

## IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	93
Total Lumens, 4' rail length (1219mm)	4438	4578	4671	4671
Lumens per foot (305mm)	1109	1144	1168	1168
Lumens per foot UP (305mm)	692	714	729	729
Lumens per foot DOWN (305mm)	417	430	439	439
Input Power (W), 4' rail length (1219mm)	50.5	50.5	50.5	50.5
Watts per foot (305mm)	12.7	12.7	12.7	12.7
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\_SO\_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-SO-35-G1D1-BL

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

[MORE] diffuse lens down, standard 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	4671
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	50.52
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	9166	11001	19687
55	6961	8657	18783
65	4540	5887	17201
75	2142	2988	14570
85	287	534	9780

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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>
<b>0</b>	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728
<b>5</b>	646.236	645.958	645.691	645.528	645.366	645.227	645.134	645.076	645.053	645.076
<b>10</b>	636.991	636.515	636.272	636.121	636.109	636.248	636.504	636.016	635.738	635.645
<b>15</b>	621.052	620.414	620.356	620.577	620.855	620.229	620.066	620.368	621.134	621.377
<b>20</b>	599.650	598.943	599.268	599.627	598.989	598.978	599.233	598.850	599.221	599.384
<b>25</b>	573.110	572.205	572.437	572.042	572.390	572.448	572.506	573.585	572.564	572.321
<b>30</b>	540.734	540.166	540.421	540.131	540.247	540.398	540.838	540.595	540.711	540.769
<b>35</b>	502.222	501.735	501.619	502.118	502.210	502.895	503.684	503.220	504.159	504.577
<b>40</b>	457.980	457.724	457.690	458.084	459.024	460.392	460.566	461.576	463.014	463.942
<b>45</b>	409.851	410.130	410.373	411.116	411.719	412.334	413.760	415.964	416.649	419.282
<b>50</b>	361.908	361.468	361.166	361.618	362.558	363.312	365.145	366.641	367.906	370.678
<b>55</b>	309.697	309.198	309.581	310.091	309.418	307.690	308.630	310.822	314.186	318.965
<b>60</b>	254.666	254.284	252.903	248.797	247.451	247.451	249.446	251.662	255.977	261.128
<b>65</b>	194.857	194.370	187.259	185.391	186.284	188.720	191.678	194.288	198.464	202.849
<b>70</b>	136.613	130.848	128.505	131.950	134.502	136.462	137.843	138.469	141.694	146.856
<b>75</b>	85.759	79.124	83.253	84.274	84.042	84.262	84.738	85.643	89.053	92.684
<b>80</b>	39.092	39.440	40.310	41.215	41.586	42.178	42.700	43.790	45.078	46.736
<b>85</b>	10.312	12.226	10.950	10.776	10.742	11.275	10.602	12.029	13.236	14.233
<b>90</b>	5.951	6.078	6.078	6.171	6.125	6.032	5.928	5.638	5.348	4.907
<b>95</b>	11.960	19.152	17.806	19.766	22.794	27.422	33.211	44.637	56.550	70.296
<b>100</b>	70.888	75.760	80.481	89.842	104.864	121.150	143.399	171.784	197.571	206.144
<b>105</b>	192.235	192.351	211.839	230.573	250.722	294.663	335.576	365.191	394.910	387.591
<b>110</b>	479.567	483.476	504.403	513.265	584.570	616.795	668.311	695.107	650.192	544.690
<b>115</b>	1004.734	995.744	964.424	981.534	980.792	1004.421	939.217	857.704	739.117	589.384
<b>120</b>	1354.404	1337.039	1290.349	1234.043	1195.925	1092.708	993.807	862.738	722.077	591.449
<b>125</b>	1327.469	1315.162	1279.294	1221.492	1144.398	1044.081	931.329	816.826	701.336	594.790
<b>130</b>	1173.642	1164.118	1137.867	1092.882	1027.667	950.562	866.172	776.724	688.970	610.960
<b>135</b>	1044.603	1036.634	1016.612	982.207	934.519	874.280	814.703	747.887	683.530	621.122
<b>140</b>	942.999	937.918	922.583	897.376	863.713	822.405	774.474	725.046	673.461	626.214
<b>145</b>	863.353	858.783	846.394	827.045	800.319	768.744	732.818	693.518	653.996	613.918
<b>150</b>	779.543	776.133	767.700	752.712	733.120	709.270	681.709	651.874	621.018	587.981
<b>155</b>	696.302	693.935	688.576	678.113	664.541	647.535	627.490	605.276	583.805	561.846
<b>160</b>	622.990	621.818	617.851	612.376	603.826	593.688	581.775	567.495	551.986	538.843
<b>165</b>	568.934	568.168	565.976	563.192	559.259	553.285	546.615	539.319	531.442	522.302
<b>170</b>	532.080	531.454	530.213	528.728	526.907	524.749	522.290	518.648	514.796	510.748
<b>175</b>	507.187	506.943	506.700	506.166	505.690	505.168	504.588	503.962	503.289	502.593
<b>180</b>	496.480	496.480	496.480	496.480	496.480	496.480	496.480	496.480	496.480	496.480

**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>
<b>0</b>	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728	649.728
<b>5</b>	645.122	645.215	645.354	645.517	645.714	645.946	646.190	646.491	646.816
<b>10</b>	635.726	635.993	636.411	636.225	636.156	636.225	636.434	636.759	637.281
<b>15</b>	621.145	620.530	620.333	620.554	621.250	620.902	620.867	621.087	621.830
<b>20</b>	599.279	599.233	599.674	599.094	599.117	599.813	599.418	599.465	600.428
<b>25</b>	573.191	572.889	572.414	573.028	572.599	572.727	573.052	572.843	573.980
<b>30</b>	540.804	540.885	540.908	540.920	542.056	541.511	542.103	541.558	542.776
<b>35</b>	504.704	505.482	504.844	505.018	505.377	505.516	505.667	505.551	506.305
<b>40</b>	464.673	464.777	465.009	465.241	465.183	465.705	465.369	465.926	467.608
<b>45</b>	419.352	420.106	421.915	421.126	420.604	422.611	422.959	423.214	423.562
<b>50</b>	372.870	374.866	375.701	376.084	376.501	378.044	378.612	378.636	378.346
<b>55</b>	321.216	324.069	326.598	328.582	329.301	329.660	329.753	330.020	330.890
<b>60</b>	265.942	270.315	272.136	275.581	277.600	278.446	278.980	278.910	279.653

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	208.348	213.336	217.419	220.829	223.114	225.191	226.768	226.652	226.757
<b>70</b>	151.763	156.890	162.122	165.683	168.722	171.796	174.719	174.000	174.534
<b>75</b>	97.904	103.692	109.608	111.070	114.179	118.076	121.069	121.788	121.638
<b>80</b>	49.022	53.372	57.188	59.160	63.429	66.665	73.254	80.724	77.012
<b>85</b>	14.918	15.509	17.261	19.128	20.752	23.502	27.817	30.984	31.888
<b>90</b>	4.478	3.990	3.503	3.109	2.819	2.575	2.332	2.726	3.886
<b>95</b>	72.651	66.886	57.977	41.899	31.007	29.742	34.266	34.197	34.904
<b>100</b>	200.019	172.283	131.405	99.087	88.369	85.840	87.905	86.884	87.023
<b>105</b>	342.258	264.457	193.442	150.788	134.688	130.419	131.242	134.421	138.075
<b>110</b>	429.420	317.678	241.373	201.248	185.890	183.570	189.126	195.425	197.687
<b>115</b>	454.314	354.438	289.849	254.342	239.795	238.496	245.050	252.056	255.734
<b>120</b>	478.338	392.324	341.353	310.370	296.194	293.538	297.656	304.291	309.210
<b>125</b>	508.579	439.686	393.994	362.106	346.979	341.121	340.808	343.580	346.260
<b>130</b>	539.945	486.052	442.633	410.002	389.447	379.146	372.395	367.940	365.899
<b>135</b>	567.112	519.332	480.043	447.911	423.226	404.237	389.389	379.343	374.170
<b>140</b>	579.733	538.402	500.749	468.060	440.951	417.577	399.353	387.742	381.362
<b>145</b>	574.745	538.518	504.762	474.626	448.549	426.834	408.935	399.469	393.321
<b>150</b>	557.566	528.322	500.250	476.760	453.769	437.645	421.996	415.953	411.011
<b>155</b>	538.750	517.441	498.034	478.372	463.884	450.544	440.429	435.418	431.439
<b>160</b>	525.248	510.644	496.062	485.321	474.765	464.336	459.975	456.112	453.026
<b>165</b>	513.613	506.189	498.684	491.156	483.523	479.985	476.806	473.825	471.308
<b>170</b>	506.514	502.129	497.733	495.587	493.522	491.550	489.682	487.884	486.272
<b>175</b>	501.851	501.097	500.320	499.519	498.719	497.907	497.095	496.306	495.517
<b>180</b>	496.480	496.480	496.480	496.480	496.480	496.480	496.480	496.480	496.480

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	236.45	N.A.	5.10
0-30	500.31	N.A.	10.70
0-40	815.46	N.A.	17.50
0-60	1421.72	N.A.	30.40
0-80	1731.15	N.A.	37.10
0-90	1755.66	N.A.	37.60
10-90	1694.32	N.A.	36.30
20-40	579.01	N.A.	12.40
20-50	901.00	N.A.	19.30
40-70	810.37	N.A.	17.30
60-80	309.43	N.A.	6.60
70-80	105.32	N.A.	2.30
80-90	24.51	N.A.	0.50
90-110	325.35	N.A.	7.00
90-120	908.83	N.A.	19.50
90-130	1547.76	N.A.	33.10
90-150	2456.92	N.A.	52.60
90-180	2915.58	N.A.	62.40
110-180	2590.23	N.A.	55.50
0-180	4671.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.34
10-20	175.11
20-30	263.86
30-40	315.15
40-50	321.99
50-60	284.27
60-70	204.10
70-80	105.32
80-90	24.51
90-100	56.12
100-110	269.23
110-120	583.47
120-130	638.93
130-140	518.56
140-150	390.60
150-160	261.88
160-170	148.64
170-180	48.15

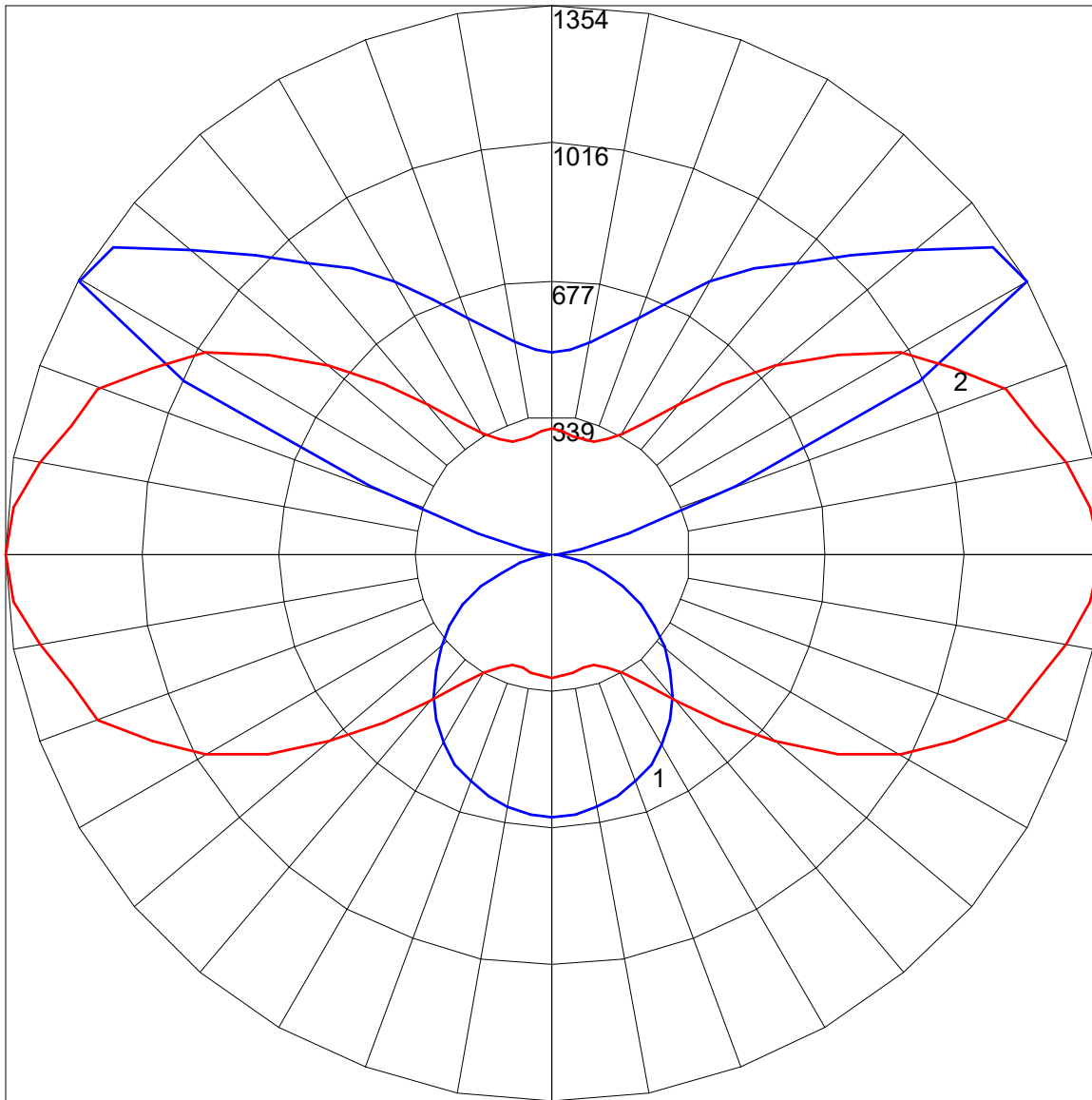
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	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	28	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 = 1354.404 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.)