

## IES Report

**BoxRail® | 207 | Wide Batwing, up | 60° Symmetric, down | 90 CRI | HO**

**207-BX-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	78	80	81
Total Lumens, 4' rail length (1219mm)	7792	8038	8202	8284
Lumens per foot (305mm)	1948	2010	2051	2071
Lumens per foot UP (305mm)	1243	1282	1308	1322
Lumens per foot DOWN (305mm)	705	727	742	750
Input Power (W), 4' rail length (1219mm)	103.1	103.1	103.1	103.1
Watts per foot (305mm)	25.8	25.8	25.8	25.8
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\_207\_BX\_HO\_359\_G1S2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010908 (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-G1S2

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,

[MORE] 60° symmetric lens down, 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	8202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	103.13
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)	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	7691	13709	37709
55	4612	8044	27611
65	2878	4687	19746
75	1424	2266	15704
85	264	499	6993

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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>0</b>	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8
<b>5</b>	2120.4	2118.5	2118.5	2118.5	2118.5	2118.5	2120.4	2120.4	2122.3	2124.2
<b>10</b>	1972.2	1970.3	1972.2	1976.0	1981.7	1989.3	1998.8	2006.4	2014.0	2025.4
<b>15</b>	1736.6	1736.6	1744.2	1753.7	1768.9	1782.2	1799.3	1822.1	1850.6	1877.2
<b>20</b>	1444.0	1444.0	1459.2	1476.3	1493.4	1520.0	1552.3	1586.5	1626.4	1662.5
<b>25</b>	1132.4	1138.1	1153.3	1172.3	1200.8	1233.1	1273.0	1320.5	1362.3	1411.7
<b>30</b>	851.2	858.8	875.9	894.9	923.4	955.7	995.6	1043.1	1098.2	1151.4
<b>35</b>	627.0	632.7	646.0	668.8	691.6	720.1	754.3	801.8	849.3	902.5
<b>40</b>	461.7	469.3	478.8	494.0	513.0	535.8	566.2	604.2	642.2	693.5
<b>45</b>	343.9	349.6	357.2	368.6	381.9	397.1	423.7	448.4	484.5	522.5
<b>50</b>	262.2	266.0	271.7	279.3	286.9	300.2	317.3	338.2	362.9	393.3
<b>55</b>	205.2	207.1	210.9	216.6	218.5	228.0	237.5	256.5	275.5	296.4
<b>60</b>	161.5	163.4	163.4	163.4	165.3	171.0	180.5	190.0	205.2	222.3
<b>65</b>	123.5	123.5	121.6	121.6	123.5	127.3	134.9	142.5	150.1	161.5
<b>70</b>	85.5	81.7	83.6	85.5	89.3	91.2	95.0	98.8	104.5	114.0
<b>75</b>	57.0	55.1	57.0	58.9	58.9	58.9	58.9	60.8	66.5	70.3
<b>80</b>	28.5	28.5	32.3	32.3	32.3	34.2	36.1	36.1	38.0	38.0
<b>85</b>	9.5	11.4	11.4	9.5	9.5	9.5	9.5	9.5	11.4	13.3
<b>90</b>	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.6	7.6
<b>95</b>	41.8	55.1	53.2	57.0	60.8	64.6	66.5	79.8	81.7	87.4
<b>100</b>	176.7	180.5	186.2	195.7	205.2	214.7	226.1	239.4	248.9	258.4
<b>105</b>	395.2	374.3	400.9	414.2	423.7	437.0	450.3	454.1	461.7	456.0
<b>110</b>	735.3	718.2	708.7	720.1	746.7	758.1	758.1	761.9	746.7	704.9
<b>115</b>	1183.7	1183.7	1132.4	1121.0	1111.5	1111.5	1081.1	1041.2	991.8	921.5
<b>120</b>	1537.1	1533.3	1510.5	1463.0	1425.0	1379.4	1324.3	1271.1	1178.0	1083.0
<b>125</b>	1791.7	1776.5	1742.3	1706.2	1670.1	1584.6	1516.2	1411.7	1309.1	1197.0
<b>130</b>	1896.2	1881.0	1841.1	1795.5	1738.5	1668.2	1577.0	1476.3	1364.2	1252.1
<b>135</b>	1882.9	1873.4	1841.1	1786.0	1729.0	1660.6	1575.1	1483.9	1381.3	1278.7
<b>140</b>	1810.7	1801.2	1768.9	1725.2	1673.9	1613.1	1539.0	1459.2	1373.7	1288.2
<b>145</b>	1706.2	1696.7	1675.8	1643.5	1596.0	1542.8	1483.9	1419.3	1350.9	1280.6
<b>150</b>	1588.4	1582.7	1569.4	1540.9	1508.6	1466.8	1421.2	1371.8	1320.5	1263.5
<b>155</b>	1474.4	1468.7	1461.1	1442.1	1419.3	1390.8	1356.6	1320.5	1282.5	1244.5
<b>160</b>	1369.9	1366.1	1360.4	1350.9	1335.7	1316.7	1297.7	1271.1	1244.5	1221.7
<b>165</b>	1282.5	1280.6	1276.8	1271.1	1263.5	1254.0	1242.6	1229.3	1216.0	1198.9
<b>170</b>	1217.9	1216.0	1214.1	1212.2	1208.4	1204.6	1200.8	1193.2	1187.5	1181.8
<b>175</b>	1176.1	1176.1	1176.1	1174.2	1174.2	1172.3	1172.3	1170.4	1168.5	1168.5
<b>180</b>	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9

**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>	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8	2169.8
<b>5</b>	2128.0	2129.9	2133.7	2137.5	2141.3	2145.1	2148.9	2152.7	2158.4
<b>10</b>	2038.7	2053.9	2071.0	2074.8	2078.6	2084.3	2091.9	2099.5	2107.1
<b>15</b>	1900.0	1915.2	1936.1	1958.9	1985.5	1991.2	1996.9	2006.4	2017.8
<b>20</b>	1698.6	1734.7	1776.5	1799.3	1827.8	1860.1	1865.8	1873.4	1886.7
<b>25</b>	1464.9	1512.4	1556.1	1605.5	1635.9	1666.3	1691.0	1698.6	1717.6
<b>30</b>	1208.4	1267.3	1324.3	1369.9	1421.2	1449.7	1485.8	1491.5	1510.5
<b>35</b>	963.3	1022.2	1081.1	1136.2	1181.8	1219.8	1252.1	1265.4	1278.7
<b>40</b>	741.0	792.3	845.5	900.6	948.1	993.7	1018.4	1033.6	1041.2
<b>45</b>	566.2	609.9	653.6	699.2	742.9	775.2	790.4	801.8	811.3
<b>50</b>	425.6	465.5	503.5	539.6	575.7	600.4	619.4	634.6	644.1
<b>55</b>	323.0	347.7	376.2	404.7	433.2	454.1	469.3	480.7	486.4
<b>60</b>	241.3	258.4	281.2	300.2	319.2	336.3	349.6	355.3	359.1

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	174.8	190.0	205.2	218.5	231.8	243.2	252.7	258.4	260.3
<b>70</b>	123.5	134.9	144.4	155.8	163.4	171.0	176.7	180.5	182.4
<b>75</b>	77.9	83.6	93.1	100.7	106.4	110.2	117.8	123.5	131.1
<b>80</b>	39.9	43.7	47.5	51.3	55.1	58.9	60.8	60.8	62.7
<b>85</b>	13.3	13.3	15.2	17.1	19.0	19.0	20.9	22.8	22.8
<b>90</b>	7.6	5.7	5.7	5.7	3.8	3.8	3.8	3.8	1.9
<b>95</b>	102.6	100.7	98.8	89.3	76.0	66.5	72.2	74.1	70.3
<b>100</b>	250.8	235.6	226.1	205.2	186.2	176.7	167.2	157.7	159.6
<b>105</b>	438.9	416.1	378.1	343.9	307.8	281.2	264.1	254.6	248.9
<b>110</b>	647.9	590.9	532.0	471.2	421.8	383.8	364.8	351.5	345.8
<b>115</b>	841.7	752.4	659.3	583.3	526.3	484.5	459.8	444.6	438.9
<b>120</b>	978.5	870.2	765.7	685.9	623.2	581.4	552.9	537.7	533.9
<b>125</b>	1073.5	959.5	858.8	773.3	704.9	661.2	636.5	621.3	615.6
<b>130</b>	1136.2	1031.7	936.7	856.9	792.3	748.6	716.3	697.3	691.6
<b>135</b>	1178.0	1083.0	997.5	927.2	868.3	822.7	792.3	775.2	765.7
<b>140</b>	1200.8	1121.0	1046.9	984.2	931.0	889.2	860.7	843.6	836.0
<b>145</b>	1210.3	1145.7	1084.9	1031.7	986.1	951.9	925.3	912.0	902.5
<b>150</b>	1210.3	1159.0	1111.5	1069.7	1031.7	1007.0	984.2	972.8	967.1
<b>155</b>	1202.7	1166.6	1132.4	1098.2	1075.4	1052.6	1037.4	1027.9	1022.2
<b>160</b>	1197.0	1170.4	1145.7	1126.7	1109.6	1092.5	1084.9	1077.3	1071.6
<b>165</b>	1183.7	1170.4	1159.0	1145.7	1134.3	1126.7	1122.9	1117.2	1113.4
<b>170</b>	1174.2	1168.5	1160.9	1157.1	1155.2	1151.4	1147.6	1145.7	1143.8
<b>175</b>	1166.6	1164.7	1164.7	1162.8	1160.9	1160.9	1159.0	1157.1	1157.1
<b>180</b>	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	723.14	N.A.	8.80
0-30	1373.23	N.A.	16.70
0-40	1957.84	N.A.	23.90
0-60	2683.39	N.A.	32.70
0-80	2947.14	N.A.	35.90
0-90	2968.35	N.A.	36.20
10-90	2768.09	N.A.	33.70
20-40	1234.7	N.A.	15.10
20-50	1668.39	N.A.	20.30
40-70	902.80	N.A.	11.00
60-80	263.76	N.A.	3.20
70-80	86.50	N.A.	1.10
80-90	21.21	N.A.	0.30
90-110	515.17	N.A.	6.30
90-120	1343.51	N.A.	16.40
90-130	2393.84	N.A.	29.20
90-150	4203.85	N.A.	51.30
90-180	5233.73	N.A.	63.80
110-180	4718.56	N.A.	57.50
0-180	8202.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	200.26
10-20	522.88
20-30	650.09
30-40	584.61
40-50	433.69
50-60	291.85
60-70	177.26
70-80	86.50
80-90	21.21
90-100	98.91
100-110	416.26
110-120	828.34
120-130	1050.33
130-140	1000.05
140-150	809.96
150-160	577.27
160-170	340.75
170-180	111.86

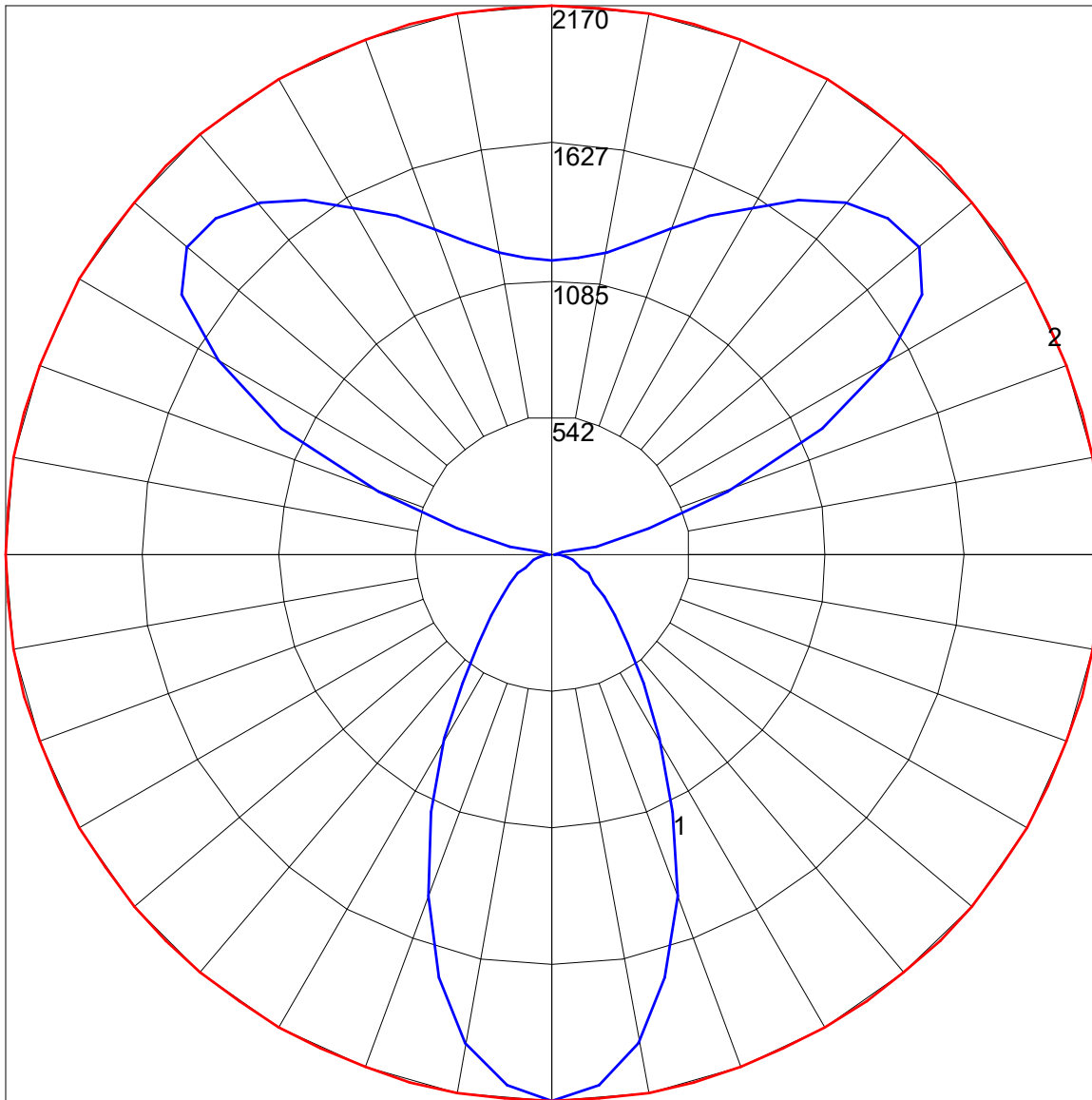
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	76	76	76	59	59	59	43	43	43	36
1	96	92	88	85	86	83	80	78	67	65	64	53	52	51	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	48	45	44	36	35	34	28
3	81	72	65	60	73	66	60	55	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	48	44	41	39	36	33	30	28	26	22
5	68	58	50	45	62	53	47	42	44	39	36	35	32	30	27	25	24	20
6	63	52	45	39	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	30	26	24	23	21	19	17
8	55	43	36	31	50	40	34	29	34	29	25	27	24	22	22	20	18	15
9	51	40	33	28	47	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	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 2169.8 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)