

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1WB-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	71
Total Lumens, 4' rail length (1219mm)	1901	1961	2001	2021
Lumens per foot (305mm)	475	490	500	505
Lumens per foot UP (305mm)	302	312	318	321
Lumens per foot DOWN (305mm)	173	179	182	184
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_G1WB_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010916 (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-G1WB-BL

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

[MORE] white 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	2001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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	1219	3004	4276
55	764	1683	3406
65	664	856	2579
75	150	290	1677
85	56	75	613

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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	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
5	620.0	616.5	613.5	610.5	607.5	604.5	602.0	599.0	597.0	594.5
10	613.5	607.5	601.5	595.5	590.0	584.5	579.5	570.0	561.0	553.0
15	602.0	593.0	584.0	575.5	566.0	551.5	537.5	524.5	512.0	501.0
20	585.0	573.0	562.0	549.0	529.0	510.5	492.5	475.5	459.5	445.0
25	564.0	550.0	537.0	513.5	489.0	466.0	444.5	424.5	401.0	379.0
30	536.0	520.0	501.0	471.5	443.5	417.0	390.5	362.5	336.0	312.0
35	497.5	479.0	452.5	420.0	389.0	358.0	327.0	296.5	268.5	240.0
40	293.0	285.0	274.5	270.0	270.5	272.0	249.0	221.0	195.0	167.0
45	54.5	65.5	88.0	110.0	119.0	120.5	136.5	136.0	126.5	114.5
50	37.5	41.0	47.0	53.0	59.5	71.0	79.0	84.5	85.5	84.5
55	34.0	36.5	40.5	45.0	49.5	55.0	59.0	60.5	61.5	62.0
60	32.0	33.0	34.5	36.0	38.0	40.0	41.5	42.0	43.0	44.5
65	28.5	27.5	26.0	25.5	26.0	26.5	27.0	28.0	28.5	29.5
70	15.5	15.0	15.0	15.0	15.0	15.5	15.5	16.0	17.0	18.0
75	6.0	6.0	6.5	6.5	6.5	7.0	7.0	7.5	8.5	9.0
80	2.5	3.0	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.5
85	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
90	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
95	3.5	7.5	7.0	7.5	9.0	11.0	13.5	18.5	21.0	27.5
100	30.0	32.0	33.5	37.0	43.0	49.5	57.0	66.5	75.0	78.0
105	80.5	82.0	87.5	94.0	101.5	117.5	132.0	141.5	152.0	149.0
110	194.5	194.5	200.5	205.5	226.5	239.0	255.0	264.5	253.0	219.5
115	385.0	380.5	366.0	373.0	370.5	379.0	358.5	333.0	295.0	245.0
120	508.0	502.5	486.0	466.0	452.0	420.0	389.0	348.0	302.5	257.5
125	509.5	506.0	496.0	480.5	457.0	424.0	389.0	351.5	312.0	272.0
130	480.5	477.5	469.5	457.0	438.0	413.0	383.0	351.5	317.5	285.5
135	454.5	452.0	444.5	433.5	417.5	396.5	374.0	348.5	322.5	296.0
140	428.5	426.0	420.0	411.5	399.5	384.5	366.0	346.0	325.0	304.5
145	406.0	404.0	399.0	392.0	382.0	370.0	356.0	339.5	322.5	304.0
150	380.5	378.5	374.5	368.0	360.0	350.0	339.0	325.5	310.0	293.5
155	348.0	346.5	343.5	338.5	331.5	323.5	313.5	303.0	290.5	277.0
160	311.5	310.5	308.0	305.0	299.5	293.5	286.5	278.0	268.5	260.0
165	276.5	276.0	274.5	272.5	269.5	265.5	261.5	256.5	251.0	244.5
170	248.5	248.0	247.5	246.5	245.0	244.0	242.0	239.5	237.0	234.5
175	230.5	230.5	230.0	230.0	229.5	229.5	229.0	228.5	228.0	228.0
180	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5

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	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
5	592.5	590.5	589.0	587.5	586.5	586.0	585.0	585.0	585.0
10	546.0	539.5	534.0	529.0	524.5	521.0	519.0	517.0	517.0
15	490.5	481.0	472.5	465.5	460.0	455.0	451.0	448.5	448.0
20	430.0	416.0	404.0	393.0	384.0	377.5	371.0	366.0	365.0
25	359.0	342.5	328.0	315.5	304.5	296.0	290.0	285.5	285.0
30	290.0	269.5	249.0	231.0	216.5	204.0	194.5	188.0	187.5
35	211.0	184.5	171.0	161.0	153.0	146.0	141.5	139.0	138.5
40	149.5	133.5	126.5	122.5	119.0	116.5	114.5	113.5	112.5
45	109.5	105.0	102.0	99.0	96.5	95.0	93.5	92.5	92.0
50	84.0	82.0	80.0	79.0	78.0	76.5	75.5	75.0	75.0
55	62.5	62.0	61.5	61.5	61.0	60.5	60.0	59.5	60.0
60	46.0	45.5	46.5	46.5	46.5	46.5	46.5	46.0	46.0

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CANDELA TABULATION - (Cont.)

65	31.0	31.5	33.5	34.0	34.0	34.0	34.5	34.5	34.0
70	19.0	20.0	21.0	22.0	23.0	23.0	23.5	23.5	23.5
75	9.5	10.5	11.5	12.5	13.5	13.5	14.0	14.5	14.0
80	4.0	4.0	4.5	5.0	5.5	6.0	6.5	6.5	6.5
85	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0
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	17.0	13.0	12.0	14.5	14.5	14.0
100	77.5	66.5	53.0	42.0	37.0	35.5	36.5	38.0	37.5
105	136.0	110.0	82.5	65.0	57.0	55.5	57.0	57.5	58.0
110	179.0	136.5	105.5	88.0	81.0	79.5	82.0	84.0	85.0
115	197.5	158.0	130.0	113.5	106.0	104.5	107.0	109.5	110.5
120	217.0	181.0	155.5	139.5	132.0	130.0	131.0	133.0	134.5
125	237.0	206.5	182.5	166.0	156.5	152.0	150.5	151.0	151.5
130	255.0	230.5	209.5	193.0	181.0	172.5	166.0	162.0	160.0
135	272.0	249.5	229.5	213.0	198.5	186.0	175.0	167.5	163.5
140	283.5	263.0	243.0	224.5	207.5	192.0	179.5	171.5	167.0
145	284.5	265.5	245.5	227.5	210.0	195.5	183.0	176.5	172.0
150	276.5	259.0	242.0	226.0	210.5	199.0	188.0	184.0	180.5
155	263.0	249.5	236.5	223.0	213.0	204.0	197.0	193.5	190.5
160	250.5	240.5	230.5	223.5	216.0	208.5	206.0	203.0	201.0
165	239.0	234.0	229.0	223.5	218.5	216.5	214.5	212.5	211.0
170	231.5	228.5	225.5	224.0	223.0	221.5	220.5	219.5	218.5
175	227.5	227.0	226.5	226.0	225.5	225.0	224.5	224.0	223.5
180	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	198.96	N.A.	9.90
0-30	380.63	N.A.	19.00
0-40	545.64	N.A.	27.30
0-60	686.05	N.A.	34.30
0-80	727.13	N.A.	36.30
0-90	729.67	N.A.	36.50
10-90	673.78	N.A.	33.70
20-40	346.68	N.A.	17.30
20-50	436.68	N.A.	21.80
40-70	170.40	N.A.	8.50
60-80	41.08	N.A.	2.10
70-80	11.09	N.A.	0.60
80-90	2.54	N.A.	0.10
90-110	130.94	N.A.	6.50
90-120	363.96	N.A.	18.20
90-130	631.58	N.A.	31.60
90-150	1053.14	N.A.	52.60
90-180	1271.44	N.A.	63.50
110-180	1140.5	N.A.	57.00
0-180	2001.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.88
10-20	143.08
20-30	181.67
30-40	165.01
40-50	90.00
50-60	50.42
60-70	29.98
70-80	11.09
80-90	2.54
90-100	22.31
100-110	108.63
110-120	233.02
120-130	267.62
130-140	235.55
140-150	186.01
150-160	126.58
160-170	69.81
170-180	21.91

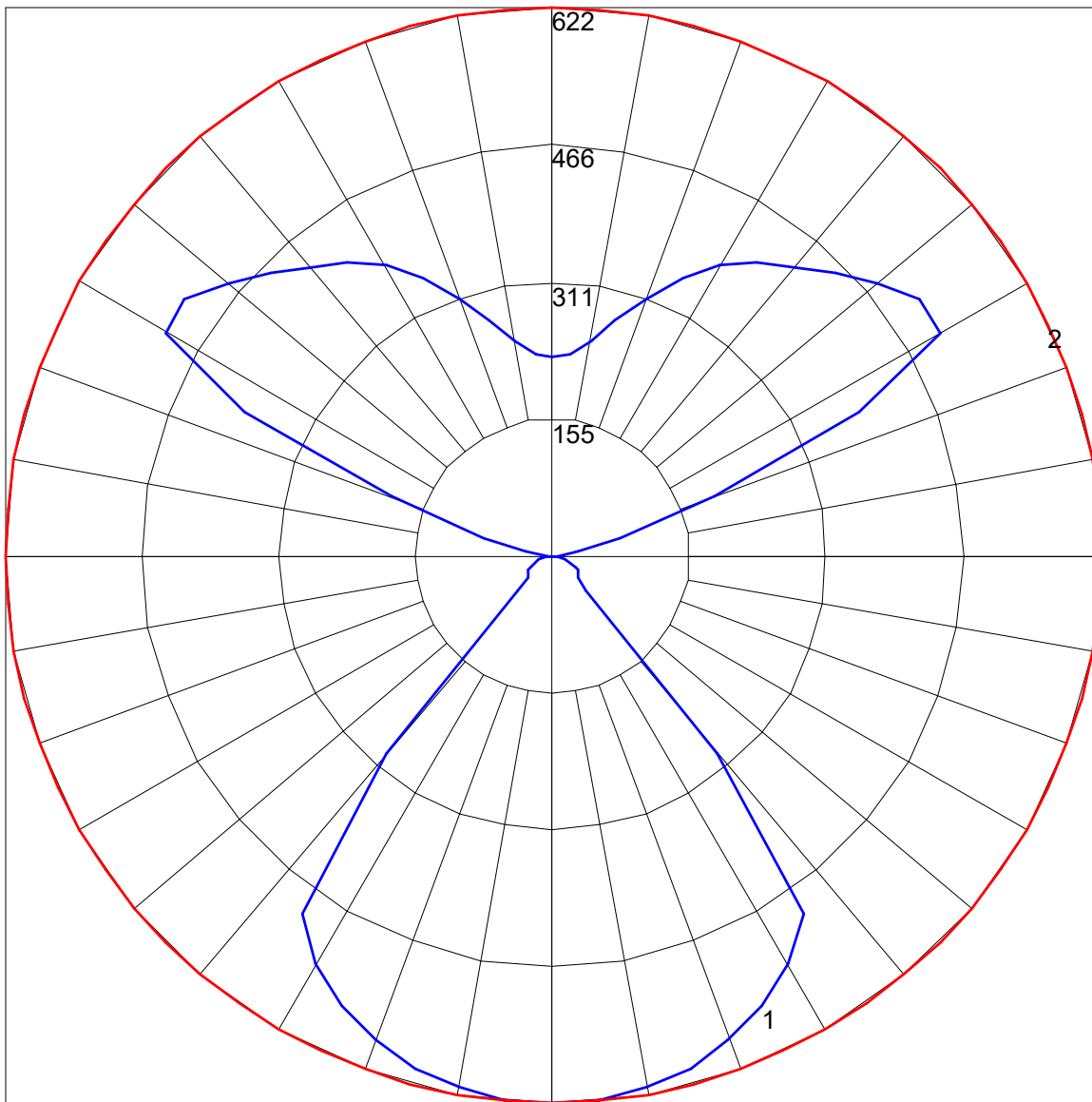
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	89	86	87	84	81	78	68	66	64	54	52	51	40	40	39	33
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	37	36	35	30
3	81	73	67	61	74	67	61	57	55	51	48	44	42	39	34	32	31	27
4	75	66	59	53	68	60	54	49	50	46	42	40	37	35	31	30	28	24
5	69	59	52	47	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	54	46	41	59	49	43	38	41	37	33	34	31	28	27	25	23	20
7	60	49	42	37	55	45	39	34	38	33	30	31	28	25	25	23	21	18
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17
9	52	41	34	30	48	38	32	28	32	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	25	22	20	20	18	17	15

POLAR GRAPH



Maximum Candela = 621.5 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.)