

**IES Report**

**BoxRail<sup>®</sup> | 207 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | SO**

**207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S2-X-AL / WH-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	100
Total Lumens, 4' rail length (1219mm)	4757	4907	5008	5008
Lumens per foot (305mm)	1189	1227	1252	1252
Lumens per foot UP (305mm)	759	783	799	799
Lumens per foot DOWN (305mm)	430	444	453	453
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\_G1S2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L022010908 (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-G1S2  
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,  
[MORE] 60° symmetric lens down, standard 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	5008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	4696	8370	23022
55	2816	4911	16857
65	1757	2861	12055
75	869	1383	9588
85	161	305	4269

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1S2.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>	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72
<b>5</b>	1294.56	1293.40	1293.40	1293.40	1293.40	1293.40	1294.56	1294.56	1295.72	1296.88
<b>10</b>	1204.08	1202.92	1204.08	1206.40	1209.88	1214.52	1220.32	1224.96	1229.60	1236.56
<b>15</b>	1060.24	1060.24	1064.88	1070.68	1079.96	1088.08	1098.52	1112.44	1129.84	1146.08
<b>20</b>	881.60	881.60	890.88	901.32	911.76	928.00	947.72	968.60	992.96	1015.00
<b>25</b>	691.36	694.84	704.12	715.72	733.12	752.84	777.20	806.20	831.72	861.88
<b>30</b>	519.68	524.32	534.76	546.36	563.76	583.48	607.84	636.84	670.48	702.96
<b>35</b>	382.80	386.28	394.40	408.32	422.24	439.64	460.52	489.52	518.52	551.00
<b>40</b>	281.88	286.52	292.32	301.60	313.20	327.12	345.68	368.88	392.08	423.40
<b>45</b>	209.96	213.44	218.08	225.04	233.16	242.44	258.68	273.76	295.80	319.00
<b>50</b>	160.08	162.40	165.88	170.52	175.16	183.28	193.72	206.48	221.56	240.12
<b>55</b>	125.28	126.44	128.76	132.24	133.40	139.20	145.00	156.60	168.20	180.96
<b>60</b>	98.60	99.76	99.76	99.76	100.92	104.40	110.20	116.00	125.28	135.72
<b>65</b>	75.40	75.40	74.24	74.24	75.40	77.72	82.36	87.00	91.64	98.60
<b>70</b>	52.20	49.88	51.04	52.20	54.52	55.68	58.00	60.32	63.80	69.60
<b>75</b>	34.80	33.64	34.80	35.96	35.96	35.96	35.96	37.12	40.60	42.92
<b>80</b>	17.40	17.40	19.72	19.72	19.72	20.88	22.04	22.04	23.20	23.20
<b>85</b>	5.80	6.96	6.96	5.80	5.80	5.80	5.80	5.80	6.96	8.12
<b>90</b>	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	4.64	4.64
<b>95</b>	25.52	33.64	32.48	34.80	37.12	39.44	40.60	48.72	49.88	53.36
<b>100</b>	107.88	110.20	113.68	119.48	125.28	131.08	138.04	146.16	151.96	157.76
<b>105</b>	241.28	228.52	244.76	252.88	258.68	266.80	274.92	277.24	281.88	278.40
<b>110</b>	448.92	438.48	432.68	439.64	455.88	462.84	462.84	465.16	455.88	430.36
<b>115</b>	722.68	722.68	691.36	684.40	678.60	678.60	660.04	635.68	605.52	562.60
<b>120</b>	938.44	936.12	922.20	893.20	870.00	842.16	808.52	776.04	719.20	661.20
<b>125</b>	1093.88	1084.60	1063.72	1041.68	1019.64	967.44	925.68	861.88	799.24	730.80
<b>130</b>	1157.68	1148.40	1124.04	1096.20	1061.40	1018.48	962.80	901.32	832.88	764.44
<b>135</b>	1149.56	1143.76	1124.04	1090.40	1055.60	1013.84	961.64	905.96	843.32	780.68
<b>140</b>	1105.48	1099.68	1079.96	1053.28	1021.96	984.84	939.60	890.88	838.68	786.48
<b>145</b>	1041.68	1035.88	1023.12	1003.40	974.40	941.92	905.96	866.52	824.76	781.84
<b>150</b>	969.76	966.28	958.16	940.76	921.04	895.52	867.68	837.52	806.20	771.40
<b>155</b>	900.16	896.68	892.04	880.44	866.52	849.12	828.24	806.20	783.00	759.80
<b>160</b>	836.36	834.04	830.56	824.76	815.48	803.88	792.28	776.04	759.80	745.88
<b>165</b>	783.00	781.84	779.52	776.04	771.40	765.60	758.64	750.52	742.40	731.96
<b>170</b>	743.56	742.40	741.24	740.08	737.76	735.44	733.12	728.48	725.00	721.52
<b>175</b>	718.04	718.04	718.04	716.88	716.88	715.72	715.72	714.56	713.40	713.40
<b>180</b>	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76

**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>	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72	1324.72
<b>5</b>	1299.20	1300.36	1302.68	1305.00	1307.32	1309.64	1311.96	1314.28	1317.76
<b>10</b>	1244.68	1253.96	1264.40	1266.72	1269.04	1272.52	1277.16	1281.80	1286.44
<b>15</b>	1160.00	1169.28	1182.04	1195.96	1212.20	1215.68	1219.16	1224.96	1231.92
<b>20</b>	1037.04	1059.08	1084.60	1098.52	1115.92	1135.64	1139.12	1143.76	1151.88
<b>25</b>	894.36	923.36	950.04	980.20	998.76	1017.32	1032.40	1037.04	1048.64
<b>30</b>	737.76	773.72	808.52	836.36	867.68	885.08	907.12	910.60	922.20
<b>35</b>	588.12	624.08	660.04	693.68	721.52	744.72	764.44	772.56	780.68
<b>40</b>	452.40	483.72	516.20	549.84	578.84	606.68	621.76	631.04	635.68
<b>45</b>	345.68	372.36	399.04	426.88	453.56	473.28	482.56	489.52	495.32
<b>50</b>	259.84	284.20	307.40	329.44	351.48	366.56	378.16	387.44	393.24
<b>55</b>	197.20	212.28	229.68	247.08	264.48	277.24	286.52	293.48	296.96
<b>60</b>	147.32	157.76	171.68	183.28	194.88	205.32	213.44	216.92	219.24

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1S2.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	106.72	116.00	125.28	133.40	141.52	148.48	154.28	157.76	158.92
<b>70</b>	75.40	82.36	88.16	95.12	99.76	104.40	107.88	110.20	111.36
<b>75</b>	47.56	51.04	56.84	61.48	64.96	67.28	71.92	75.40	80.04
<b>80</b>	24.36	26.68	29.00	31.32	33.64	35.96	37.12	37.12	38.28
<b>85</b>	8.12	8.12	9.28	10.44	11.60	11.60	12.76	13.92	13.92
<b>90</b>	4.64	3.48	3.48	3.48	2.32	2.32	2.32	2.32	1.16
<b>95</b>	62.64	61.48	60.32	54.52	46.40	40.60	44.08	45.24	42.92
<b>100</b>	153.12	143.84	138.04	125.28	113.68	107.88	102.08	96.28	97.44
<b>105</b>	267.96	254.04	230.84	209.96	187.92	171.68	161.24	155.44	151.96
<b>110</b>	395.56	360.76	324.80	287.68	257.52	234.32	222.72	214.60	211.12
<b>115</b>	513.88	459.36	402.52	356.12	321.32	295.80	280.72	271.44	267.96
<b>120</b>	597.40	531.28	467.48	418.76	380.48	354.96	337.56	328.28	325.96
<b>125</b>	655.40	585.80	524.32	472.12	430.36	403.68	388.60	379.32	375.84
<b>130</b>	693.68	629.88	571.88	523.16	483.72	457.04	437.32	425.72	422.24
<b>135</b>	719.20	661.20	609.00	566.08	530.12	502.28	483.72	473.28	467.48
<b>140</b>	733.12	684.40	639.16	600.88	568.40	542.88	525.48	515.04	510.40
<b>145</b>	738.92	699.48	662.36	629.88	602.04	581.16	564.92	556.80	551.00
<b>150</b>	738.92	707.60	678.60	653.08	629.88	614.80	600.88	593.92	590.44
<b>155</b>	734.28	712.24	691.36	670.48	656.56	642.64	633.36	627.56	624.08
<b>160</b>	730.80	714.56	699.48	687.88	677.44	667.00	662.36	657.72	654.24
<b>165</b>	722.68	714.56	707.60	699.48	692.52	687.88	685.56	682.08	679.76
<b>170</b>	716.88	713.40	708.76	706.44	705.28	702.96	700.64	699.48	698.32
<b>175</b>	712.24	711.08	711.08	709.92	708.76	708.76	707.60	706.44	706.44
<b>180</b>	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76	708.76

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1S2.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	441.50	N.A.	8.80
0-30	838.40	N.A.	16.70
0-40	1195.32	N.A.	23.90
0-60	1638.28	N.A.	32.70
0-80	1799.31	N.A.	35.90
0-90	1812.26	N.A.	36.20
10-90	1689.99	N.A.	33.70
20-40	753.82	N.A.	15.10
20-50	1018.6	N.A.	20.30
40-70	551.18	N.A.	11.00
60-80	161.03	N.A.	3.20
70-80	52.81	N.A.	1.10
80-90	12.95	N.A.	0.30
90-110	314.53	N.A.	6.30
90-120	820.25	N.A.	16.40
90-130	1461.51	N.A.	29.20
90-150	2566.56	N.A.	51.30
90-180	3195.33	N.A.	63.80
110-180	2880.8	N.A.	57.50
0-180	5007.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.27
10-20	319.23
20-30	396.90
30-40	356.92
40-50	264.78
50-60	178.18
60-70	108.22
70-80	52.81
80-90	12.95
90-100	60.39
100-110	254.14
110-120	505.72
120-130	641.26
130-140	610.56
140-150	494.50
150-160	352.44
160-170	208.04
170-180	68.29

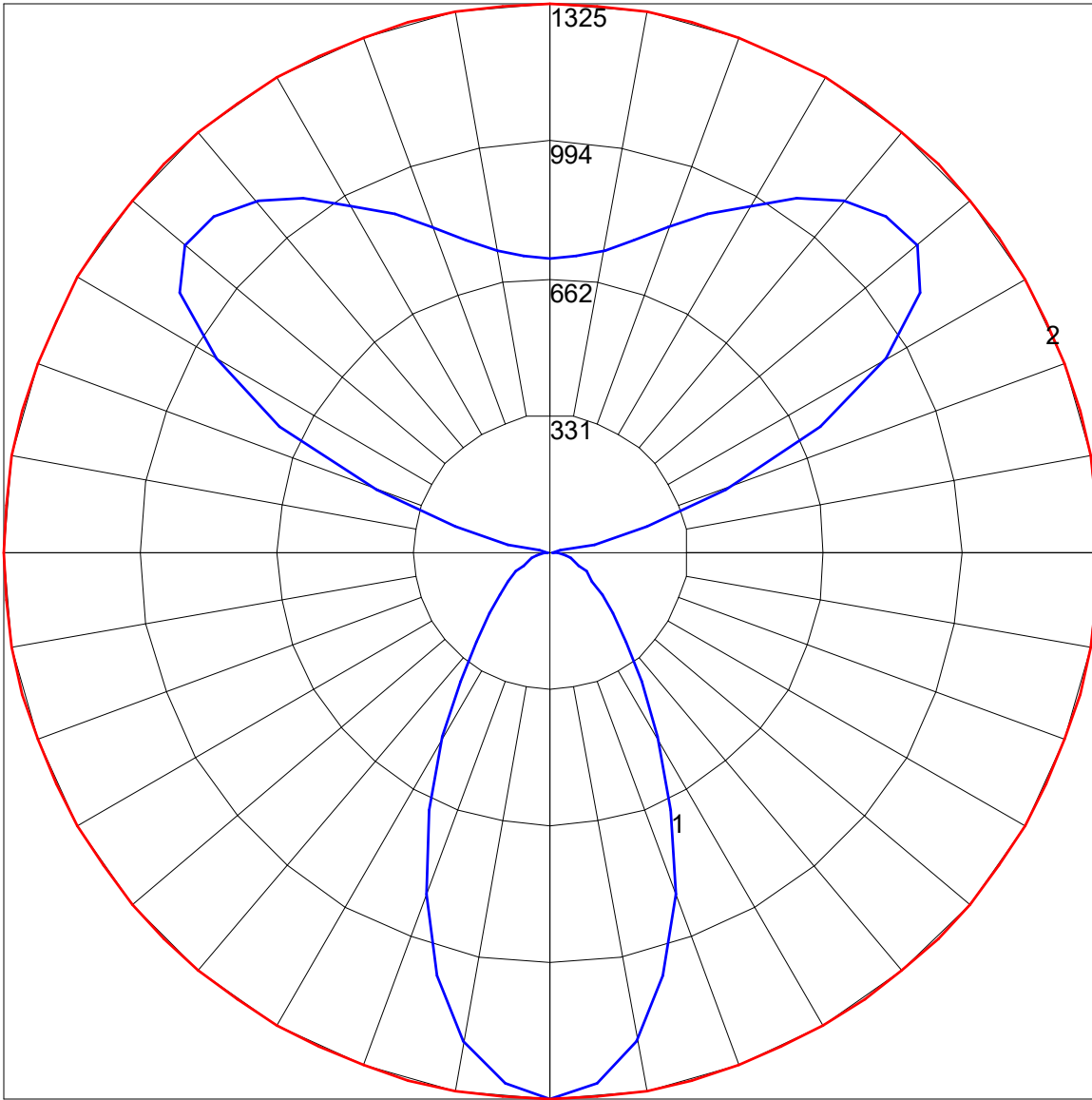
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_SO\_35\_G1S2.IES**

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36	0
1	95	92	88	85	86	83	80	78	67	65	64	53	52	51	40	39	38	32	0
2	88	81	75	71	79	74	69	65	60	57	54	48	45	44	36	35	34	28	0
3	81	72	65	60	73	66	60	55	54	50	47	43	40	38	33	31	30	25	0
4	74	64	57	52	67	59	53	48	48	44	41	39	36	33	30	28	26	22	0
5	68	58	50	45	62	53	47	42	44	39	36	35	32	30	27	25	24	20	0
6	63	52	45	39	57	48	41	37	40	35	32	32	29	26	25	23	21	18	0
7	59	47	40	35	53	44	37	33	36	32	28	30	26	24	23	21	19	17	0
8	55	43	36	31	50	40	34	29	33	29	25	27	24	22	22	20	18	15	0
9	51	40	33	28	47	37	31	26	31	26	23	25	22	20	20	18	16	14	0
10	48	37	30	25	44	34	28	24	29	24	21	24	20	18	19	17	15	13	0

POLAR GRAPH



Maximum Candela = 1324.72 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.)