

## IES Report

BoxRail<sup>®</sup> | 207 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	80
Total Lumens, 4' rail length (1219mm)	3797	3917	3997	3997
Lumens per foot (305mm)	949	979	999	999
Lumens per foot UP (305mm)	668	689	703	703
Lumens per foot DOWN (305mm)	281	290	296	296
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\_G1S2\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010912 (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-G1S2-BL

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

[MORE] 60° symmetric 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	3997
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	1779	4139	16419
55	793	1862	10090
65	392	871	5953
75	187	385	3657
85	127	157	1640

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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>	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021
<b>5</b>	1095.272	1094.541	1094.124	1093.903	1094.031	1094.448	1095.156	1096.154	1097.430	1098.972
<b>10</b>	984.608	983.552	984.712	987.299	991.545	997.414	1004.838	1010.894	1018.619	1027.830
<b>15</b>	822.324	821.257	825.479	832.671	842.624	852.507	865.952	882.841	903.014	923.395
<b>20</b>	633.975	632.838	640.482	651.444	664.007	681.883	703.830	726.891	754.278	781.492
<b>25</b>	453.896	454.871	463.049	474.127	490.854	510.968	534.296	562.240	592.296	627.084
<b>30</b>	304.929	306.391	314.105	325.612	341.388	360.099	381.338	408.448	442.273	476.145
<b>35</b>	196.806	198.174	204.114	214.206	226.270	240.607	257.613	284.490	311.576	343.986
<b>40</b>	124.654	125.883	130.268	137.263	146.032	155.475	170.996	190.089	210.714	239.575
<b>45</b>	79.541	80.411	83.624	88.195	93.508	99.528	111.905	122.890	141.091	157.737
<b>50</b>	51.922	52.618	54.624	57.536	60.714	66.074	73.080	81.409	91.698	104.887
<b>55</b>	35.299	35.670	36.992	38.674	40.287	44.103	47.386	53.464	60.355	68.602
<b>60</b>	24.024	24.209	25.021	26.112	27.364	29.360	31.796	34.823	39.834	45.808
<b>65</b>	16.820	16.948	17.168	17.899	18.931	19.697	21.367	23.420	26.262	30.021
<b>70</b>	11.090	11.055	11.820	12.284	13.027	13.665	14.326	15.486	17.249	19.581
<b>75</b>	7.494	7.656	8.526	8.514	8.712	9.106	9.524	10.011	10.858	11.948
<b>80</b>	5.928	6.252	6.438	6.310	6.380	6.450	6.554	6.728	6.774	7.041
<b>85</b>	4.570	4.942	4.791	4.652	4.501	4.501	4.176	4.153	4.176	4.188
<b>90</b>	4.791	4.907	4.907	4.860	4.768	4.617	4.524	4.327	3.990	3.700
<b>95</b>	16.147	22.446	21.158	22.226	23.942	26.610	28.234	34.406	41.528	41.876
<b>100</b>	80.318	84.088	88.288	94.633	100.259	108.089	116.116	125.558	135.395	138.191
<b>105</b>	203.220	189.764	204.160	211.526	219.588	231.930	242.962	251.592	262.056	260.084
<b>110</b>	394.876	384.702	388.124	394.609	413.540	416.637	427.274	430.209	417.171	397.056
<b>115</b>	668.114	665.225	639.566	627.200	623.326	619.718	604.383	582.401	553.645	515.365
<b>120</b>	868.318	862.715	848.969	826.198	806.583	776.701	746.240	711.544	657.894	599.732
<b>125</b>	996.962	990.106	976.036	954.715	930.726	886.530	847.612	788.707	729.373	661.177
<b>130</b>	1048.884	1042.712	1025.811	1000.419	969.598	929.496	879.663	821.512	756.332	689.922
<b>135</b>	1042.956	1037.736	1021.403	995.906	962.638	923.024	872.042	818.148	757.770	697.508
<b>140</b>	998.029	992.682	978.356	955.654	925.819	889.801	845.489	797.129	745.578	693.750
<b>145</b>	932.686	928.232	916.655	898.582	873.178	842.578	807.244	767.120	725.104	682.208
<b>150</b>	860.047	856.405	848.146	833.530	814.181	790.088	761.923	731.183	699.677	665.214
<b>155</b>	787.315	784.543	779.079	768.291	754.557	737.168	716.752	694.608	671.350	647.860
<b>160</b>	720.812	719.281	714.954	708.899	699.318	688.251	675.433	659.970	643.487	629.033
<b>165</b>	664.993	663.961	661.339	658.091	653.614	646.909	639.450	631.307	622.549	612.399
<b>170</b>	623.767	623.117	621.806	620.264	618.361	616.122	613.559	609.673	605.613	601.379
<b>175</b>	598.490	598.224	597.968	597.400	596.924	596.402	595.834	595.231	594.581	593.908
<b>180</b>	590.440	590.440	590.440	590.440	590.440	590.440	590.440	590.440	590.440	590.440

**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>	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021	1132.021
<b>5</b>	1100.770	1102.800	1105.062	1107.533	1110.201	1113.032	1115.978	1119.098	1122.300
<b>10</b>	1038.444	1050.380	1063.291	1066.504	1070.355	1074.798	1079.798	1085.250	1091.374
<b>15</b>	941.491	956.153	972.938	991.719	1013.515	1018.364	1024.477	1031.542	1040.230
<b>20</b>	809.262	838.262	868.840	889.662	913.106	940.168	946.850	955.411	967.011
<b>25</b>	665.840	700.849	734.930	772.409	799.205	826.802	847.972	855.790	868.318
<b>30</b>	515.086	556.707	596.890	635.355	675.433	702.183	732.378	739.048	752.028
<b>35</b>	381.118	419.398	459.754	499.484	536.964	568.481	596.414	608.165	618.036
<b>40</b>	267.044	297.099	331.563	369.379	401.766	433.260	457.086	473.187	485.205
<b>45</b>	182.190	206.167	235.538	263.796	292.459	320.253	337.108	347.548	353.255
<b>50</b>	119.654	138.550	160.022	182.735	205.888	225.655	240.920	251.500	255.826
<b>55</b>	80.620	93.368	107.196	123.169	139.606	153.770	165.068	173.281	177.747
<b>60</b>	53.209	61.155	72.790	82.801	94.540	105.467	113.146	117.276	119.410

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	34.928	40.774	47.363	54.439	61.654	68.243	73.764	76.954	78.474
<b>70</b>	22.469	26.228	30.694	35.299	39.440	43.639	47.514	49.683	50.657
<b>75</b>	13.560	15.753	18.409	21.042	23.931	26.344	28.420	29.684	30.531
<b>80</b>	7.586	8.306	9.512	10.486	11.762	13.456	14.720	15.312	15.556
<b>85</b>	3.898	3.689	4.037	4.559	4.431	4.536	5.069	5.556	5.348
<b>90</b>	3.306	2.970	2.680	2.378	2.088	1.844	1.554	1.415	1.462
<b>95</b>	44.672	47.200	45.576	42.154	36.482	35.252	35.542	37.456	38.315
<b>100</b>	136.834	134.514	124.306	110.873	99.934	94.053	91.605	88.995	88.682
<b>105</b>	253.019	231.791	207.385	180.496	161.078	146.647	136.114	130.581	130.396
<b>110</b>	364.031	325.368	284.966	248.658	220.342	200.518	188.152	181.784	179.208
<b>115</b>	461.390	402.682	353.371	310.497	276.405	252.196	237.638	229.251	226.270
<b>120</b>	537.660	471.679	412.693	364.576	328.060	301.844	284.641	275.210	273.134
<b>125</b>	588.340	520.828	459.685	407.462	371.200	345.158	327.190	316.982	313.780
<b>130</b>	621.192	556.545	499.252	448.862	408.842	383.914	366.757	355.992	351.805
<b>135</b>	636.770	579.780	527.881	483.882	447.018	418.992	401.476	391.407	388.554
<b>140</b>	641.619	593.943	549.295	509.310	478.094	452.435	436.021	425.778	420.546
<b>145</b>	639.937	600.010	563.540	530.654	503.765	482.653	466.900	459.221	455.161
<b>150</b>	632.931	602.156	572.425	548.065	524.993	509.878	495.958	490.471	486.666
<b>155</b>	623.871	600.996	580.139	559.839	545.525	532.730	523.172	518.369	514.866
<b>160</b>	614.034	598.131	582.598	571.822	561.417	551.325	547.056	543.356	540.537
<b>165</b>	603.026	595.405	587.795	580.244	572.715	569.305	566.347	563.586	561.347
<b>170</b>	596.982	592.482	587.992	585.939	584.025	582.204	580.499	578.886	577.483
<b>175</b>	593.212	592.482	591.739	590.997	590.243	589.489	588.712	588.004	587.308
<b>180</b>	590.440	590.440	590.440	590.440	590.440	590.440	590.440	590.440	590.440

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	360.23	N.A.	9.00
0-30	655.33	N.A.	16.40
0-40	892.07	N.A.	22.30
0-60	1121.34	N.A.	28.10
0-80	1178.48	N.A.	29.50
0-90	1184.3	N.A.	29.60
10-90	1081.24	N.A.	27.10
20-40	531.84	N.A.	13.30
20-50	680.42	N.A.	17.00
40-70	269.16	N.A.	6.70
60-80	57.14	N.A.	1.40
70-80	17.25	N.A.	0.40
80-90	5.82	N.A.	0.10
90-110	273.22	N.A.	6.80
90-120	729.09	N.A.	18.20
90-130	1305.92	N.A.	32.70
90-150	2280.17	N.A.	57.00
90-180	2812.66	N.A.	70.40
110-180	2539.44	N.A.	63.50
0-180	3996.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.06
10-20	257.18
20-30	295.09
30-40	236.74
40-50	148.58
50-60	80.69
60-70	39.89
70-80	17.25
80-90	5.82
90-100	49.08
100-110	224.14
110-120	455.87
120-130	576.82
130-140	542.63
140-150	431.62
150-160	301.09
160-170	174.51
170-180	56.89

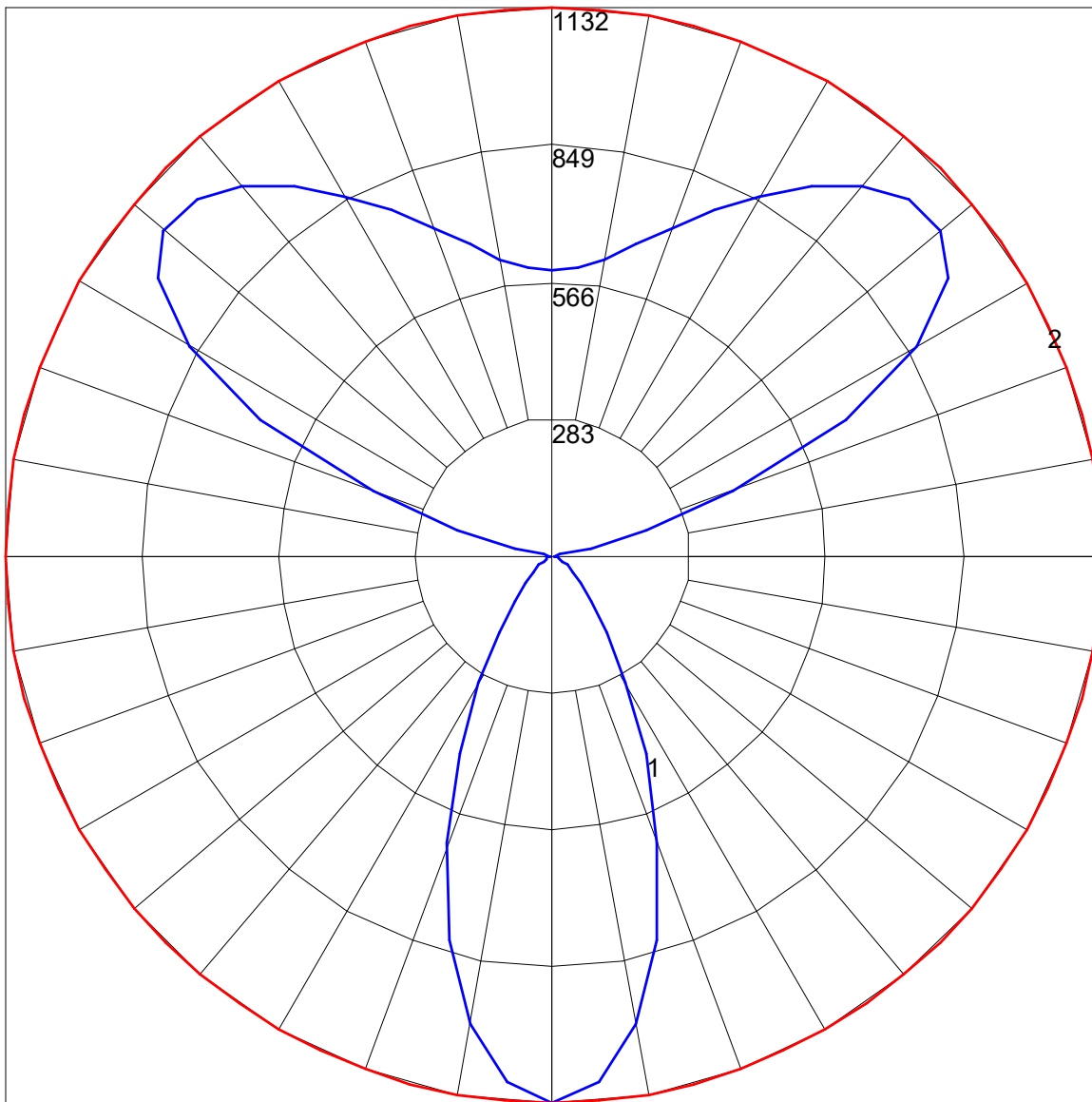
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	94	90	87	84	84	81	79	76	64	63	61	49	48	47	35	34	33	27
2	87	80	75	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24
3	80	71	65	60	72	65	59	55	52	48	45	40	38	36	29	28	27	22
4	73	64	57	52	66	58	52	48	47	43	39	37	34	32	27	25	24	20
5	68	58	50	45	61	52	46	42	43	38	35	33	31	28	25	23	22	18
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	33	36	31	28	28	25	23	21	20	18	15
8	54	43	36	32	49	40	34	29	33	28	25	26	23	21	20	18	17	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	19	17	16	13
10	48	37	30	26	43	34	28	24	28	24	21	23	20	18	18	16	14	12

POLAR GRAPH



Maximum Candela = 1132.021 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.)