

IES Report

BoxRail® | 207 | Wide Batwing, up | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-G1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	104
Total Lumens, 4' rail length (1219mm)	5057	5216	5323	5323
Lumens per foot (305mm)	1264	1304	1331	1331
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	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_HO_35_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-35-G1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	5313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282
95	30.250	40.898	38.940	41.272	45.452	52.448	56.408	71.808	93.148	93.720
100	146.784	157.146	165.594	181.324	199.078	219.692	242.968	268.818	289.542	307.560
105	357.764	376.420	397.166	418.572	444.686	483.538	518.056	541.838	554.532	548.614
110	690.074	703.978	736.362	760.738	793.870	820.622	820.094	841.698	826.342	788.920
115	1101.320	1108.250	1140.436	1159.994	1173.084	1185.470	1176.582	1143.626	1094.918	1016.422
120	1522.136	1517.714	1529.154	1529.506	1530.430	1497.760	1458.226	1398.892	1293.776	1180.762
125	1846.702	1836.604	1822.084	1795.750	1771.176	1707.838	1645.006	1536.832	1425.138	1297.978
130	2018.588	2007.940	1977.294	1931.468	1880.934	1810.688	1717.672	1610.906	1487.640	1357.246
135	2054.734	2044.944	2013.924	1959.100	1894.002	1820.720	1721.368	1617.792	1498.068	1377.442
140	1991.660	1980.506	1951.356	1901.834	1836.494	1762.398	1674.970	1578.368	1475.936	1370.776
145	1867.008	1857.680	1832.358	1790.756	1732.038	1666.478	1595.088	1514.458	1429.340	1342.396
150	1712.832	1705.418	1686.256	1648.988	1605.406	1555.972	1499.322	1437.128	1372.184	1301.696
155	1553.860	1548.052	1536.326	1511.048	1479.588	1442.782	1400.938	1355.310	1306.976	1257.982
160	1407.076	1404.788	1394.558	1381.270	1360.172	1335.994	1308.494	1276.330	1241.922	1211.320
165	1280.928	1279.300	1273.184	1265.990	1256.068	1241.636	1225.510	1207.844	1188.770	1167.122
170	1184.304	1183.204	1180.190	1176.758	1172.468	1167.320	1161.358	1152.910	1143.868	1134.254
175	1121.978	1121.494	1121.032	1119.690	1118.568	1117.270	1115.796	1114.190	1112.430	1110.538
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282
95	101.200	101.750	102.894	97.526	86.526	78.166	75.636	73.788	70.444	72.314
100	303.952	288.024	260.128	227.062	197.824	180.400	170.698	167.530	164.692	166.584
105	517.946	467.016	413.798	361.878	314.732	283.250	261.646	247.368	243.980	249.480
110	724.702	645.018	564.872	491.106	427.460	384.010	358.138	343.266	339.504	342.892
115	916.938	794.244	695.046	608.124	534.798	484.000	453.178	432.762	427.658	431.574
120	1058.398	932.316	809.314	713.328	636.944	579.832	542.102	522.588	515.614	517.616
125	1157.772	1026.212	903.936	800.954	721.776	663.256	623.546	601.656	592.152	597.718
130	1222.298	1095.402	979.638	877.998	794.420	738.320	699.490	674.630	663.520	669.702
135	1254.660	1139.182	1032.020	941.468	864.424	802.736	765.732	743.732	734.514	739.640
140	1264.252	1164.812	1071.620	988.812	922.306	866.294	829.576	806.652	795.190	800.448
145	1256.398	1174.030	1096.788	1027.070	969.342	923.648	889.284	869.242	855.492	861.960
150	1235.388	1170.994	1107.920	1055.340	1005.400	971.344	939.356	924.308	912.296	918.302
155	1207.866	1159.994	1115.576	1071.598	1039.324	1010.218	987.976	975.722	965.778	970.420
160	1179.508	1145.848	1112.782	1088.450	1064.448	1040.952	1029.974	1020.316	1012.242	1016.290
165	1146.926	1130.052	1113.046	1096.062	1079.166	1070.828	1063.348	1056.110	1049.686	1052.832
170	1124.156	1113.640	1103.036	1098.108	1093.466	1089.044	1084.864	1080.860	1077.164	1079.232
175	1108.536	1106.424	1104.246	1102.002	1099.714	1097.404	1095.006	1092.718	1090.430	1091.332
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282	7.282
95	66.022	51.128	53.790	62.678	67.122	66.220	63.448	62.920	57.618	50.974
100	170.522	174.834	180.664	188.012	206.536	197.208	188.298	189.486	194.106	184.206
105	257.400	274.230	297.924	335.896	377.014	403.326	401.786	388.036	382.008	360.382
110	355.388	376.838	411.070	459.602	525.602	596.948	659.956	695.970	718.168	728.948
115	446.270	472.032	513.678	573.804	653.158	738.782	824.164	924.616	998.954	1054.724
120	534.050	563.816	609.114	671.748	751.850	859.694	979.286	1089.616	1191.828	1287.088
125	615.186	645.634	689.326	744.172	837.166	948.926	1071.620	1205.050	1331.968	1444.718

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CANDELA TABULATION - (Cont.)

130	688.534	718.652	762.718	822.646	911.900	1013.298	1128.204	1254.000	1382.942	1512.632
135	752.422	777.458	828.696	892.232	967.098	1057.562	1160.698	1273.140	1389.058	1505.944
140	815.870	843.634	888.074	941.402	1008.810	1087.460	1174.470	1271.358	1367.586	1464.716
145	874.676	901.142	936.760	982.058	1038.334	1101.870	1174.162	1251.206	1330.010	1408.110
150	927.300	951.126	976.932	1016.136	1058.156	1110.428	1164.108	1221.308	1284.338	1341.824
155	977.460	993.212	1014.882	1039.258	1074.040	1109.482	1148.862	1191.146	1232.374	1273.360
160	1021.900	1028.104	1045.374	1062.776	1080.860	1107.260	1134.496	1159.950	1184.084	1212.354
165	1056.858	1061.302	1066.054	1078.836	1091.068	1103.256	1115.290	1130.558	1147.454	1162.260
170	1081.564	1083.984	1086.536	1089.176	1091.882	1098.658	1105.434	1112.100	1118.612	1124.904
175	1092.256	1093.290	1094.302	1095.336	1096.348	1097.382	1098.394	1099.406	1100.374	1101.320
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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	7.282	7.282	7.282	7.282	7.282	7.282	7.282
95	48.246	48.466	48.950	47.542	46.288	49.412	46.112
100	179.718	179.014	173.756	167.970	162.756	157.410	157.498
105	362.736	362.142	357.456	358.072	353.056	314.688	385.066
110	702.592	702.042	692.670	621.170	650.892	690.250	723.998
115	1096.810	1142.152	1139.160	1164.262	1207.162	1323.190	1338.480
120	1365.056	1435.720	1510.674	1586.860	1677.148	1720.378	1737.538
125	1571.966	1655.170	1764.708	1831.082	1884.146	1925.440	1942.248
130	1628.814	1736.746	1822.480	1887.622	1947.220	1991.814	2007.522
135	1610.972	1711.160	1791.614	1861.398	1919.434	1960.618	1971.376
140	1557.072	1642.586	1713.932	1776.764	1827.232	1858.054	1868.108
145	1482.382	1549.724	1609.168	1659.284	1698.356	1723.612	1732.742
150	1397.726	1449.646	1494.592	1532.014	1561.890	1578.126	1584.836
155	1313.708	1350.910	1382.898	1408.704	1429.164	1439.416	1444.696
160	1239.128	1261.898	1281.742	1298.968	1309.726	1316.436	1320.022
165	1176.164	1189.056	1200.782	1208.592	1214.202	1218.162	1220.450
170	1130.998	1135.222	1138.918	1142.042	1144.572	1146.486	1147.784
175	1102.222	1103.080	1103.894	1104.642	1105.324	1105.940	1106.468
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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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	504.80	N.A.	9.50
90-120	1358.35	N.A.	25.60
90-130	2452.23	N.A.	46.20
90-150	4309.88	N.A.	81.10
90-180	5313.05	N.A.	100.00
110-180	4808.25	N.A.	90.50
0-180	5313.05	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	91.59
100-110	413.21
110-120	853.55
120-130	1093.88
130-140	1035.14
140-150	822.51
150-160	569.67
160-170	327.55
170-180	105.95

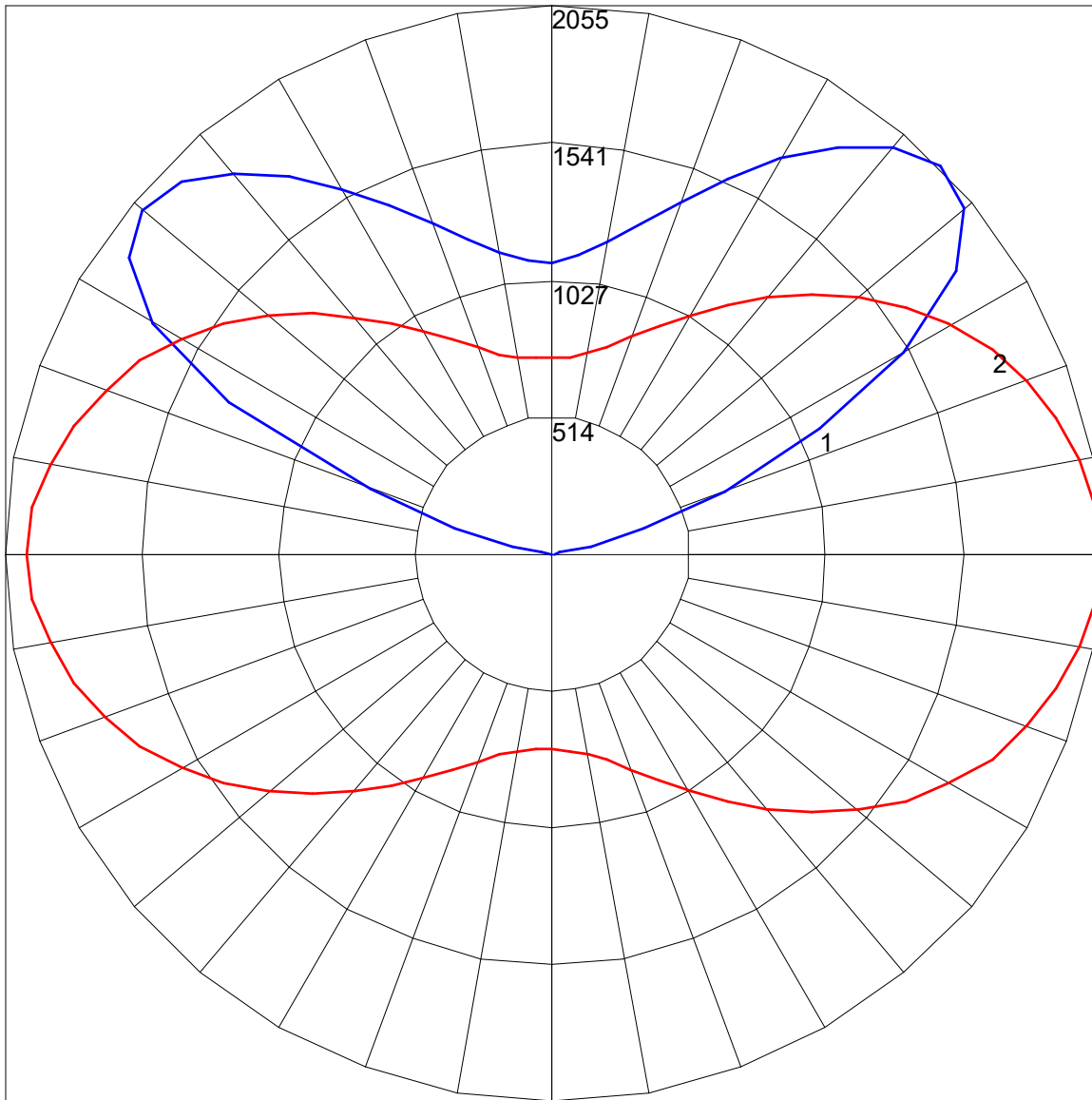
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	28	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 = 2054.734 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.)