

## IES Report

**BoxRail® | 207 | Wide Batwing, up | Black Baffle, down | 90 CRI | HO**

**207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1BB-X-AL / WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	68
Total Lumens, 4' rail length (1219mm)	6515	6720	6858	6926
Lumens per foot (305mm)	1629	1680	1714	1732
Lumens per foot UP (305mm)	1221	1259	1285	1298
Lumens per foot DOWN (305mm)	408	421	430	434
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\_G1BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010905 (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-G1BB

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

[MORE] black baffle w/clear 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	6858
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	1020	2542	2208
55	854	825	1186
65	664	441	577
75	427	367	455
85	423	357	583

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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>	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9
<b>5</b>	2063.4	2046.3	2031.1	2015.9	2000.7	1987.4	1972.2	1960.8	1947.5	1938.0
<b>10</b>	2038.7	2006.4	1976.0	1945.6	1917.1	1888.6	1863.9	1820.2	1782.2	1746.1
<b>15</b>	1996.9	1953.2	1911.4	1869.6	1822.1	1753.7	1689.1	1628.3	1571.3	1518.1
<b>20</b>	1939.9	1879.1	1822.1	1759.4	1670.1	1582.7	1501.0	1423.1	1350.9	1282.5
<b>25</b>	1867.7	1795.5	1725.2	1618.8	1508.6	1402.2	1303.4	1210.3	1115.3	1026.0
<b>30</b>	1776.5	1694.8	1599.8	1466.8	1337.6	1216.0	1092.5	972.8	864.5	769.5
<b>35</b>	1668.2	1582.7	1455.4	1301.5	1157.1	1010.8	866.4	739.1	623.2	505.4
<b>40</b>	1014.6	944.3	843.6	765.7	729.6	716.3	628.9	497.8	361.0	247.0
<b>45</b>	45.6	83.6	155.8	201.4	195.7	169.1	233.7	209.0	152.0	96.9
<b>50</b>	41.8	41.8	39.9	38.0	38.0	45.6	43.7	51.3	53.2	55.1
<b>55</b>	38.0	38.0	36.1	32.3	30.4	28.5	26.6	26.6	28.5	30.4
<b>60</b>	36.1	34.2	32.3	28.5	24.7	22.8	20.9	19.0	19.0	19.0
<b>65</b>	28.5	28.5	26.6	24.7	20.9	20.9	19.0	17.1	15.2	15.2
<b>70</b>	22.8	22.8	20.9	20.9	19.0	17.1	17.1	15.2	13.3	13.3
<b>75</b>	17.1	17.1	19.0	17.1	15.2	15.2	13.3	13.3	11.4	11.4
<b>80</b>	19.0	19.0	17.1	17.1	15.2	15.2	13.3	11.4	11.4	9.5
<b>85</b>	15.2	17.1	17.1	17.1	15.2	15.2	13.3	13.3	11.4	9.5
<b>90</b>	11.4	11.4	11.4	9.5	9.5	9.5	9.5	9.5	7.6	7.6
<b>95</b>	45.6	55.1	53.2	53.2	55.1	57.0	58.9	66.5	77.9	77.9
<b>100</b>	165.3	171.0	176.7	184.3	193.8	205.2	218.5	229.9	239.4	243.2
<b>105</b>	381.9	351.5	381.9	393.3	402.8	419.9	437.0	446.5	457.9	457.9
<b>110</b>	708.7	685.9	666.9	691.6	714.4	720.1	733.4	742.9	737.2	699.2
<b>115</b>	1140.0	1130.5	1081.1	1083.0	1075.4	1077.3	1056.4	1024.1	978.5	913.9
<b>120</b>	1501.0	1491.5	1470.6	1428.8	1398.4	1349.0	1301.5	1244.5	1159.0	1065.9
<b>125</b>	1727.1	1717.6	1694.8	1664.4	1624.5	1546.6	1483.9	1390.8	1295.8	1185.6
<b>130</b>	1841.1	1829.7	1803.1	1763.2	1713.8	1643.5	1558.0	1466.8	1358.5	1248.3
<b>135</b>	1858.2	1850.6	1822.1	1782.2	1729.0	1662.5	1575.1	1483.9	1381.3	1278.7
<b>140</b>	1810.7	1801.2	1776.5	1738.5	1687.2	1628.3	1552.3	1468.7	1377.5	1284.4
<b>145</b>	1713.8	1706.2	1685.3	1654.9	1611.2	1558.0	1497.2	1426.9	1352.8	1276.8
<b>150</b>	1594.1	1588.4	1573.2	1546.6	1512.4	1470.6	1421.2	1366.1	1311.0	1250.2
<b>155</b>	1468.7	1463.0	1453.5	1434.5	1409.8	1379.4	1343.3	1305.3	1263.5	1221.7
<b>160</b>	1350.9	1349.0	1341.4	1330.0	1312.9	1293.9	1271.1	1244.5	1216.0	1189.4
<b>165</b>	1254.0	1252.1	1246.4	1240.7	1233.1	1221.7	1208.4	1193.2	1178.0	1159.0
<b>170</b>	1179.9	1178.0	1176.1	1174.2	1170.4	1166.6	1160.9	1155.2	1147.6	1140.0
<b>175</b>	1134.3	1134.3	1132.4	1132.4	1130.5	1130.5	1128.6	1128.6	1126.7	1124.8
<b>180</b>	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2

**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>	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9	2072.9
<b>5</b>	1928.5	1919.0	1911.4	1905.7	1901.9	1898.1	1896.2	1896.2	1896.2
<b>10</b>	1715.7	1687.2	1662.5	1639.7	1622.6	1609.3	1599.8	1594.1	1594.1
<b>15</b>	1470.6	1426.9	1388.9	1358.5	1333.8	1312.9	1297.7	1288.2	1290.1
<b>20</b>	1216.0	1153.3	1098.2	1054.5	1020.3	993.7	972.8	957.6	955.7
<b>25</b>	946.2	874.0	809.4	756.2	714.4	680.2	655.5	638.4	634.6
<b>30</b>	678.3	592.8	514.9	444.6	387.6	340.1	305.9	285.0	285.0
<b>35</b>	393.3	290.7	237.5	195.7	163.4	136.8	114.0	100.7	95.0
<b>40</b>	188.1	125.4	96.9	89.3	81.7	76.0	72.2	68.4	66.5
<b>45</b>	91.2	77.9	68.4	62.7	57.0	53.2	49.4	47.5	47.5
<b>50</b>	55.1	51.3	47.5	43.7	39.9	36.1	34.2	32.3	32.3
<b>55</b>	32.3	32.3	30.4	28.5	26.6	24.7	22.8	20.9	20.9
<b>60</b>	20.9	20.9	20.9	19.0	17.1	15.2	15.2	13.3	13.3

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	15.2	13.3	13.3	13.3	11.4	11.4	9.5	9.5	7.6
<b>70</b>	11.4	11.4	9.5	9.5	9.5	7.6	7.6	5.7	5.7
<b>75</b>	9.5	9.5	7.6	7.6	7.6	5.7	5.7	3.8	3.8
<b>80</b>	9.5	7.6	7.6	5.7	5.7	5.7	3.8	3.8	1.9
<b>85</b>	9.5	7.6	7.6	5.7	3.8	3.8	3.8	1.9	1.9
<b>90</b>	5.7	5.7	5.7	3.8	3.8	3.8	3.8	1.9	1.9
<b>95</b>	81.7	91.2	91.2	77.9	74.1	72.2	72.2	70.3	70.3
<b>100</b>	245.1	245.1	226.1	203.3	191.9	174.8	161.5	153.9	153.9
<b>105</b>	446.5	423.7	383.8	340.1	304.0	275.5	252.7	245.1	243.2
<b>110</b>	644.1	589.0	526.3	461.7	410.4	376.2	351.5	338.2	334.4
<b>115</b>	830.3	737.2	651.7	575.7	514.9	473.1	444.6	429.4	427.5
<b>120</b>	967.1	858.8	760.0	678.3	611.8	568.1	539.6	520.6	513.0
<b>125</b>	1065.9	955.7	853.1	765.7	695.4	649.8	621.3	602.3	592.8
<b>130</b>	1136.2	1029.8	932.9	847.4	779.0	725.8	691.6	668.8	653.6
<b>135</b>	1176.1	1081.1	989.9	913.9	849.3	801.8	769.5	748.6	739.1
<b>140</b>	1195.1	1111.5	1033.6	965.2	910.1	864.5	834.1	815.1	805.6
<b>145</b>	1200.8	1130.5	1067.8	1008.9	961.4	923.4	893.0	877.8	868.3
<b>150</b>	1193.2	1140.0	1086.8	1041.2	999.4	972.8	948.1	936.7	929.1
<b>155</b>	1178.0	1138.1	1100.1	1064.0	1037.4	1014.6	997.5	986.1	978.5
<b>160</b>	1162.8	1134.3	1105.8	1084.9	1065.9	1046.9	1039.3	1031.7	1026.0
<b>165</b>	1141.9	1128.6	1115.3	1100.1	1086.8	1081.1	1075.4	1069.7	1065.9
<b>170</b>	1130.5	1122.9	1115.3	1111.5	1107.7	1103.9	1100.1	1096.3	1094.4
<b>175</b>	1122.9	1122.9	1121.0	1119.1	1117.2	1115.3	1113.4	1113.4	1111.5
<b>180</b>	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	619.52	N.A.	9.00
0-30	1127.62	N.A.	16.40
0-40	1525.88	N.A.	22.30
0-60	1679.09	N.A.	24.50
0-80	1708.42	N.A.	24.90
0-90	1718.69	N.A.	25.10
10-90	1537.36	N.A.	22.40
20-40	906.36	N.A.	13.20
20-50	1032.04	N.A.	15.00
40-70	170.26	N.A.	2.50
60-80	29.33	N.A.	0.40
70-80	12.27	N.A.	0.20
80-90	10.28	N.A.	0.10
90-110	500.10	N.A.	7.30
90-120	1307.89	N.A.	19.10
90-130	2338.22	N.A.	34.10
90-150	4134.36	N.A.	60.30
90-180	5138.97	N.A.	74.90
110-180	4638.87	N.A.	67.60
0-180	6857.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	181.33
10-20	438.18
20-30	508.10
30-40	398.26
40-50	125.68
50-60	27.54
60-70	17.05
70-80	12.27
80-90	10.28
90-100	94.31
100-110	405.79
110-120	807.79
120-130	1030.33
130-140	991.12
140-150	805.01
150-160	566.80
160-170	330.06
170-180	107.75

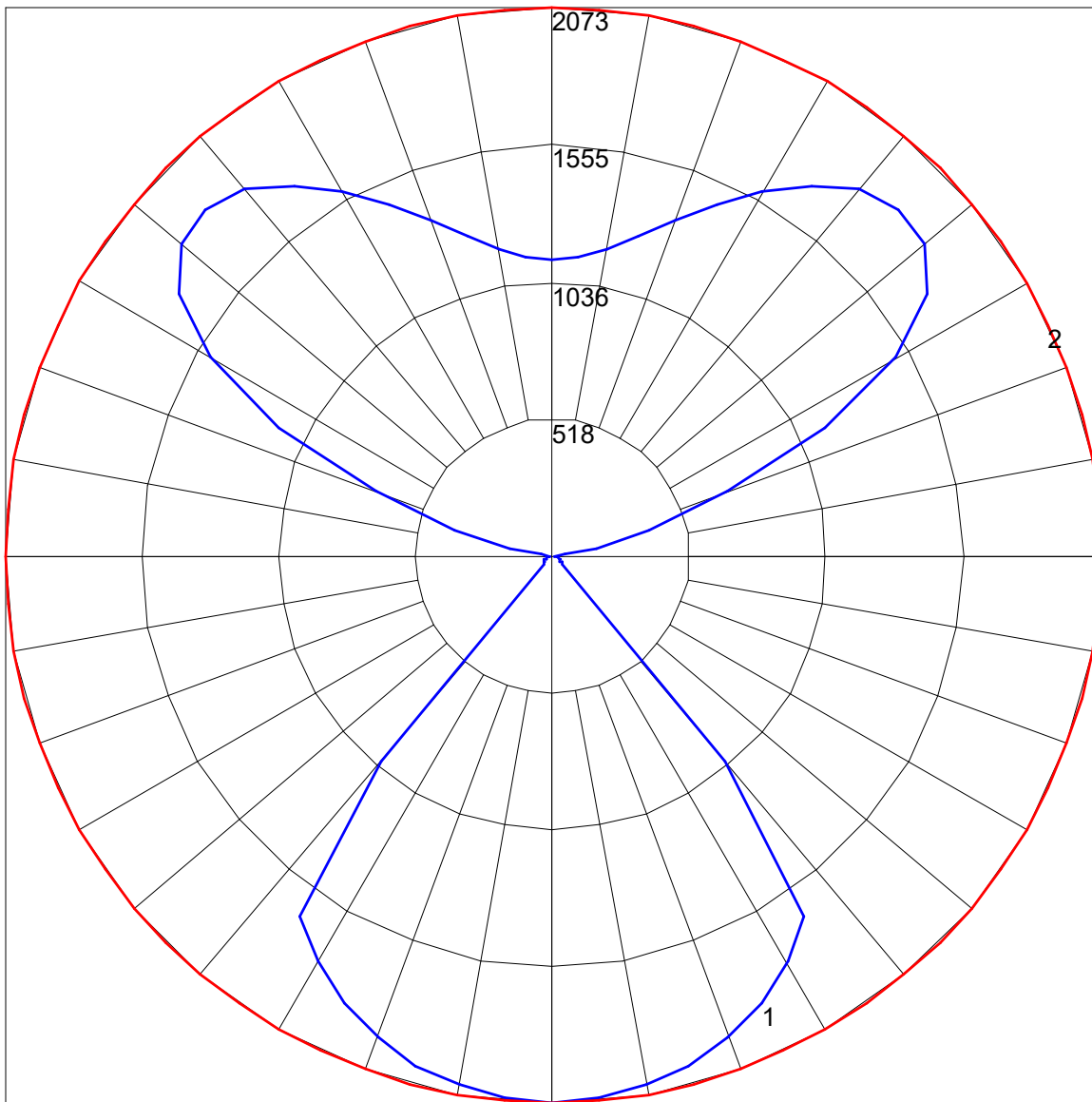
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	31	30	30	23
2	86	80	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	21
3	79	71	65	60	71	64	59	54	51	47	44	38	36	34	27	26	25	20
4	73	64	57	52	65	58	52	47	46	42	39	35	33	31	25	24	23	18
5	68	58	50	45	60	52	46	42	42	38	34	32	30	27	23	22	21	17
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	20	19	16
7	58	47	40	36	52	43	37	33	35	31	28	27	25	23	20	19	18	15
8	54	43	37	32	49	40	34	30	32	28	25	25	23	21	19	17	16	14
9	51	40	33	29	46	36	31	27	30	26	23	24	21	19	18	16	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	18	17	15	14	12

POLAR GRAPH



Maximum Candela = 2072.9 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.)