

## 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-AL / WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Total Lumens, 4' rail length (1219mm)	1714	1769	1805	1823
Lumens per foot (305mm)	429	442	451	456
Lumens per foot UP (305mm)	321	331	338	341
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010905 (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

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

[MORE] black baffle w/clear 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	1805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
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	268	669	581
55	225	217	312
65	175	116	152
75	112	97	120
85	111	94	153

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1BB.IES**

**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>	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
<b>5</b>	543.0	538.5	534.5	530.5	526.5	523.0	519.0	516.0	512.5	510.0
<b>10</b>	536.5	528.0	520.0	512.0	504.5	497.0	490.5	479.0	469.0	459.5
<b>15</b>	525.5	514.0	503.0	492.0	479.5	461.5	444.5	428.5	413.5	399.5
<b>20</b>	510.5	494.5	479.5	463.0	439.5	416.5	395.0	374.5	355.5	337.5
<b>25</b>	491.5	472.5	454.0	426.0	397.0	369.0	343.0	318.5	293.5	270.0
<b>30</b>	467.5	446.0	421.0	386.0	352.0	320.0	287.5	256.0	227.5	202.5
<b>35</b>	439.0	416.5	383.0	342.5	304.5	266.0	228.0	194.5	164.0	133.0
<b>40</b>	267.0	248.5	222.0	201.5	192.0	188.5	165.5	131.0	95.0	65.0
<b>45</b>	12.0	22.0	41.0	53.0	51.5	44.5	61.5	55.0	40.0	25.5
<b>50</b>	11.0	11.0	10.5	10.0	10.0	12.0	11.5	13.5	14.0	14.5
<b>55</b>	10.0	10.0	9.5	8.5	8.0	7.5	7.0	7.0	7.5	8.0
<b>60</b>	9.5	9.0	8.5	7.5	6.5	6.0	5.5	5.0	5.0	5.0
<b>65</b>	7.5	7.5	7.0	6.5	5.5	5.5	5.0	4.5	4.0	4.0
<b>70</b>	6.0	6.0	5.5	5.5	5.0	4.5	4.5	4.0	3.5	3.5
<b>75</b>	4.5	4.5	5.0	4.5	4.0	4.0	3.5	3.5	3.0	3.0
<b>80</b>	5.0	5.0	4.5	4.5	4.0	4.0	3.5	3.0	3.0	2.5
<b>85</b>	4.0	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.0	2.5
<b>90</b>	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.0	2.0
<b>95</b>	12.0	14.5	14.0	14.0	14.5	15.0	15.5	17.5	20.5	20.5
<b>100</b>	43.5	45.0	46.5	48.5	51.0	54.0	57.5	60.5	63.0	64.0
<b>105</b>	100.5	92.5	100.5	103.5	106.0	110.5	115.0	117.5	120.5	120.5
<b>110</b>	186.5	180.5	175.5	182.0	188.0	189.5	193.0	195.5	194.0	184.0
<b>115</b>	300.0	297.5	284.5	285.0	283.0	283.5	278.0	269.5	257.5	240.5
<b>120</b>	395.0	392.5	387.0	376.0	368.0	355.0	342.5	327.5	305.0	280.5
<b>125</b>	454.5	452.0	446.0	438.0	427.5	407.0	390.5	366.0	341.0	312.0
<b>130</b>	484.5	481.5	474.5	464.0	451.0	432.5	410.0	386.0	357.5	328.5
<b>135</b>	489.0	487.0	479.5	469.0	455.0	437.5	414.5	390.5	363.5	336.5
<b>140</b>	476.5	474.0	467.5	457.5	444.0	428.5	408.5	386.5	362.5	338.0
<b>145</b>	451.0	449.0	443.5	435.5	424.0	410.0	394.0	375.5	356.0	336.0
<b>150</b>	419.5	418.0	414.0	407.0	398.0	387.0	374.0	359.5	345.0	329.0
<b>155</b>	386.5	385.0	382.5	377.5	371.0	363.0	353.5	343.5	332.5	321.5
<b>160</b>	355.5	355.0	353.0	350.0	345.5	340.5	334.5	327.5	320.0	313.0
<b>165</b>	330.0	329.5	328.0	326.5	324.5	321.5	318.0	314.0	310.0	305.0
<b>170</b>	310.5	310.0	309.5	309.0	308.0	307.0	305.5	304.0	302.0	300.0
<b>175</b>	298.5	298.5	298.0	298.0	297.5	297.5	297.0	297.0	296.5	296.0
<b>180</b>	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0

**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>
<b>0</b>	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
<b>5</b>	507.5	505.0	503.0	501.5	500.5	499.5	499.0	499.0	499.0
<b>10</b>	451.5	444.0	437.5	431.5	427.0	423.5	421.0	419.5	419.5
<b>15</b>	387.0	375.5	365.5	357.5	351.0	345.5	341.5	339.0	339.5
<b>20</b>	320.0	303.5	289.0	277.5	268.5	261.5	256.0	252.0	251.5
<b>25</b>	249.0	230.0	213.0	199.0	188.0	179.0	172.5	168.0	167.0
<b>30</b>	178.5	156.0	135.5	117.0	102.0	89.5	80.5	75.0	75.0
<b>35</b>	103.5	76.5	62.5	51.5	43.0	36.0	30.0	26.5	25.0
<b>40</b>	49.5	33.0	25.5	23.5	21.5	20.0	19.0	18.0	17.5
<b>45</b>	24.0	20.5	18.0	16.5	15.0	14.0	13.0	12.5	12.5
<b>50</b>	14.5	13.5	12.5	11.5	10.5	9.5	9.0	8.5	8.5
<b>55</b>	8.5	8.5	8.0	7.5	7.0	6.5	6.0	5.5	5.5
<b>60</b>	5.5	5.5	5.5	5.0	4.5	4.0	4.0	3.5	3.5

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1BB.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	4.0	3.5	3.5	3.5	3.0	3.0	2.5	2.5	2.0
<b>70</b>	3.0	3.0	2.5	2.5	2.5	2.0	2.0	1.5	1.5
<b>75</b>	2.5	2.5	2.0	2.0	2.0	1.5	1.5	1.0	1.0
<b>80</b>	2.5	2.0	2.0	1.5	1.5	1.5	1.0	1.0	0.5
<b>85</b>	2.5	2.0	2.0	1.5	1.0	1.0	1.0	0.5	0.5
<b>90</b>	1.5	1.5	1.5	1.0	1.0	1.0	1.0	0.5	0.5
<b>95</b>	21.5	24.0	24.0	20.5	19.5	19.0	19.0	18.5	18.5
<b>100</b>	64.5	64.5	59.5	53.5	50.5	46.0	42.5	40.5	40.5
<b>105</b>	117.5	111.5	101.0	89.5	80.0	72.5	66.5	64.5	64.0
<b>110</b>	169.5	155.0	138.5	121.5	108.0	99.0	92.5	89.0	88.0
<b>115</b>	218.5	194.0	171.5	151.5	135.5	124.5	117.0	113.0	112.5
<b>120</b>	254.5	226.0	200.0	178.5	161.0	149.5	142.0	137.0	135.0
<b>125</b>	280.5	251.5	224.5	201.5	183.0	171.0	163.5	158.5	156.0
<b>130</b>	299.0	271.0	245.5	223.0	205.0	191.0	182.0	176.0	172.0
<b>135</b>	309.5	284.5	260.5	240.5	223.5	211.0	202.5	197.0	194.5
<b>140</b>	314.5	292.5	272.0	254.0	239.5	227.5	219.5	214.5	212.0
<b>145</b>	316.0	297.5	281.0	265.5	253.0	243.0	235.0	231.0	228.5
<b>150</b>	314.0	300.0	286.0	274.0	263.0	256.0	249.5	246.5	244.5
<b>155</b>	310.0	299.5	289.5	280.0	273.0	267.0	262.5	259.5	257.5
<b>160</b>	306.0	298.5	291.0	285.5	280.5	275.5	273.5	271.5	270.0
<b>165</b>	300.5	297.0	293.5	289.5	286.0	284.5	283.0	281.5	280.5
<b>170</b>	297.5	295.5	293.5	292.5	291.5	290.5	289.5	288.5	288.0
<b>175</b>	295.5	295.5	295.0	294.5	294.0	293.5	293.0	293.0	292.5
<b>180</b>	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1BB.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	163.03	N.A.	9.00
0-30	296.74	N.A.	16.40
0-40	401.55	N.A.	22.30
0-60	441.87	N.A.	24.50
0-80	449.58	N.A.	24.90
0-90	452.29	N.A.	25.10
10-90	404.57	N.A.	22.40
20-40	238.52	N.A.	13.20
20-50	271.59	N.A.	15.00
40-70	44.81	N.A.	2.50
60-80	7.72	N.A.	0.40
70-80	3.23	N.A.	0.20
80-90	2.70	N.A.	0.10
90-110	131.60	N.A.	7.30
90-120	344.18	N.A.	19.10
90-130	615.32	N.A.	34.10
90-150	1087.99	N.A.	60.30
90-180	1352.36	N.A.	74.90
110-180	1220.76	N.A.	67.60
0-180	1804.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.72
10-20	115.31
20-30	133.71
30-40	104.81
40-50	33.07
50-60	7.25
60-70	4.49
70-80	3.23
80-90	2.70
90-100	24.82
100-110	106.79
110-120	212.58
120-130	271.14
130-140	260.82
140-150	211.84
150-160	149.16
160-170	86.86
170-180	28.35

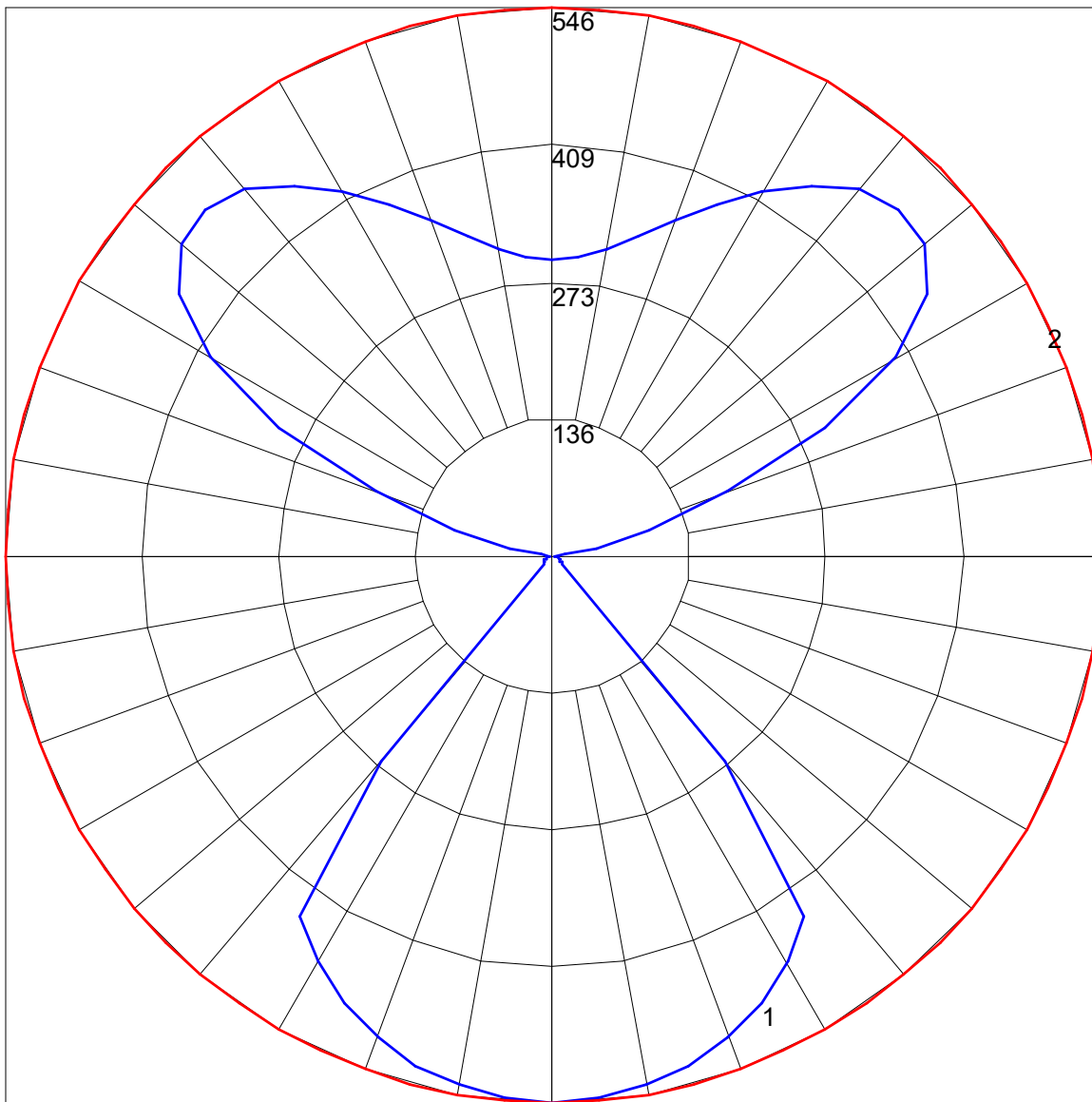
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_LO\_359\_G1BB.IES**

**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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	31	30	30	23
2	86	79	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	21
3	79	71	65	60	71	64	59	54	51	47	44	38	36	34	27	26	25	20
4	73	64	57	52	65	58	52	47	46	42	39	35	33	31	25	24	23	18
5	68	57	50	45	60	52	46	42	42	38	34	32	30	27	23	22	21	17
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	20	19	16
7	58	47	40	36	52	43	37	33	35	31	28	27	25	23	20	19	18	15
8	54	43	37	32	49	40	34	30	32	28	25	25	23	21	19	17	16	14
9	51	40	33	29	46	36	31	27	30	26	23	24	21	19	18	16	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	18	17	15	14	12

POLAR GRAPH



Maximum Candela = 545.5 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.)