

IES Report

BoxRail® | 207 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	71	71
Total Lumens, 4' rail length (1219mm)	6916	7134	7280	7280
Lumens per foot (305mm)	1729	1784	1820	1820
Lumens per foot UP (305mm)	1274	1314	1341	1341
Lumens per foot DOWN (305mm)	455	469	479	479
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	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_G1S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-G1S1-BL

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

[MORE] 40° symmetric 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	7267
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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	2335	5780	30952
55	1098	2734	18121
65	580	1325	10339
75	290	597	6185
85	252	277	2827

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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>
0	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744
5	1910.524	1909.446	1909.138	1909.600	1910.810	1912.790	1915.496	1918.906	1922.998	1927.750
10	1647.558	1646.194	1650.330	1657.722	1669.052	1684.188	1702.954	1720.026	1740.860	1765.082
15	1288.122	1287.000	1298.088	1315.468	1339.360	1364.704	1397.660	1437.854	1484.934	1534.346
20	926.684	925.826	942.348	965.162	992.068	1028.764	1073.402	1121.692	1177.924	1242.736
25	620.928	623.964	639.232	660.154	690.624	727.584	770.220	820.050	884.136	957.748
30	398.882	401.984	414.348	432.168	457.248	487.718	522.808	572.088	635.360	698.170
35	251.900	254.430	262.900	276.760	294.184	315.392	341.880	387.200	432.784	490.644
40	158.972	161.018	166.672	175.978	188.320	202.554	226.270	255.244	287.672	336.160
45	104.390	105.974	109.164	114.928	122.144	130.658	148.918	165.572	193.666	220.308
50	70.268	71.104	73.480	77.330	81.994	89.408	98.890	111.672	128.326	150.744
55	48.862	49.368	50.930	53.460	56.144	61.578	66.660	75.966	86.944	100.738
60	35.222	35.398	36.256	37.488	39.424	42.548	46.618	51.326	59.048	68.596
65	24.904	25.058	25.608	26.620	28.248	29.634	32.538	35.860	40.282	45.672
70	16.786	16.632	18.062	18.524	19.778	20.812	22.000	23.980	26.642	30.294
75	11.616	11.968	13.442	13.354	13.508	14.036	14.520	15.312	16.742	18.524
80	10.142	10.494	11.022	10.648	10.648	10.714	10.802	10.868	10.934	11.088
85	9.042	9.152	8.976	8.734	8.558	8.316	7.986	7.568	7.502	7.370
90	8.976	9.130	9.218	9.042	8.844	8.756	8.492	8.030	7.370	6.820
95	31.900	43.736	42.108	44.176	47.080	51.260	54.582	64.680	77.308	79.794
100	146.058	155.144	160.358	171.600	183.216	198.022	213.114	229.768	243.584	254.364
105	383.218	346.324	372.834	386.056	399.784	419.210	436.128	447.128	466.796	464.750
110	697.092	681.604	683.188	665.852	717.860	731.830	756.426	771.606	762.586	732.930
115	1223.948	1202.872	1147.234	1124.816	1126.202	1127.522	1109.614	1077.494	1032.042	965.228
120	1591.480	1571.900	1552.034	1512.720	1482.096	1432.926	1386.242	1330.626	1235.586	1135.024
125	1837.484	1821.336	1800.150	1766.666	1731.136	1656.006	1590.996	1487.442	1382.656	1262.008
130	1949.794	1942.182	1916.244	1874.818	1826.528	1758.966	1671.032	1569.370	1450.922	1327.788
135	1958.462	1951.400	1933.866	1891.076	1835.614	1770.274	1680.404	1585.496	1472.262	1359.974
140	1897.434	1898.138	1876.952	1838.628	1786.070	1723.414	1644.456	1556.874	1461.240	1361.338
145	1791.768	1784.156	1770.846	1747.702	1700.358	1643.818	1578.170	1502.842	1423.554	1340.372
150	1664.146	1664.806	1654.466	1628.594	1593.394	1547.634	1494.130	1434.312	1371.744	1304.270
155	1529.902	1524.270	1513.930	1498.112	1476.090	1443.508	1403.182	1359.248	1312.674	1265.528
160	1402.654	1402.214	1395.658	1385.230	1366.134	1343.936	1318.108	1287.176	1254.044	1224.872
165	1294.216	1292.896	1288.034	1281.940	1273.052	1259.258	1243.946	1227.248	1209.296	1188.748
170	1213.256	1211.584	1208.394	1204.896	1200.738	1195.964	1190.574	1182.830	1174.646	1165.978
175	1164.196	1163.514	1162.964	1161.402	1160.280	1159.070	1157.794	1156.452	1155.088	1153.680
180	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200

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>
0	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744
5	1933.118	1939.080	1945.548	1952.500	1959.892	1967.658	1975.622	1984.026	1992.584
10	1792.516	1822.942	1855.524	1866.260	1878.272	1891.494	1905.816	1920.974	1937.452
15	1580.590	1620.960	1665.488	1713.822	1768.206	1784.992	1804.154	1825.032	1848.924
20	1311.552	1383.316	1457.918	1514.722	1576.388	1645.094	1667.600	1693.274	1724.272
25	1037.498	1118.524	1203.906	1294.590	1365.870	1438.206	1494.636	1520.244	1554.058
30	776.600	864.028	951.676	1046.584	1143.274	1215.764	1293.490	1314.940	1347.148
35	560.912	636.878	719.840	803.528	899.228	981.332	1052.238	1088.450	1119.580
40	386.144	453.156	520.300	594.418	673.200	743.226	795.784	840.356	884.268
45	263.868	309.034	363.396	429.616	493.592	553.278	602.646	640.706	665.918
50	175.670	209.660	250.162	295.416	344.234	389.488	426.756	454.388	470.074
55	119.570	141.196	167.178	199.034	233.266	264.110	290.246	310.354	319.220
60	80.366	93.830	111.386	132.990	156.222	178.376	196.064	205.238	210.782

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CANDELA TABULATION - (Cont.)

65	53.394	62.788	74.558	87.714	101.442	114.972	126.874	133.320	136.290
70	35.068	41.162	48.642	56.716	64.790	73.040	80.410	84.480	86.680
75	21.318	24.882	29.480	34.298	39.006	43.648	47.586	50.116	51.634
80	11.968	13.112	15.070	17.358	19.910	22.264	24.596	25.718	25.630
85	6.886	6.292	6.732	7.370	7.700	7.678	8.778	9.526	9.218
90	6.182	5.544	5.082	4.422	4.048	3.498	2.948	3.322	3.498
95	84.150	92.774	93.126	81.290	71.500	66.154	71.148	71.676	70.268
100	248.754	241.142	236.280	211.068	192.522	179.784	174.020	169.158	165.792
105	457.952	434.346	395.406	348.590	309.694	280.874	261.382	250.118	248.402
110	685.256	619.740	547.800	479.622	423.786	384.846	361.482	347.424	342.650
115	879.824	779.922	680.658	597.410	531.894	484.616	455.796	438.262	432.256
120	1023.836	898.722	793.760	702.042	633.006	582.032	547.448	527.494	523.006
125	1128.336	1003.376	891.154	792.880	720.962	666.908	629.772	608.762	601.920
130	1201.398	1080.244	970.970	875.490	797.544	742.808	705.474	684.376	676.060
135	1242.252	1131.658	1029.974	942.150	868.098	814.858	779.174	755.502	743.732
140	1259.522	1162.766	1073.050	993.740	930.226	876.744	843.216	822.096	810.876
145	1256.332	1175.724	1101.232	1034.550	980.034	936.650	903.298	886.050	875.974
150	1240.272	1177.528	1116.302	1066.186	1018.798	987.382	958.122	945.934	937.002
155	1217.348	1171.192	1128.556	1086.580	1056.770	1030.106	1010.108	999.944	992.332
160	1194.600	1162.524	1131.086	1108.932	1087.394	1066.560	1057.562	1049.906	1043.966
165	1169.762	1154.252	1138.698	1123.166	1107.810	1100.726	1094.720	1089.154	1084.534
170	1156.914	1147.520	1138.148	1133.572	1129.304	1125.234	1121.428	1117.842	1114.784
175	1152.250	1150.798	1149.346	1147.916	1146.508	1145.100	1143.692	1142.416	1141.140
180	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200	1146.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.62	N.A.	8.40
0-30	1078.78	N.A.	14.80
0-40	1446.87	N.A.	19.90
0-60	1809.98	N.A.	24.90
0-80	1902.1	N.A.	26.20
0-90	1912.26	N.A.	26.30
10-90	1732.31	N.A.	23.80
20-40	837.25	N.A.	11.50
20-50	1071.35	N.A.	14.70
40-70	427.33	N.A.	5.90
60-80	92.12	N.A.	1.30
70-80	27.90	N.A.	0.40
80-90	10.15	N.A.	0.10
90-110	503.69	N.A.	6.90
90-120	1348.57	N.A.	18.60
90-130	2436.42	N.A.	33.50
90-150	4318.57	N.A.	59.40
90-180	5354.26	N.A.	73.70
110-180	4850.56	N.A.	66.80
0-180	7266.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.94
10-20	429.68
20-30	469.15
30-40	368.09
40-50	234.11
50-60	129.01
60-70	64.21
70-80	27.90
80-90	10.15
90-100	92.39
100-110	411.31
110-120	844.88
120-130	1087.84
130-140	1042.59
140-150	839.57
150-160	586.40
160-170	338.86
170-180	110.43

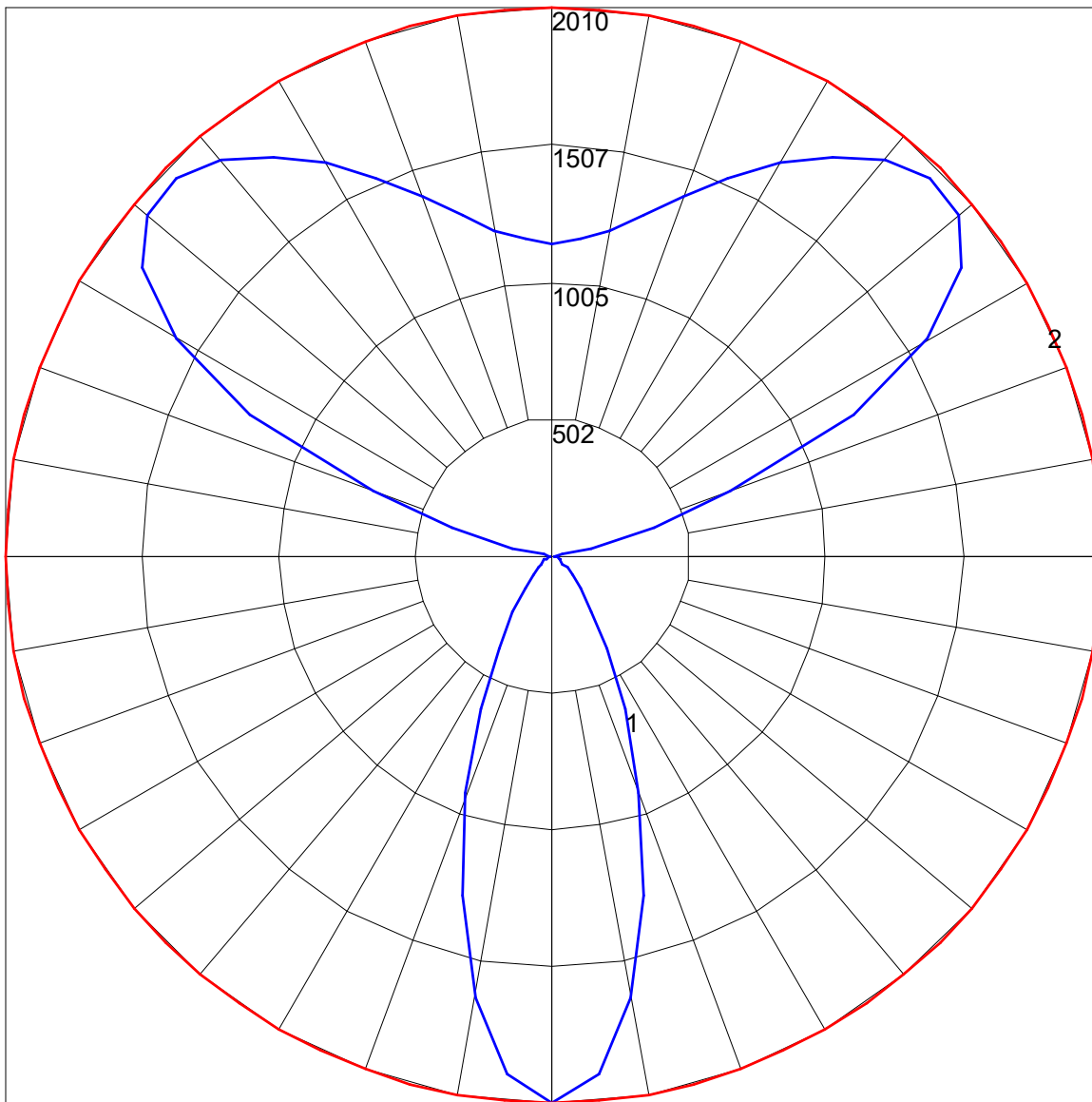
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	90	86	83	83	80	77	75	63	61	59	47	45	44	32	31	31	24
2	86	79	74	69	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	26	24	20
4	73	63	56	51	65	57	51	46	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	18	15
7	58	47	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	18	17	15	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 2009.744 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.)