

**IES Report**

**BoxRail® | 107 | 120° Batwing Lens | 90 CRI | HO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	100	102	104
Total Lumens, 4' rail length (1219mm)	4766	4917	5017	5118
Lumens per foot (305mm)	1192	1229	1254	1279
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
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\_BX\_HO\_359\_G1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800114 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/4/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-HO-359-G1  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>10</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>15</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>20</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>25</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>30</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>35</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>40</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>45</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>50</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>55</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>60</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>65</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>70</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>75</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>80</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>85</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	96.9	98.8	100.7	104.5	108.3	112.1	115.9	115.9	114.0	106.4
<b>100</b>	286.9	286.9	288.8	290.7	290.7	290.7	288.8	285.0	273.6	258.4
<b>105</b>	486.4	486.4	486.4	488.3	488.3	488.3	484.5	475.0	459.8	433.2
<b>110</b>	703.0	701.1	703.0	703.0	703.0	699.2	693.5	680.2	657.4	619.4
<b>115</b>	921.5	921.5	921.5	921.5	917.7	912.0	900.6	881.6	849.3	799.9
<b>120</b>	1132.4	1132.4	1130.5	1126.7	1122.9	1111.5	1096.3	1067.8	1026.0	965.2
<b>125</b>	1326.2	1324.3	1320.5	1314.8	1305.3	1290.1	1267.3	1231.2	1179.9	1109.6
<b>130</b>	1491.5	1489.6	1483.9	1474.4	1461.1	1440.2	1409.8	1366.1	1305.3	1227.4
<b>135</b>	1620.7	1618.8	1611.2	1597.9	1580.8	1554.2	1516.2	1464.9	1398.4	1314.8
<b>140</b>	1710.0	1708.1	1698.6	1683.4	1660.6	1628.3	1584.6	1527.6	1455.4	1368.0
<b>145</b>	1755.6	1751.8	1740.4	1721.4	1694.8	1656.8	1609.3	1546.6	1472.5	1387.0
<b>150</b>	1744.2	1740.4	1725.2	1704.3	1673.9	1634.0	1582.7	1521.9	1451.6	1377.5
<b>155</b>	1666.3	1662.5	1647.3	1628.3	1597.9	1559.9	1514.3	1461.1	1402.2	1341.4
<b>160</b>	1539.0	1535.2	1523.8	1506.7	1482.0	1451.6	1415.5	1375.6	1331.9	1288.2
<b>165</b>	1385.1	1383.2	1375.6	1364.2	1349.0	1328.1	1307.2	1282.5	1257.8	1231.2
<b>170</b>	1252.1	1252.1	1246.4	1242.6	1235.0	1227.4	1217.9	1206.5	1195.1	1183.7
<b>175</b>	1170.4	1170.4	1168.5	1168.5	1166.6	1164.7	1162.8	1159.0	1157.1	1155.2
<b>180</b>	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7

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>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>10</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>15</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>20</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>25</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>30</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>35</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>40</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>45</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>50</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>55</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>60</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>70</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>75</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>80</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>85</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95</b>	96.9	83.6	72.2	60.8	55.1	51.3	51.3	51.3	49.4
<b>100</b>	233.7	207.1	178.6	159.6	146.3	140.6	138.7	138.7	136.8
<b>105</b>	395.2	351.5	307.8	275.5	254.6	245.1	241.3	237.5	235.6
<b>110</b>	566.2	505.4	444.6	397.1	368.6	353.4	343.9	340.1	340.1
<b>115</b>	733.4	655.5	579.5	518.7	480.7	457.9	446.5	440.8	438.9
<b>120</b>	887.3	794.2	704.9	632.7	585.2	556.7	541.5	533.9	532.0
<b>125</b>	1020.3	919.6	820.8	735.3	680.2	646.0	627.0	619.4	617.5
<b>130</b>	1130.5	1022.2	917.7	830.3	769.5	729.6	706.8	695.4	693.5
<b>135</b>	1214.1	1103.9	999.4	912.0	849.3	805.6	779.0	765.7	761.9
<b>140</b>	1267.3	1162.8	1065.9	980.4	919.6	875.9	847.4	832.2	828.4
<b>145</b>	1293.9	1200.8	1113.4	1037.4	980.4	938.6	910.1	894.9	891.1
<b>150</b>	1295.8	1217.9	1143.8	1079.2	1029.8	993.7	967.1	953.8	950.0
<b>155</b>	1276.8	1216.0	1159.0	1109.6	1069.7	1041.2	1018.4	1007.0	1003.2
<b>160</b>	1242.6	1200.8	1162.8	1128.6	1100.1	1079.2	1064.0	1054.5	1052.6
<b>165</b>	1204.6	1181.8	1159.0	1138.1	1121.0	1109.6	1100.1	1094.4	1092.5
<b>170</b>	1172.3	1162.8	1151.4	1143.8	1136.2	1130.5	1126.7	1122.9	1122.9
<b>175</b>	1151.4	1149.5	1147.6	1145.7	1143.8	1141.9	1141.9	1141.9	1140.0
<b>180</b>	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7	1145.7

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	520.50	N.A.	10.40
90-120	1234.18	N.A.	24.60
90-130	2144.09	N.A.	42.70
90-150	3937.8	N.A.	78.50
90-180	5017.2	N.A.	100.00
110-180	4496.7	N.A.	89.60
0-180	5017.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	109.68
100-110	410.82
110-120	713.68
120-130	909.91
130-140	952.06
140-150	841.66
150-160	616.42
160-170	351.74
170-180	111.24

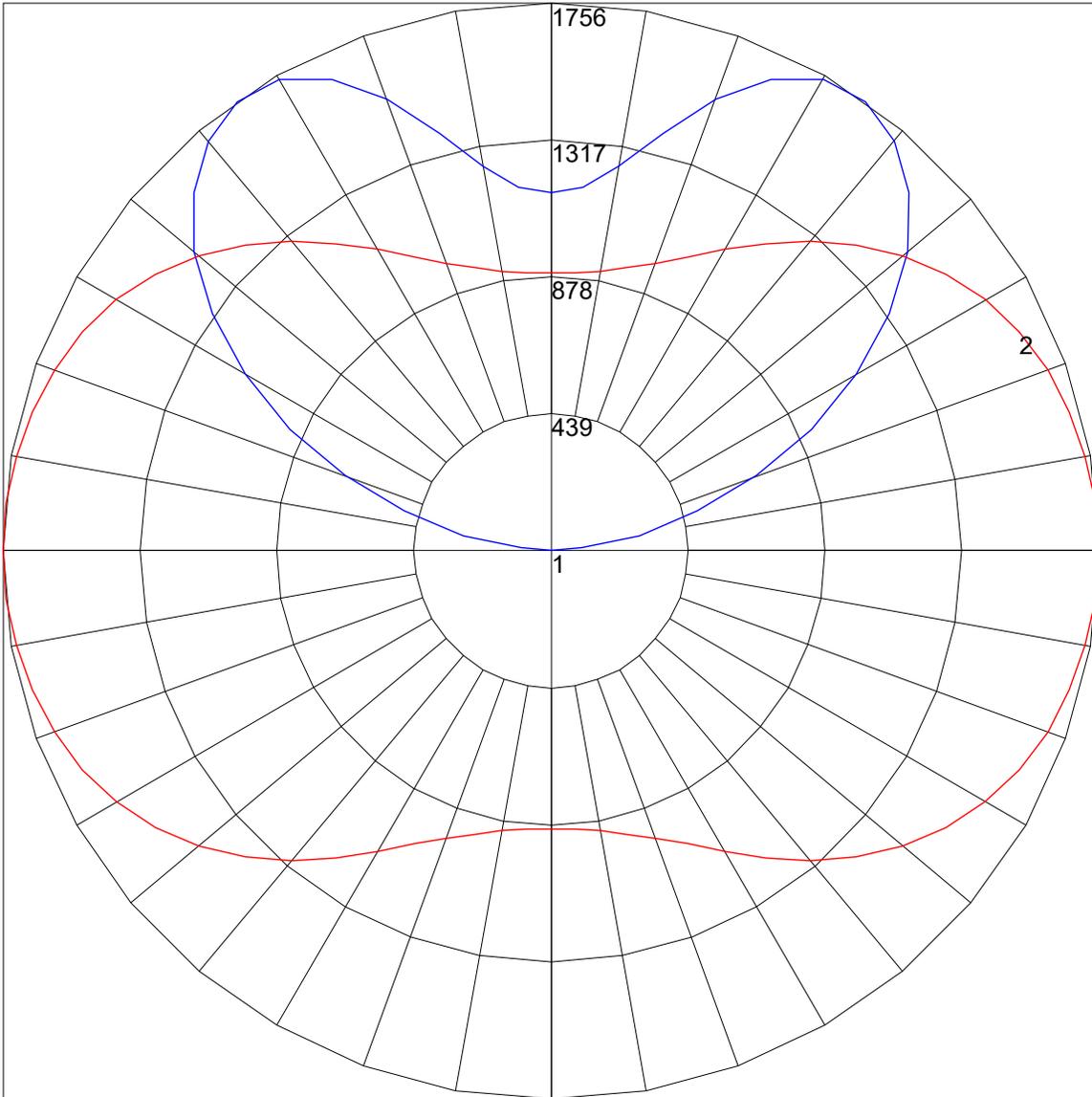
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1755.6 Located At Horizontal Angle = 0, Vertical Angle = 145  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)