

**IES Report**

**BoxRail® | 107 | Wide Batwing | 90 CRI | HO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	104	106	107
Total Lumens, 4' rail length (1219mm)	4904	5059	5162	5214
Lumens per foot (305mm)	1226	1265	1291	1303
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
CRI	94	94	94	94

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] L022010902 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 12/23/2019  
[MANUFAC] Vode Lighting  
[LUMCAT] 207-BX-48-Z-HO-359-G1  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,  
[MORE] high output, clear anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	49.06
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 w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 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

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**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>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	43.168	53.105	50.103	51.243	52.972	55.879	57.323	68.837	75.411	80.484
<b>100</b>	166.744	175.009	179.132	187.663	198.645	210.349	223.839	235.239	250.477	251.807
<b>105</b>	400.235	372.799	398.962	409.412	421.344	440.838	455.620	468.084	479.883	476.862
<b>110</b>	746.168	721.620	724.090	739.860	765.358	766.726	793.269	773.718	754.148	707.313
<b>115</b>	1193.542	1188.640	1146.536	1124.857	1114.673	1108.479	1078.079	1035.424	981.293	914.280
<b>120</b>	1518.917	1509.417	1488.498	1449.149	1413.011	1362.452	1308.777	1247.863	1154.098	1055.925
<b>125</b>	1730.577	1719.519	1693.850	1661.417	1620.871	1544.377	1475.350	1375.334	1275.090	1162.211
<b>130</b>	1821.055	1811.289	1783.302	1740.951	1689.366	1620.700	1533.471	1438.832	1330.589	1219.306
<b>135</b>	1820.086	1811.859	1785.696	1744.523	1687.580	1621.593	1538.183	1451.714	1351.755	1251.929
<b>140</b>	1761.167	1752.769	1729.038	1692.140	1643.101	1582.149	1510.139	1431.745	1347.917	1261.771
<b>145</b>	1668.143	1660.657	1641.695	1612.378	1570.825	1520.247	1461.271	1394.296	1324.813	1253.924
<b>150</b>	1559.843	1553.079	1539.209	1515.307	1483.425	1443.145	1395.797	1344.440	1292.000	1234.981
<b>155</b>	1447.401	1442.480	1433.303	1415.025	1391.959	1362.452	1327.739	1290.461	1251.739	1212.561
<b>160</b>	1341.647	1339.044	1331.520	1321.203	1304.787	1286.072	1264.564	1238.705	1211.573	1187.272
<b>165</b>	1251.036	1249.117	1244.367	1238.762	1231.162	1219.819	1207.222	1193.447	1178.608	1161.432
<b>170</b>	1183.339	1182.294	1179.995	1177.430	1174.257	1170.533	1166.258	1159.494	1152.483	1145.168
<b>175</b>	1142.736	1142.242	1141.843	1140.646	1139.753	1138.784	1137.739	1136.618	1135.440	1134.205
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

**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>90</b>	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272	9.272
<b>95</b>	81.681	101.061	98.705	79.211	73.682	74.176	72.713	70.015	71.516
<b>100</b>	251.408	250.363	231.876	206.549	189.297	174.021	160.341	155.116	155.762
<b>105</b>	463.771	427.709	385.928	336.661	299.782	272.403	252.757	242.801	241.281
<b>110</b>	642.295	583.946	520.182	454.727	405.517	372.438	348.536	336.452	335.901
<b>115</b>	825.873	728.137	640.414	565.079	507.756	468.521	441.484	427.063	425.885
<b>120</b>	950.836	839.458	742.976	665.627	603.497	561.089	535.192	518.491	511.727
<b>125</b>	1042.416	931.855	833.929	752.894	687.990	643.454	616.683	600.495	592.477
<b>130</b>	1108.574	1005.119	912.570	832.865	768.398	720.005	687.401	666.729	651.244
<b>135</b>	1151.267	1058.015	972.173	900.866	841.643	796.689	766.992	748.524	740.905
<b>140</b>	1174.960	1095.768	1021.478	955.510	903.925	861.536	833.226	815.974	807.956
<b>145</b>	1184.289	1118.492	1057.103	1001.984	956.897	921.443	894.862	880.954	872.936
<b>150</b>	1181.439	1129.911	1079.998	1038.901	1000.255	974.320	950.532	940.728	934.097
<b>155</b>	1172.452	1134.072	1098.941	1064.722	1040.079	1018.286	1002.022	993.567	987.449
<b>160</b>	1161.603	1134.471	1108.251	1089.498	1071.410	1054.006	1046.387	1039.927	1035.063
<b>165</b>	1145.491	1132.419	1119.328	1106.332	1093.507	1087.674	1082.810	1078.383	1074.887
<b>170</b>	1137.625	1129.930	1122.311	1118.663	1115.319	1112.203	1109.334	1106.636	1104.356
<b>175</b>	1132.932	1131.621	1130.272	1128.923	1127.574	1126.225	1124.857	1123.584	1122.349
<b>180</b>	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600	1128.600

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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	513.74	N.A.	10.00
90-120	1333.11	N.A.	26.00
90-130	2355.04	N.A.	46.00
90-150	4120.00	N.A.	80.40
90-180	5122.00	N.A.	100.00
110-180	4608.27	N.A.	90.00
0-180	5122.00	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	96.28
100-110	417.46
110-120	819.37
120-130	1021.93
130-140	973.35
140-150	791.62
150-160	562.84
160-170	330.61
170-180	108.55

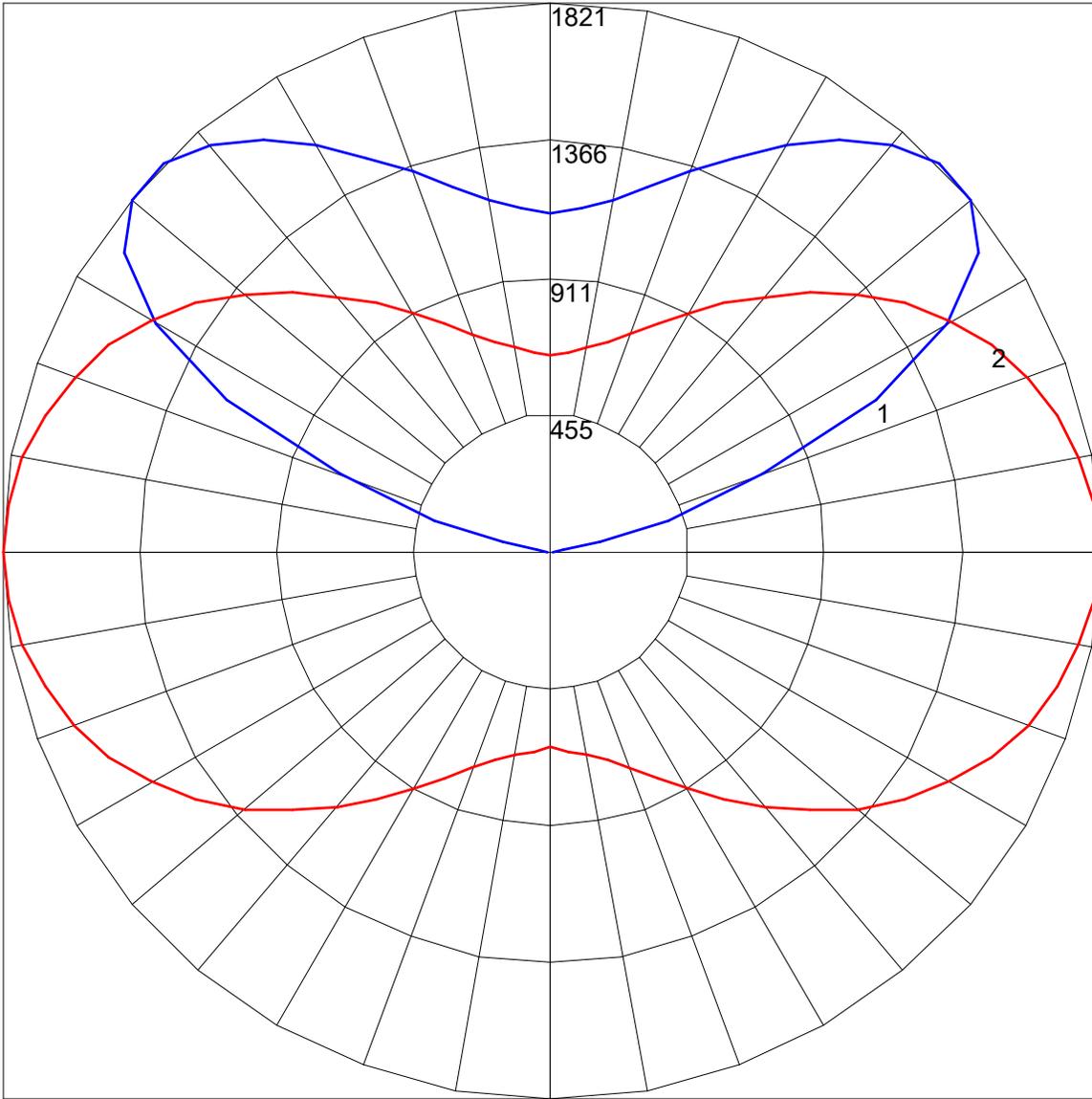
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1821.055 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)