

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1BB-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	60
Total Lumens, 4' rail length (1219mm)	1617	1669	1703	1720
Lumens per foot (305mm)	404	417	426	430
Lumens per foot UP (305mm)	297	306	313	316
Lumens per foot DOWN (305mm)	107	111	113	114
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_G1BB_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010915 (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-G1BB-BL

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

[MORE] black baffle w/clear 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	1703
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
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	212	722	558
55	146	163	255
65	105	58	114
75	50	48	120
85	70	56	153

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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>
0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
5	532.5	529.0	525.5	522.5	519.0	515.5	512.5	509.5	507.0	504.5
10	526.5	519.5	512.5	506.0	499.5	493.0	487.5	477.5	468.0	459.5
15	516.0	505.0	495.0	485.5	474.5	458.5	443.0	429.0	416.0	403.5
20	501.5	487.5	474.5	459.5	438.0	417.0	396.5	376.5	358.0	341.0
25	482.5	466.5	451.0	425.5	399.5	373.0	347.0	322.0	299.0	278.0
30	458.5	439.0	417.5	386.0	355.0	324.5	295.0	266.5	238.5	210.0
35	430.0	409.0	379.5	343.5	306.5	271.0	238.5	203.5	169.5	138.0
40	275.5	258.5	235.0	213.0	200.0	195.0	171.5	135.0	101.5	71.5
45	9.5	19.5	41.5	57.0	60.5	52.0	64.0	60.5	43.5	27.5
50	7.5	7.5	7.0	7.0	6.5	9.5	9.5	11.5	13.0	13.5
55	6.5	6.5	6.0	5.5	4.5	4.5	4.0	4.5	5.0	6.0
60	6.0	5.5	5.0	4.5	4.0	3.5	3.0	2.5	2.5	3.0
65	4.5	4.5	4.0	3.5	3.0	3.0	2.5	2.0	2.0	2.0
70	3.0	3.0	3.0	3.0	2.5	2.5	2.0	2.0	1.5	1.5
75	2.0	2.0	2.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5
80	2.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5	1.5	1.0
85	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5
90	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
95	4.0	7.0	6.0	6.5	7.5	9.5	11.0	18.0	20.5	23.5
100	27.5	30.0	32.0	35.5	41.0	48.0	56.5	67.0	76.0	81.0
105	79.0	78.0	86.0	93.5	102.0	117.5	132.5	142.0	157.5	156.5
110	190.5	193.0	203.0	204.5	235.0	251.5	271.5	284.5	269.0	229.5
115	412.0	409.5	398.0	404.0	405.0	417.5	393.0	361.5	314.5	253.0
120	573.5	566.5	547.5	523.0	508.0	465.5	424.5	370.0	311.5	257.0
125	572.0	566.5	551.0	526.0	493.5	450.5	403.0	355.0	306.5	262.0
130	510.0	506.0	494.0	474.5	447.0	414.5	379.0	341.0	304.5	270.5
135	457.5	454.5	445.5	430.5	410.5	385.0	359.5	331.0	303.5	276.5
140	418.5	415.5	408.5	397.5	383.0	365.0	344.5	323.0	300.5	278.0
145	385.5	383.5	377.5	369.0	357.0	343.0	327.0	308.5	290.0	271.0
150	349.0	347.5	343.5	336.0	326.5	315.5	302.5	288.0	273.0	257.5
155	308.5	307.0	304.5	299.5	293.0	285.0	275.0	264.0	254.0	243.5
160	272.0	271.0	269.5	266.5	262.5	257.5	252.0	245.0	237.5	231.5
165	244.5	244.0	243.0	242.0	240.0	237.5	234.5	231.0	227.5	223.0
170	227.0	227.0	226.5	226.0	225.0	224.0	223.0	221.5	220.0	218.0
175	217.0	217.0	216.5	216.5	216.5	216.0	216.0	215.5	215.5	215.0
180	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5

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>
0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
5	502.0	500.0	498.0	496.5	495.5	494.5	493.5	493.5	493.5
10	451.5	444.5	438.5	433.0	428.0	424.5	421.5	419.5	419.5
15	391.5	380.0	370.5	362.0	355.0	349.5	345.0	342.5	342.0
20	325.5	312.0	300.0	288.5	279.5	273.0	266.5	262.0	261.0
25	258.5	239.5	222.0	207.0	194.5	184.5	177.5	172.0	171.5
30	183.5	160.5	140.0	123.0	109.5	98.0	90.0	84.0	83.5
35	109.0	82.5	69.0	58.5	47.5	39.5	35.0	33.5	34.5
40	53.5	38.5	31.5	27.5	23.5	20.5	19.5	18.5	18.0
45	24.5	20.5	18.0	16.0	14.5	13.5	12.5	12.0	12.0
50	14.0	12.5	11.5	10.5	9.5	8.5	8.0	7.5	7.5
55	7.0	7.0	6.5	6.0	5.5	5.0	4.5	4.5	4.5
60	3.0	3.5	3.5	3.5	3.0	3.0	2.5	2.5	2.5

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CANDELA TABULATION - (Cont.)

65	1.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5
70	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0
80	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
85	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5
90	1.5	1.5	1.5	1.0	1.0	1.0	0.5	0.5	1.0
95	29.0	26.5	20.5	16.5	12.5	12.0	14.5	14.5	14.0
100	79.0	66.5	53.0	41.5	37.0	36.0	36.5	38.0	37.5
105	140.5	110.0	82.5	64.5	57.0	55.5	56.0	57.5	58.0
110	181.5	135.5	104.5	86.5	79.0	78.5	80.5	83.0	84.5
115	197.5	154.5	126.0	110.0	103.0	102.0	105.0	107.5	109.5
120	209.5	172.0	147.0	134.0	127.5	126.0	127.5	130.5	132.5
125	225.0	194.0	171.5	158.0	150.0	146.5	146.0	147.5	148.5
130	239.0	213.0	193.5	179.5	169.5	162.5	159.0	157.5	157.0
135	251.0	229.0	210.0	195.0	183.5	174.0	167.0	162.5	160.0
140	256.0	236.5	218.0	202.5	189.5	178.5	171.0	166.0	163.0
145	252.5	235.0	218.5	204.0	192.0	182.5	174.5	170.5	168.0
150	242.5	228.5	215.0	204.5	194.0	187.0	180.5	177.5	175.5
155	232.0	222.0	213.5	204.5	198.0	192.5	188.5	186.5	184.5
160	225.0	218.5	212.0	207.5	203.0	198.5	197.0	195.5	194.0
165	219.5	216.0	213.0	210.0	206.5	205.5	204.0	203.0	202.0
170	216.5	214.5	213.0	212.0	211.0	210.5	209.5	209.0	208.5
175	215.0	214.5	214.0	214.0	213.5	213.5	213.0	212.5	212.5
180	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	162.77	N.A.	9.60
0-30	298.46	N.A.	17.50
0-40	406.16	N.A.	23.90
0-60	445.87	N.A.	26.20
0-80	449.93	N.A.	26.40
0-90	451.59	N.A.	26.50
10-90	404.38	N.A.	23.80
20-40	243.39	N.A.	14.30
20-50	277.74	N.A.	16.30
40-70	42.19	N.A.	2.50
60-80	4.07	N.A.	0.20
70-80	1.58	N.A.	0.10
80-90	1.66	N.A.	0.10
90-110	131.80	N.A.	7.70
90-120	377.25	N.A.	22.20
90-130	653.45	N.A.	38.40
90-150	1052.61	N.A.	61.80
90-180	1250.97	N.A.	73.50
110-180	1119.17	N.A.	65.70
0-180	1702.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.22
10-20	115.56
20-30	135.68
30-40	107.71
40-50	34.35
50-60	5.35
60-70	2.49
70-80	1.58
80-90	1.66
90-100	21.83
100-110	109.96
110-120	245.46
120-130	276.20
130-140	227.28
140-150	171.87
150-160	113.98
160-170	63.77
170-180	20.61

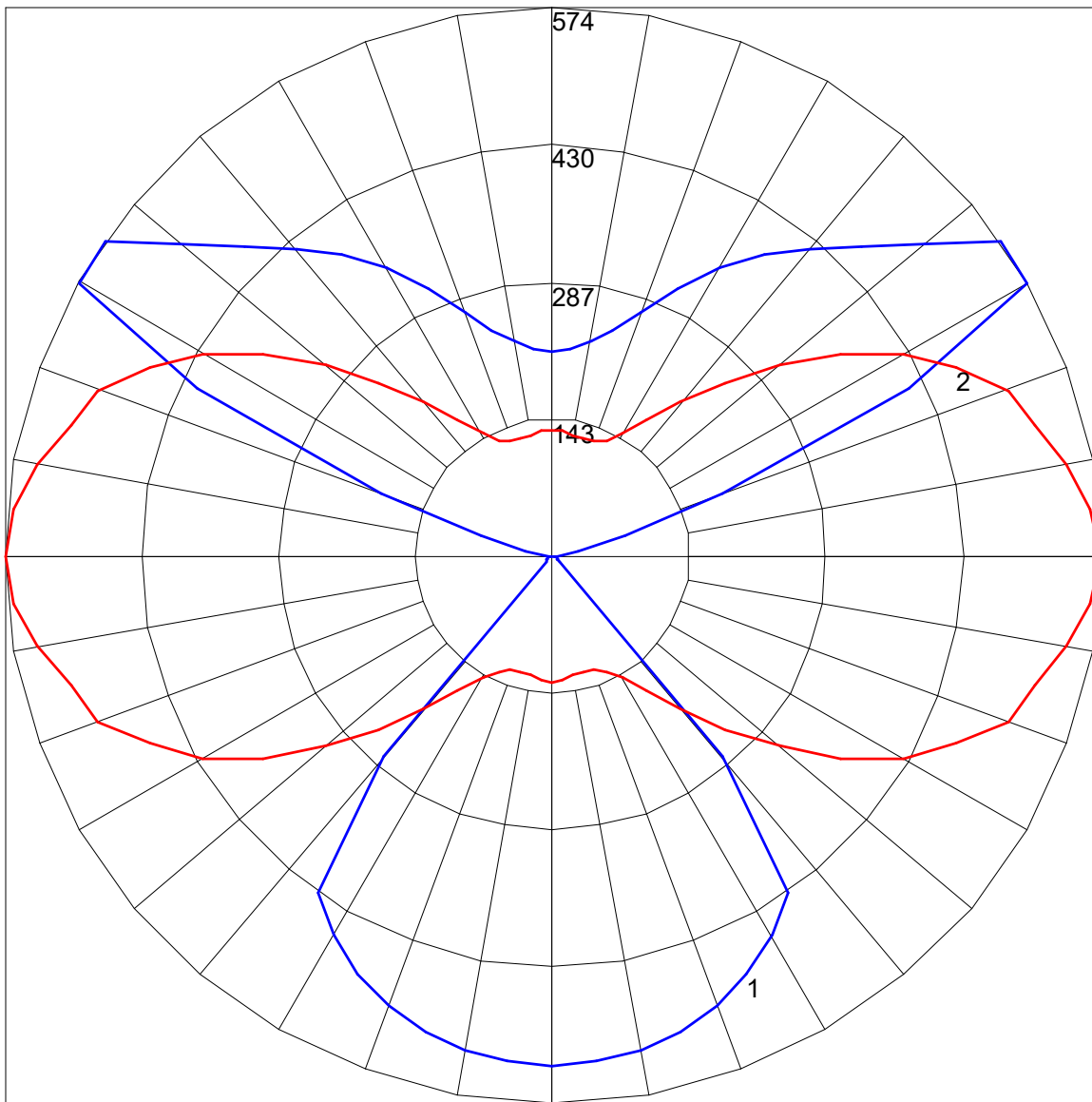
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	35	35	35	27
1	94	90	87	84	84	81	78	75	63	61	60	47	46	45	32	32	31	25
2	86	80	75	70	77	72	68	64	57	54	52	43	41	40	30	29	28	23
3	80	72	65	60	71	65	59	55	51	48	45	39	37	35	28	27	26	21
4	74	64	58	52	66	58	53	48	47	43	40	36	34	32	26	25	24	20
5	68	58	51	46	61	53	47	42	43	38	35	33	31	28	24	23	22	18
6	63	53	46	41	57	48	42	38	39	35	32	31	28	26	23	21	20	17
7	59	48	41	36	53	44	38	34	36	32	29	28	26	23	21	20	19	16
8	55	44	37	33	49	40	34	30	33	29	26	26	24	22	20	18	17	15
9	51	40	34	29	46	37	31	27	31	26	24	25	22	20	19	17	16	14
10	48	37	31	27	44	34	29	25	29	24	22	23	20	18	18	16	15	13

POLAR GRAPH



Maximum Candela = 573.5 Located At Horizontal Angle = 0, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)