

IES Report

BoxRail[®] | 207 | Wide Batwing, up | Black Baffle, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1BB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	70	72	73	73
Total Lumens, 4' rail length (1219mm)	1989	2052	2093	2093
Lumens per foot (305mm)	497	513	523	523
Lumens per foot UP (305mm)	373	384	392	392
Lumens per foot DOWN (305mm)	125	129	131	131
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_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-35-G1BB

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	2093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	311	776	674
55	261	252	362
65	203	135	176
75	130	112	139
85	129	109	178

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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	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78
5	629.88	624.66	620.02	615.38	610.74	606.68	602.04	598.56	594.50	591.60
10	622.34	612.48	603.20	593.92	585.22	576.52	568.98	555.64	544.04	533.02
15	609.58	596.24	583.48	570.72	556.22	535.34	515.62	497.06	479.66	463.42
20	592.18	573.62	556.22	537.08	509.82	483.14	458.20	434.42	412.38	391.50
25	570.14	548.10	526.64	494.16	460.52	428.04	397.88	369.46	340.46	313.20
30	542.30	517.36	488.36	447.76	408.32	371.20	333.50	296.96	263.90	234.90
35	509.24	483.14	444.28	397.30	353.22	308.56	264.48	225.62	190.24	154.28
40	309.72	288.26	257.52	233.74	222.72	218.66	191.98	151.96	110.20	75.40
45	13.92	25.52	47.56	61.48	59.74	51.62	71.34	63.80	46.40	29.58
50	12.76	12.76	12.18	11.60	11.60	13.92	13.34	15.66	16.24	16.82
55	11.60	11.60	11.02	9.86	9.28	8.70	8.12	8.12	8.70	9.28
60	11.02	10.44	9.86	8.70	7.54	6.96	6.38	5.80	5.80	5.80
65	8.70	8.70	8.12	7.54	6.38	6.38	5.80	5.22	4.64	4.64
70	6.96	6.96	6.38	6.38	5.80	5.22	5.22	4.64	4.06	4.06
75	5.22	5.22	5.80	5.22	4.64	4.64	4.06	4.06	3.48	3.48
80	5.80	5.80	5.22	5.22	4.64	4.64	4.06	3.48	3.48	2.90
85	4.64	5.22	5.22	5.22	4.64	4.64	4.06	4.06	3.48	2.90
90	3.48	3.48	3.48	2.90	2.90	2.90	2.90	2.90	2.32	2.32
95	13.92	16.82	16.24	16.24	16.82	17.40	17.98	20.30	23.78	23.78
100	50.46	52.20	53.94	56.26	59.16	62.64	66.70	70.18	73.08	74.24
105	116.58	107.30	116.58	120.06	122.96	128.18	133.40	136.30	139.78	139.78
110	216.34	209.38	203.58	211.12	218.08	219.82	223.88	226.78	225.04	213.44
115	348.00	345.10	330.02	330.60	328.28	328.86	322.48	312.62	298.70	278.98
120	458.20	455.30	448.92	436.16	426.88	411.80	397.30	379.90	353.80	325.38
125	527.22	524.32	517.36	508.08	495.90	472.12	452.98	424.56	395.56	361.92
130	562.02	558.54	550.42	538.24	523.16	501.70	475.60	447.76	414.70	381.06
135	567.24	564.92	556.22	544.04	527.80	507.50	480.82	452.98	421.66	390.34
140	552.74	549.84	542.30	530.70	515.04	497.06	473.86	448.34	420.50	392.08
145	523.16	520.84	514.46	505.18	491.84	475.60	457.04	435.58	412.96	389.76
150	486.62	484.88	480.24	472.12	461.68	448.92	433.84	417.02	400.20	381.64
155	448.34	446.60	443.70	437.90	430.36	421.08	410.06	398.46	385.70	372.94
160	412.38	411.80	409.48	406.00	400.78	394.98	388.02	379.90	371.20	363.08
165	382.80	382.22	380.48	378.74	376.42	372.94	368.88	364.24	359.60	353.80
170	360.18	359.60	359.02	358.44	357.28	356.12	354.38	352.64	350.32	348.00
175	346.26	346.26	345.68	345.68	345.10	345.10	344.52	344.52	343.94	343.36
180	341.04	341.04	341.04	341.04	341.04	341.04	341.04	341.04	341.04	341.04

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	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78	632.78
5	588.70	585.80	583.48	581.74	580.58	579.42	578.84	578.84	578.84
10	523.74	515.04	507.50	500.54	495.32	491.26	488.36	486.62	486.62
15	448.92	435.58	423.98	414.70	407.16	400.78	396.14	393.24	393.82
20	371.20	352.06	335.24	321.90	311.46	303.34	296.96	292.32	291.74
25	288.84	266.80	247.08	230.84	218.08	207.64	200.10	194.88	193.72
30	207.06	180.96	157.18	135.72	118.32	103.82	93.38	87.00	87.00
35	120.06	88.74	72.50	59.74	49.88	41.76	34.80	30.74	29.00
40	57.42	38.28	29.58	27.26	24.94	23.20	22.04	20.88	20.30
45	27.84	23.78	20.88	19.14	17.40	16.24	15.08	14.50	14.50
50	16.82	15.66	14.50	13.34	12.18	11.02	10.44	9.86	9.86
55	9.86	9.86	9.28	8.70	8.12	7.54	6.96	6.38	6.38
60	6.38	6.38	6.38	5.80	5.22	4.64	4.64	4.06	4.06

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CANDELA TABULATION - (Cont.)

65	4.64	4.06	4.06	4.06	3.48	3.48	2.90	2.90	2.32
70	3.48	3.48	2.90	2.90	2.90	2.32	2.32	1.74	1.74
75	2.90	2.90	2.32	2.32	2.32	1.74	1.74	1.16	1.16
80	2.90	2.32	2.32	1.74	1.74	1.74	1.16	1.16	0.58
85	2.90	2.32	2.32	1.74	1.16	1.16	1.16	0.58	0.58
90	1.74	1.74	1.74	1.16	1.16	1.16	1.16	0.58	0.58
95	24.94	27.84	27.84	23.78	22.62	22.04	22.04	21.46	21.46
100	74.82	74.82	69.02	62.06	58.58	53.36	49.30	46.98	46.98
105	136.30	129.34	117.16	103.82	92.80	84.10	77.14	74.82	74.24
110	196.62	179.80	160.66	140.94	125.28	114.84	107.30	103.24	102.08
115	253.46	225.04	198.94	175.74	157.18	144.42	135.72	131.08	130.50
120	295.22	262.16	232.00	207.06	186.76	173.42	164.72	158.92	156.60
125	325.38	291.74	260.42	233.74	212.28	198.36	189.66	183.86	180.96
130	346.84	314.36	284.78	258.68	237.80	221.56	211.12	204.16	199.52
135	359.02	330.02	302.18	278.98	259.26	244.76	234.90	228.52	225.62
140	364.82	339.30	315.52	294.64	277.82	263.90	254.62	248.82	245.92
145	366.56	345.10	325.96	307.98	293.48	281.88	272.60	267.96	265.06
150	364.24	348.00	331.76	317.84	305.08	296.96	289.42	285.94	283.62
155	359.60	347.42	335.82	324.80	316.68	309.72	304.50	301.02	298.70
160	354.96	346.26	337.56	331.18	325.38	319.58	317.26	314.94	313.20
165	348.58	344.52	340.46	335.82	331.76	330.02	328.28	326.54	325.38
170	345.10	342.78	340.46	339.30	338.14	336.98	335.82	334.66	334.08
175	342.78	342.78	342.20	341.62	341.04	340.46	339.88	339.88	339.30
180	341.04	341.04	341.04	341.04	341.04	341.04	341.04	341.04	341.04

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	189.12	N.A.	9.00
0-30	344.22	N.A.	16.40
0-40	465.79	N.A.	22.30
0-60	512.57	N.A.	24.50
0-80	521.52	N.A.	24.90
0-90	524.65	N.A.	25.10
10-90	469.30	N.A.	22.40
20-40	276.68	N.A.	13.20
20-50	315.04	N.A.	15.00
40-70	51.98	N.A.	2.50
60-80	8.95	N.A.	0.40
70-80	3.75	N.A.	0.20
80-90	3.14	N.A.	0.10
90-110	152.66	N.A.	7.30
90-120	399.25	N.A.	19.10
90-130	713.77	N.A.	34.10
90-150	1262.07	N.A.	60.30
90-180	1568.74	N.A.	74.90
110-180	1416.08	N.A.	67.60
0-180	2093.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.35
10-20	133.76
20-30	155.10
30-40	121.57
40-50	38.36
50-60	8.41
60-70	5.21
70-80	3.75
80-90	3.14
90-100	28.79
100-110	123.87
110-120	246.59
120-130	314.52
130-140	302.55
140-150	245.74
150-160	173.02
160-170	100.75
170-180	32.89

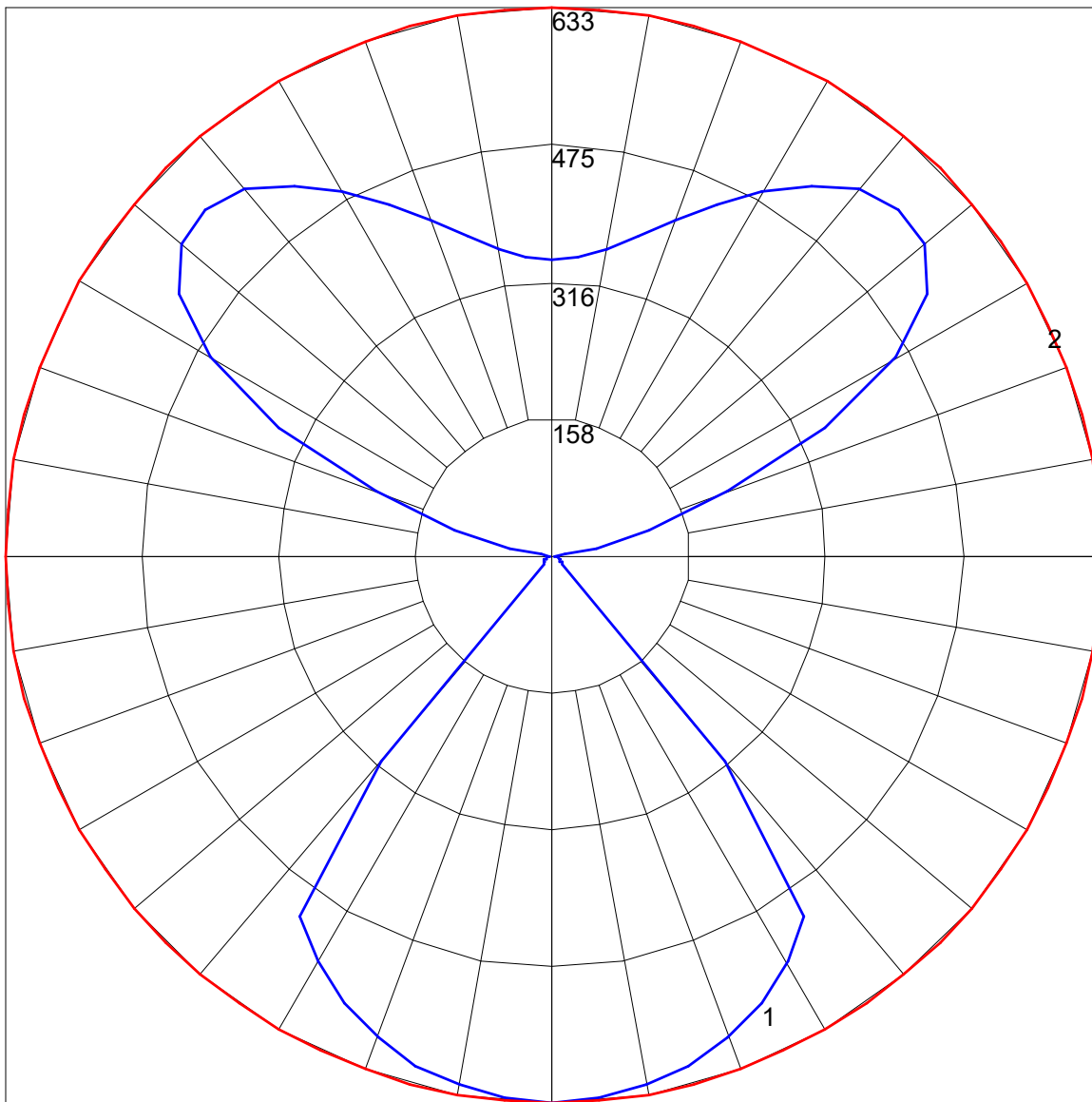
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	61	59	46	45	44	31	30	30	23
2	86	80	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	58	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	37	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 = 632.78 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.)