4
<b>155</b>	1765.1	1757.5	1744.2	1719.5	1689.1	1649.2	1603.6	1554.2	1489.6	1425.0
<b>160</b>	1639.7	1635.9	1622.6	1605.5	1577.0	1544.7	1508.6	1464.9	1419.3	1377.5
<b>165</b>	1485.8	1482.0	1472.5	1463.0	1447.8	1426.9	1402.2	1377.5	1349.0	1318.6
<b>170</b>	1345.2	1343.3	1339.5	1333.8	1328.1	1320.5	1311.0	1299.6	1288.2	1274.9
<b>175</b>	1255.9	1255.9	1254.0	1252.1	1252.1	1250.2	1248.3	1246.4	1244.5	1242.6
<b>180</b>	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

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>	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5	2023.5
<b>5</b>	2006.4	2008.3	2008.3	2008.3	2008.3	2010.2	2010.2	2010.2	2012.1
<b>10</b>	1972.2	1974.1	1976.0	1974.1	1974.1	1974.1	1974.1	1976.0	1977.9
<b>15</b>	1917.1	1917.1	1917.1	1917.1	1920.9	1919.0	1919.0	1920.9	1922.8
<b>20</b>	1837.3	1837.3	1839.2	1837.3	1839.2	1843.0	1841.1	1841.1	1844.9
<b>25</b>	1736.6	1736.6	1736.6	1738.5	1738.5	1740.4	1740.4	1738.5	1740.4
<b>30</b>	1613.1	1613.1	1615.0	1615.0	1620.7	1620.7	1624.5	1618.8	1620.7
<b>35</b>	1472.5	1476.3	1474.4	1476.3	1478.2	1480.1	1482.0	1480.1	1483.9
<b>40</b>	1318.6	1320.5	1322.4	1324.3	1324.3	1324.3	1324.3	1326.2	1330.0
<b>45</b>	1153.3	1155.2	1157.1	1159.0	1162.8	1160.9	1160.9	1162.8	1168.5
<b>50</b>	989.9	989.9	989.9	991.8	995.6	993.7	993.7	993.7	991.8
<b>55</b>	820.8	822.7	822.7	826.5	826.5	826.5	824.6	826.5	828.4
<b>60</b>	659.3	653.6	659.3	666.9	668.8	665.0	659.3	653.6	651.7

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G12.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	507.3	513.0	516.8	520.6	520.6	520.6	520.6	518.7	520.6
<b>70</b>	364.8	372.4	380.0	383.8	385.7	387.6	387.6	387.6	389.5
<b>75</b>	241.3	250.8	258.4	262.2	266.0	266.0	267.9	269.8	267.9
<b>80</b>	131.1	140.6	157.7	163.4	163.4	161.5	163.4	165.3	163.4
<b>85</b>	36.1	41.8	49.4	60.8	66.5	68.4	74.1	76.0	76.0
<b>90</b>	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
<b>95</b>	91.2	79.8	70.3	64.6	55.1	51.3	49.4	49.4	47.5
<b>100</b>	229.9	209.0	184.3	169.1	159.6	152.0	150.1	150.1	148.2
<b>105</b>	391.4	355.3	317.3	285.0	264.1	252.7	248.9	247.0	247.0
<b>110</b>	568.1	514.9	459.8	416.1	383.8	368.6	362.9	357.2	355.3
<b>115</b>	744.8	663.1	596.6	543.4	503.5	480.7	469.3	463.6	461.7
<b>120</b>	913.9	826.5	733.4	665.0	619.4	589.0	571.9	566.2	566.2
<b>125</b>	1054.5	953.8	855.0	773.3	720.1	676.4	647.9	640.3	636.5
<b>130</b>	1178.0	1067.8	965.2	877.8	813.2	773.3	750.5	739.1	735.3
<b>135</b>	1265.4	1159.0	1054.5	969.0	902.5	856.9	832.2	817.0	811.3
<b>140</b>	1333.8	1227.4	1130.5	1043.1	980.4	931.0	904.4	889.2	883.5
<b>145</b>	1366.1	1274.9	1185.6	1107.7	1046.9	1003.2	972.8	957.6	950.0
<b>150</b>	1375.6	1295.8	1219.8	1157.1	1100.1	1064.0	1033.6	1022.2	1014.6
<b>155</b>	1360.4	1297.7	1240.7	1185.6	1147.6	1115.3	1090.6	1079.2	1071.6
<b>160</b>	1331.9	1286.3	1240.7	1210.3	1181.8	1151.4	1141.9	1132.4	1124.8
<b>165</b>	1290.1	1267.3	1244.5	1221.7	1198.9	1189.4	1181.8	1174.2	1168.5
<b>170</b>	1259.7	1246.4	1231.2	1225.5	1219.8	1214.1	1210.3	1204.6	1198.9
<b>175</b>	1240.7	1236.9	1235.0	1233.1	1231.2	1227.4	1225.5	1223.6	1221.7
<b>180</b>	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4	1227.4

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G12.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	730.77	N.A.	7.30
0-30	1528.67	N.A.	15.20
0-40	2447.36	N.A.	24.40
0-60	4060.13	N.A.	40.40
0-80	4793.88	N.A.	47.70
0-90	4849.26	N.A.	48.30
10-90	4658.59	N.A.	46.40
20-40	1716.59	N.A.	17.10
20-50	2603.68	N.A.	25.90
40-70	2102.14	N.A.	20.90
60-80	733.75	N.A.	7.30
70-80	244.38	N.A.	2.40
80-90	55.37	N.A.	0.60
90-110	505.94	N.A.	5.00
90-120	1225.86	N.A.	12.20
90-130	2166.33	N.A.	21.60
90-150	4047.55	N.A.	40.30
90-180	5199.00	N.A.	51.70
110-180	4693.07	N.A.	46.70
0-180	10048.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	190.67
10-20	540.11
20-30	797.90
30-40	918.69
40-50	887.09
50-60	725.68
60-70	489.37
70-80	244.38
80-90	55.37
90-100	102.24
100-110	403.69
110-120	719.92
120-130	940.47
130-140	994.48
140-150	886.74
150-160	655.16
160-170	376.83
170-180	119.46

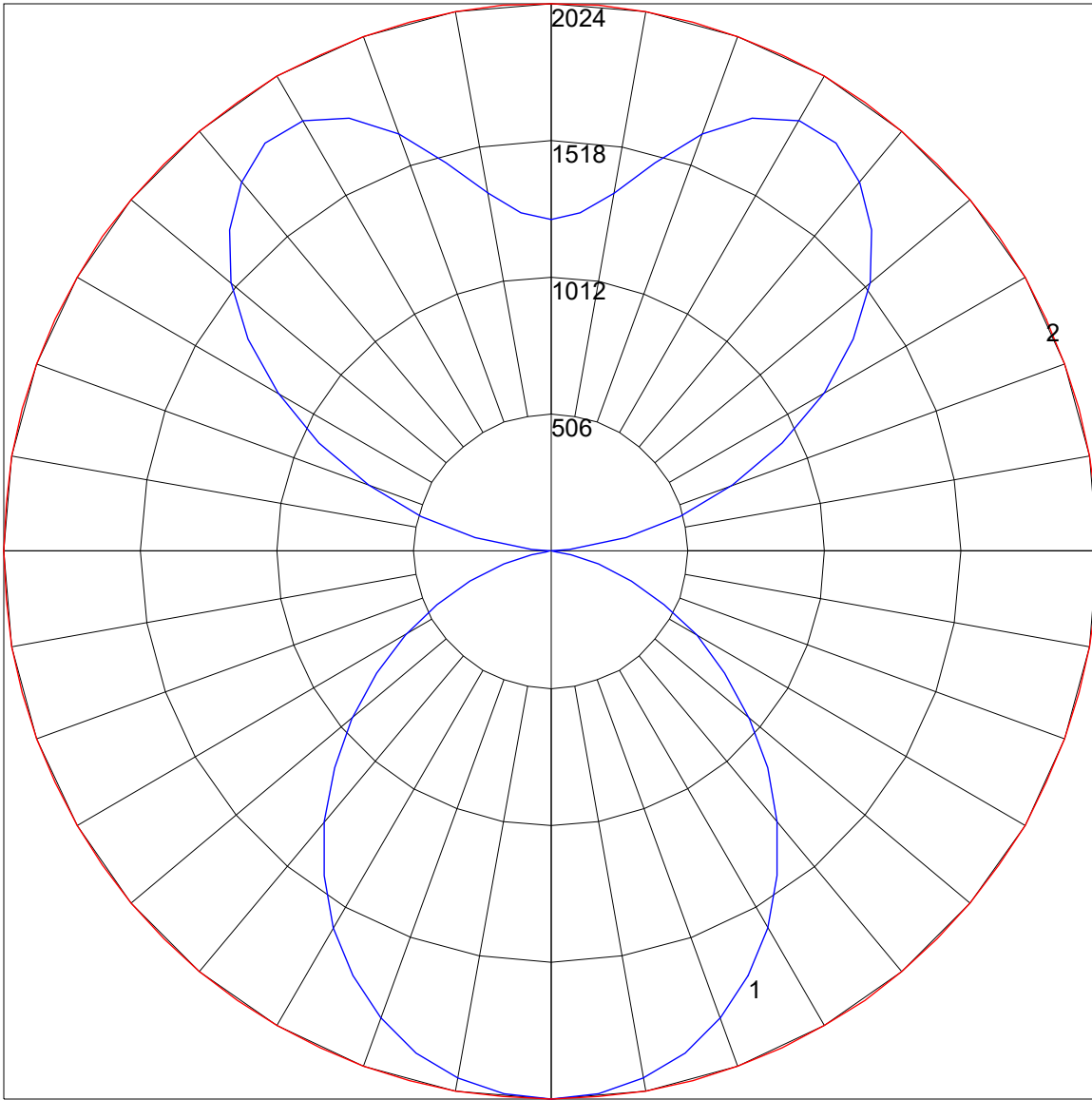
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_359\_G12.IES**

**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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	56	50	69	59	53	47	50	45	41	42	38	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	58	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

POLAR GRAPH



Maximum Candela = 2023.5 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.)