

IES Report

BoxRail[®] | 207 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	79	80	80
Total Lumens, 4' rail length (1219mm)	2177	2246	2291	2291
Lumens per foot (305mm)	544	561	573	573
Lumens per foot UP (305mm)	379	391	399	399
Lumens per foot DOWN (305mm)	166	171	174	174
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	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_LO_35_G1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010907 (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-35-G1S1

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

[MORE] 40° symmetric 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	2291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	1518	2724	10028
55	991	1653	6848
65	649	1010	4884
75	348	505	3335
85	97	131	1779

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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	588.12	588.12	588.12	588.12	588.12	588.12	588.12	588.12	588.12	588.12
5	566.08	565.50	565.50	565.50	566.08	566.08	566.66	567.82	568.40	569.56
10	503.44	502.86	504.02	505.76	508.66	512.14	516.78	520.26	524.90	530.70
15	412.38	412.38	415.28	419.92	425.72	432.10	440.22	450.08	461.68	473.86
20	314.94	314.94	319.58	325.96	333.50	343.36	355.54	368.88	383.96	399.62
25	228.52	229.68	233.74	240.12	248.24	259.26	271.44	285.36	302.76	322.48
30	163.56	164.72	168.20	173.42	180.96	189.66	199.52	213.44	231.42	248.82
35	117.74	118.32	121.22	125.86	131.66	138.62	146.16	158.92	172.26	187.92
40	87.58	88.16	90.48	93.38	97.44	101.50	109.04	117.74	127.02	140.36
45	67.86	68.44	69.60	71.92	74.24	77.14	82.36	87.58	95.70	103.82
50	54.52	54.52	55.68	56.84	58.00	60.32	63.22	67.28	72.50	79.46
55	44.08	44.66	44.66	45.82	46.40	47.56	49.30	52.78	56.26	60.90
60	35.96	35.96	35.96	35.96	35.96	37.12	38.86	40.60	42.92	46.40
65	27.84	28.42	27.84	27.26	27.84	28.42	29.58	30.74	32.48	34.80
70	20.30	19.14	19.72	20.30	20.30	20.88	22.04	22.62	23.78	24.94
75	13.92	13.34	13.92	13.92	13.34	13.92	13.92	13.92	15.08	15.66
80	8.70	8.12	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70
85	3.48	3.48	3.48	3.48	2.90	3.48	2.90	2.90	3.48	3.48
90	3.48	3.48	2.90	2.90	2.90	2.90	2.90	2.90	2.32	2.32
95	12.76	17.40	17.40	17.98	19.14	19.72	20.88	24.94	25.52	27.26
100	53.94	54.52	56.26	58.58	61.48	64.38	68.44	72.50	74.82	77.72
105	118.32	109.04	117.16	121.22	124.12	128.76	132.24	135.72	136.88	136.30
110	214.02	208.22	204.16	204.74	216.34	221.56	223.30	225.62	217.50	211.12
115	350.90	347.42	331.76	330.02	327.12	330.02	323.06	313.78	299.86	279.56
120	457.04	455.30	448.92	435.00	425.14	412.38	398.46	382.80	358.44	330.60
125	531.86	528.38	521.42	512.14	502.86	478.50	459.94	430.94	401.36	367.14
130	570.14	566.66	557.96	545.20	530.12	509.24	483.14	454.14	420.50	385.70
135	572.46	569.56	561.44	548.10	531.86	512.14	486.04	458.78	427.46	396.14
140	554.48	551.58	544.62	533.02	517.94	499.38	476.76	452.40	425.72	399.04
145	525.48	523.16	517.36	507.50	494.74	478.50	460.52	439.64	418.18	395.56
150	490.68	488.36	484.30	476.76	466.32	454.14	439.64	423.98	407.16	389.76
155	454.72	452.98	450.08	444.86	437.32	428.62	418.18	406.58	394.40	382.22
160	421.66	421.08	418.76	415.86	410.64	404.84	398.46	390.34	381.64	374.10
165	394.40	393.82	392.08	390.34	388.02	384.54	380.48	376.42	371.78	366.56
170	373.52	372.94	372.36	371.20	370.04	368.88	367.72	365.40	363.66	361.34
175	360.18	360.18	360.18	359.60	359.02	359.02	358.44	358.44	357.86	357.28
180	355.54	355.54	355.54	355.54	355.54	355.54	355.54	355.54	355.54	355.54

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	588.12	588.12	588.12	588.12	588.12	588.12	588.12	588.12	588.12
5	570.72	571.88	573.62	574.78	576.52	578.26	580.00	581.74	583.48
10	537.08	544.04	551.58	553.90	556.22	559.12	562.60	566.08	570.14
15	484.88	494.16	504.02	515.04	527.80	531.86	535.92	540.56	546.36
20	416.44	433.26	451.24	464.00	477.92	494.16	498.80	504.02	510.98
25	343.36	363.66	383.96	405.42	421.66	437.90	450.08	455.30	462.84
30	269.70	292.90	314.94	337.56	360.18	375.84	393.24	397.88	405.42
35	205.90	225.04	248.24	270.28	292.32	310.88	327.12	334.66	340.46
40	154.86	172.84	190.82	209.96	228.52	244.76	259.84	269.12	274.34
45	116.58	129.92	145.00	161.24	177.48	191.98	204.16	211.70	215.76
50	87.58	97.44	109.04	121.22	133.98	145.00	154.28	160.66	162.98
55	66.70	73.66	81.20	90.48	99.76	107.88	114.84	119.48	120.64
60	50.46	55.10	60.90	67.28	73.66	79.46	85.26	88.16	89.32

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CANDELA TABULATION - (Cont.)

65	37.70	41.18	45.24	49.30	53.36	57.42	60.32	62.64	64.38
70	26.68	29.58	31.90	34.80	37.70	41.76	43.50	43.50	44.66
75	17.40	18.56	20.88	22.04	24.36	26.10	26.68	27.84	27.84
80	9.28	9.86	11.02	11.60	12.76	13.92	14.50	15.08	15.08
85	3.48	3.48	4.06	4.06	4.64	4.64	4.64	5.22	5.80
90	2.32	1.74	1.74	1.16	1.16	1.16	1.16	1.16	1.16
95	29.58	31.90	31.32	29.58	23.20	21.46	21.46	22.04	22.04
100	75.40	73.66	70.18	62.64	56.84	53.94	50.46	48.14	47.56
105	132.82	127.02	116.58	104.40	93.96	86.42	80.04	76.56	76.56
110	198.94	180.38	161.82	143.84	128.76	117.74	110.78	106.72	105.56
115	255.20	226.78	201.26	178.64	160.66	148.48	139.78	135.72	133.98
120	300.44	267.38	236.64	209.38	190.24	177.48	168.78	162.98	161.82
125	330.60	296.38	265.64	237.80	218.66	204.16	194.30	189.66	187.92
130	351.48	319.00	290.00	264.48	243.60	229.68	219.82	212.86	210.54
135	364.24	335.24	307.98	285.36	266.22	252.30	242.44	236.06	233.74
140	371.20	346.26	323.06	302.18	285.36	272.02	263.32	257.52	254.62
145	373.52	352.64	333.50	316.10	302.18	290.58	282.46	277.82	274.92
150	372.94	356.70	341.04	327.70	314.94	306.82	299.28	296.38	294.06
155	369.46	357.86	346.26	335.82	327.70	320.74	315.52	313.20	310.88
160	365.98	357.86	349.16	343.36	338.14	332.34	330.02	327.70	326.54
165	361.34	357.28	353.22	349.16	345.10	343.36	341.62	339.88	338.72
170	359.02	356.12	353.80	352.64	351.48	350.90	349.74	348.58	348.00
175	357.28	356.70	356.12	356.12	355.54	354.96	354.38	354.38	353.80
180	355.54	355.54	355.54	355.54	355.54	355.54	355.54	355.54	355.54

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	185.68	N.A.	8.10
0-30	339.07	N.A.	14.80
0-40	470.32	N.A.	20.50
0-60	631.26	N.A.	27.50
0-80	691.55	N.A.	30.20
0-90	697.06	N.A.	30.40
10-90	643.69	N.A.	28.10
20-40	284.64	N.A.	12.40
20-50	380.72	N.A.	16.60
40-70	201.20	N.A.	8.80
60-80	60.29	N.A.	2.60
70-80	20.03	N.A.	0.90
80-90	5.51	N.A.	0.20
90-110	154.66	N.A.	6.70
90-120	402.88	N.A.	17.60
90-130	721.91	N.A.	31.50
90-150	1278.66	N.A.	55.80
90-180	1594.34	N.A.	69.60
110-180	1439.68	N.A.	62.80
0-180	2291.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.36
10-20	132.31
20-30	153.39
30-40	131.25
40-50	96.07
50-60	64.87
60-70	40.26
70-80	20.03
80-90	5.51
90-100	30.34
100-110	124.32
110-120	248.22
120-130	319.03
130-140	307.17
140-150	249.57
150-160	177.24
160-170	104.22
170-180	34.22

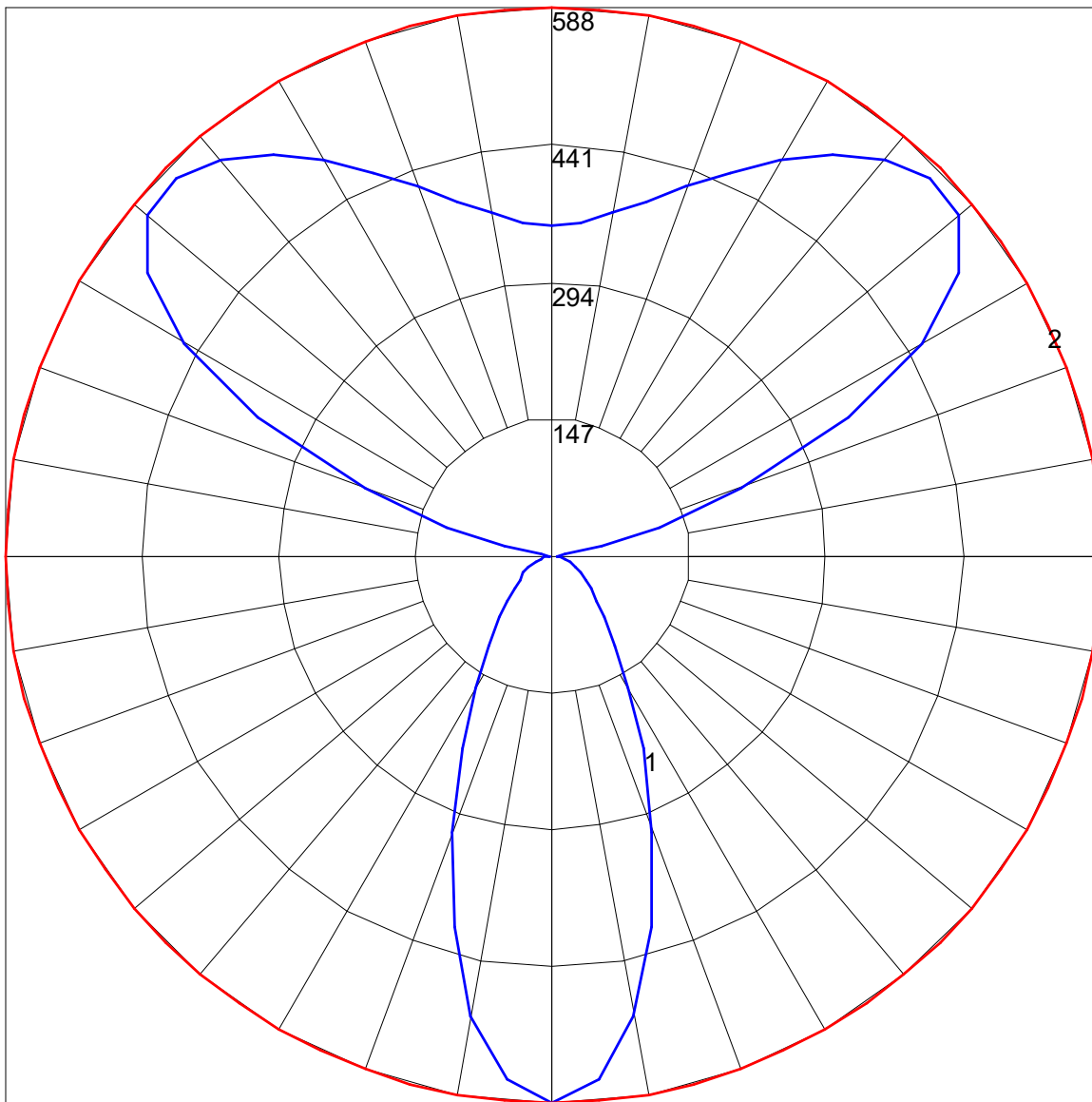
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	92	92	92	72	72	72	55	55	55	38	38	38	30
1	94	90	87	84	84	81	78	76	64	63	61	49	48	47	35	34	34	27
2	86	80	74	70	77	72	67	63	57	54	52	44	42	40	32	30	30	24
3	79	71	64	59	71	64	58	54	51	48	44	40	37	35	29	27	26	21
4	73	63	56	51	65	57	51	46	46	42	39	36	33	31	26	25	23	19
5	67	57	49	44	60	52	45	40	42	37	34	33	30	27	24	22	21	17
6	62	51	44	38	56	47	40	36	38	33	30	30	27	24	22	20	19	16
7	58	46	39	34	52	42	36	32	35	30	27	28	24	22	21	19	17	14
8	54	42	35	30	48	39	33	28	32	27	24	25	22	20	19	17	16	13
9	50	39	32	27	45	36	30	25	29	25	22	24	20	18	18	16	15	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 588.12 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.)