

## IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 80 CRI | SO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	119	122	122
Total Lumens, 4' rail length (1219mm)	5811	5994	6117	6117
Lumens per foot (305mm)	1453	1499	1529	1529
Lumens per foot UP (305mm)	683	705	719	719
Lumens per foot DOWN (305mm)	770	794	810	810
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\_G1G2\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010914 (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-G1G2-BL

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

[MORE] 120° flywing 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	6117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	50.52
Ballast Factor	1.00
CIE Type	General Diffuse
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	22421	23210	27754
55	16339	18412	26445
65	9747	11645	24009
75	2987	4835	18322
85	238	453	6471

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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>	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171
<b>5</b>	1035.172	1034.384	1033.583	1032.388	1031.286	1030.115	1028.897	1027.621	1026.310	1024.976
<b>10</b>	1074.357	1072.687	1070.065	1067.061	1063.500	1059.428	1054.846	1047.631	1040.253	1032.678
<b>15</b>	1127.740	1125.212	1120.815	1115.526	1108.345	1097.012	1084.844	1071.944	1058.419	1042.492
<b>20</b>	1176.750	1173.479	1167.969	1160.162	1146.892	1132.346	1115.816	1095.214	1074.067	1052.143
<b>25</b>	1206.110	1202.027	1196.772	1185.207	1171.600	1153.910	1133.076	1111.674	1081.746	1050.624
<b>30</b>	1203.581	1200.206	1194.777	1183.490	1169.558	1152.344	1132.369	1104.482	1072.455	1037.156
<b>35</b>	1168.781	1165.034	1158.921	1150.743	1137.554	1122.880	1105.492	1074.404	1043.803	1006.497
<b>40</b>	1099.541	1097.244	1091.792	1084.206	1075.448	1065.379	1044.951	1020.754	993.076	954.924
<b>45</b>	1002.507	1000.813	996.776	991.359	984.620	977.080	960.364	944.379	913.987	884.628
<b>50</b>	874.443	872.042	869.617	868.214	868.109	863.585	853.598	839.956	816.779	786.573
<b>55</b>	726.937	726.125	726.798	726.624	721.381	714.467	711.335	703.053	693.216	678.426
<b>60</b>	575.348	574.014	571.312	561.510	557.020	554.086	554.712	552.612	548.854	539.574
<b>65</b>	418.308	416.173	397.544	394.156	398.042	402.427	406.661	405.652	403.541	401.267
<b>70</b>	250.966	241.280	236.083	241.999	251.732	258.170	262.021	266.719	271.405	272.635
<b>75</b>	119.596	110.188	120.188	124.039	127.148	131.382	134.142	136.138	144.582	150.011
<b>80</b>	28.490	35.206	34.046	36.285	38.036	41.238	44.405	49.578	53.696	62.130
<b>85</b>	8.561	10.162	9.582	9.373	9.222	9.466	8.862	9.303	10.278	12.076
<b>90</b>	8.074	8.213	8.213	8.166	8.166	8.074	7.969	7.679	7.250	6.763
<b>95</b>	13.421	20.451	18.630	20.474	23.478	27.608	32.503	45.437	51.260	67.709
<b>100</b>	67.872	74.263	79.692	88.984	103.252	118.297	137.762	160.277	180.809	188.013
<b>105</b>	178.327	181.598	200.866	217.570	237.823	275.674	311.228	336.110	354.461	341.840
<b>110</b>	408.877	416.301	437.703	453.050	513.567	548.808	586.693	609.360	584.130	494.427
<b>115</b>	847.798	845.431	837.149	870.499	867.924	904.371	854.491	792.732	695.675	568.365
<b>120</b>	1238.787	1225.320	1189.000	1147.054	1117.996	1031.948	949.599	838.228	710.651	590.092
<b>125</b>	1289.549	1275.223	1241.177	1190.415	1128.715	1029.778	925.831	817.777	707.635	605.253
<b>130</b>	1178.398	1169.268	1143.122	1099.065	1035.346	960.758	879.756	792.268	706.823	628.465
<b>135</b>	1068.824	1063.047	1041.170	1007.147	960.654	903.176	842.601	775.901	709.514	644.914
<b>140</b>	985.385	980.049	963.125	936.503	901.633	858.980	809.077	757.596	703.807	651.050
<b>145</b>	909.544	904.672	891.158	870.093	841.081	807.140	769.080	725.371	681.709	637.072
<b>150</b>	823.101	818.960	809.019	791.700	769.150	742.017	711.254	677.765	643.000	606.262
<b>155</b>	726.056	723.190	716.845	704.967	689.504	670.248	647.698	622.734	598.514	573.666
<b>160</b>	639.624	638.046	633.836	627.525	617.839	606.367	592.934	576.972	559.526	544.782
<b>165</b>	576.021	574.826	572.367	569.073	564.595	558.157	550.849	542.729	533.844	523.578
<b>170</b>	532.950	532.266	531.083	529.552	527.626	525.318	522.626	518.682	514.518	510.133
<b>175</b>	506.305	505.969	505.540	505.122	504.600	504.020	503.394	502.721	502.013	501.271
<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>	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171	1021.171
<b>5</b>	1023.630	1022.273	1020.916	1019.582	1018.271	1016.984	1015.684	1014.524	1013.399
<b>10</b>	1024.988	1017.216	1009.571	1005.697	1002.078	998.714	995.616	992.740	990.350
<b>15</b>	1027.087	1013.562	1000.326	987.473	974.841	968.693	963.357	958.543	954.854
<b>20</b>	1028.328	1003.214	979.063	960.422	942.918	926.376	918.848	912.468	908.083
<b>25</b>	1019.594	986.742	954.355	923.569	900.241	879.640	864.444	856.567	851.591
<b>30</b>	998.609	958.926	919.776	883.062	849.340	825.769	804.889	796.328	791.306
<b>35</b>	963.276	920.448	874.559	832.439	795.134	765.960	743.943	732.273	725.766
<b>40</b>	913.129	864.931	817.893	772.050	733.642	701.823	680.317	666.930	660.237
<b>45</b>	839.260	795.806	749.244	704.596	666.130	635.460	615.519	603.038	597.122
<b>50</b>	751.842	710.326	667.916	627.757	592.215	566.625	548.784	537.208	531.396
<b>55</b>	645.285	611.285	577.262	541.708	513.718	491.991	476.435	467.921	465.856
<b>60</b>	524.726	503.243	474.011	446.252	424.954	409.225	398.831	392.382	389.922

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	396.012	381.895	364.797	350.459	338.534	328.698	322.782	318.142	316.506
<b>70</b>	271.649	268.494	262.624	255.536	249.586	242.637	238.635	236.698	235.213
<b>75</b>	155.568	161.948	162.435	158.827	157.087	156.264	151.995	150.464	152.958
<b>80</b>	63.000	68.475	72.709	79.506	86.977	87.012	85.399	83.926	84.112
<b>85</b>	13.642	14.036	14.836	17.087	18.270	19.476	20.056	20.567	21.100
<b>90</b>	6.229	5.638	5.058	4.478	3.886	3.306	2.819	2.680	2.819
<b>95</b>	68.544	63.939	57.060	37.955	29.522	27.933	31.216	34.498	36.563
<b>100</b>	179.730	151.496	118.355	88.090	80.748	86.513	87.267	87.800	87.220
<b>105</b>	302.273	241.373	181.192	144.362	131.068	129.630	131.985	135.836	139.536
<b>110</b>	397.625	305.985	236.536	199.149	185.113	184.301	189.962	195.727	198.754
<b>115</b>	440.916	350.332	290.534	255.768	241.709	240.491	245.816	252.625	256.406
<b>120</b>	480.530	390.398	345.332	314.395	299.222	296.090	299.906	305.335	308.827
<b>125</b>	520.330	451.333	402.868	370.214	351.724	344.450	343.372	345.088	346.550
<b>130</b>	556.475	499.450	454.488	420.616	395.989	382.928	374.367	368.752	365.992
<b>135</b>	586.832	535.943	492.942	457.933	430.488	408.703	392.103	380.515	373.868
<b>140</b>	599.813	554.793	513.358	476.806	446.403	420.175	400.606	388.055	380.967
<b>145</b>	593.502	553.332	515.376	481.539	452.272	428.365	408.993	398.773	392.150
<b>150</b>	572.309	539.284	507.488	481.040	455.149	438.202	421.625	414.990	409.457
<b>155</b>	547.474	523.670	502.094	480.020	464.510	450.474	439.802	434.281	429.780
<b>160</b>	529.505	513.184	496.990	485.657	474.405	463.014	458.687	454.685	451.472
<b>165</b>	513.996	506.131	498.185	490.216	481.957	478.720	475.704	472.886	470.531
<b>170</b>	505.551	500.818	496.028	493.916	491.875	489.926	488.070	486.295	484.718
<b>175</b>	500.494	499.693	498.870	498.046	497.211	496.387	495.529	494.740	493.963
<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	393.25	N.A.	6.40
0-30	871.95	N.A.	14.30
0-40	1480.14	N.A.	24.20
0-60	2683.13	N.A.	43.90
0-80	3215.15	N.A.	52.60
0-90	3240.4	N.A.	53.00
10-90	3142.34	N.A.	51.40
20-40	1086.89	N.A.	17.80
20-50	1730.03	N.A.	28.30
40-70	1577.12	N.A.	25.80
60-80	532.01	N.A.	8.70
70-80	157.88	N.A.	2.60
80-90	25.25	N.A.	0.40
90-110	302.28	N.A.	4.90
90-120	843.39	N.A.	13.80
90-130	1474.8	N.A.	24.10
90-150	2410.75	N.A.	39.40
90-180	2876.23	N.A.	47.00
110-180	2573.96	N.A.	42.10
0-180	6116.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	98.06
10-20	295.19
20-30	478.70
30-40	608.19
40-50	643.14
50-60	559.86
60-70	374.13
70-80	157.88
80-90	25.25
90-100	53.91
100-110	248.36
110-120	541.11
120-130	631.42
130-140	531.58
140-150	404.36
150-160	267.96
160-170	149.45
170-180	48.07

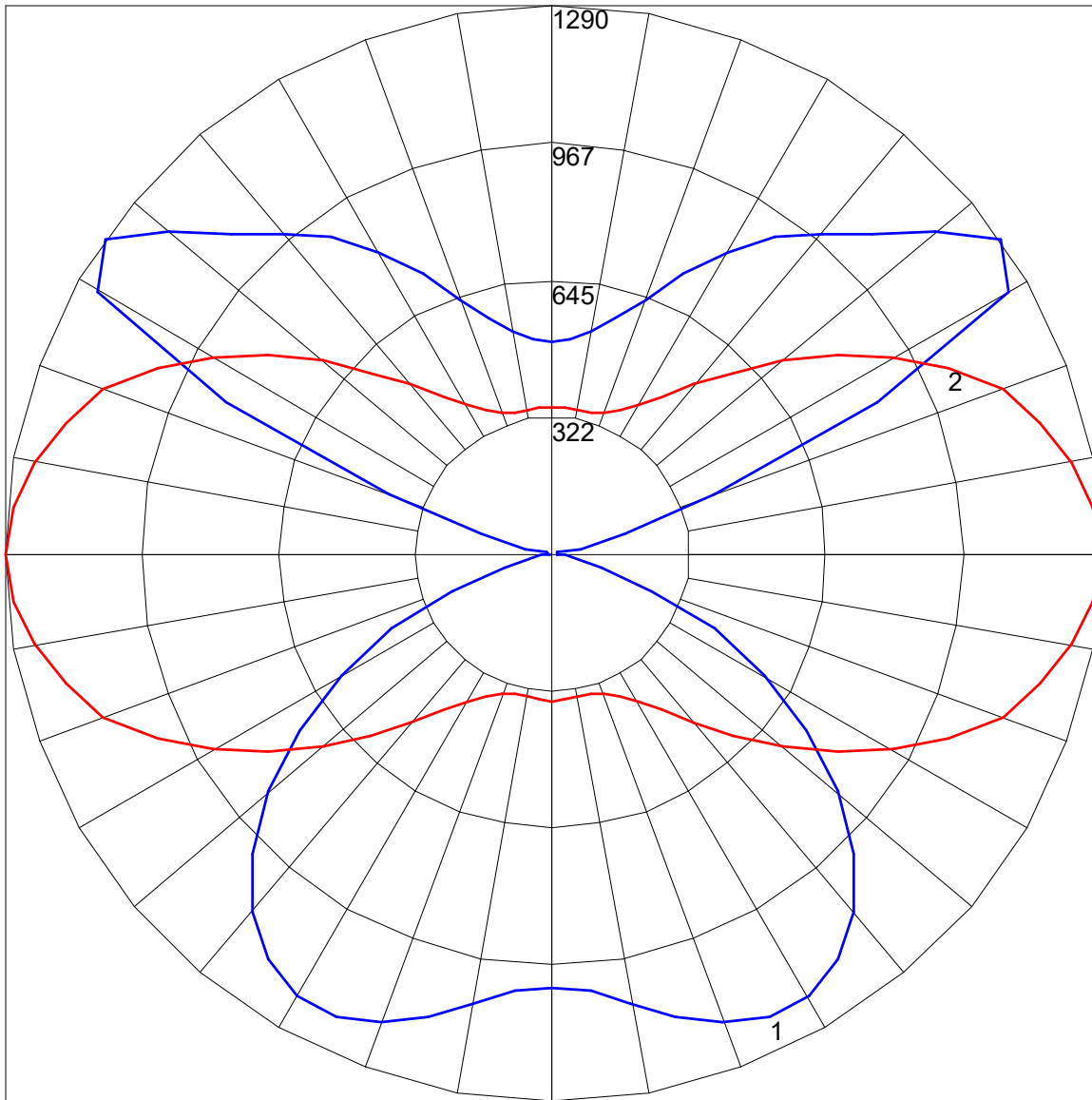
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50	45
2	90	83	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	29	24	31	25	21	27	22	19	23	19	16	14
10	47	35	27	23	43	33	26	21	28	23	19	25	20	17	21	17	15	13

POLAR GRAPH



Maximum Candela = 1289.549 Located At Horizontal Angle = 0, Vertical Angle = 125  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)