

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	80
Total Lumens, 4' rail length (1219mm)	2140	2208	2253	2275
Lumens per foot (305mm)	535	552	563	569
Lumens per foot UP (305mm)	323	334	340	344
Lumens per foot DOWN (305mm)	212	218	223	225
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010909 (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

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

[MORE] white baffle w/clear lens down, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	1968	4132	5903
55	1540	2375	4797
65	1118	1335	3793
75	337	516	2515
85	139	150	920

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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	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
5	674.0	671.5	669.0	666.5	664.5	662.0	660.0	658.0	656.5	655.0
10	666.0	661.0	656.0	651.5	647.0	643.0	639.0	630.5	622.5	615.5
15	653.5	646.5	639.5	633.0	625.5	611.5	598.5	586.5	575.0	564.5
20	633.5	624.0	615.5	605.0	587.0	570.0	553.5	537.5	523.5	509.0
25	608.0	597.0	586.5	566.0	544.5	523.5	502.5	483.5	462.5	443.0
30	579.5	566.5	550.5	524.0	498.5	473.5	447.5	421.0	396.0	371.0
35	537.0	522.0	499.5	471.0	442.5	415.0	387.0	354.5	325.0	296.0
40	318.0	309.5	300.0	298.5	307.5	323.0	307.0	276.0	248.5	219.5
45	88.0	99.0	120.0	138.0	142.5	143.5	175.0	172.5	168.0	157.5
50	76.0	78.0	82.0	86.5	92.0	101.0	108.0	115.0	117.5	116.5
55	68.5	69.5	71.5	74.5	77.0	81.0	84.5	85.5	86.5	87.5
60	61.5	61.5	61.0	60.0	60.0	61.5	62.0	63.0	64.0	65.0
65	48.0	47.0	44.0	43.0	42.5	42.5	43.0	43.5	44.5	46.0
70	28.0	27.0	26.0	26.0	26.5	26.5	26.5	27.0	28.0	29.5
75	13.5	13.0	14.5	14.0	14.0	14.0	14.0	14.0	15.0	16.0
80	8.5	9.0	8.5	8.5	8.0	8.0	7.5	7.5	7.5	7.5
85	5.0	5.5	5.5	5.5	5.5	5.0	5.0	4.5	4.5	4.0
90	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
95	11.0	14.0	13.5	14.0	14.5	15.5	17.0	21.0	21.0	23.0
100	45.0	47.0	48.0	50.5	53.5	56.5	59.5	63.5	67.0	67.0
105	105.0	98.0	105.0	108.0	110.5	116.5	120.0	123.0	127.0	125.5
110	193.5	188.5	186.5	188.5	198.5	200.5	201.0	202.5	199.5	188.5
115	310.5	309.0	297.5	293.0	292.0	291.5	285.5	275.5	262.0	244.5
120	401.0	398.5	393.0	383.0	375.0	362.0	348.5	333.5	309.0	283.5
125	461.5	458.5	452.5	444.0	433.5	413.5	396.0	369.5	343.0	313.0
130	489.5	486.5	479.5	468.0	454.5	436.5	413.5	388.0	359.0	328.5
135	491.0	488.5	481.5	470.0	455.5	438.0	415.5	392.0	364.5	337.0
140	475.5	473.0	466.5	456.5	443.0	427.0	407.0	385.5	362.5	338.5
145	449.5	447.0	442.0	433.5	422.0	408.0	392.5	374.0	354.5	335.0
150	418.0	416.0	412.0	405.5	396.5	385.5	372.5	358.5	344.0	327.5
155	385.5	384.0	381.0	376.0	370.0	361.5	352.0	342.0	331.0	320.0
160	354.5	354.0	352.0	349.0	344.5	339.5	333.5	326.5	319.0	312.0
165	329.0	328.5	327.5	326.0	323.5	320.5	317.0	313.5	309.5	304.5
170	310.0	310.0	309.5	308.5	307.5	306.5	305.5	304.0	302.0	300.0
175	299.0	299.0	298.5	298.5	298.0	298.0	297.5	297.5	297.0	296.5
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0

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	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
5	653.5	652.0	651.0	650.5	649.5	649.5	649.0	649.0	649.5
10	609.0	603.5	598.5	594.0	590.5	587.5	585.5	584.5	585.0
15	554.0	545.0	536.5	530.0	525.0	520.5	518.0	516.5	517.0
20	494.5	480.0	468.0	457.0	448.5	442.0	437.5	434.5	435.0
25	425.5	408.0	391.5	378.0	366.5	358.0	352.0	347.0	347.0
30	348.5	328.5	310.0	293.5	280.0	268.5	260.0	255.0	254.5
35	269.0	245.5	228.0	214.0	203.0	195.5	190.0	186.0	184.5
40	198.5	177.5	167.0	162.5	159.5	157.5	155.5	153.5	153.0
45	150.0	144.5	140.0	136.0	133.0	131.0	129.0	127.5	127.0
50	117.0	115.0	112.5	110.5	108.5	106.5	105.5	104.5	104.0
55	88.5	88.0	88.5	88.0	87.0	86.0	85.0	84.5	84.5
60	66.0	66.5	67.0	67.5	67.5	67.0	66.5	66.0	66.0

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CANDELA TABULATION - (Cont.)

65	47.0	48.0	49.0	49.5	49.5	50.0	49.5	49.5	50.0
70	30.5	32.5	34.0	33.5	34.0	35.0	35.0	36.0	38.0
75	17.0	18.0	19.5	20.0	20.0	21.0	21.0	21.0	21.0
80	7.5	8.0	8.5	9.0	9.5	9.5	10.0	10.0	10.0
85	4.0	4.0	3.5	3.5	3.0	3.0	3.0	3.0	3.0
90	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	0.5
95	23.0	25.0	25.0	21.5	19.0	19.0	19.5	18.5	18.5
100	66.5	65.5	61.0	54.5	50.5	46.5	42.5	41.5	41.0
105	122.0	114.0	103.5	90.5	80.0	72.5	67.0	64.5	64.0
110	172.5	157.0	139.5	121.5	108.0	99.0	92.5	89.0	89.0
115	221.5	195.5	171.0	151.0	135.5	124.5	117.0	113.0	112.5
120	255.5	226.0	199.5	177.0	160.0	148.5	141.5	136.5	134.5
125	280.5	250.5	223.5	199.5	181.5	170.0	163.0	158.0	155.5
130	298.5	269.5	244.0	221.5	203.0	191.0	181.5	175.0	171.0
135	309.0	283.0	259.5	239.0	222.0	209.5	201.5	196.5	194.0
140	314.5	291.5	271.0	252.5	238.0	226.5	218.5	214.0	211.5
145	315.0	296.5	279.5	264.0	251.5	241.5	234.5	230.5	228.5
150	312.5	298.5	284.5	273.0	262.0	255.0	249.0	246.0	244.5
155	309.0	298.5	288.5	279.0	272.5	266.5	262.0	260.0	258.0
160	305.0	297.5	290.5	285.5	280.5	275.5	274.0	272.0	271.0
165	300.0	296.5	293.0	289.5	286.0	284.5	283.5	282.0	281.0
170	298.0	295.5	293.5	292.5	292.0	291.0	290.0	289.5	289.0
175	296.5	296.0	295.5	295.5	295.0	294.5	294.5	294.0	293.5
180	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	222.22	N.A.	9.90
0-30	431.41	N.A.	19.20
0-40	628.57	N.A.	27.90
0-60	820.88	N.A.	36.40
0-80	886.38	N.A.	39.30
0-90	891.43	N.A.	39.60
10-90	829.81	N.A.	36.80
20-40	406.35	N.A.	18.00
20-50	524.15	N.A.	23.30
40-70	238.69	N.A.	10.60
60-80	65.50	N.A.	2.90
70-80	19.13	N.A.	0.80
80-90	5.05	N.A.	0.20
90-110	135.76	N.A.	6.00
90-120	352.39	N.A.	15.60
90-130	625.42	N.A.	27.80
90-150	1097.44	N.A.	48.70
90-180	1361.31	N.A.	60.40
110-180	1225.55	N.A.	54.40
0-180	2252.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.62
10-20	160.60
20-30	209.19
30-40	197.16
40-50	117.80
50-60	74.51
60-70	46.38
70-80	19.13
80-90	5.05
90-100	25.56
100-110	110.20
110-120	216.63
120-130	273.04
130-140	260.93
140-150	211.08
150-160	148.71
160-170	86.76
170-180	28.40

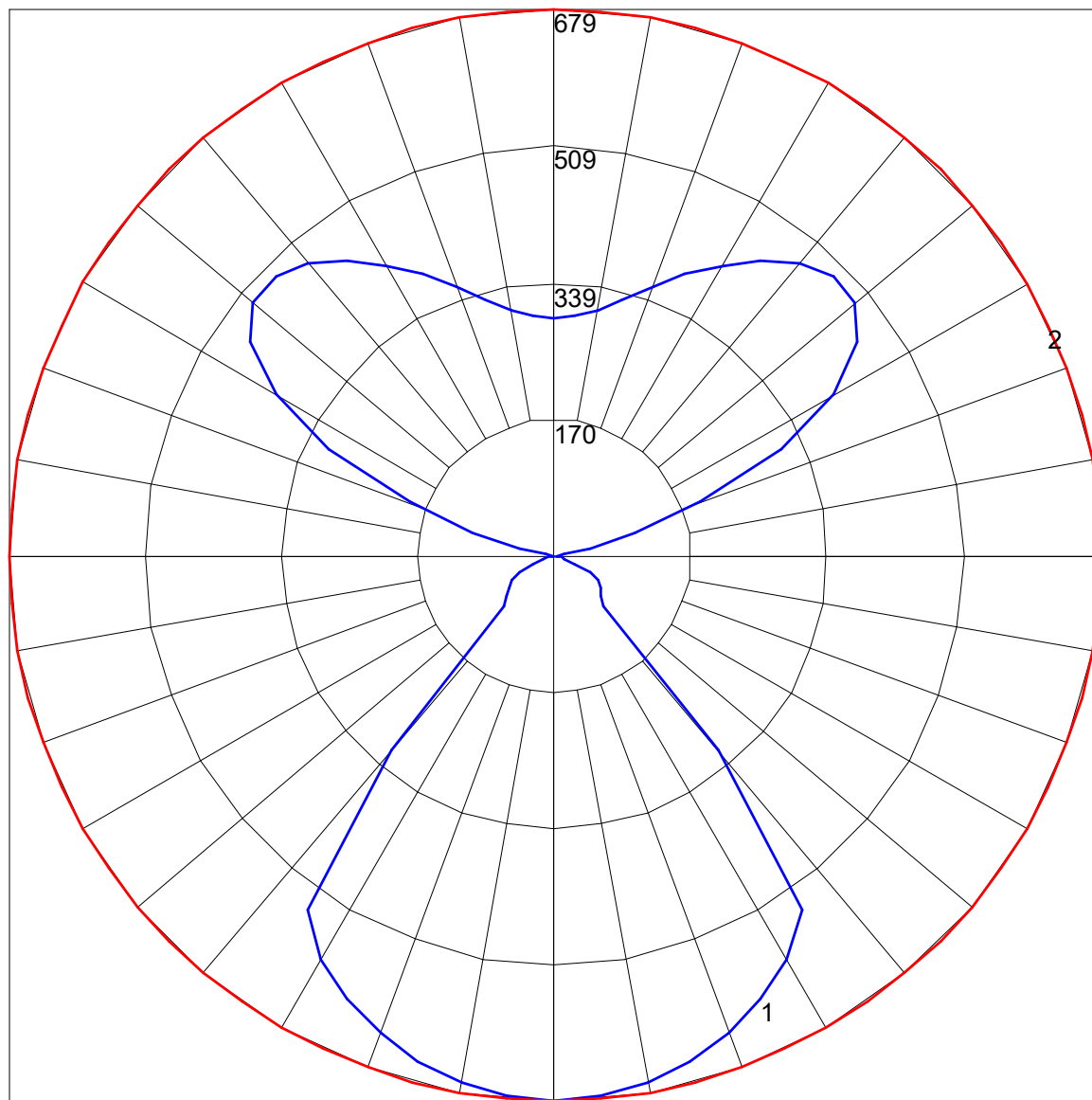
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	93	89	86	88	85	82	79	69	67	66	56	54	53	43	42	41	35
2	89	82	77	72	81	75	71	67	62	59	56	50	48	46	39	38	37	32
3	82	73	67	62	74	67	62	57	56	52	49	45	43	40	36	34	33	28
4	75	66	59	53	69	60	54	50	50	46	43	41	38	36	33	31	29	25
5	70	59	52	46	64	55	48	43	46	41	38	38	34	32	30	28	26	23
6	65	54	46	41	59	50	43	38	42	37	33	35	31	29	28	26	24	21
7	60	49	41	36	55	45	39	34	38	33	30	32	28	26	26	23	22	19
8	56	45	37	33	51	41	35	31	35	30	27	29	26	23	24	22	20	17
9	52	41	34	29	48	38	32	28	33	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	26	22	20	21	19	17	15

POLAR GRAPH



Maximum Candela = 678.5 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.)