

## IES Report

**BoxRail<sup>®</sup> | 207 | Wide Batwing, up | Black Baffle, down | 80 CRI | SO**

**207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1BB-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	79
Total Lumens, 4' rail length (1219mm)	3752	3871	3950	3950
Lumens per foot (305mm)	938	968	987	987
Lumens per foot UP (305mm)	689	711	726	726
Lumens per foot DOWN (305mm)	249	257	262	262
Input Power (W), 4' rail length (1219mm)	50.5	50.5	50.5	50.5
Watts per foot (305mm)	12.7	12.7	12.7	12.7
CRI	82	82	82	82

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\_SO\_35\_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-SO-35-G1BB-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] black baffle w/clear lens down, standard 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	3950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	50.52
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	493	1674	1294
55	339	378	593
65	243	135	264
75	116	112	278
85	161	131	356

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1BB\_BL.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>	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20
<b>5</b>	1235.40	1227.28	1219.16	1212.20	1204.08	1195.96	1189.00	1182.04	1176.24	1170.44
<b>10</b>	1221.48	1205.24	1189.00	1173.92	1158.84	1143.76	1131.00	1107.80	1085.76	1066.04
<b>15</b>	1197.12	1171.60	1148.40	1126.36	1100.84	1063.72	1027.76	995.28	965.12	936.12
<b>20</b>	1163.48	1131.00	1100.84	1066.04	1016.16	967.44	919.88	873.48	830.56	791.12
<b>25</b>	1119.40	1082.28	1046.32	987.16	926.84	865.36	805.04	747.04	693.68	644.96
<b>30</b>	1063.72	1018.48	968.60	895.52	823.60	752.84	684.40	618.28	553.32	487.20
<b>35</b>	997.60	948.88	880.44	796.92	711.08	628.72	553.32	472.12	393.24	320.16
<b>40</b>	639.16	599.72	545.20	494.16	464.00	452.40	397.88	313.20	235.48	165.88
<b>45</b>	22.04	45.24	96.28	132.24	140.36	120.64	148.48	140.36	100.92	63.80
<b>50</b>	17.40	17.40	16.24	16.24	15.08	22.04	22.04	26.68	30.16	31.32
<b>55</b>	15.08	15.08	13.92	12.76	10.44	10.44	9.28	10.44	11.60	13.92
<b>60</b>	13.92	12.76	11.60	10.44	9.28	8.12	6.96	5.80	5.80	6.96
<b>65</b>	10.44	10.44	9.28	8.12	6.96	6.96	5.80	4.64	4.64	4.64
<b>70</b>	6.96	6.96	6.96	6.96	5.80	5.80	4.64	4.64	3.48	3.48
<b>75</b>	4.64	4.64	5.80	4.64	4.64	4.64	4.64	3.48	3.48	3.48
<b>80</b>	5.80	5.80	5.80	5.80	4.64	4.64	4.64	3.48	3.48	2.32
<b>85</b>	5.80	5.80	5.80	5.80	5.80	5.80	4.64	4.64	4.64	3.48
<b>90</b>	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
<b>95</b>	9.28	16.24	13.92	15.08	17.40	22.04	25.52	41.76	47.56	54.52
<b>100</b>	63.80	69.60	74.24	82.36	95.12	111.36	131.08	155.44	176.32	187.92
<b>105</b>	183.28	180.96	199.52	216.92	236.64	272.60	307.40	329.44	365.40	363.08
<b>110</b>	441.96	447.76	470.96	474.44	545.20	583.48	629.88	660.04	624.08	532.44
<b>115</b>	955.84	950.04	923.36	937.28	939.60	968.60	911.76	838.68	729.64	586.96
<b>120</b>	1330.52	1314.28	1270.20	1213.36	1178.56	1079.96	984.84	858.40	722.68	596.24
<b>125</b>	1327.04	1314.28	1278.32	1220.32	1144.92	1045.16	934.96	823.60	711.08	607.84
<b>130</b>	1183.20	1173.92	1146.08	1100.84	1037.04	961.64	879.28	791.12	706.44	627.56
<b>135</b>	1061.40	1054.44	1033.56	998.76	952.36	893.20	834.04	767.92	704.12	641.48
<b>140</b>	970.92	963.96	947.72	922.20	888.56	846.80	799.24	749.36	697.16	644.96
<b>145</b>	894.36	889.72	875.80	856.08	828.24	795.76	758.64	715.72	672.80	628.72
<b>150</b>	809.68	806.20	796.92	779.52	757.48	731.96	701.80	668.16	633.36	597.40
<b>155</b>	715.72	712.24	706.44	694.84	679.76	661.20	638.00	612.48	589.28	564.92
<b>160</b>	631.04	628.72	625.24	618.28	609.00	597.40	584.64	568.40	551.00	537.08
<b>165</b>	567.24	566.08	563.76	561.44	556.80	551.00	544.04	535.92	527.80	517.36
<b>170</b>	526.64	526.64	525.48	524.32	522.00	519.68	517.36	513.88	510.40	505.76
<b>175</b>	503.44	503.44	502.28	502.28	502.28	501.12	501.12	499.96	499.96	498.80
<b>180</b>	495.32	495.32	495.32	495.32	495.32	495.32	495.32	495.32	495.32	495.32

**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>	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20	1241.20
<b>5</b>	1164.64	1160.00	1155.36	1151.88	1149.56	1147.24	1144.92	1144.92	1144.92
<b>10</b>	1047.48	1031.24	1017.32	1004.56	992.96	984.84	977.88	973.24	973.24
<b>15</b>	908.28	881.60	859.56	839.84	823.60	810.84	800.40	794.60	793.44
<b>20</b>	755.16	723.84	696.00	669.32	648.44	633.36	618.28	607.84	605.52
<b>25</b>	599.72	555.64	515.04	480.24	451.24	428.04	411.80	399.04	397.88
<b>30</b>	425.72	372.36	324.80	285.36	254.04	227.36	208.80	194.88	193.72
<b>35</b>	252.88	191.40	160.08	135.72	110.20	91.64	81.20	77.72	80.04
<b>40</b>	124.12	89.32	73.08	63.80	54.52	47.56	45.24	42.92	41.76
<b>45</b>	56.84	47.56	41.76	37.12	33.64	31.32	29.00	27.84	27.84
<b>50</b>	32.48	29.00	26.68	24.36	22.04	19.72	18.56	17.40	17.40
<b>55</b>	16.24	16.24	15.08	13.92	12.76	11.60	10.44	10.44	10.44
<b>60</b>	6.96	8.12	8.12	8.12	6.96	6.96	5.80	5.80	5.80

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1BB\_BL.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	3.48	4.64	4.64	4.64	4.64	3.48	3.48	3.48	3.48
<b>70</b>	3.48	3.48	2.32	2.32	2.32	2.32	2.32	2.32	2.32
<b>75</b>	2.32	2.32	2.32	2.32	2.32	2.32	1.16	1.16	2.32
<b>80</b>	2.32	2.32	2.32	1.16	1.16	1.16	1.16	1.16	1.16
<b>85</b>	3.48	3.48	2.32	2.32	1.16	1.16	1.16	1.16	1.16
<b>90</b>	3.48	3.48	3.48	2.32	2.32	2.32	1.16	1.16	2.32
<b>95</b>	67.28	61.48	47.56	38.28	29.00	27.84	33.64	33.64	32.48
<b>100</b>	183.28	154.28	122.96	96.28	85.84	83.52	84.68	88.16	87.00
<b>105</b>	325.96	255.20	191.40	149.64	132.24	128.76	129.92	133.40	134.56
<b>110</b>	421.08	314.36	242.44	200.68	183.28	182.12	186.76	192.56	196.04
<b>115</b>	458.20	358.44	292.32	255.20	238.96	236.64	243.60	249.40	254.04
<b>120</b>	486.04	399.04	341.04	310.88	295.80	292.32	295.80	302.76	307.40
<b>125</b>	522.00	450.08	397.88	366.56	348.00	339.88	338.72	342.20	344.52
<b>130</b>	554.48	494.16	448.92	416.44	393.24	377.00	368.88	365.40	364.24
<b>135</b>	582.32	531.28	487.20	452.40	425.72	403.68	387.44	377.00	371.20
<b>140</b>	593.92	548.68	505.76	469.80	439.64	414.12	396.72	385.12	378.16
<b>145</b>	585.80	545.20	506.92	473.28	445.44	423.40	404.84	395.56	389.76
<b>150</b>	562.60	530.12	498.80	474.44	450.08	433.84	418.76	411.80	407.16
<b>155</b>	538.24	515.04	495.32	474.44	459.36	446.60	437.32	432.68	428.04
<b>160</b>	522.00	506.92	491.84	481.40	470.96	460.52	457.04	453.56	450.08
<b>165</b>	509.24	501.12	494.16	487.20	479.08	476.76	473.28	470.96	468.64
<b>170</b>	502.28	497.64	494.16	491.84	489.52	488.36	486.04	484.88	483.72
<b>175</b>	498.80	497.64	496.48	496.48	495.32	495.32	494.16	493.00	493.00
<b>180</b>	495.32	495.32	495.32	495.32	495.32	495.32	495.32	495.32	495.32

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1BB\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	377.63	N.A.	9.60
0-30	692.42	N.A.	17.50
0-40	942.30	N.A.	23.90
0-60	1034.41	N.A.	26.20
0-80	1043.85	N.A.	26.40
0-90	1047.7	N.A.	26.50
10-90	938.15	N.A.	23.80
20-40	564.67	N.A.	14.30
20-50	644.36	N.A.	16.30
40-70	97.89	N.A.	2.50
60-80	9.44	N.A.	0.20
70-80	3.66	N.A.	0.10
80-90	3.85	N.A.	0.10
90-110	305.77	N.A.	7.70
90-120	875.23	N.A.	22.20
90-130	1516.01	N.A.	38.40
90-150	2442.05	N.A.	61.80
90-180	2902.25	N.A.	73.50
110-180	2596.48	N.A.	65.70
0-180	3949.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.54
10-20	268.09
20-30	314.79
30-40	249.88
40-50	79.70
50-60	12.41
60-70	5.78
70-80	3.66
80-90	3.85
90-100	50.65
100-110	255.12
110-120	569.46
120-130	640.78
130-140	527.30
140-150	398.75
150-160	264.44
160-170	147.94
170-180	47.82

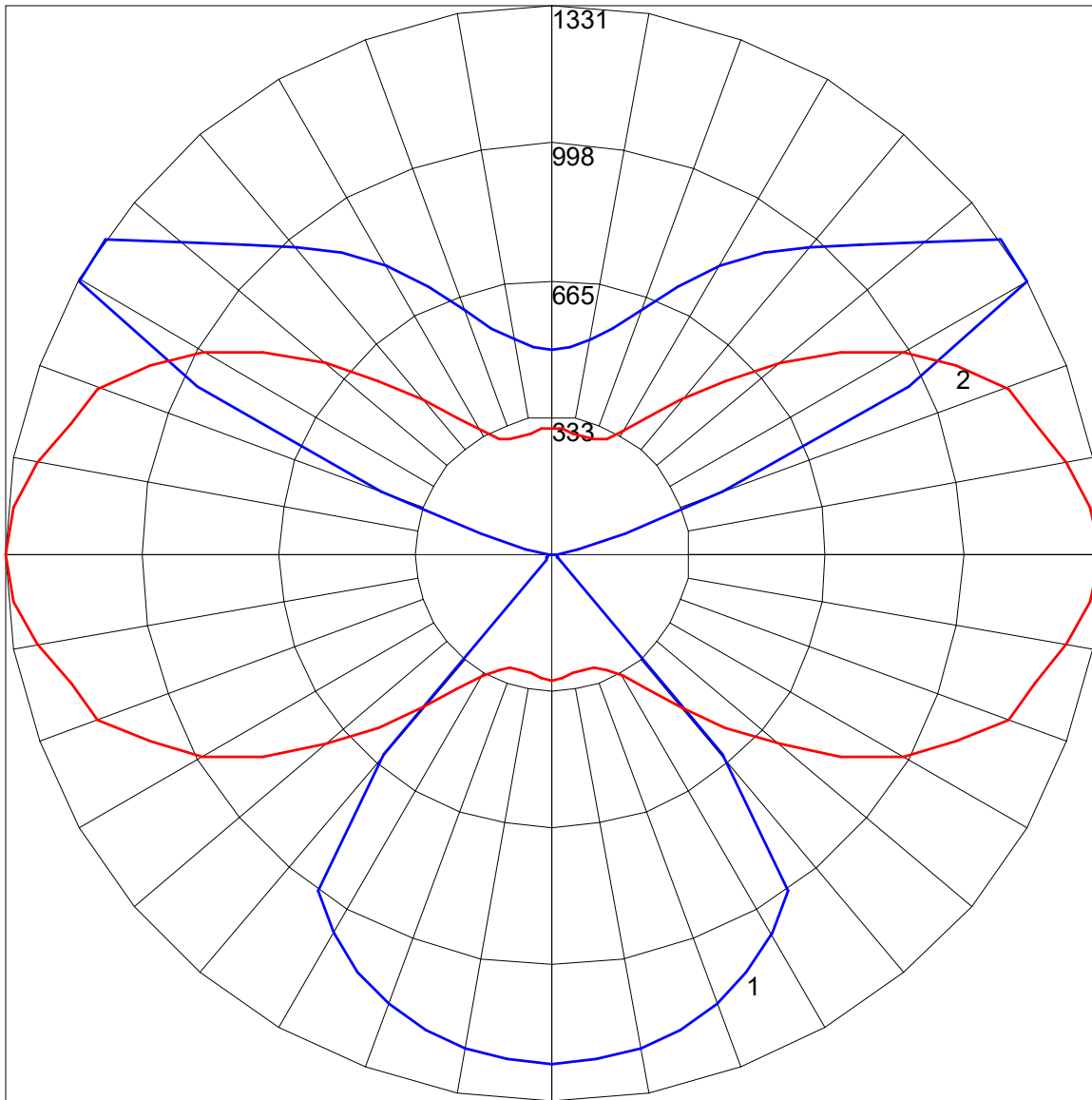
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1BB\_BL.IES**

**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	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	24	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	41	34	29	46	37	31	27	31	27	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 = 1330.52 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.)