

## IES Report

BoxRail® | 207 | Wide Batwing, up | Diffuse, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	71	73	75	75
Total Lumens, 4' rail length (1219mm)	7269	7498	7651	7728
Lumens per foot (305mm)	1817	1875	1913	1932
Lumens per foot UP (305mm)	1134	1170	1194	1206
Lumens per foot DOWN (305mm)	683	705	719	726
Input Power (W), 4' rail length (1219mm)	103.1	103.1	103.1	103.1
Watts per foot (305mm)	25.8	25.8	25.8	25.8
CRI	94	94	94	94

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\_HO\_359\_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-HO-359-G1D1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,

[MORE] diffuse lens down, high 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	7651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	103.13
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	15014	18018	32246
55	11402	14179	30766
65	7437	9642	28174
75	3508	4893	23865
85	470	875	16020

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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>	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209
<b>5</b>	1058.490	1058.034	1057.597	1057.331	1057.065	1056.837	1056.685	1056.590	1056.552	1056.590
<b>10</b>	1043.347	1042.568	1042.169	1041.922	1041.903	1042.131	1042.549	1041.751	1041.295	1041.143
<b>15</b>	1017.241	1016.196	1016.101	1016.462	1016.918	1015.892	1015.626	1016.120	1017.374	1017.773
<b>20</b>	982.186	981.027	981.559	982.148	981.103	981.084	981.502	980.875	981.483	981.749
<b>25</b>	938.714	937.232	937.612	936.966	937.536	937.631	937.726	939.493	937.821	937.422
<b>30</b>	885.685	884.754	885.172	884.697	884.887	885.134	885.856	885.457	885.647	885.742
<b>35</b>	822.605	821.807	821.617	822.434	822.586	823.707	824.999	824.239	825.778	826.462
<b>40</b>	750.139	749.721	749.664	750.310	751.849	754.091	754.376	756.029	758.385	759.905
<b>45</b>	671.308	671.764	672.163	673.379	674.367	675.374	677.711	681.321	682.442	686.755
<b>50</b>	592.781	592.059	591.565	592.306	593.845	595.080	598.082	600.533	602.604	607.145
<b>55</b>	507.262	506.445	507.072	507.908	506.806	503.975	505.514	509.105	514.615	522.443
<b>60</b>	417.126	416.499	414.238	407.512	405.308	405.308	408.576	412.205	419.273	427.709
<b>65</b>	319.162	318.364	306.717	303.658	305.121	309.111	313.956	318.231	325.071	332.253
<b>70</b>	223.763	214.320	210.482	216.125	220.305	223.516	225.777	226.803	232.085	240.540
<b>75</b>	140.467	129.599	136.363	138.035	137.655	138.016	138.795	140.277	145.863	151.810
<b>80</b>	64.030	64.600	66.025	67.507	68.115	69.084	69.939	71.725	73.834	76.551
<b>85</b>	16.891	20.026	17.936	17.651	17.594	18.468	17.366	19.703	21.679	23.313
<b>90</b>	9.747	9.956	9.956	10.108	10.032	9.880	9.709	9.234	8.759	8.037
<b>95</b>	19.589	31.369	29.165	32.376	37.335	44.916	54.397	73.112	92.625	115.140
<b>100</b>	116.109	124.089	131.822	147.155	171.760	198.436	234.878	281.371	323.608	337.649
<b>105</b>	314.868	315.058	346.978	377.663	410.666	482.638	549.651	598.158	646.836	634.847
<b>110</b>	785.498	791.901	826.177	840.693	957.486	1010.268	1094.647	1138.537	1064.969	892.164
<b>115</b>	1645.685	1630.960	1579.660	1607.685	1606.469	1645.172	1538.373	1404.860	1210.623	965.371
<b>120</b>	2218.421	2189.978	2113.503	2021.277	1958.843	1789.781	1627.787	1413.106	1182.712	968.753
<b>125</b>	2174.303	2154.144	2095.396	2000.719	1874.445	1710.133	1525.453	1337.904	1148.740	974.225
<b>130</b>	1922.344	1906.745	1863.748	1790.066	1683.248	1556.955	1418.730	1272.221	1128.486	1000.711
<b>135</b>	1710.988	1697.935	1665.141	1608.787	1530.678	1432.011	1334.427	1224.987	1119.575	1017.355
<b>140</b>	1544.567	1536.245	1511.127	1469.840	1414.702	1347.043	1268.535	1187.576	1103.083	1025.696
<b>145</b>	1414.113	1406.627	1386.335	1354.643	1310.867	1259.149	1200.306	1135.934	1071.201	1005.556
<b>150</b>	1276.838	1271.252	1257.439	1232.891	1200.800	1161.736	1116.592	1067.724	1017.184	963.072
<b>155</b>	1140.494	1136.618	1127.840	1110.702	1088.472	1060.618	1027.786	991.401	956.232	920.265
<b>160</b>	1020.414	1018.495	1011.997	1003.029	989.026	972.420	952.907	929.518	904.115	882.588
<b>165</b>	931.874	930.620	927.029	922.469	916.028	906.243	895.318	883.367	870.466	855.494
<b>170</b>	871.511	870.485	868.452	866.020	863.037	859.503	855.475	849.509	843.201	836.570
<b>175</b>	830.737	830.338	829.939	829.065	828.286	827.431	826.481	825.455	824.353	823.213
<b>180</b>	813.200	813.200	813.200	813.200	813.200	813.200	813.200	813.200	813.200	813.200

**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>	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209	1064.209
<b>5</b>	1056.666	1056.818	1057.046	1057.312	1057.635	1058.015	1058.414	1058.908	1059.440
<b>10</b>	1041.276	1041.713	1042.397	1042.093	1041.979	1042.093	1042.435	1042.967	1043.822
<b>15</b>	1017.393	1016.386	1016.063	1016.424	1017.564	1016.994	1016.937	1017.298	1018.514
<b>20</b>	981.578	981.502	982.224	981.274	981.312	982.452	981.806	981.882	983.459
<b>25</b>	938.847	938.353	937.574	938.581	937.878	938.087	938.619	938.277	940.139
<b>30</b>	885.799	885.932	885.970	885.989	887.851	886.958	887.927	887.034	889.029
<b>35</b>	826.671	827.944	826.899	827.184	827.773	828.001	828.248	828.058	829.293
<b>40</b>	761.102	761.273	761.653	762.033	761.938	762.793	762.242	763.154	765.909
<b>45</b>	686.869	688.104	691.068	689.776	688.921	692.208	692.778	693.196	693.766
<b>50</b>	610.736	614.004	615.372	615.999	616.683	619.210	620.141	620.179	619.704
<b>55</b>	526.129	530.803	534.945	538.194	539.372	539.961	540.113	540.550	541.975
<b>60</b>	435.594	442.757	445.740	451.383	454.689	456.076	456.950	456.836	458.052

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	341.259	349.429	356.117	361.703	365.446	368.847	371.431	371.241	371.412
<b>70</b>	248.577	256.975	265.544	271.377	276.355	281.390	286.178	285.000	285.874
<b>75</b>	160.360	169.841	179.531	181.925	187.017	193.401	198.303	199.481	199.234
<b>80</b>	80.294	87.419	93.670	96.900	103.892	109.193	119.985	132.221	126.141
<b>85</b>	24.434	25.403	28.272	31.331	33.991	38.494	45.562	50.749	52.231
<b>90</b>	7.334	6.536	5.738	5.092	4.617	4.218	3.819	4.465	6.365
<b>95</b>	118.997	109.554	94.962	68.628	50.787	48.716	56.126	56.012	57.171
<b>100</b>	327.617	282.188	215.232	162.298	144.742	140.600	143.982	142.310	142.538
<b>105</b>	560.595	433.162	316.844	246.981	220.609	213.617	214.966	220.172	226.157
<b>110</b>	703.361	520.334	395.352	329.631	304.475	300.675	309.776	320.093	323.798
<b>115</b>	744.135	580.545	474.753	416.594	392.768	390.640	401.375	412.851	418.874
<b>120</b>	783.484	642.599	559.113	508.364	485.146	480.795	487.540	498.408	506.464
<b>125</b>	833.017	720.176	645.335	593.104	568.328	558.733	558.220	562.761	567.150
<b>130</b>	884.393	796.119	725.002	671.555	637.887	621.015	609.957	602.661	599.317
<b>135</b>	928.891	850.630	786.277	733.647	693.215	662.112	637.792	621.338	612.864
<b>140</b>	949.563	881.866	820.192	766.650	722.247	683.962	654.113	635.094	624.644
<b>145</b>	941.393	882.056	826.766	777.404	734.692	699.124	669.807	654.303	644.233
<b>150</b>	913.254	865.355	819.375	780.900	743.242	716.832	691.201	681.302	673.208
<b>155</b>	882.436	847.533	815.746	783.541	759.810	737.960	721.392	713.184	706.667
<b>160</b>	860.320	836.399	812.516	794.922	777.632	760.551	753.407	747.080	742.026
<b>165</b>	841.263	829.103	816.810	804.479	791.977	786.182	780.976	776.093	771.970
<b>170</b>	829.635	822.453	815.252	811.737	808.355	805.125	802.066	799.121	796.480
<b>175</b>	821.997	820.762	819.489	818.178	816.867	815.537	814.207	812.915	811.623
<b>180</b>	813.200	813.200	813.200	813.200	813.200	813.200	813.200	813.200	813.200

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	387.29	N.A.	5.10
0-30	819.47	N.A.	10.70
0-40	1335.67	N.A.	17.50
0-60	2328.69	N.A.	30.40
0-80	2835.5	N.A.	37.10
0-90	2875.65	N.A.	37.60
10-90	2775.18	N.A.	36.30
20-40	948.38	N.A.	12.40
20-50	1475.78	N.A.	19.30
40-70	1327.32	N.A.	17.30
60-80	506.82	N.A.	6.60
70-80	172.51	N.A.	2.30
80-90	40.15	N.A.	0.50
90-110	532.90	N.A.	7.00
90-120	1488.59	N.A.	19.50
90-130	2535.12	N.A.	33.10
90-150	4024.26	N.A.	52.60
90-180	4775.53	N.A.	62.40
110-180	4242.62	N.A.	55.50
0-180	7651.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.47
10-20	286.82
20-30	432.18
30-40	516.20
40-50	527.41
50-60	465.61
60-70	334.31
70-80	172.51
80-90	40.15
90-100	91.93
100-110	440.98
110-120	955.69
120-130	1046.52
130-140	849.37
140-150	639.78
150-160	428.94
160-170	243.46
170-180	78.87

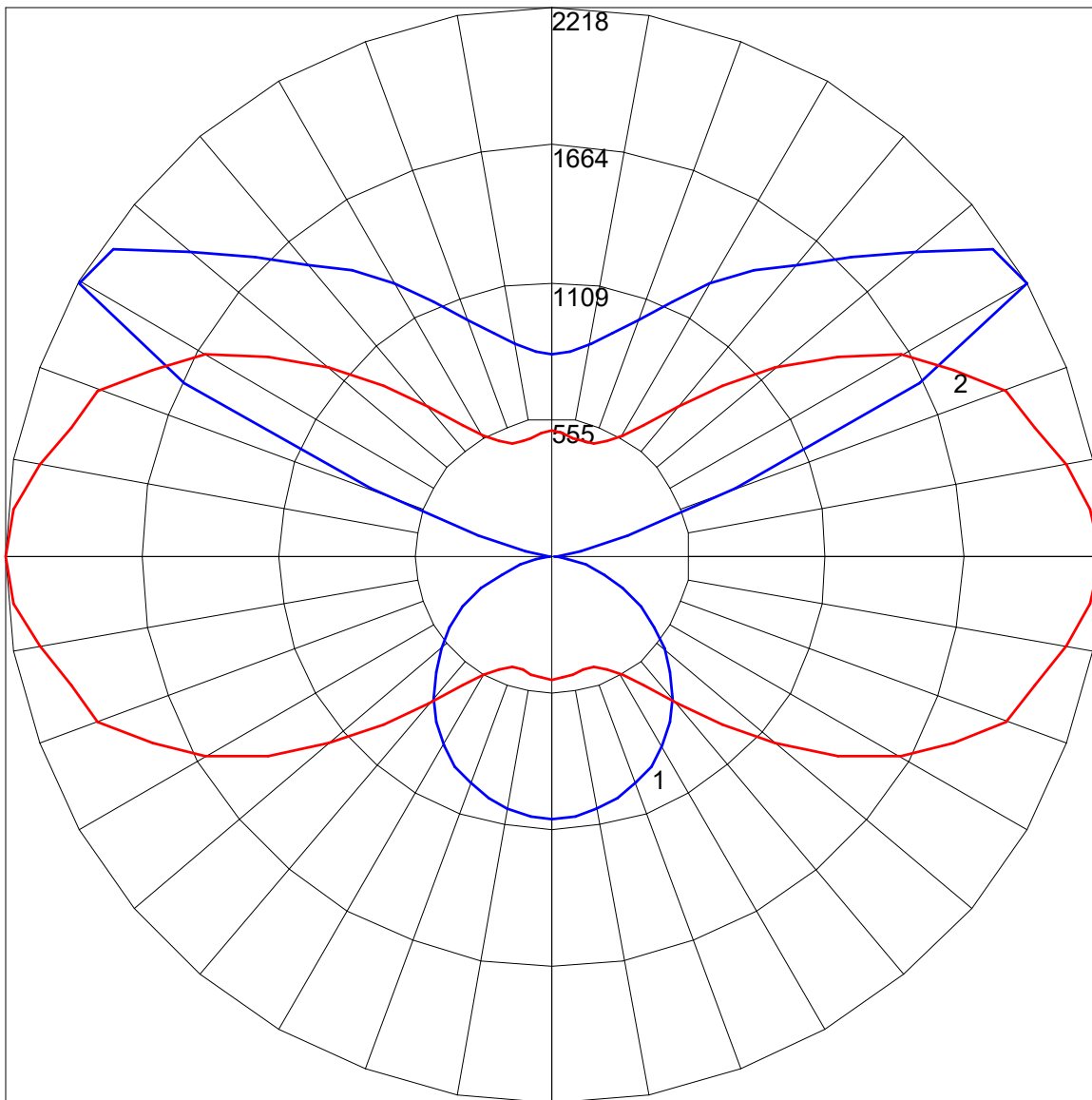
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2218.421 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.)