

IES Report

BoxRail® | 207 | Wide Batwing, up | 120° Flywing, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Total Lumens, 4' rail length (1219mm)	9518	9818	10019	10119
Lumens per foot (305mm)	2379	2455	2505	2530
Lumens per foot UP (305mm)	1119	1154	1178	1190
Lumens per foot DOWN (305mm)	1261	1300	1327	1340
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_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-HO-359-G1G2-BL

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

[MORE] 120° flywing 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	10019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	103.13
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	36724	38016	45459
55	26763	30158	43315
65	15965	19074	39326
75	4893	7920	30010
85	390	742	10600

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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	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608
5	1695.541	1694.249	1692.938	1690.981	1689.176	1687.257	1685.262	1683.172	1681.025	1678.840
10	1759.723	1756.987	1752.693	1747.772	1741.939	1735.270	1727.765	1715.947	1703.863	1691.456
15	1847.161	1843.019	1835.818	1827.154	1815.393	1796.830	1776.899	1755.771	1733.617	1707.530
20	1927.436	1922.078	1913.053	1900.266	1878.530	1854.704	1827.629	1793.885	1759.248	1723.338
25	1975.525	1968.837	1960.230	1941.287	1919.000	1890.025	1855.901	1820.846	1771.826	1720.849
30	1971.383	1965.854	1956.962	1938.475	1915.656	1887.460	1854.742	1809.066	1756.607	1698.790
35	1914.383	1908.246	1898.233	1884.838	1863.235	1839.200	1810.719	1759.799	1709.677	1648.573
40	1800.972	1797.210	1788.280	1775.854	1761.509	1745.017	1711.558	1671.924	1626.590	1564.099
45	1642.037	1639.263	1632.651	1623.778	1612.739	1600.389	1573.010	1546.828	1497.048	1448.959
50	1432.277	1428.344	1424.373	1422.074	1421.903	1414.493	1398.134	1375.790	1337.828	1288.352
55	1190.673	1189.343	1190.445	1190.160	1181.572	1170.248	1165.118	1151.552	1135.440	1111.215
60	942.381	940.196	935.769	919.714	912.361	907.554	908.580	905.141	898.985	883.785
65	685.159	681.663	651.149	645.601	651.966	659.148	666.083	664.430	660.972	657.248
70	411.065	395.200	386.688	396.378	412.319	422.864	429.172	436.867	444.543	446.557
75	195.890	180.481	196.859	203.167	208.259	215.194	219.716	222.984	236.816	245.708
80	46.664	57.665	55.765	59.432	62.301	67.545	72.732	81.206	87.951	101.764
85	14.022	16.644	15.694	15.352	15.105	15.504	14.516	15.238	16.834	19.779
90	13.224	13.452	13.452	13.376	13.376	13.224	13.053	12.578	11.875	11.077
95	21.983	33.497	30.514	33.535	38.456	45.220	53.238	74.423	83.961	110.903
100	111.169	121.638	130.530	145.749	169.119	193.762	225.644	262.523	296.153	307.952
105	292.087	297.445	329.004	356.364	389.538	451.535	509.770	550.525	580.583	559.911
110	669.712	681.872	716.927	742.064	841.187	898.909	960.963	998.089	956.764	809.837
115	1388.634	1384.758	1371.192	1425.817	1421.599	1481.297	1399.597	1298.441	1139.468	930.943
120	2029.048	2006.989	1947.500	1878.796	1831.201	1690.259	1555.378	1372.959	1163.997	966.530
125	2112.192	2088.727	2032.962	1949.818	1848.757	1686.706	1516.447	1339.462	1159.057	991.363
130	1930.134	1915.181	1872.355	1800.193	1695.826	1573.656	1440.979	1297.681	1157.727	1029.382
135	1750.660	1741.198	1705.364	1649.637	1573.485	1479.340	1380.122	1270.872	1162.135	1056.324
140	1613.993	1605.253	1577.532	1533.927	1476.813	1406.950	1325.212	1240.890	1152.787	1066.375
145	1489.771	1481.791	1459.656	1425.152	1377.633	1322.039	1259.700	1188.108	1116.592	1043.480
150	1348.183	1341.400	1325.117	1296.750	1259.814	1215.373	1164.985	1110.132	1053.189	993.016
155	1189.229	1184.536	1174.143	1154.687	1129.360	1097.820	1060.884	1019.996	980.324	939.626
160	1047.660	1045.076	1038.179	1027.843	1011.978	993.187	971.185	945.041	916.465	892.316
165	943.483	941.526	937.498	932.102	924.768	914.223	902.253	888.953	874.399	857.584
170	872.936	871.815	869.877	867.369	864.215	860.434	856.026	849.566	842.745	835.563
175	829.293	828.742	828.039	827.355	826.500	825.550	824.524	823.422	822.263	821.047
180	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>
0	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608	1672.608
5	1676.636	1674.413	1672.190	1670.005	1667.858	1665.749	1663.621	1661.721	1659.878
10	1678.859	1666.129	1653.608	1647.262	1641.334	1635.824	1630.751	1626.039	1622.125
15	1682.298	1660.144	1638.465	1617.413	1596.722	1586.652	1577.912	1570.027	1563.985
20	1684.331	1643.196	1603.638	1573.105	1544.434	1517.340	1505.009	1494.559	1487.377
25	1670.024	1616.216	1563.168	1512.742	1474.533	1440.789	1415.899	1402.998	1394.847
30	1635.653	1570.654	1506.529	1446.394	1391.161	1352.553	1318.353	1304.331	1296.104
35	1577.779	1507.631	1432.467	1363.478	1302.374	1254.589	1218.527	1199.413	1188.754
40	1495.642	1416.697	1339.652	1264.564	1201.655	1149.538	1114.312	1092.386	1081.423
45	1374.650	1303.476	1227.210	1154.079	1091.075	1040.839	1008.178	987.734	978.044
50	1231.466	1163.465	1094.001	1028.223	970.007	928.093	898.871	879.909	870.390
55	1056.932	1001.243	945.516	887.281	841.434	805.847	780.368	766.422	763.040
60	859.465	824.277	776.397	730.930	696.046	670.282	653.258	642.694	638.666

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CANDELA TABULATION - (Cont.)

65	648.641	625.518	597.512	574.028	554.496	538.384	528.694	521.094	518.415
70	444.942	439.774	430.160	418.551	408.804	397.423	390.868	387.695	385.263
75	254.809	265.259	266.057	260.148	257.298	255.949	248.957	246.449	250.534
80	103.189	112.157	119.092	130.226	142.462	142.519	139.878	137.465	137.769
85	22.344	22.990	24.301	27.987	29.925	31.901	32.851	33.687	34.561
90	10.203	9.234	8.284	7.334	6.365	5.415	4.617	4.389	4.617
95	112.271	104.728	93.461	62.168	48.355	45.752	51.129	56.506	59.888
100	294.386	248.140	193.857	144.286	132.259	141.702	142.937	143.811	142.861
105	495.102	395.352	296.780	236.455	214.681	212.325	216.182	222.490	228.551
110	651.282	501.182	387.429	326.192	303.202	301.872	311.144	320.587	325.546
115	722.190	573.819	475.874	418.931	395.903	393.908	402.629	413.782	419.976
120	787.075	639.445	565.630	514.957	490.105	484.975	491.226	500.118	505.837
125	852.264	739.252	659.870	606.385	576.099	564.186	562.419	565.231	567.625
130	911.468	818.064	744.420	688.940	648.603	627.209	613.187	603.991	599.469
135	961.191	877.838	807.405	750.063	705.109	669.427	642.238	623.257	612.370
140	982.452	908.713	840.845	780.976	731.177	688.218	656.165	635.607	623.998
145	972.116	906.319	844.151	788.728	740.791	701.632	669.902	653.163	642.314
150	937.403	883.310	831.231	787.911	745.503	717.744	690.593	679.725	670.662
155	896.724	857.736	822.396	786.239	760.836	737.846	720.366	711.322	703.950
160	867.293	840.560	814.036	795.473	777.043	758.385	751.298	744.743	739.480
165	841.890	829.008	815.993	802.940	789.412	784.111	779.171	774.554	770.697
170	828.058	820.306	812.459	809.001	805.657	802.465	799.425	796.518	793.934
175	819.774	818.463	817.114	815.765	814.397	813.048	811.642	810.350	809.077
180	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	644.12	N.A.	6.40
0-30	1428.19	N.A.	14.30
0-40	2424.37	N.A.	24.20
0-60	4394.79	N.A.	43.90
0-80	5266.19	N.A.	52.60
0-90	5307.55	N.A.	53.00
10-90	5146.94	N.A.	51.40
20-40	1780.25	N.A.	17.80
20-50	2833.66	N.A.	28.30
40-70	2583.22	N.A.	25.80
60-80	871.40	N.A.	8.70
70-80	258.60	N.A.	2.60
80-90	41.36	N.A.	0.40
90-110	495.11	N.A.	4.90
90-120	1381.41	N.A.	13.80
90-130	2415.63	N.A.	24.10
90-150	3948.64	N.A.	39.40
90-180	4711.07	N.A.	47.00
110-180	4215.96	N.A.	42.10
0-180	10018.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.61
10-20	483.51
20-30	784.07
30-40	996.18
40-50	1053.41
50-60	917.01
60-70	612.80
70-80	258.60
80-90	41.36
90-100	88.31
100-110	406.80
110-120	886.30
120-130	1034.22
130-140	870.69
140-150	662.32
150-160	438.90
160-170	244.79
170-180	78.74

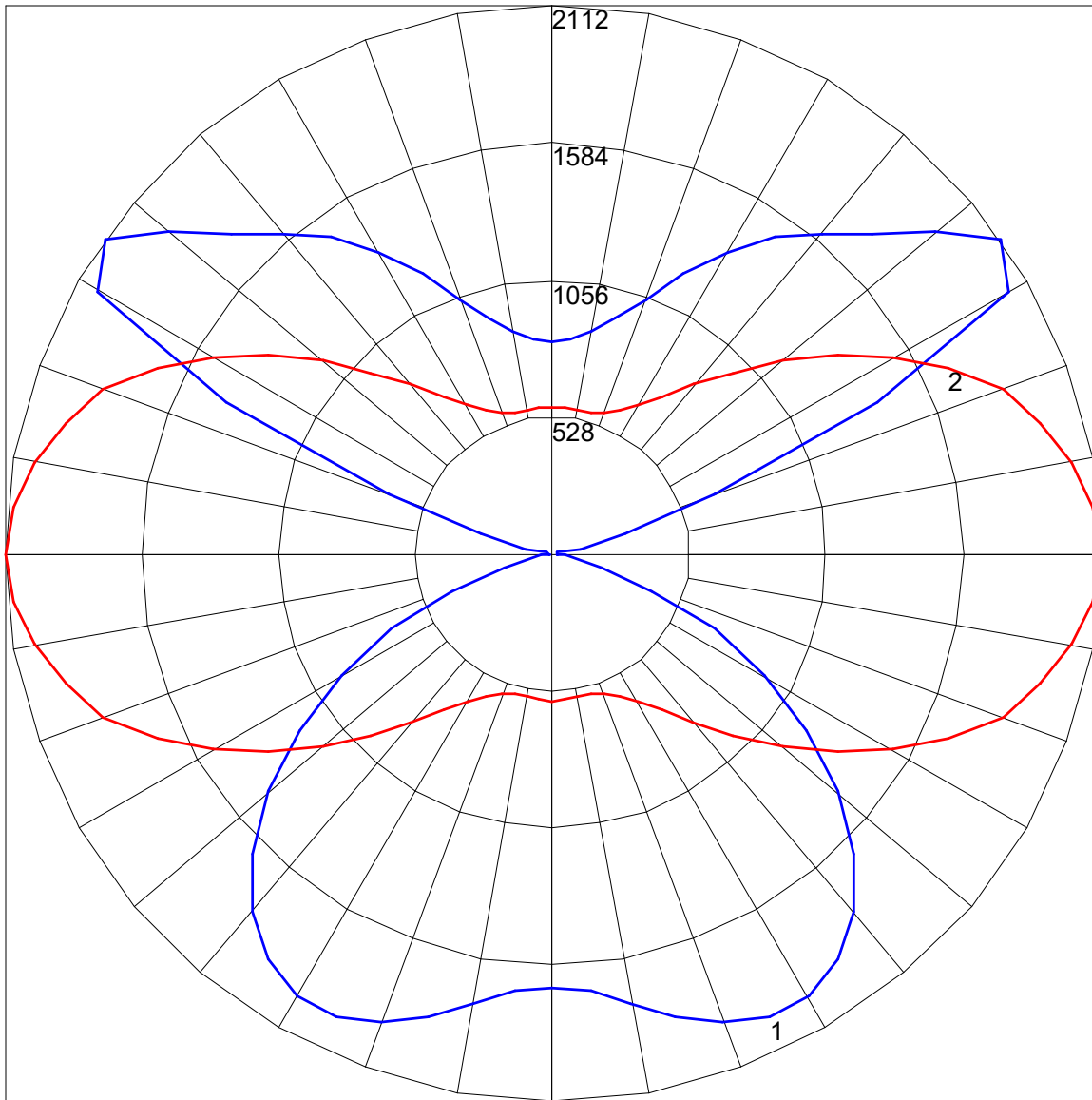
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2112.192 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.)