

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	67
Total Lumens, 4' rail length (1219mm)	1820	1877	1916	1916
Lumens per foot (305mm)	455	469	479	479
Lumens per foot UP (305mm)	335	346	353	353
Lumens per foot DOWN (305mm)	120	124	126	126
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_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-LO-35-G1S1-BL

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

[MORE] 40° symmetric 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	1916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	616	1524	8160
55	290	721	4777
65	153	349	2726
75	76	157	1631
85	66	73	745

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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	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842
5	503.684	503.399	503.318	503.440	503.759	504.281	504.994	505.893	506.972	508.225
10	434.356	433.997	435.087	437.036	440.023	444.013	448.961	453.461	458.954	465.340
15	339.596	339.300	342.223	346.805	353.104	359.786	368.474	379.071	391.483	404.509
20	244.308	244.081	248.437	254.452	261.545	271.220	282.988	295.719	310.544	327.630
25	163.699	164.500	168.525	174.041	182.074	191.818	203.058	216.195	233.090	252.497
30	105.160	105.978	109.237	113.935	120.547	128.580	137.831	150.823	167.504	184.063
35	66.410	67.077	69.310	72.964	77.558	83.149	90.132	102.080	114.098	129.352
40	41.911	42.450	43.941	46.394	49.648	53.401	59.653	67.292	75.841	88.624
45	27.521	27.939	28.780	30.299	32.202	34.446	39.260	43.651	51.057	58.081
50	18.525	18.746	19.372	20.387	21.617	23.571	26.071	29.441	33.831	39.742
55	12.882	13.015	13.427	14.094	14.802	16.234	17.574	20.027	22.922	26.558
60	9.286	9.332	9.558	9.883	10.394	11.217	12.290	13.531	15.567	18.084
65	6.566	6.606	6.751	7.018	7.447	7.813	8.578	9.454	10.620	12.041
70	4.425	4.385	4.762	4.884	5.214	5.487	5.800	6.322	7.024	7.987
75	3.062	3.155	3.544	3.521	3.561	3.700	3.828	4.037	4.414	4.884
80	2.674	2.767	2.906	2.807	2.807	2.825	2.848	2.865	2.883	2.923
85	2.384	2.413	2.366	2.303	2.256	2.192	2.105	1.995	1.978	1.943
90	2.366	2.407	2.430	2.384	2.332	2.308	2.239	2.117	1.943	1.798
95	8.410	11.530	11.101	11.646	12.412	13.514	14.390	17.052	20.381	21.037
100	38.506	40.902	42.276	45.240	48.302	52.206	56.185	60.575	64.218	67.060
105	101.030	91.304	98.293	101.778	105.398	110.519	114.979	117.879	123.064	122.525
110	183.779	179.696	180.113	175.543	189.254	192.937	199.421	203.423	201.045	193.227
115	322.677	317.121	302.453	296.542	296.908	297.256	292.535	284.067	272.084	254.469
120	419.572	414.410	409.173	398.808	390.734	377.771	365.464	350.801	325.745	299.234
125	484.428	480.170	474.585	465.757	456.390	436.583	419.444	392.144	364.518	332.711
130	514.037	512.030	505.192	494.270	481.539	463.727	440.545	413.743	382.516	350.053
135	516.322	514.460	509.837	498.556	483.935	466.709	443.016	417.994	388.142	358.539
140	500.233	500.418	494.833	484.729	470.873	454.355	433.538	410.449	385.236	358.898
145	472.375	470.368	466.859	460.758	448.276	433.370	416.063	396.204	375.301	353.371
150	438.729	438.903	436.177	429.357	420.077	408.013	393.907	378.137	361.642	343.853
155	403.338	401.853	399.127	394.957	389.151	380.561	369.930	358.347	346.069	333.639
160	369.791	369.675	367.946	365.197	360.163	354.310	347.501	339.346	330.612	322.921
165	341.202	340.854	339.573	337.966	335.623	331.986	327.949	323.547	318.814	313.397
170	319.858	319.418	318.577	317.654	316.558	315.300	313.879	311.837	309.679	307.394
175	306.924	306.745	306.600	306.188	305.892	305.573	305.237	304.883	304.523	304.152
180	302.180	302.180	302.180	302.180	302.180	302.180	302.180	302.180	302.180	302.180

**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	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842	529.842
5	509.640	511.212	512.917	514.750	516.699	518.746	520.846	523.061	525.318
10	472.572	480.594	489.184	492.014	495.181	498.667	502.442	506.439	510.783
15	416.701	427.344	439.083	451.826	466.163	470.589	475.641	481.145	487.444
20	345.773	364.692	384.360	399.336	415.593	433.707	439.640	446.409	454.581
25	273.522	294.884	317.393	341.301	360.093	379.163	394.040	400.792	409.706
30	204.740	227.789	250.896	275.918	301.409	320.520	341.011	346.666	355.157
35	147.877	167.904	189.776	211.839	237.069	258.715	277.408	286.955	295.162
40	101.802	119.468	137.170	156.710	177.480	195.941	209.798	221.548	233.125
45	69.565	81.473	95.804	113.262	130.129	145.864	158.879	168.913	175.560
50	46.313	55.274	65.952	77.882	90.753	102.683	112.508	119.793	123.929
55	31.523	37.224	44.074	52.473	61.497	69.629	76.519	81.821	84.158
60	21.187	24.737	29.365	35.061	41.186	47.026	51.690	54.108	55.570

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CANDELA TABULATION - (Cont.)

65	14.077	16.553	19.656	23.125	26.744	30.311	33.449	35.148	35.931
70	9.245	10.852	12.824	14.952	17.081	19.256	21.199	22.272	22.852
75	5.620	6.560	7.772	9.042	10.283	11.507	12.545	13.212	13.613
80	3.155	3.457	3.973	4.576	5.249	5.870	6.484	6.780	6.757
85	1.815	1.659	1.775	1.943	2.030	2.024	2.314	2.511	2.430
90	1.630	1.462	1.340	1.166	1.067	0.922	0.777	0.876	0.922
95	22.185	24.459	24.551	21.431	18.850	17.441	18.757	18.896	18.525
100	65.581	63.574	62.292	55.645	50.756	47.398	45.878	44.596	43.709
105	120.733	114.509	104.243	91.901	81.647	74.049	68.910	65.940	65.488
110	180.658	163.386	144.420	126.446	111.725	101.459	95.300	91.594	90.335
115	231.954	205.616	179.446	157.499	140.227	127.762	120.164	115.542	113.958
120	269.920	236.936	209.264	185.084	166.883	153.445	144.327	139.067	137.883
125	297.470	264.526	234.941	209.032	190.072	175.821	166.031	160.492	158.688
130	316.732	284.792	255.983	230.811	210.262	195.831	185.989	180.426	178.234
135	327.503	298.346	271.539	248.385	228.862	214.826	205.419	199.178	196.075
140	332.056	306.547	282.895	261.986	245.241	231.142	222.302	216.734	213.776
145	331.215	309.964	290.325	272.745	258.373	246.935	238.142	233.595	230.939
150	326.981	310.439	294.298	281.085	268.592	260.310	252.596	249.383	247.028
155	320.937	308.769	297.528	286.462	278.603	271.573	266.301	263.622	261.615
160	314.940	306.484	298.195	292.355	286.677	281.184	278.812	276.793	275.227
165	308.392	304.303	300.202	296.107	292.059	290.191	288.608	287.141	285.923
170	305.005	302.528	300.057	298.851	297.726	296.653	295.649	294.704	293.898
175	303.775	303.392	303.009	302.632	302.261	301.890	301.519	301.182	300.846
180	302.180	302.180	302.180	302.180	302.180	302.180	302.180	302.180	302.180

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	160.72	N.A.	8.40
0-30	284.40	N.A.	14.80
0-40	381.45	N.A.	19.90
0-60	477.18	N.A.	24.90
0-80	501.46	N.A.	26.20
0-90	504.14	N.A.	26.30
10-90	456.70	N.A.	23.80
20-40	220.73	N.A.	11.50
20-50	282.45	N.A.	14.70
40-70	112.66	N.A.	5.90
60-80	24.29	N.A.	1.30
70-80	7.36	N.A.	0.40
80-90	2.68	N.A.	0.10
90-110	132.79	N.A.	6.90
90-120	355.53	N.A.	18.60
90-130	642.33	N.A.	33.50
90-150	1138.53	N.A.	59.40
90-180	1411.58	N.A.	73.70
110-180	1278.78	N.A.	66.80
0-180	1915.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.44
10-20	113.28
20-30	123.69
30-40	97.04
40-50	61.72
50-60	34.01
60-70	16.93
70-80	7.36
80-90	2.68
90-100	24.36
100-110	108.44
110-120	222.74
120-130	286.79
130-140	274.86
140-150	221.34
150-160	154.60
160-170	89.34
170-180	29.11

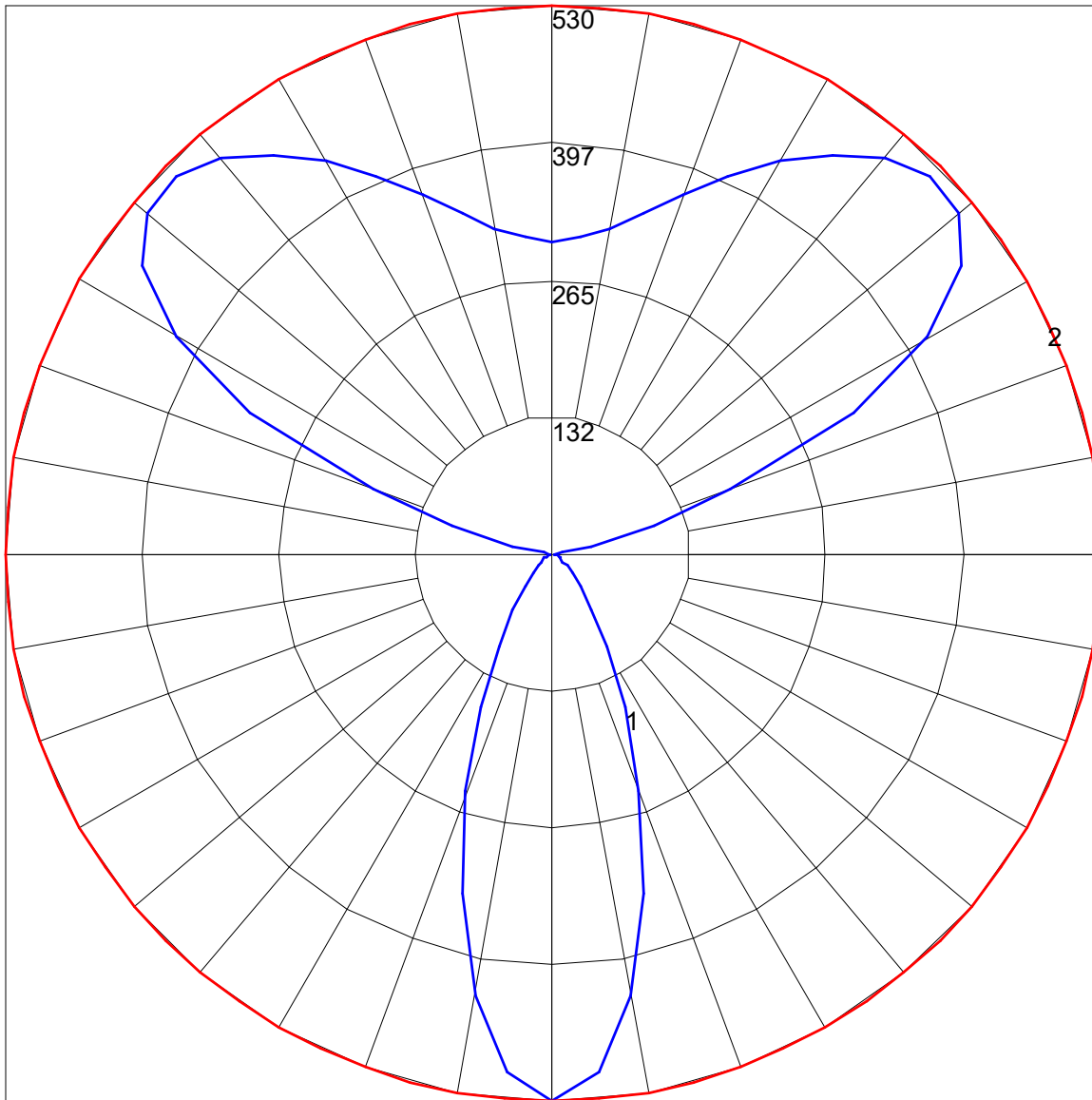
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	50	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	21	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 529.842 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.)