

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	80	82	82
Total Lumens, 4' rail length (1219mm)	2219	2289	2336	2336
Lumens per foot (305mm)	555	572	584	584
Lumens per foot UP (305mm)	346	357	364	364
Lumens per foot DOWN (305mm)	208	215	219	219
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_G1D1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-G1D1-BL

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

[MORE] diffuse 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	2336
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	4583	5500	9844
55	3481	4328	9392
65	2270	2943	8601
75	1071	1494	7285
85	143	267	4890

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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	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864
5	323.118	322.979	322.845	322.764	322.683	322.613	322.567	322.538	322.526	322.538
10	318.495	318.258	318.136	318.060	318.055	318.124	318.252	318.008	317.869	317.823
15	310.526	310.207	310.178	310.288	310.428	310.114	310.033	310.184	310.567	310.689
20	299.825	299.471	299.634	299.814	299.495	299.489	299.616	299.425	299.611	299.692
25	286.555	286.102	286.218	286.021	286.195	286.224	286.253	286.793	286.282	286.160
30	270.367	270.083	270.210	270.065	270.123	270.199	270.419	270.297	270.355	270.384
35	251.111	250.867	250.809	251.059	251.105	251.447	251.842	251.610	252.080	252.288
40	228.990	228.862	228.845	229.042	229.512	230.196	230.283	230.788	231.507	231.971
45	204.926	205.065	205.187	205.558	205.859	206.167	206.880	207.982	208.324	209.641
50	180.954	180.734	180.583	180.809	181.279	181.656	182.572	183.321	183.953	185.339
55	154.848	154.599	154.790	155.046	154.709	153.845	154.315	155.411	157.093	159.483
60	127.333	127.142	126.452	124.398	123.726	123.726	124.723	125.831	127.989	130.564
65	97.428	97.185	93.629	92.696	93.142	94.360	95.839	97.144	99.232	101.425
70	68.307	65.424	64.252	65.975	67.251	68.231	68.921	69.235	70.847	73.428
75	42.879	39.562	41.627	42.137	42.021	42.131	42.369	42.821	44.527	46.342
80	19.546	19.720	20.155	20.607	20.793	21.089	21.350	21.895	22.539	23.368
85	5.156	6.113	5.475	5.388	5.371	5.638	5.301	6.015	6.618	7.117
90	2.975	3.039	3.039	3.086	3.062	3.016	2.964	2.819	2.674	2.453
95	5.980	9.576	8.903	9.883	11.397	13.711	16.605	22.318	28.275	35.148
100	35.444	37.880	40.240	44.921	52.432	60.575	71.700	85.892	98.786	103.072
105	96.118	96.176	105.920	115.287	125.361	147.332	167.788	182.596	197.455	193.795
110	239.784	241.738	252.201	256.633	292.285	308.398	334.155	347.553	325.096	272.345
115	502.367	497.872	482.212	490.767	490.396	502.210	469.609	428.852	369.559	294.692
120	677.202	668.520	645.175	617.021	597.963	546.354	496.903	431.369	361.038	295.725
125	663.735	657.581	639.647	610.746	572.199	522.041	465.665	408.413	350.668	297.395
130	586.821	582.059	568.934	546.441	513.834	475.281	433.086	388.362	344.485	305.480
135	522.302	518.317	508.306	491.103	467.260	437.140	407.351	373.943	341.765	310.561
140	471.499	468.959	461.291	448.688	431.856	411.203	387.237	362.523	336.731	313.107
145	431.677	429.391	423.197	413.523	400.159	384.372	366.409	346.759	326.998	306.959
150	389.772	388.066	383.850	376.356	366.560	354.635	340.854	325.937	310.509	293.990
155	348.151	346.968	344.288	339.056	332.270	323.768	313.745	302.638	291.902	280.923
160	311.495	310.909	308.925	306.188	301.913	296.844	290.887	283.748	275.993	269.422
165	284.467	284.084	282.988	281.596	279.630	276.643	273.308	269.659	265.721	261.151
170	266.040	265.727	265.106	264.364	263.453	262.375	261.145	259.324	257.398	255.374
175	253.593	253.472	253.350	253.083	252.845	252.584	252.294	251.981	251.645	251.297
180	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240

**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	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864
5	322.561	322.608	322.677	322.758	322.857	322.973	323.095	323.246	323.408
10	317.863	317.997	318.205	318.113	318.078	318.113	318.217	318.379	318.640
15	310.573	310.265	310.167	310.277	310.625	310.451	310.433	310.544	310.915
20	299.640	299.616	299.837	299.547	299.558	299.906	299.709	299.732	300.214
25	286.595	286.445	286.207	286.514	286.300	286.363	286.526	286.421	286.990
30	270.402	270.442	270.454	270.460	271.028	270.756	271.051	270.779	271.388
35	252.352	252.741	252.422	252.509	252.689	252.758	252.834	252.776	253.153
40	232.336	232.389	232.505	232.621	232.592	232.853	232.684	232.963	233.804
45	209.676	210.053	210.958	210.563	210.302	211.306	211.480	211.607	211.781
50	186.435	187.433	187.850	188.042	188.251	189.022	189.306	189.318	189.173
55	160.608	162.035	163.299	164.291	164.650	164.830	164.877	165.010	165.445
60	132.971	135.157	136.068	137.791	138.800	139.223	139.490	139.455	139.826

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CANDELA TABULATION - (Cont.)

65	104.174	106.668	108.709	110.415	111.557	112.595	113.384	113.326	113.378
70	75.881	78.445	81.061	82.841	84.361	85.898	87.360	87.000	87.267
75	48.952	51.846	54.804	55.535	57.089	59.038	60.535	60.894	60.819
80	24.511	26.686	28.594	29.580	31.714	33.333	36.627	40.362	38.506
85	7.459	7.755	8.630	9.564	10.376	11.751	13.908	15.492	15.944
90	2.239	1.995	1.752	1.554	1.409	1.288	1.166	1.363	1.943
95	36.325	33.443	28.988	20.950	15.503	14.871	17.133	17.098	17.452
100	100.009	86.142	65.702	49.544	44.184	42.920	43.952	43.442	43.512
105	171.129	132.228	96.721	75.394	67.344	65.209	65.621	67.210	69.037
110	214.710	158.839	120.686	100.624	92.945	91.785	94.563	97.713	98.844
115	227.157	177.219	144.925	127.171	119.898	119.248	122.525	126.028	127.867
120	239.169	196.162	170.677	155.185	148.097	146.769	148.828	152.146	154.605
125	254.289	219.843	196.997	181.053	173.490	170.561	170.404	171.790	173.130
130	269.973	243.026	221.316	205.001	194.723	189.573	186.197	183.970	182.949
135	283.556	259.666	240.021	223.955	211.613	202.118	194.694	189.672	187.085
140	289.867	269.201	250.374	234.030	220.475	208.788	199.677	193.871	190.681
145	287.373	269.259	252.381	237.313	224.274	213.417	204.467	199.735	196.661
150	278.783	264.161	250.125	238.380	226.884	218.822	210.998	207.976	205.506
155	269.375	258.721	249.017	239.186	231.942	225.272	220.214	217.709	215.719
160	262.624	255.322	248.031	242.660	237.382	232.168	229.987	228.056	226.513
165	256.807	253.095	249.342	245.578	241.761	239.992	238.403	236.913	235.654
170	253.257	251.065	248.866	247.793	246.761	245.775	244.841	243.942	243.136
175	250.925	250.548	250.160	249.760	249.359	248.953	248.547	248.153	247.759
180	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240	248.240

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	118.23	N.A.	5.10
0-30	250.15	N.A.	10.70
0-40	407.73	N.A.	17.50
0-60	710.86	N.A.	30.40
0-80	865.57	N.A.	37.10
0-90	877.83	N.A.	37.60
10-90	847.16	N.A.	36.30
20-40	289.50	N.A.	12.40
20-50	450.50	N.A.	19.30
40-70	405.18	N.A.	17.30
60-80	154.71	N.A.	6.60
70-80	52.66	N.A.	2.30
80-90	12.26	N.A.	0.50
90-110	162.68	N.A.	7.00
90-120	454.41	N.A.	19.50
90-130	773.88	N.A.	33.10
90-150	1228.46	N.A.	52.60
90-180	1457.79	N.A.	62.40
110-180	1295.12	N.A.	55.50
0-180	2335.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.67
10-20	87.56
20-30	131.93
30-40	157.58
40-50	161.00
50-60	142.13
60-70	102.05
70-80	52.66
80-90	12.26
90-100	28.06
100-110	134.61
110-120	291.74
120-130	319.46
130-140	259.28
140-150	195.30
150-160	130.94
160-170	74.32
170-180	24.08

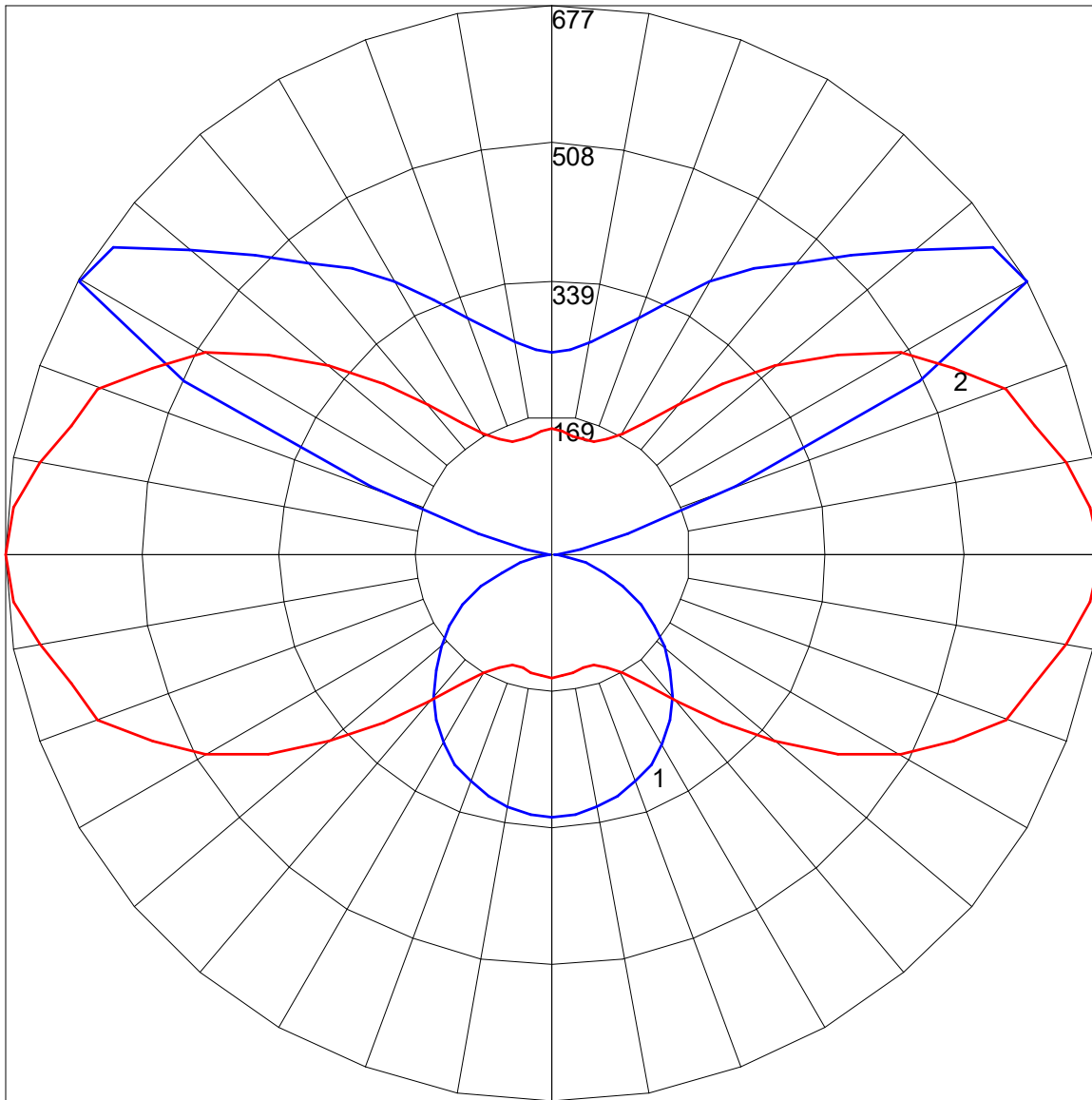
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 677.202 Located At Horizontal Angle = 0, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (120) (Through Max. Cd.)