

IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-G1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	89	90
Total Lumens, 4' rail length (1219mm)	4359	4497	4589	4634
Lumens per foot (305mm)	1090	1124	1147	1159
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
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_G1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (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-G1-BL

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

[MORE] 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	4589
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
90	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289
95	26.125	35.321	33.630	35.644	39.254	45.296	48.716	62.016	80.446	80.940
100	126.768	135.717	143.013	156.598	171.931	189.734	209.836	232.161	250.059	265.620
105	308.978	325.090	343.007	361.494	384.047	417.601	447.412	467.951	478.914	473.803
110	595.973	607.981	635.949	657.001	685.615	708.719	708.263	726.921	713.659	681.340
115	951.140	957.125	984.922	1001.813	1013.118	1023.815	1016.139	987.677	945.611	877.819
120	1314.572	1310.753	1320.633	1320.937	1321.735	1293.520	1259.377	1208.134	1117.352	1019.749
125	1594.879	1586.158	1573.618	1550.875	1529.652	1474.951	1420.687	1327.264	1230.801	1120.981
130	1743.326	1734.130	1707.663	1668.086	1624.443	1563.776	1483.444	1391.237	1284.780	1172.167
135	1774.543	1766.088	1739.298	1691.950	1635.729	1572.440	1486.636	1397.184	1293.786	1189.609
140	1720.070	1710.437	1685.262	1642.493	1586.063	1522.071	1446.565	1363.136	1274.672	1183.852
145	1612.416	1604.360	1582.491	1546.562	1495.851	1439.231	1377.576	1307.941	1234.430	1159.342
150	1479.264	1472.861	1456.312	1424.126	1386.487	1343.794	1294.869	1241.156	1185.068	1124.192
155	1341.970	1336.954	1326.827	1304.996	1277.826	1246.039	1209.901	1170.495	1128.752	1086.439
160	1215.202	1213.226	1204.391	1192.915	1174.694	1153.813	1130.063	1102.285	1072.569	1046.140
165	1106.256	1104.850	1099.568	1093.355	1084.786	1072.322	1058.395	1043.138	1026.665	1007.969
170	1022.808	1021.858	1019.255	1016.291	1012.586	1008.140	1002.991	995.695	987.886	979.583
175	968.981	968.563	968.164	967.005	966.036	964.915	963.642	962.255	960.735	959.101
180	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

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>	<u>95</u>
90	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289
95	87.400	87.875	88.863	84.227	74.727	67.507	65.322	63.726	60.838	62.453
100	262.504	248.748	224.656	196.099	170.848	155.800	147.421	144.685	142.234	143.868
105	447.317	403.332	357.371	312.531	271.814	244.625	225.967	213.636	210.710	215.460
110	625.879	557.061	487.844	424.137	369.170	331.645	309.301	296.457	293.208	296.134
115	791.901	685.938	600.267	525.198	461.871	418.000	391.381	373.749	369.341	372.723
120	914.071	805.182	698.953	616.056	550.088	500.764	468.179	451.326	445.303	447.032
125	999.894	886.274	780.672	691.733	623.352	572.812	538.517	519.612	511.404	516.211
130	1055.621	946.029	846.051	758.271	686.090	637.640	604.105	582.635	573.040	578.379
135	1083.570	983.839	891.290	813.086	746.548	693.272	661.314	642.314	634.353	638.780
140	1091.854	1005.974	925.490	853.974	796.537	748.163	716.452	696.654	686.755	691.296
145	1085.071	1013.935	947.226	887.015	837.159	797.696	768.018	750.709	738.834	744.420
150	1066.926	1011.313	956.840	911.430	868.300	838.888	811.262	798.266	787.892	793.079
155	1043.157	1001.813	963.452	925.471	897.598	872.461	853.252	842.669	834.081	838.090
160	1018.666	989.596	961.039	940.025	919.296	899.004	889.523	881.182	874.209	877.705
165	990.527	975.954	961.267	946.599	932.007	924.806	918.346	912.095	906.547	909.264
170	970.862	961.780	952.622	948.366	944.357	940.538	936.928	933.470	930.278	932.064
175	957.372	955.548	953.667	951.729	949.753	947.758	945.687	943.711	941.735	942.514
180	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
90	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289	6.289
95	57.019	44.156	46.455	54.131	57.969	57.190	54.796	54.340	49.761	44.023
100	147.269	150.993	156.028	162.374	178.372	170.316	162.621	163.647	167.637	159.087
105	222.300	236.835	257.298	290.092	325.603	348.327	346.997	335.122	329.916	311.239
110	306.926	325.451	355.015	396.929	453.929	515.546	569.962	601.065	620.236	629.546
115	385.415	407.664	443.631	495.558	564.091	638.039	711.778	798.532	862.733	910.898
120	461.225	486.932	526.053	580.146	649.325	742.463	845.747	941.032	1029.306	1111.576
125	531.297	557.593	595.327	642.694	723.007	819.527	925.490	1040.725	1150.336	1247.711

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CANDELA TABULATION - (Cont.)

130	594.643	620.654	658.711	710.467	787.550	875.121	974.358	1083.000	1194.359	1306.364
135	649.819	671.441	715.692	770.564	835.221	913.349	1002.421	1099.530	1199.641	1300.588
140	704.615	728.593	766.973	813.029	871.245	939.170	1014.315	1097.991	1181.097	1264.982
145	755.402	778.259	809.020	848.141	896.743	951.615	1014.049	1080.587	1148.645	1216.095
150	800.850	821.427	843.714	877.572	913.862	959.006	1005.366	1054.766	1109.201	1158.848
155	844.170	857.774	876.489	897.541	927.580	958.189	992.199	1028.717	1064.323	1099.720
160	882.550	887.908	902.823	917.852	933.470	956.270	979.792	1001.775	1022.618	1047.033
165	912.741	916.579	920.683	931.722	942.286	952.812	963.205	976.391	990.983	1003.770
170	934.078	936.168	938.372	940.652	942.989	948.841	954.693	960.450	966.074	971.508
175	943.312	944.205	945.079	945.972	946.846	947.739	948.613	949.487	950.323	951.140
180	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
90	6.289	6.289	6.289	6.289	6.289	6.289	6.289
95	41.667	41.857	42.275	41.059	39.976	42.674	39.824
100	155.211	154.603	150.062	145.065	140.562	135.945	136.021
105	313.272	312.759	308.712	309.244	304.912	271.776	332.557
110	606.784	606.309	598.215	536.465	562.134	596.125	625.271
115	947.245	986.404	983.820	1005.499	1042.549	1142.755	1155.960
120	1178.912	1239.940	1304.673	1370.470	1448.446	1485.781	1500.601
125	1357.607	1429.465	1524.066	1581.389	1627.217	1662.880	1677.396
130	1406.703	1499.917	1573.960	1630.219	1681.690	1720.203	1733.769
135	1391.294	1477.820	1547.303	1607.571	1657.693	1693.261	1702.552
140	1344.744	1418.597	1480.214	1534.478	1578.064	1604.683	1613.366
145	1280.239	1338.398	1389.736	1433.018	1466.762	1488.574	1496.459
150	1207.127	1251.967	1290.784	1323.103	1348.905	1362.927	1368.722
155	1134.566	1166.695	1194.321	1216.608	1234.278	1243.132	1247.692
160	1070.156	1089.821	1106.959	1121.836	1131.127	1136.922	1140.019
165	1015.778	1026.912	1037.039	1043.784	1048.629	1052.049	1054.025
170	976.771	980.419	983.611	986.309	988.494	990.147	991.268
175	951.919	952.660	953.363	954.009	954.598	955.130	955.586
180	946.200	946.200	946.200	946.200	946.200	946.200	946.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	435.96	N.A.	9.50
90-120	1173.12	N.A.	25.60
90-130	2117.83	N.A.	46.20
90-150	3722.16	N.A.	81.10
90-180	4588.54	N.A.	100.00
110-180	4152.58	N.A.	90.50
0-180	4588.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	79.10
100-110	356.86
110-120	737.16
120-130	944.71
130-140	893.99
140-150	710.35
150-160	491.99
160-170	282.88
170-180	91.50

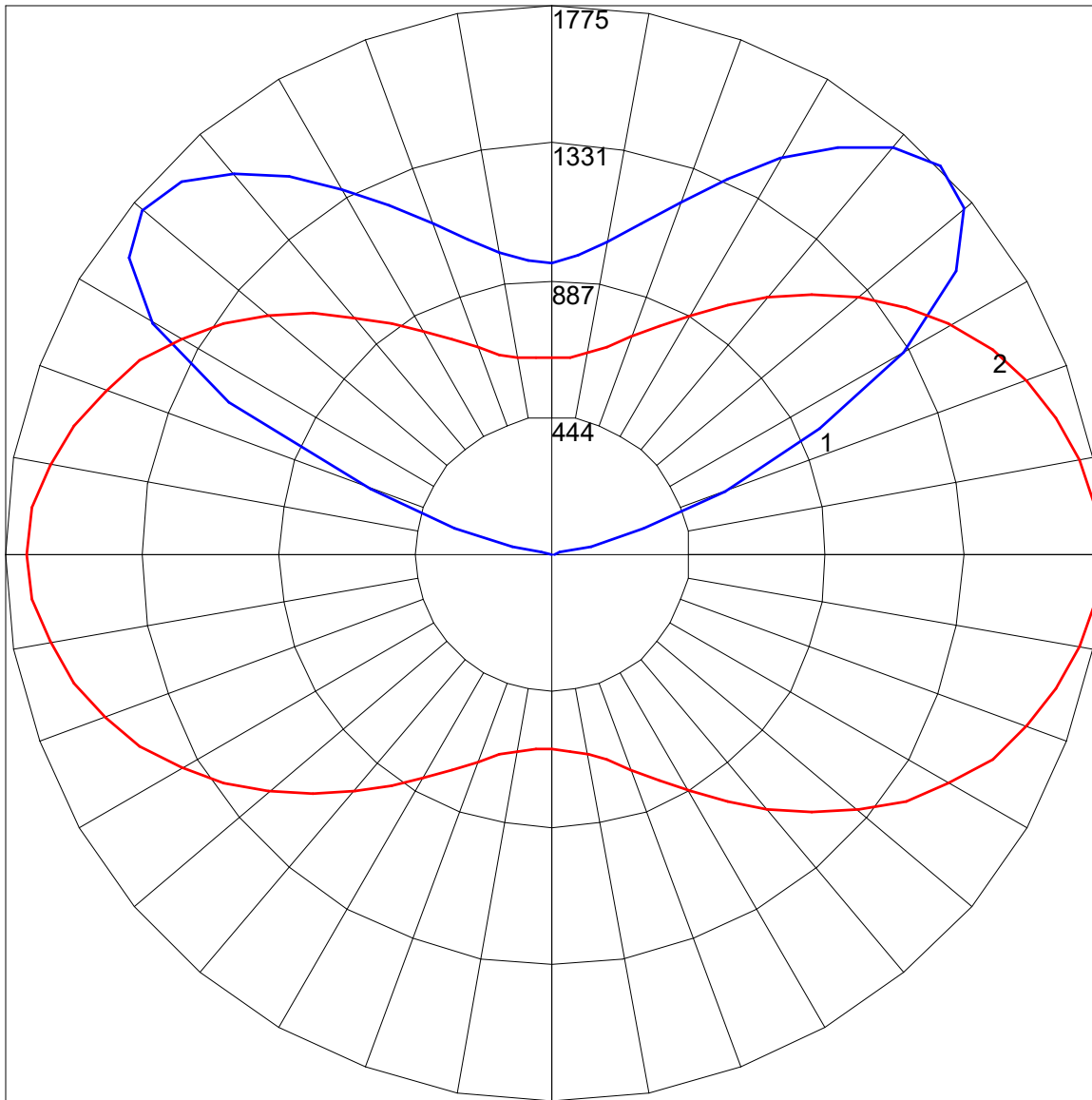
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1774.543 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)