

## IES Report

# BoxRail® | 207 | Wide Batwing, up | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-359-G1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	83	84	85
Total Lumens, 4' rail length (1219mm)	1147	1183	1208	1220
Lumens per foot (305mm)	287	296	302	305
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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\_LO\_359\_G1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (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-LO-359-G1-BL

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

[MORE] low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	14.38
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>	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655
<b>95</b>	6.875	9.295	8.850	9.380	10.330	11.920	12.820	16.320	21.170	21.300
<b>100</b>	33.360	35.715	37.635	41.210	45.245	49.930	55.220	61.095	65.805	69.900
<b>105</b>	81.310	85.550	90.265	95.130	101.065	109.895	117.740	123.145	126.030	124.685
<b>110</b>	156.835	159.995	167.355	172.895	180.425	186.505	186.385	191.295	187.805	179.300
<b>115</b>	250.300	251.875	259.190	263.635	266.610	269.425	267.405	259.915	248.845	231.005
<b>120</b>	345.940	344.935	347.535	347.615	347.825	340.400	331.415	317.930	294.040	268.355
<b>125</b>	419.705	417.410	414.110	408.125	402.540	388.145	373.865	349.280	323.895	294.995
<b>130</b>	458.770	456.350	449.385	438.970	427.485	411.520	390.380	366.115	338.100	308.465
<b>135</b>	466.985	464.760	457.710	445.250	430.455	413.800	391.220	367.680	340.470	313.055
<b>140</b>	452.650	450.115	443.490	432.235	417.385	400.545	380.675	358.720	335.440	311.540
<b>145</b>	424.320	422.200	416.445	406.990	393.645	378.745	362.520	344.195	324.850	305.090
<b>150</b>	389.280	387.595	383.240	374.770	364.865	353.630	340.755	326.620	311.860	295.840
<b>155</b>	353.150	351.830	349.165	343.420	336.270	327.905	318.395	308.025	297.040	285.905
<b>160</b>	319.790	319.270	316.945	313.925	309.130	303.635	297.385	290.075	282.255	275.300
<b>165</b>	291.120	290.750	289.360	287.725	285.470	282.190	278.525	274.510	270.175	265.255
<b>170</b>	269.160	268.910	268.225	267.445	266.470	265.300	263.945	262.025	259.970	257.785
<b>175</b>	254.995	254.885	254.780	254.475	254.220	253.925	253.590	253.225	252.825	252.395
<b>180</b>	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

**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>	<u>95</u>
<b>90</b>	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655
<b>95</b>	23.000	23.125	23.385	22.165	19.665	17.765	17.190	16.770	16.010	16.435
<b>100</b>	69.080	65.460	59.120	51.605	44.960	41.000	38.795	38.075	37.430	37.860
<b>105</b>	117.715	106.140	94.045	82.245	71.530	64.375	59.465	56.220	55.450	56.700
<b>110</b>	164.705	146.595	128.380	111.615	97.150	87.275	81.395	78.015	77.160	77.930
<b>115</b>	208.395	180.510	157.965	138.210	121.545	110.000	102.995	98.355	97.195	98.085
<b>120</b>	240.545	211.890	183.935	162.120	144.760	131.780	123.205	118.770	117.185	117.640
<b>125</b>	263.130	233.230	205.440	182.035	164.040	150.740	141.715	136.740	134.580	135.845
<b>130</b>	277.795	248.955	222.645	199.545	180.550	167.800	158.975	153.325	150.800	152.205
<b>135</b>	285.150	258.905	234.550	213.970	196.460	182.440	174.030	169.030	166.935	168.100
<b>140</b>	287.330	264.730	243.550	224.730	209.615	196.885	188.540	183.330	180.725	181.920
<b>145</b>	285.545	266.825	249.270	233.425	220.305	209.920	202.110	197.555	194.430	195.900
<b>150</b>	280.770	266.135	251.800	239.850	228.500	220.760	213.490	210.070	207.340	208.705
<b>155</b>	274.515	263.635	253.540	243.545	236.210	229.595	224.540	221.755	219.495	220.550
<b>160</b>	268.070	260.420	252.905	247.375	241.920	236.580	234.085	231.890	230.055	230.975
<b>165</b>	260.665	256.830	252.965	249.105	245.265	243.370	241.670	240.025	238.565	239.280
<b>170</b>	255.490	253.100	250.690	249.570	248.515	247.510	246.560	245.650	244.810	245.280
<b>175</b>	251.940	251.460	250.965	250.455	249.935	249.410	248.865	248.345	247.825	248.030
<b>180</b>	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
<b>90</b>	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655
<b>95</b>	15.005	11.620	12.225	14.245	15.255	15.050	14.420	14.300	13.095	11.585
<b>100</b>	38.755	39.735	41.060	42.730	46.940	44.820	42.795	43.065	44.115	41.865
<b>105</b>	58.500	62.325	67.710	76.340	85.685	91.665	91.315	88.190	86.820	81.905
<b>110</b>	80.770	85.645	93.425	104.455	119.455	135.670	149.990	158.175	163.220	165.670
<b>115</b>	101.425	107.280	116.745	130.410	148.445	167.905	187.310	210.140	227.035	239.710
<b>120</b>	121.375	128.140	138.435	152.670	170.875	195.385	222.565	247.640	270.870	292.520
<b>125</b>	139.815	146.735	156.665	169.130	190.265	215.665	243.550	273.875	302.720	328.345

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**CANDELA TABULATION - (Cont.)**

<b>130</b>	156.485	163.330	173.345	186.965	207.250	230.295	256.410	285.000	314.305	343.780
<b>135</b>	171.005	176.695	188.340	202.780	219.795	240.355	263.795	289.350	315.695	342.260
<b>140</b>	185.425	191.735	201.835	213.955	229.275	247.150	266.925	288.945	310.815	332.890
<b>145</b>	198.790	204.805	212.900	223.195	235.985	250.425	266.855	284.365	302.275	320.025
<b>150</b>	210.750	216.165	222.030	230.940	240.490	252.370	264.570	277.570	291.895	304.960
<b>155</b>	222.150	225.730	230.655	236.195	244.100	252.155	261.105	270.715	280.085	289.400
<b>160</b>	232.250	233.660	237.585	241.540	245.650	251.650	257.840	263.625	269.110	275.535
<b>165</b>	240.195	241.205	242.285	245.190	247.970	250.740	253.475	256.945	260.785	264.150
<b>170</b>	245.810	246.360	246.940	247.540	248.155	249.695	251.235	252.750	254.230	255.660
<b>175</b>	248.240	248.475	248.705	248.940	249.170	249.405	249.635	249.865	250.085	250.300
<b>180</b>	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000	249.000

**Vert. Horizontal Angles**  
**Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>90</b>	1.655	1.655	1.655	1.655	1.655	1.655	1.655
<b>95</b>	10.965	11.015	11.125	10.805	10.520	11.230	10.480
<b>100</b>	40.845	40.685	39.490	38.175	36.990	35.775	35.795
<b>105</b>	82.440	82.305	81.240	81.380	80.240	71.520	87.515
<b>110</b>	159.680	159.555	157.425	141.175	147.930	156.875	164.545
<b>115</b>	249.275	259.580	258.900	264.605	274.355	300.725	304.200
<b>120</b>	310.240	326.300	343.335	360.650	381.170	390.995	394.895
<b>125</b>	357.265	376.175	401.070	416.155	428.215	437.600	441.420
<b>130</b>	370.185	394.715	414.200	429.005	442.550	452.685	456.255
<b>135</b>	366.130	388.900	407.185	423.045	436.235	445.595	448.040
<b>140</b>	353.880	373.315	389.530	403.810	415.280	422.285	424.570
<b>145</b>	336.905	352.210	365.720	377.110	385.990	391.730	393.805
<b>150</b>	317.665	329.465	339.680	348.185	354.975	358.665	360.190
<b>155</b>	298.570	307.025	314.295	320.160	324.810	327.140	328.340
<b>160</b>	281.620	286.795	291.305	295.220	297.665	299.190	300.005
<b>165</b>	267.310	270.240	272.905	274.680	275.955	276.855	277.375
<b>170</b>	257.045	258.005	258.845	259.555	260.130	260.565	260.860
<b>175</b>	250.505	250.700	250.885	251.055	251.210	251.350	251.470
<b>180</b>	249.000	249.000	249.000	249.000	249.000	249.000	249.000

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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	114.73	N.A.	9.50
90-120	308.72	N.A.	25.60
90-130	557.32	N.A.	46.20
90-150	979.52	N.A.	81.10
90-180	1207.51	N.A.	100.00
110-180	1092.78	N.A.	90.50
0-180	1207.51	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	20.81
100-110	93.91
110-120	193.99
120-130	248.61
130-140	235.26
140-150	186.93
150-160	129.47
160-170	74.44
170-180	24.08

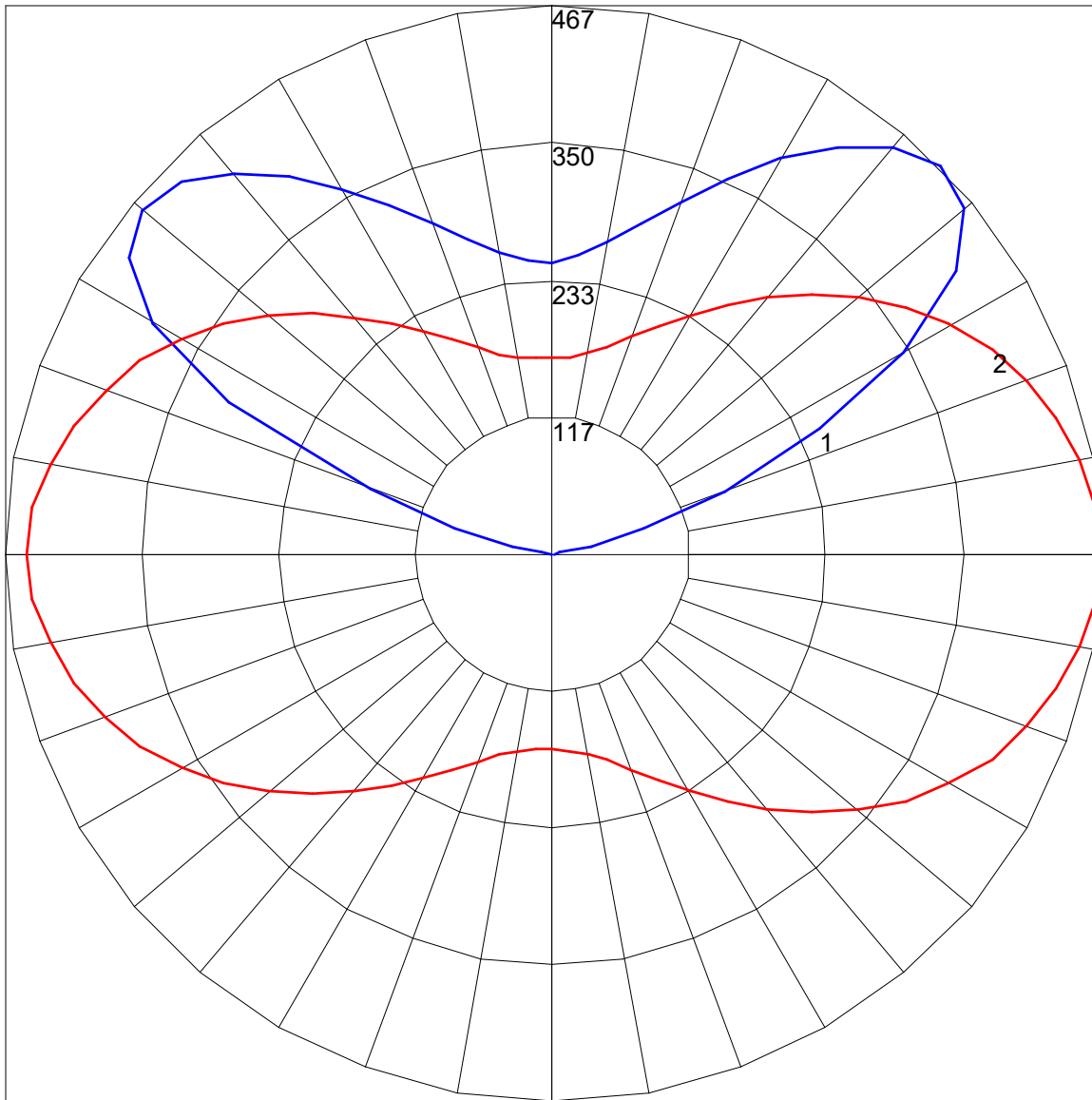
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	27	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 = 466.985 Located At Horizontal Angle = 0, Vertical Angle = 135  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)