

## IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	57	58	58
Total Lumens, 4' rail length (1219mm)	1569	1618	1651	1668
Lumens per foot (305mm)	392	405	413	417
Lumens per foot UP (305mm)	289	298	304	307
Lumens per foot DOWN (305mm)	103	106	109	110
Input Power (W), 4' rail length (1219mm)	28.8	28.8	28.8	28.8
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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\_G1S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-G1S1-BL

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

[MORE] 40° symmetric lens down, 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	1651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	28.76
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	531	1314	7034
55	250	621	4118
65	132	301	2350
75	66	136	1406
85	57	63	643

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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>	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760
<b>5</b>	434.210	433.965	433.895	434.000	434.275	434.725	435.340	436.115	437.045	438.125
<b>10</b>	374.445	374.135	375.075	376.755	379.330	382.770	387.035	390.915	395.650	401.155
<b>15</b>	292.755	292.500	295.020	298.970	304.400	310.160	317.650	326.785	337.485	348.715
<b>20</b>	210.610	210.415	214.170	219.355	225.470	233.810	243.955	254.930	267.710	282.440
<b>25</b>	141.120	141.810	145.280	150.035	156.960	165.360	175.050	186.375	200.940	217.670
<b>30</b>	90.655	91.360	94.170	98.220	103.920	110.845	118.820	130.020	144.400	158.675
<b>35</b>	57.250	57.825	59.750	62.900	66.860	71.680	77.700	88.000	98.360	111.510
<b>40</b>	36.130	36.595	37.880	39.995	42.800	46.035	51.425	58.010	65.380	76.400
<b>45</b>	23.725	24.085	24.810	26.120	27.760	29.695	33.845	37.630	44.015	50.070
<b>50</b>	15.970	16.160	16.700	17.575	18.635	20.320	22.475	25.380	29.165	34.260
<b>55</b>	11.105	11.220	11.575	12.150	12.760	13.995	15.150	17.265	19.760	22.895
<b>60</b>	8.005	8.045	8.240	8.520	8.960	9.670	10.595	11.665	13.420	15.590
<b>65</b>	5.660	5.695	5.820	6.050	6.420	6.735	7.395	8.150	9.155	10.380
<b>70</b>	3.815	3.780	4.105	4.210	4.495	4.730	5.000	5.450	6.055	6.885
<b>75</b>	2.640	2.720	3.055	3.035	3.070	3.190	3.300	3.480	3.805	4.210
<b>80</b>	2.305	2.385	2.505	2.420	2.420	2.435	2.455	2.470	2.485	2.520
<b>85</b>	2.055	2.080	2.040	1.985	1.945	1.890	1.815	1.720	1.705	1.675
<b>90</b>	2.040	2.075	2.095	2.055	2.010	1.990	1.930	1.825	1.675	1.550
<b>95</b>	7.250	9.940	9.570	10.040	10.700	11.650	12.405	14.700	17.570	18.135
<b>100</b>	33.195	35.260	36.445	39.000	41.640	45.005	48.435	52.220	55.360	57.810
<b>105</b>	87.095	78.710	84.735	87.740	90.860	95.275	99.120	101.620	106.090	105.625
<b>110</b>	158.430	154.910	155.270	151.330	163.150	166.325	171.915	175.365	173.315	166.575
<b>115</b>	278.170	273.380	260.735	255.640	255.955	256.255	252.185	244.885	234.555	219.370
<b>120</b>	361.700	357.250	352.735	343.800	336.840	325.665	315.055	302.415	280.815	257.960
<b>125</b>	417.610	413.940	409.125	401.515	393.440	376.365	361.590	338.055	314.240	286.820
<b>130</b>	443.135	441.405	435.510	426.095	415.120	399.765	379.780	356.675	329.755	301.770
<b>135</b>	445.105	443.500	439.515	429.790	417.185	402.335	381.910	360.340	334.605	309.085
<b>140</b>	431.235	431.395	426.580	417.870	405.925	391.685	373.740	353.835	332.100	309.395
<b>145</b>	407.220	405.490	402.465	397.205	386.445	373.595	358.675	341.555	323.535	304.630
<b>150</b>	378.215	378.365	376.015	370.135	362.135	351.735	339.575	325.980	311.760	296.425
<b>155</b>	347.705	346.425	344.075	340.480	335.475	328.070	318.905	308.920	298.335	287.620
<b>160</b>	318.785	318.685	317.195	314.825	310.485	305.440	299.570	292.540	285.010	278.380
<b>165</b>	294.140	293.840	292.735	291.350	289.330	286.195	282.715	278.920	274.840	270.170
<b>170</b>	275.740	275.360	274.635	273.840	272.895	271.810	270.585	268.825	266.965	264.995
<b>175</b>	264.590	264.435	264.310	263.955	263.700	263.425	263.135	262.830	262.520	262.200
<b>180</b>	260.500	260.500	260.500	260.500	260.500	260.500	260.500	260.500	260.500	260.500

**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>	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760	456.760
<b>5</b>	439.345	440.700	442.170	443.750	445.430	447.195	449.005	450.915	452.860
<b>10</b>	407.390	414.305	421.710	424.150	426.880	429.885	433.140	436.585	440.330
<b>15</b>	359.225	368.400	378.520	389.505	401.865	405.680	410.035	414.780	420.210
<b>20</b>	298.080	314.390	331.345	344.255	358.270	373.885	379.000	384.835	391.880
<b>25</b>	235.795	254.210	273.615	294.225	310.425	326.865	339.690	345.510	353.195
<b>30</b>	176.500	196.370	216.290	237.860	259.835	276.310	293.975	298.850	306.170
<b>35</b>	127.480	144.745	163.600	182.620	204.370	223.030	239.145	247.375	254.450
<b>40</b>	87.760	102.990	118.250	135.095	153.000	168.915	180.860	190.990	200.970
<b>45</b>	59.970	70.235	82.590	97.640	112.180	125.745	136.965	145.615	151.345
<b>50</b>	39.925	47.650	56.855	67.140	78.235	88.520	96.990	103.270	106.835
<b>55</b>	27.175	32.090	37.995	45.235	53.015	60.025	65.965	70.535	72.550
<b>60</b>	18.265	21.325	25.315	30.225	35.505	40.540	44.560	46.645	47.905

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	12.135	14.270	16.945	19.935	23.055	26.130	28.835	30.300	30.975
<b>70</b>	7.970	9.355	11.055	12.890	14.725	16.600	18.275	19.200	19.700
<b>75</b>	4.845	5.655	6.700	7.795	8.865	9.920	10.815	11.390	11.735
<b>80</b>	2.720	2.980	3.425	3.945	4.525	5.060	5.590	5.845	5.825
<b>85</b>	1.565	1.430	1.530	1.675	1.750	1.745	1.995	2.165	2.095
<b>90</b>	1.405	1.260	1.155	1.005	0.920	0.795	0.670	0.755	0.795
<b>95</b>	19.125	21.085	21.165	18.475	16.250	15.035	16.170	16.290	15.970
<b>100</b>	56.535	54.805	53.700	47.970	43.755	40.860	39.550	38.445	37.680
<b>105</b>	104.080	98.715	89.865	79.225	70.385	63.835	59.405	56.845	56.455
<b>110</b>	155.740	140.850	124.500	109.005	96.315	87.465	82.155	78.960	77.875
<b>115</b>	199.960	177.255	154.695	135.775	120.885	110.140	103.590	99.605	98.240
<b>120</b>	232.690	204.255	180.400	159.555	143.865	132.280	124.420	119.885	118.865
<b>125</b>	256.440	228.040	202.535	180.200	163.855	151.570	143.130	138.355	136.800
<b>130</b>	273.045	245.510	220.675	198.975	181.260	168.820	160.335	155.540	153.650
<b>135</b>	282.330	257.195	234.085	214.125	197.295	185.195	177.085	171.705	169.030
<b>140</b>	286.255	264.265	243.875	225.850	211.415	199.260	191.640	186.840	184.290
<b>145</b>	285.530	267.210	250.280	235.125	222.735	212.875	205.295	201.375	199.085
<b>150</b>	281.880	267.620	253.705	242.315	231.545	224.405	217.755	214.985	212.955
<b>155</b>	276.670	266.180	256.490	246.950	240.175	234.115	229.570	227.260	225.530
<b>160</b>	271.500	264.210	257.065	252.030	247.135	242.400	240.355	238.615	237.265
<b>165</b>	265.855	262.330	258.795	255.265	251.775	250.165	248.800	247.535	246.485
<b>170</b>	262.935	260.800	258.670	257.630	256.660	255.735	254.870	254.055	253.360
<b>175</b>	261.875	261.545	261.215	260.890	260.570	260.250	259.930	259.640	259.350
<b>180</b>	260.500	260.500	260.500	260.500	260.500	260.500	260.500	260.500	260.500

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	138.55	N.A.	8.40
0-30	245.18	N.A.	14.80
0-40	328.83	N.A.	19.90
0-60	411.36	N.A.	24.90
0-80	432.30	N.A.	26.20
0-90	434.60	N.A.	26.30
10-90	393.71	N.A.	23.80
20-40	190.28	N.A.	11.50
20-50	243.49	N.A.	14.70
40-70	97.12	N.A.	5.90
60-80	20.94	N.A.	1.30
70-80	6.34	N.A.	0.40
80-90	2.31	N.A.	0.10
90-110	114.48	N.A.	6.90
90-120	306.49	N.A.	18.60
90-130	553.73	N.A.	33.50
90-150	981.49	N.A.	59.40
90-180	1216.88	N.A.	73.70
110-180	1102.4	N.A.	66.80
0-180	1651.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.90
10-20	97.65
20-30	106.63
30-40	83.66
40-50	53.21
50-60	29.32
60-70	14.59
70-80	6.34
80-90	2.31
90-100	21.00
100-110	93.48
110-120	192.02
120-130	247.24
130-140	236.95
140-150	190.81
150-160	133.27
160-170	77.01
170-180	25.10

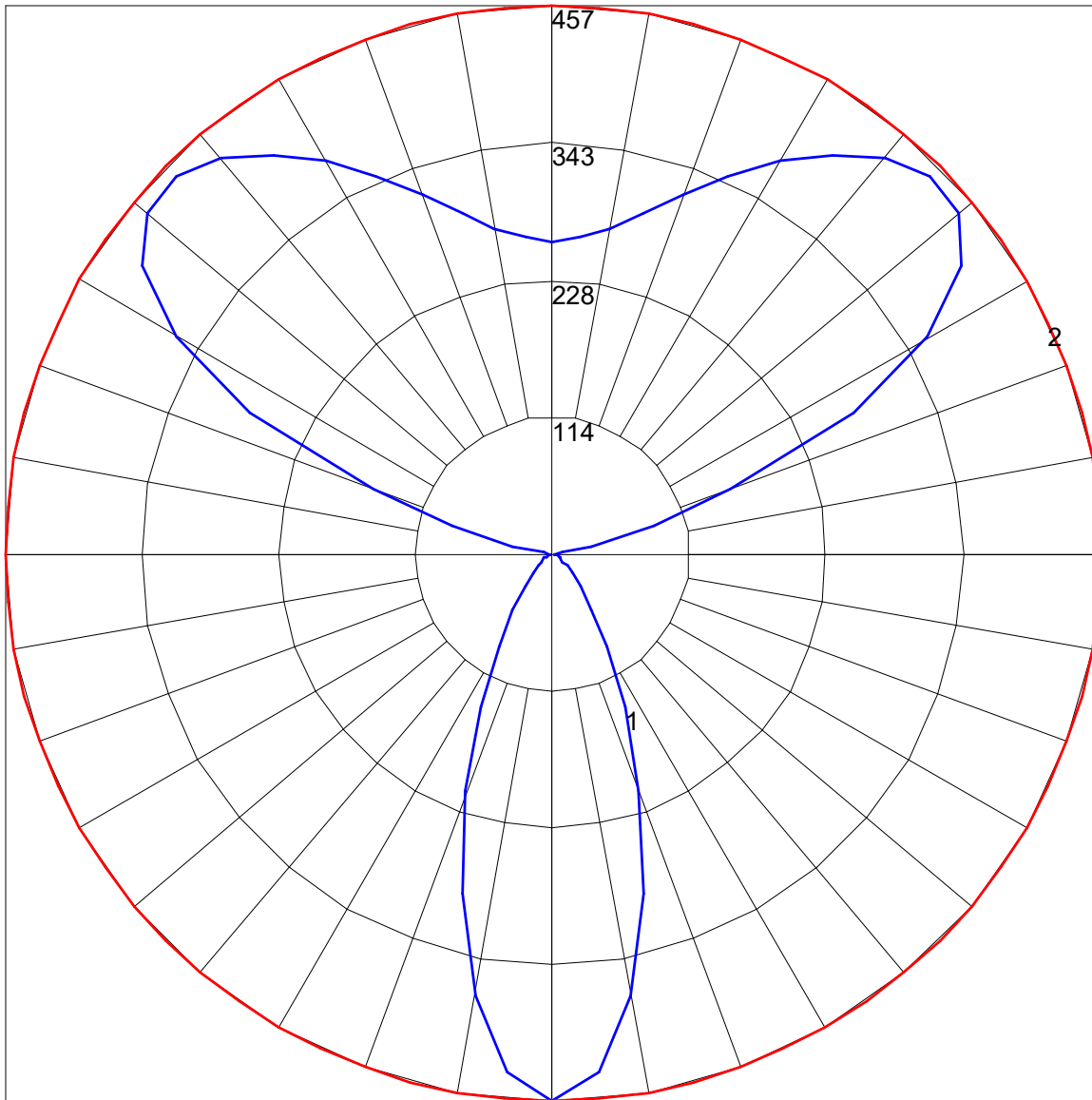
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	90	86	83	83	80	77	75	63	61	59	47	45	44	32	31	31	24
2	86	79	74	69	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	26	24	20
4	73	63	56	51	65	57	51	46	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	18	15
7	58	47	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	18	17	15	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 456.76 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.)