

IES Report

BoxRail® | 207 | Wide Batwing, up | White Baffle, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1WB-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	80	81	81
Total Lumens, 4' rail length (1219mm)	2205	2275	2321	2321
Lumens per foot (305mm)	551	569	580	580
Lumens per foot UP (305mm)	350	361	369	369
Lumens per foot DOWN (305mm)	201	207	212	212
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_G1WB_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010916 (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-G1WB-BL

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

[MORE] white baffle w/clear lens down, low 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	2321
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	1414	3485	4960
55	886	1952	3951
65	770	993	2992
75	174	337	1945
85	65	87	712

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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	720.94	720.94	720.94	720.94	720.94	720.94	720.94	720.94	720.94	720.94
5	719.20	715.14	711.66	708.18	704.70	701.22	698.32	694.84	692.52	689.62
10	711.66	704.70	697.74	690.78	684.40	678.02	672.22	661.20	650.76	641.48
15	698.32	687.88	677.44	667.58	656.56	639.74	623.50	608.42	593.92	581.16
20	678.60	664.68	651.92	636.84	613.64	592.18	571.30	551.58	533.02	516.20
25	654.24	638.00	622.92	595.66	567.24	540.56	515.62	492.42	465.16	439.64
30	621.76	603.20	581.16	546.94	514.46	483.72	452.98	420.50	389.76	361.92
35	577.10	555.64	524.90	487.20	451.24	415.28	379.32	343.94	311.46	278.40
40	339.88	330.60	318.42	313.20	313.78	315.52	288.84	256.36	226.20	193.72
45	63.22	75.98	102.08	127.60	138.04	139.78	158.34	157.76	146.74	132.82
50	43.50	47.56	54.52	61.48	69.02	82.36	91.64	98.02	99.18	98.02
55	39.44	42.34	46.98	52.20	57.42	63.80	68.44	70.18	71.34	71.92
60	37.12	38.28	40.02	41.76	44.08	46.40	48.14	48.72	49.88	51.62
65	33.06	31.90	30.16	29.58	30.16	30.74	31.32	32.48	33.06	34.22
70	17.98	17.40	17.40	17.40	17.40	17.98	17.98	18.56	19.72	20.88
75	6.96	6.96	7.54	7.54	7.54	8.12	8.12	8.70	9.86	10.44
80	2.90	3.48	2.90	3.48	3.48	3.48	3.48	3.48	3.48	4.06
85	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
90	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
95	4.06	8.70	8.12	8.70	10.44	12.76	15.66	21.46	24.36	31.90
100	34.80	37.12	38.86	42.92	49.88	57.42	66.12	77.14	87.00	90.48
105	93.38	95.12	101.50	109.04	117.74	136.30	153.12	164.14	176.32	172.84
110	225.62	225.62	232.58	238.38	262.74	277.24	295.80	306.82	293.48	254.62
115	446.60	441.38	424.56	432.68	429.78	439.64	415.86	386.28	342.20	284.20
120	589.28	582.90	563.76	540.56	524.32	487.20	451.24	403.68	350.90	298.70
125	591.02	586.96	575.36	557.38	530.12	491.84	451.24	407.74	361.92	315.52
130	557.38	553.90	544.62	530.12	508.08	479.08	444.28	407.74	368.30	331.18
135	527.22	524.32	515.62	502.86	484.30	459.94	433.84	404.26	374.10	343.36
140	497.06	494.16	487.20	477.34	463.42	446.02	424.56	401.36	377.00	353.22
145	470.96	468.64	462.84	454.72	443.12	429.20	412.96	393.82	374.10	352.64
150	441.38	439.06	434.42	426.88	417.60	406.00	393.24	377.58	359.60	340.46
155	403.68	401.94	398.46	392.66	384.54	375.26	363.66	351.48	336.98	321.32
160	361.34	360.18	357.28	353.80	347.42	340.46	332.34	322.48	311.46	301.60
165	320.74	320.16	318.42	316.10	312.62	307.98	303.34	297.54	291.16	283.62
170	288.26	287.68	287.10	285.94	284.20	283.04	280.72	277.82	274.92	272.02
175	267.38	267.38	266.80	266.80	266.22	266.22	265.64	265.06	264.48	264.48
180	260.42	260.42	260.42	260.42	260.42	260.42	260.42	260.42	260.42	260.42

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	720.94	720.94	720.94	720.94	720.94	720.94	720.94	720.94	720.94
5	687.30	684.98	683.24	681.50	680.34	679.76	678.60	678.60	678.60
10	633.36	625.82	619.44	613.64	608.42	604.36	602.04	599.72	599.72
15	568.98	557.96	548.10	539.98	533.60	527.80	523.16	520.26	519.68
20	498.80	482.56	468.64	455.88	445.44	437.90	430.36	424.56	423.40
25	416.44	397.30	380.48	365.98	353.22	343.36	336.40	331.18	330.60
30	336.40	312.62	288.84	267.96	251.14	236.64	225.62	218.08	217.50
35	244.76	214.02	198.36	186.76	177.48	169.36	164.14	161.24	160.66
40	173.42	154.86	146.74	142.10	138.04	135.14	132.82	131.66	130.50
45	127.02	121.80	118.32	114.84	111.94	110.20	108.46	107.30	106.72
50	97.44	95.12	92.80	91.64	90.48	88.74	87.58	87.00	87.00
55	72.50	71.92	71.34	71.34	70.76	70.18	69.60	69.02	69.60
60	53.36	52.78	53.94	53.94	53.94	53.94	53.94	53.36	53.36

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CANDELA TABULATION - (Cont.)

65	35.96	36.54	38.86	39.44	39.44	39.44	40.02	40.02	39.44
70	22.04	23.20	24.36	25.52	26.68	26.68	27.26	27.26	27.26
75	11.02	12.18	13.34	14.50	15.66	15.66	16.24	16.82	16.24
80	4.64	4.64	5.22	5.80	6.38	6.96	7.54	7.54	7.54
85	2.32	1.74	1.74	1.74	1.74	1.74	1.74	2.32	2.32
90	1.74	1.74	1.74	1.16	1.16	1.16	0.58	0.58	1.16
95	33.64	30.74	23.78	19.72	15.08	13.92	16.82	16.82	16.24
100	89.90	77.14	61.48	48.72	42.92	41.18	42.34	44.08	43.50
105	157.76	127.60	95.70	75.40	66.12	64.38	66.12	66.70	67.28
110	207.64	158.34	122.38	102.08	93.96	92.22	95.12	97.44	98.60
115	229.10	183.28	150.80	131.66	122.96	121.22	124.12	127.02	128.18
120	251.72	209.96	180.38	161.82	153.12	150.80	151.96	154.28	156.02
125	274.92	239.54	211.70	192.56	181.54	176.32	174.58	175.16	175.74
130	295.80	267.38	243.02	223.88	209.96	200.10	192.56	187.92	185.60
135	315.52	289.42	266.22	247.08	230.26	215.76	203.00	194.30	189.66
140	328.86	305.08	281.88	260.42	240.70	222.72	208.22	198.94	193.72
145	330.02	307.98	284.78	263.90	243.60	226.78	212.28	204.74	199.52
150	320.74	300.44	280.72	262.16	244.18	230.84	218.08	213.44	209.38
155	305.08	289.42	274.34	258.68	247.08	236.64	228.52	224.46	220.98
160	290.58	278.98	267.38	259.26	250.56	241.86	238.96	235.48	233.16
165	277.24	271.44	265.64	259.26	253.46	251.14	248.82	246.50	244.76
170	268.54	265.06	261.58	259.84	258.68	256.94	255.78	254.62	253.46
175	263.90	263.32	262.74	262.16	261.58	261.00	260.42	259.84	259.26
180	260.42	260.42	260.42	260.42	260.42	260.42	260.42	260.42	260.42

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	230.79	N.A.	9.90
0-30	441.53	N.A.	19.00
0-40	632.94	N.A.	27.30
0-60	795.82	N.A.	34.30
0-80	843.47	N.A.	36.30
0-90	846.41	N.A.	36.50
10-90	781.59	N.A.	33.70
20-40	402.15	N.A.	17.30
20-50	506.54	N.A.	21.80
40-70	197.66	N.A.	8.50
60-80	47.65	N.A.	2.10
70-80	12.87	N.A.	0.60
80-90	2.94	N.A.	0.10
90-110	151.89	N.A.	6.50
90-120	422.19	N.A.	18.20
90-130	732.63	N.A.	31.60
90-150	1221.64	N.A.	52.60
90-180	1474.87	N.A.	63.50
110-180	1322.98	N.A.	57.00
0-180	2321.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.82
10-20	165.97
20-30	210.74
30-40	191.41
40-50	104.39
50-60	58.49
60-70	34.78
70-80	12.87
80-90	2.94
90-100	25.88
100-110	126.01
110-120	270.30
120-130	310.44
130-140	273.24
140-150	215.77
150-160	146.83
160-170	80.98
170-180	25.42

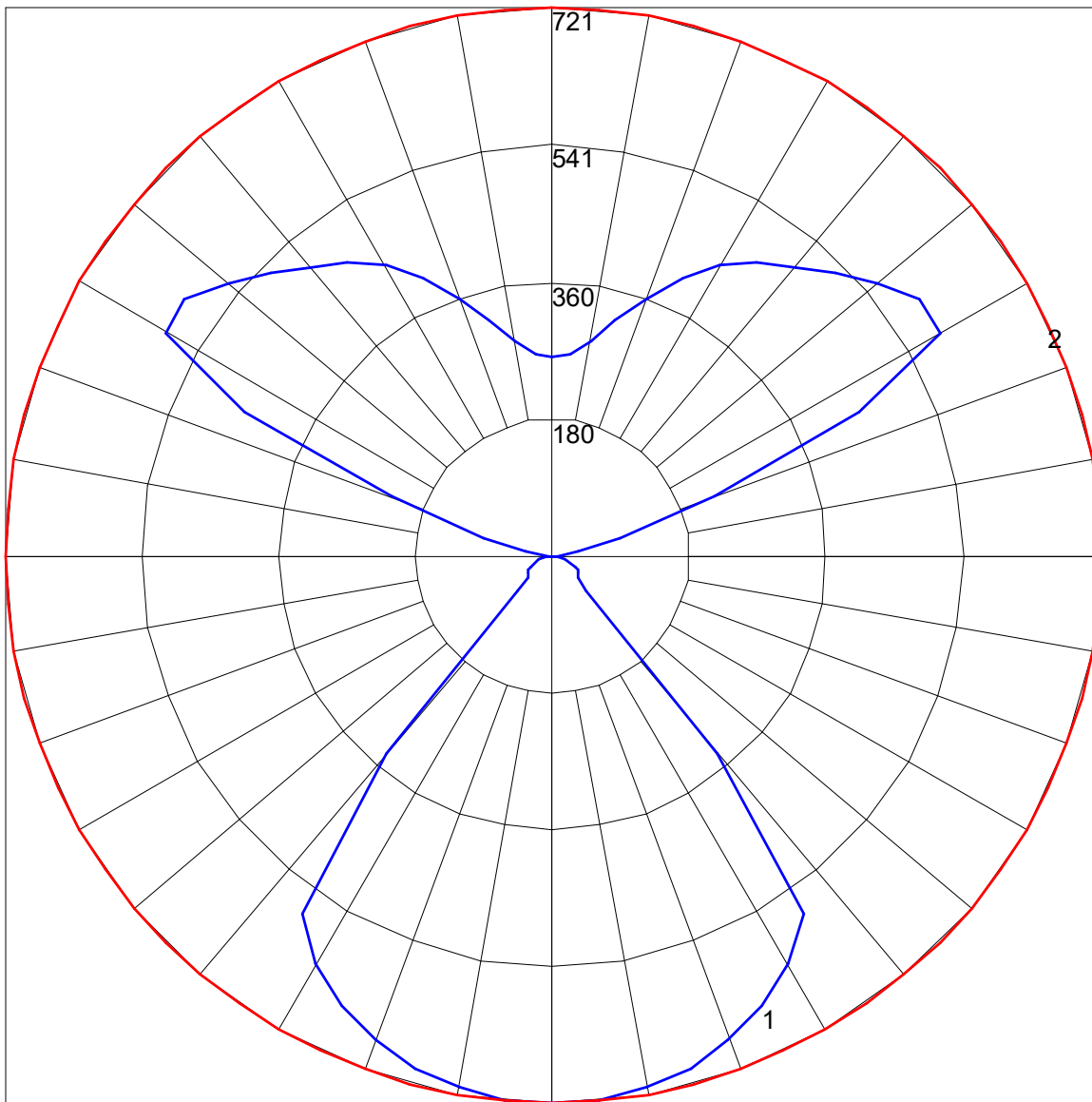
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	89	86	87	84	81	78	68	66	64	54	52	51	40	40	39	33
2	88	82	77	72	80	75	70	66	61	58	55	49	47	45	37	36	35	30
3	81	73	67	61	74	67	61	57	55	51	48	44	42	39	34	32	31	27
4	75	66	59	53	68	60	54	49	50	46	42	40	37	35	31	30	28	24
5	69	59	52	47	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	54	46	41	59	49	43	38	41	37	33	34	31	28	27	25	23	20
7	60	49	42	37	55	45	39	34	38	33	30	31	28	25	25	23	21	18
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17
9	52	41	34	30	48	38	32	28	32	28	25	27	24	21	22	20	18	16
10	49	38	31	27	45	35	29	25	30	26	22	25	22	20	20	18	17	15

POLAR GRAPH



Maximum Candela = 720.94 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.)