

## IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	60	61	62
Total Lumens, 4' rail length (1219mm)	5962	6150	6276	6338
Lumens per foot (305mm)	1490	1538	1569	1585
Lumens per foot UP (305mm)	1098	1133	1156	1168
Lumens per foot DOWN (305mm)	392	405	413	417
Input Power (W), 4' rail length (1219mm)	103.1	103.1	103.1	103.1
Watts per foot (305mm)	25.8	25.8	25.8	25.8
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\_HO\_359\_G1S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-HO-359-G1S1-BL

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

[MORE] 40° symmetric lens down, high 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	3303
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	50.2
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	1061	2627	14069
55	499	1243	8237
65	264	602	4699
75	132	271	2811
85	114	126	1285

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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>
<b>0</b>	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52
<b>5</b>	868.42	867.93	867.79	868.00	868.55	869.45	870.68	872.23	874.09	876.25
<b>10</b>	748.89	748.27	750.15	753.51	758.66	765.54	774.07	781.83	791.30	802.31
<b>15</b>	585.51	585.00	590.04	597.94	608.80	620.32	635.30	653.57	674.97	697.43
<b>20</b>	421.22	420.83	428.34	438.71	450.94	467.62	487.91	509.86	535.42	564.88
<b>25</b>	282.24	283.62	290.56	300.07	313.92	330.72	350.10	372.75	401.88	435.34
<b>30</b>	181.31	182.72	188.34	196.44	207.84	221.69	237.64	260.04	288.80	317.35
<b>35</b>	114.50	115.65	119.50	125.80	133.72	143.36	155.40	176.00	196.72	223.02
<b>40</b>	72.26	73.19	75.76	79.99	85.60	92.07	102.85	116.02	130.76	152.80
<b>45</b>	47.45	48.17	49.62	52.24	55.52	59.39	67.69	75.26	88.03	100.14
<b>50</b>	31.94	32.32	33.40	35.15	37.27	40.64	44.95	50.76	58.33	68.52
<b>55</b>	22.21	22.44	23.15	24.30	25.52	27.99	30.30	34.53	39.52	45.79
<b>60</b>	16.01	16.09	16.48	17.04	17.92	19.34	21.19	23.33	26.84	31.18
<b>65</b>	11.32	11.39	11.64	12.10	12.84	13.47	14.79	16.30	18.31	20.76
<b>70</b>	7.63	7.56	8.21	8.42	8.99	9.46	10.00	10.90	12.11	13.77
<b>75</b>	5.28	5.44	6.11	6.07	6.14	6.38	6.60	6.96	7.61	8.42
<b>80</b>	4.61	4.77	5.01	4.84	4.84	4.87	4.91	4.94	4.97	5.04
<b>85</b>	4.11	4.16	4.08	3.97	3.89	3.78	3.63	3.44	3.41	3.35
<b>90</b>	4.08	4.15	4.19	4.11	4.02	3.98	3.86	3.65	3.35	3.10
<b>95</b>	14.50	19.88	19.14	20.08	21.40	23.30	24.81	29.40	35.14	36.27
<b>100</b>	66.39	70.52	72.89	78.00	83.28	90.01	96.87	104.44	110.72	115.62
<b>105</b>	174.19	157.42	169.47	175.48	181.72	190.55	198.24	203.24	212.18	211.25
<b>110</b>	316.86	309.82	310.54	302.66	326.30	332.65	343.83	350.73	346.63	333.15
<b>115</b>	556.34	546.76	521.47	511.28	511.91	512.51	504.37	489.77	469.11	438.74
<b>120</b>	723.40	714.50	705.47	687.60	673.68	651.33	630.11	604.83	561.63	515.92
<b>125</b>	835.22	827.88	818.25	803.03	786.88	752.73	723.18	676.11	628.48	573.64
<b>130</b>	886.27	882.81	871.02	852.19	830.24	799.53	759.56	713.35	659.51	603.54
<b>135</b>	890.21	887.00	879.03	859.58	834.37	804.67	763.82	720.68	669.21	618.17
<b>140</b>	862.47	862.79	853.16	835.74	811.85	783.37	747.48	707.67	664.20	618.79
<b>145</b>	814.44	810.98	804.93	794.41	772.89	747.19	717.35	683.11	647.07	609.26
<b>150</b>	756.43	756.73	752.03	740.27	724.27	703.47	679.15	651.96	623.52	592.85
<b>155</b>	695.41	692.85	688.15	680.96	670.95	656.14	637.81	617.84	596.67	575.24
<b>160</b>	637.57	637.37	634.39	629.65	620.97	610.88	599.14	585.08	570.02	556.76
<b>165</b>	588.28	587.68	585.47	582.70	578.66	572.39	565.43	557.84	549.68	540.34
<b>170</b>	551.48	550.72	549.27	547.68	545.79	543.62	541.17	537.65	533.93	529.99
<b>175</b>	529.18	528.87	528.62	527.91	527.40	526.85	526.27	525.66	525.04	524.40
<b>180</b>	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00

**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>	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52	913.52
<b>5</b>	878.69	881.40	884.34	887.50	890.86	894.39	898.01	901.83	905.72
<b>10</b>	814.78	828.61	843.42	848.30	853.76	859.77	866.28	873.17	880.66
<b>15</b>	718.45	736.80	757.04	779.01	803.73	811.36	820.07	829.56	840.42
<b>20</b>	596.16	628.78	662.69	688.51	716.54	747.77	758.00	769.67	783.76
<b>25</b>	471.59	508.42	547.23	588.45	620.85	653.73	679.38	691.02	706.39
<b>30</b>	353.00	392.74	432.58	475.72	519.67	552.62	587.95	597.70	612.34
<b>35</b>	254.96	289.49	327.20	365.24	408.74	446.06	478.29	494.75	508.90
<b>40</b>	175.52	205.98	236.50	270.19	306.00	337.83	361.72	381.98	401.94
<b>45</b>	119.94	140.47	165.18	195.28	224.36	251.49	273.93	291.23	302.69
<b>50</b>	79.85	95.30	113.71	134.28	156.47	177.04	193.98	206.54	213.67
<b>55</b>	54.35	64.18	75.99	90.47	106.03	120.05	131.93	141.07	145.10
<b>60</b>	36.53	42.65	50.63	60.45	71.01	81.08	89.12	93.29	95.81

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	24.27	28.54	33.89	39.87	46.11	52.26	57.67	60.60	61.95
<b>70</b>	15.94	18.71	22.11	25.78	29.45	33.20	36.55	38.40	39.40
<b>75</b>	9.69	11.31	13.40	15.59	17.73	19.84	21.63	22.78	23.47
<b>80</b>	5.44	5.96	6.85	7.89	9.05	10.12	11.18	11.69	11.65
<b>85</b>	3.13	2.86	3.06	3.35	3.50	3.49	3.99	4.33	4.19
<b>90</b>	2.81	2.52	2.31	2.01	1.84	1.59	1.34	1.51	1.59
<b>95</b>	38.25	42.17	42.33	36.95	32.50	30.07	32.34	32.58	31.94
<b>100</b>	113.07	109.61	107.40	95.94	87.51	81.72	79.10	76.89	75.36
<b>105</b>	208.16	197.43	179.73	158.45	140.77	127.67	118.81	113.69	112.91
<b>110</b>	311.48	281.70	249.00	218.01	192.63	174.93	164.31	157.92	155.75
<b>115</b>	399.92	354.51	309.39	271.55	241.77	220.28	207.18	199.21	196.48
<b>120</b>	465.38	408.51	360.80	319.11	287.73	264.56	248.84	239.77	237.73
<b>125</b>	512.88	456.08	405.07	360.40	327.71	303.14	286.26	276.71	273.60
<b>130</b>	546.09	491.02	441.35	397.95	362.52	337.64	320.67	311.08	307.30
<b>135</b>	564.66	514.39	468.17	428.25	394.59	370.39	354.17	343.41	338.06
<b>140</b>	572.51	528.53	487.75	451.70	422.83	398.52	383.28	373.68	368.58
<b>145</b>	571.06	534.42	500.56	470.25	445.47	425.75	410.59	402.75	398.17
<b>150</b>	563.76	535.24	507.41	484.63	463.09	448.81	435.51	429.97	425.91
<b>155</b>	553.34	532.36	512.98	493.90	480.35	468.23	459.14	454.52	451.06
<b>160</b>	543.00	528.42	514.13	504.06	494.27	484.80	480.71	477.23	474.53
<b>165</b>	531.71	524.66	517.59	510.53	503.55	500.33	497.60	495.07	492.97
<b>170</b>	525.87	521.60	517.34	515.26	513.32	511.47	509.74	508.11	506.72
<b>175</b>	523.75	523.09	522.43	521.78	521.14	520.50	519.86	519.28	518.70
<b>180</b>	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	277.10	N.A.	8.40
0-30	490.35	N.A.	14.80
0-40	657.67	N.A.	19.90
0-60	822.72	N.A.	24.90
0-80	864.59	N.A.	26.20
0-90	869.21	N.A.	26.30
10-90	787.41	N.A.	23.80
20-40	380.57	N.A.	11.50
20-50	486.98	N.A.	14.70
40-70	194.24	N.A.	5.90
60-80	41.87	N.A.	1.30
70-80	12.68	N.A.	0.40
80-90	4.62	N.A.	0.10
90-110	228.95	N.A.	6.90
90-120	612.99	N.A.	18.60
90-130	1107.46	N.A.	33.50
90-150	1962.99	N.A.	59.40
90-180	2433.75	N.A.	73.70
110-180	2204.8	N.A.	66.80
0-180	3302.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.79
10-20	195.31
20-30	213.25
30-40	167.31
40-50	106.41
50-60	58.64
60-70	29.19
70-80	12.68
80-90	4.62
90-100	41.99
100-110	186.96
110-120	384.04
120-130	494.47
130-140	473.90
140-150	381.62
150-160	266.54
160-170	154.03
170-180	50.19

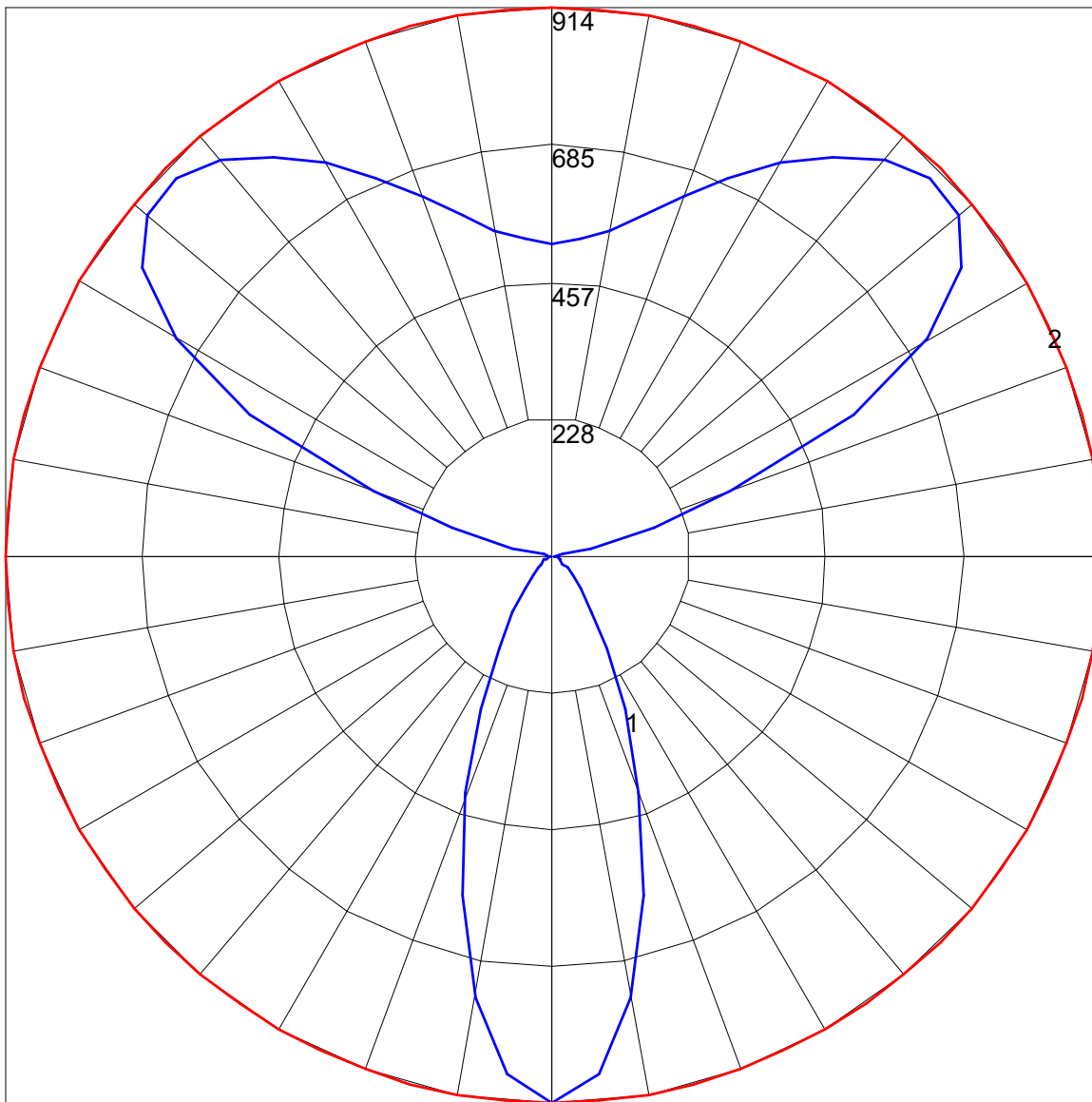
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	90	86	83	83	80	77	75	63	61	59	47	45	44	32	31	31	24
2	86	79	74	69	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	26	24	20
4	73	63	56	51	65	57	51	46	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	18	15
7	58	47	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	18	17	15	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 913.52 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.)