

## 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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	69	70
Total Lumens, 4' rail length (1219mm)	1877	1936	1975	1995
Lumens per foot (305mm)	469	484	494	499
Lumens per foot UP (305mm)	326	337	344	347
Lumens per foot DOWN (305mm)	143	147	150	152
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010907 (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

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

[MORE] 40° symmetric lens down, low 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	1975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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	1308	2348	8645
55	854	1425	5904
65	559	871	4210
75	300	435	2875
85	83	113	1534

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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>	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
<b>5</b>	488.0	487.5	487.5	487.5	488.0	488.0	488.5	489.5	490.0	491.0
<b>10</b>	434.0	433.5	434.5	436.0	438.5	441.5	445.5	448.5	452.5	457.5
<b>15</b>	355.5	355.5	358.0	362.0	367.0	372.5	379.5	388.0	398.0	408.5
<b>20</b>	271.5	271.5	275.5	281.0	287.5	296.0	306.5	318.0	331.0	344.5
<b>25</b>	197.0	198.0	201.5	207.0	214.0	223.5	234.0	246.0	261.0	278.0
<b>30</b>	141.0	142.0	145.0	149.5	156.0	163.5	172.0	184.0	199.5	214.5
<b>35</b>	101.5	102.0	104.5	108.5	113.5	119.5	126.0	137.0	148.5	162.0
<b>40</b>	75.5	76.0	78.0	80.5	84.0	87.5	94.0	101.5	109.5	121.0
<b>45</b>	58.5	59.0	60.0	62.0	64.0	66.5	71.0	75.5	82.5	89.5
<b>50</b>	47.0	47.0	48.0	49.0	50.0	52.0	54.5	58.0	62.5	68.5
<b>55</b>	38.0	38.5	38.5	39.5	40.0	41.0	42.5	45.5	48.5	52.5
<b>60</b>	31.0	31.0	31.0	31.0	31.0	32.0	33.5	35.0	37.0	40.0
<b>65</b>	24.0	24.5	24.0	23.5	24.0	24.5	25.5	26.5	28.0	30.0
<b>70</b>	17.5	16.5	17.0	17.5	17.5	18.0	19.0	19.5	20.5	21.5
<b>75</b>	12.0	11.5	12.0	12.0	11.5	12.0	12.0	12.0	13.0	13.5
<b>80</b>	7.5	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
<b>85</b>	3.0	3.0	3.0	3.0	2.5	3.0	2.5	2.5	3.0	3.0
<b>90</b>	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
<b>95</b>	11.0	15.0	15.0	15.5	16.5	17.0	18.0	21.5	22.0	23.5
<b>100</b>	46.5	47.0	48.5	50.5	53.0	55.5	59.0	62.5	64.5	67.0
<b>105</b>	102.0	94.0	101.0	104.5	107.0	111.0	114.0	117.0	118.0	117.5
<b>110</b>	184.5	179.5	176.0	176.5	186.5	191.0	192.5	194.5	187.5	182.0
<b>115</b>	302.5	299.5	286.0	284.5	282.0	284.5	278.5	270.5	258.5	241.0
<b>120</b>	394.0	392.5	387.0	375.0	366.5	355.5	343.5	330.0	309.0	285.0
<b>125</b>	458.5	455.5	449.5	441.5	433.5	412.5	396.5	371.5	346.0	316.5
<b>130</b>	491.5	488.5	481.0	470.0	457.0	439.0	416.5	391.5	362.5	332.5
<b>135</b>	493.5	491.0	484.0	472.5	458.5	441.5	419.0	395.5	368.5	341.5
<b>140</b>	478.0	475.5	469.5	459.5	446.5	430.5	411.0	390.0	367.0	344.0
<b>145</b>	453.0	451.0	446.0	437.5	426.5	412.5	397.0	379.0	360.5	341.0
<b>150</b>	423.0	421.0	417.5	411.0	402.0	391.5	379.0	365.5	351.0	336.0
<b>155</b>	392.0	390.5	388.0	383.5	377.0	369.5	360.5	350.5	340.0	329.5
<b>160</b>	363.5	363.0	361.0	358.5	354.0	349.0	343.5	336.5	329.0	322.5
<b>165</b>	340.0	339.5	338.0	336.5	334.5	331.5	328.0	324.5	320.5	316.0
<b>170</b>	322.0	321.5	321.0	320.0	319.0	318.0	317.0	315.0	313.5	311.5
<b>175</b>	310.5	310.5	310.5	310.0	309.5	309.5	309.0	309.0	308.5	308.0
<b>180</b>	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5

**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>	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
<b>5</b>	492.0	493.0	494.5	495.5	497.0	498.5	500.0	501.5	503.0
<b>10</b>	463.0	469.0	475.5	477.5	479.5	482.0	485.0	488.0	491.5
<b>15</b>	418.0	426.0	434.5	444.0	455.0	458.5	462.0	466.0	471.0
<b>20</b>	359.0	373.5	389.0	400.0	412.0	426.0	430.0	434.5	440.5
<b>25</b>	296.0	313.5	331.0	349.5	363.5	377.5	388.0	392.5	399.0
<b>30</b>	232.5	252.5	271.5	291.0	310.5	324.0	339.0	343.0	349.5
<b>35</b>	177.5	194.0	214.0	233.0	252.0	268.0	282.0	288.5	293.5
<b>40</b>	133.5	149.0	164.5	181.0	197.0	211.0	224.0	232.0	236.5
<b>45</b>	100.5	112.0	125.0	139.0	153.0	165.5	176.0	182.5	186.0
<b>50</b>	75.5	84.0	94.0	104.5	115.5	125.0	133.0	138.5	140.5
<b>55</b>	57.5	63.5	70.0	78.0	86.0	93.0	99.0	103.0	104.0
<b>60</b>	43.5	47.5	52.5	58.0	63.5	68.5	73.5	76.0	77.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	32.5	35.5	39.0	42.5	46.0	49.5	52.0	54.0	55.5
<b>70</b>	23.0	25.5	27.5	30.0	32.5	36.0	37.5	37.5	38.5
<b>75</b>	15.0	16.0	18.0	19.0	21.0	22.5	23.0	24.0	24.0
<b>80</b>	8.0	8.5	9.5	10.0	11.0	12.0	12.5	13.0	13.0
<b>85</b>	3.0	3.0	3.5	3.5	4.0	4.0	4.0	4.5	5.0
<b>90</b>	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
<b>95</b>	25.5	27.5	27.0	25.5	20.0	18.5	18.5	19.0	19.0
<b>100</b>	65.0	63.5	60.5	54.0	49.0	46.5	43.5	41.5	41.0
<b>105</b>	114.5	109.5	100.5	90.0	81.0	74.5	69.0	66.0	66.0
<b>110</b>	171.5	155.5	139.5	124.0	111.0	101.5	95.5	92.0	91.0
<b>115</b>	220.0	195.5	173.5	154.0	138.5	128.0	120.5	117.0	115.5
<b>120</b>	259.0	230.5	204.0	180.5	164.0	153.0	145.5	140.5	139.5
<b>125</b>	285.0	255.5	229.0	205.0	188.5	176.0	167.5	163.5	162.0
<b>130</b>	303.0	275.0	250.0	228.0	210.0	198.0	189.5	183.5	181.5
<b>135</b>	314.0	289.0	265.5	246.0	229.5	217.5	209.0	203.5	201.5
<b>140</b>	320.0	298.5	278.5	260.5	246.0	234.5	227.0	222.0	219.5
<b>145</b>	322.0	304.0	287.5	272.5	260.5	250.5	243.5	239.5	237.0
<b>150</b>	321.5	307.5	294.0	282.5	271.5	264.5	258.0	255.5	253.5
<b>155</b>	318.5	308.5	298.5	289.5	282.5	276.5	272.0	270.0	268.0
<b>160</b>	315.5	308.5	301.0	296.0	291.5	286.5	284.5	282.5	281.5
<b>165</b>	311.5	308.0	304.5	301.0	297.5	296.0	294.5	293.0	292.0
<b>170</b>	309.5	307.0	305.0	304.0	303.0	302.5	301.5	300.5	300.0
<b>175</b>	308.0	307.5	307.0	307.0	306.5	306.0	305.5	305.5	305.0
<b>180</b>	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	160.07	N.A.	8.10
0-30	292.30	N.A.	14.80
0-40	405.45	N.A.	20.50
0-60	544.19	N.A.	27.50
0-80	596.16	N.A.	30.20
0-90	600.91	N.A.	30.40
10-90	554.91	N.A.	28.10
20-40	245.38	N.A.	12.40
20-50	328.20	N.A.	16.60
40-70	173.45	N.A.	8.80
60-80	51.97	N.A.	2.60
70-80	17.26	N.A.	0.90
80-90	4.75	N.A.	0.20
90-110	133.33	N.A.	6.70
90-120	347.31	N.A.	17.60
90-130	622.34	N.A.	31.50
90-150	1102.29	N.A.	55.80
90-180	1374.43	N.A.	69.60
110-180	1241.11	N.A.	62.80
0-180	1975.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.00
10-20	114.06
20-30	132.24
30-40	113.15
40-50	82.82
50-60	55.92
60-70	34.71
70-80	17.26
80-90	4.75
90-100	26.16
100-110	107.17
110-120	213.98
120-130	275.03
130-140	264.80
140-150	215.15
150-160	152.80
160-170	89.85
170-180	29.50

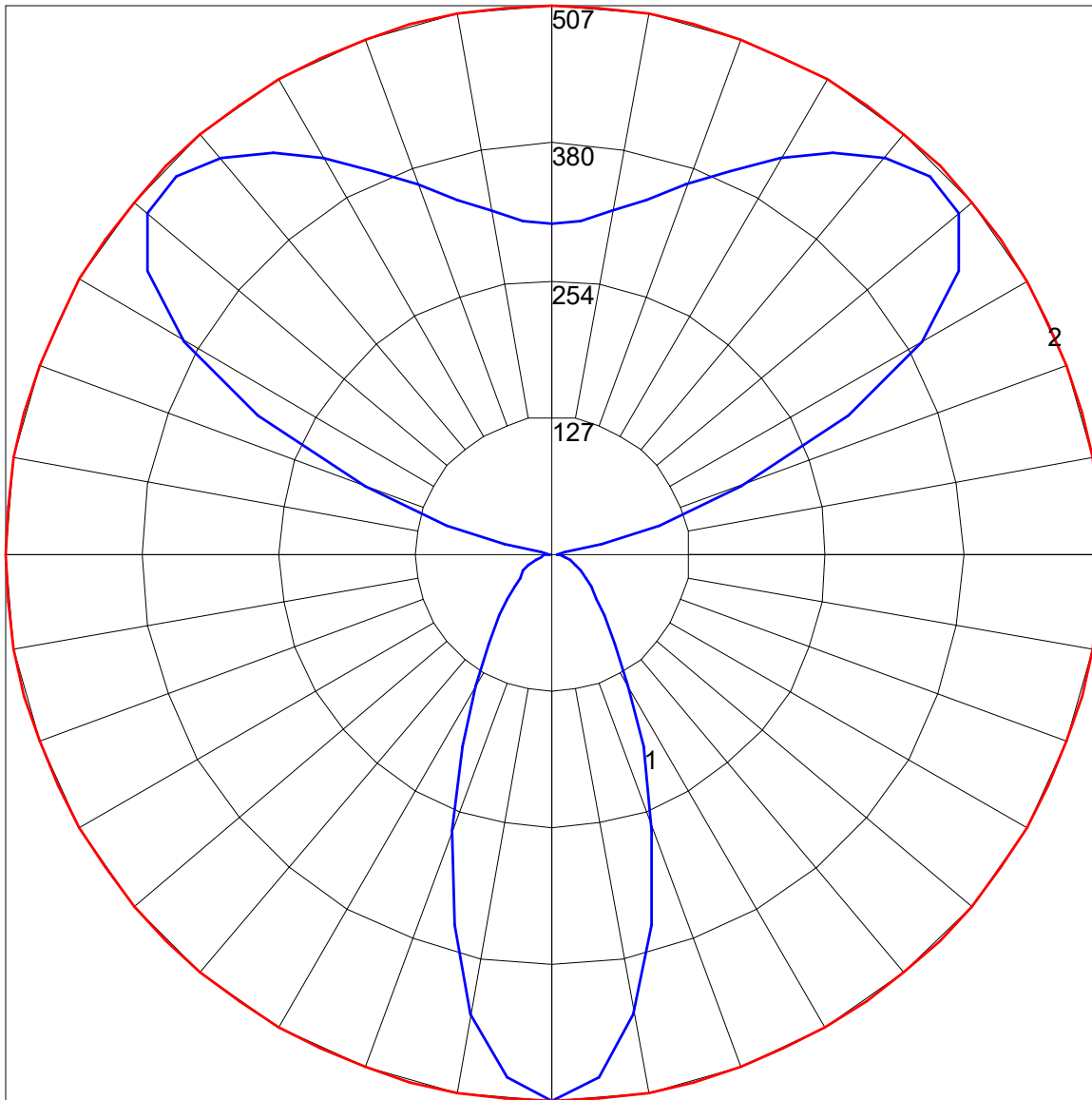
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	92	92	92	72	72	72	55	55	55	38	38	38	30
1	94	90	87	84	84	81	78	76	64	63	61	49	48	47	35	34	34	27
2	86	80	74	70	77	72	67	63	57	54	52	44	42	40	32	30	30	24
3	79	71	64	59	71	64	58	54	51	48	44	40	37	35	29	27	26	21
4	73	63	56	51	65	57	51	46	46	42	39	36	33	31	26	25	23	19
5	67	57	49	44	60	52	45	40	42	37	34	33	30	27	24	22	21	17
6	62	51	44	38	56	47	40	36	38	33	30	30	27	24	22	20	19	16
7	58	46	39	34	52	42	36	32	35	30	27	28	24	22	21	19	17	14
8	54	42	35	30	48	39	33	28	32	27	24	25	22	20	19	17	16	13
9	50	39	32	27	45	36	30	25	29	25	22	24	20	18	18	16	15	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 507 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.)