

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	105
Total Lumens, 4' rail length (1219mm)	10162	10483	10696	10803
Lumens per foot (305mm)	2540	2621	2674	2701
Lumens per foot UP (305mm)	1246	1285	1312	1325
Lumens per foot DOWN (305mm)	1294	1335	1363	1376
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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

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

[MORE] 120° flywing lens down, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	37187	38750	47170
55	27446	30703	44833
65	15795	19842	40619
75	5068	8087	30982
85	571	946	11433

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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	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354
5	1751.610	1750.413	1749.178	1747.335	1745.606	1743.744	1741.787	1739.735	1737.607	1735.403
10	1816.913	1814.234	1810.016	1805.152	1799.376	1792.764	1785.297	1773.232	1760.901	1748.247
15	1904.332	1900.532	1893.616	1885.218	1873.571	1854.628	1834.317	1812.828	1790.332	1763.732
20	1983.334	1978.052	1969.084	1956.392	1934.371	1910.412	1883.280	1849.441	1814.633	1778.039
25	2026.331	2019.320	2010.637	1991.523	1969.293	1940.698	1907.372	1873.590	1824.437	1773.327
30	2014.399	2008.205	1999.123	1980.921	1958.767	1931.350	1899.810	1856.319	1804.962	1747.848
35	1945.752	1939.672	1929.944	1917.271	1897.473	1875.167	1847.845	1798.901	1750.109	1690.392
40	1826.622	1822.461	1813.588	1801.694	1787.767	1770.876	1739.583	1702.780	1659.403	1598.660
45	1662.728	1660.904	1654.387	1645.894	1634.950	1623.094	1596.152	1570.274	1523.021	1476.927
50	1459.352	1456.141	1451.733	1447.952	1444.323	1434.633	1418.141	1394.980	1359.659	1311.399
55	1221.092	1217.938	1218.318	1218.755	1214.366	1200.477	1194.777	1178.323	1159.817	1131.298
60	967.708	965.998	962.350	946.580	942.742	938.429	937.213	935.997	926.326	908.979
65	677.844	679.649	668.002	661.656	663.005	675.032	676.894	673.949	680.675	683.715
70	411.065	401.413	401.622	405.327	424.308	429.590	438.824	446.462	455.715	458.527
75	202.901	191.368	206.701	210.691	215.802	223.098	228.874	234.783	247.076	250.895
80	56.696	67.127	63.878	67.526	71.383	74.271	79.401	89.338	93.670	107.103
85	20.539	22.192	22.325	22.116	21.945	21.869	21.090	21.356	22.743	25.213
90	12.350	12.426	12.350	12.350	12.255	12.027	11.875	11.476	10.906	10.355
95	40.622	49.761	49.856	52.611	55.784	61.066	67.906	80.864	87.191	102.600
100	147.649	149.549	154.679	164.863	177.365	193.002	213.275	235.638	255.284	267.235
105	326.971	305.653	331.512	350.189	369.284	402.857	433.694	463.410	499.757	502.379
110	655.386	638.932	646.418	661.713	729.467	771.799	808.944	843.011	847.609	788.025
115	1253.107	1232.245	1189.457	1201.598	1223.581	1261.828	1248.775	1206.728	1129.721	1012.719
120	1803.518	1776.101	1741.787	1703.293	1681.728	1610.326	1539.019	1436.609	1280.600	1124.040
125	2079.683	2060.873	2020.137	1964.885	1904.389	1782.656	1666.566	1513.711	1360.704	1198.178
130	2085.896	2078.904	2040.220	1977.748	1896.086	1793.087	1666.851	1530.412	1384.359	1245.754
135	1988.274	1984.607	1954.796	1900.266	1825.482	1733.351	1627.255	1512.647	1392.491	1274.387
140	1865.002	1862.551	1838.060	1794.493	1734.852	1660.277	1572.763	1480.670	1382.174	1283.374
145	1733.769	1730.235	1711.672	1679.524	1631.017	1572.402	1504.857	1425.380	1344.459	1261.239
150	1589.958	1587.051	1573.732	1546.163	1508.030	1460.264	1405.145	1344.212	1280.391	1211.934
155	1428.287	1425.380	1416.146	1395.702	1368.551	1333.952	1293.102	1248.167	1201.313	1153.129
160	1275.565	1273.684	1265.932	1254.380	1236.273	1214.480	1188.697	1157.765	1123.964	1095.711
165	1151.818	1150.013	1145.358	1139.240	1130.766	1118.587	1104.679	1089.118	1072.037	1052.372
170	1069.947	1068.541	1066.071	1063.088	1059.440	1055.127	1050.225	1043.214	1035.823	1028.033
175	1022.960	1022.314	1021.592	1020.623	1019.635	1018.552	1017.393	1016.139	1014.828	1013.441
180	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000

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	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354	1728.354
5	1733.161	1730.900	1728.620	1726.340	1724.098	1721.875	1719.595	1717.600	1715.605
10	1735.384	1722.369	1709.563	1703.027	1696.966	1691.361	1686.231	1681.462	1677.548
15	1737.949	1715.339	1693.337	1672.095	1651.290	1641.543	1633.202	1625.754	1620.206
20	1738.462	1697.004	1657.275	1626.647	1597.862	1570.597	1558.456	1548.158	1541.223
25	1722.711	1668.865	1615.646	1565.201	1526.631	1492.393	1467.161	1454.146	1445.976
30	1685.528	1620.624	1556.366	1496.155	1440.960	1401.763	1367.126	1352.534	1343.889
35	1621.498	1552.756	1478.048	1409.515	1348.677	1300.968	1264.792	1245.393	1234.468
40	1533.015	1456.255	1380.350	1305.813	1243.227	1191.490	1156.511	1134.623	1123.470
45	1405.924	1337.372	1262.778	1190.312	1128.125	1079.713	1046.425	1024.974	1014.847
50	1256.052	1192.041	1124.420	1059.953	1001.775	960.963	931.190	911.487	902.880
55	1077.262	1022.200	968.335	913.026	866.438	833.093	809.191	793.782	789.792
60	879.510	840.864	792.832	747.004	710.448	684.247	667.337	655.196	652.840

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CANDELA TABULATION - (Cont.)

65	669.408	639.350	609.482	585.029	566.333	551.912	543.609	538.555	535.458
70	457.045	453.340	442.909	428.146	415.739	406.429	402.268	399.855	397.537
75	259.236	267.615	272.137	267.406	262.295	260.737	255.436	254.752	258.647
80	107.331	114.304	123.101	137.237	143.222	142.804	139.650	138.947	139.365
85	27.113	28.120	29.564	32.110	32.927	34.656	34.485	35.207	37.278
90	9.481	8.759	7.961	7.163	6.536	5.814	5.092	5.263	5.092
95	107.901	108.186	99.655	76.855	67.051	66.158	69.977	71.991	73.587
100	264.119	250.971	222.053	190.019	174.192	165.737	159.144	156.579	157.985
105	481.498	434.340	371.811	313.899	279.585	261.554	252.130	249.413	252.605
110	687.097	590.425	499.491	425.163	383.021	363.280	354.559	351.937	352.298
115	862.049	711.911	608.684	535.572	489.136	464.550	453.625	449.768	452.789
120	967.043	820.477	715.578	636.291	589.513	563.844	551.874	545.129	542.469
125	1048.344	918.631	814.834	731.728	681.074	651.415	634.334	624.663	619.856
130	1112.925	1002.041	906.870	828.723	768.360	729.239	702.677	686.508	679.269
135	1162.629	1061.397	972.097	897.655	837.026	791.065	759.278	739.081	730.398
140	1185.600	1096.946	1014.410	941.184	882.778	834.024	800.907	780.349	769.728
145	1179.634	1103.273	1029.382	964.288	910.518	868.072	835.468	818.938	808.906
150	1147.258	1084.007	1023.283	974.301	927.048	896.800	867.787	857.071	848.578
155	1102.931	1057.274	1016.538	975.631	947.701	922.412	903.450	894.425	887.262
160	1066.565	1035.538	1004.948	984.960	965.124	945.212	937.688	930.848	925.338
165	1034.550	1020.661	1006.563	992.408	977.873	972.211	967.176	962.502	958.626
170	1019.901	1011.484	1002.991	999.229	995.657	992.256	989.045	986.005	983.307
175	1012.016	1010.553	1009.052	1007.532	1006.031	1004.511	1002.991	1001.585	1000.198
180	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	665.35	N.A.	6.20
0-30	1473.04	N.A.	13.80
0-40	2494.54	N.A.	23.30
0-60	4510.81	N.A.	42.20
0-80	5404.86	N.A.	50.50
0-90	5450.18	N.A.	51.00
10-90	5284.19	N.A.	49.40
20-40	1829.19	N.A.	17.10
20-50	2905.69	N.A.	27.20
40-70	2643.77	N.A.	24.70
60-80	894.05	N.A.	8.40
70-80	266.56	N.A.	2.50
80-90	45.32	N.A.	0.40
90-110	501.18	N.A.	4.70
90-120	1375.6	N.A.	12.90
90-130	2496.34	N.A.	23.30
90-150	4311.13	N.A.	40.30
90-180	5246.25	N.A.	49.00
110-180	4745.07	N.A.	44.40
0-180	10696.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.99
10-20	499.36
20-30	807.69
30-40	1021.5
40-50	1076.51
50-60	939.77
60-70	627.49
70-80	266.56
80-90	45.32
90-100	96.52
100-110	404.66
110-120	874.41
120-130	1120.74
130-140	1019.45
140-150	795.34
150-160	536.94
160-170	301.06
170-180	97.13

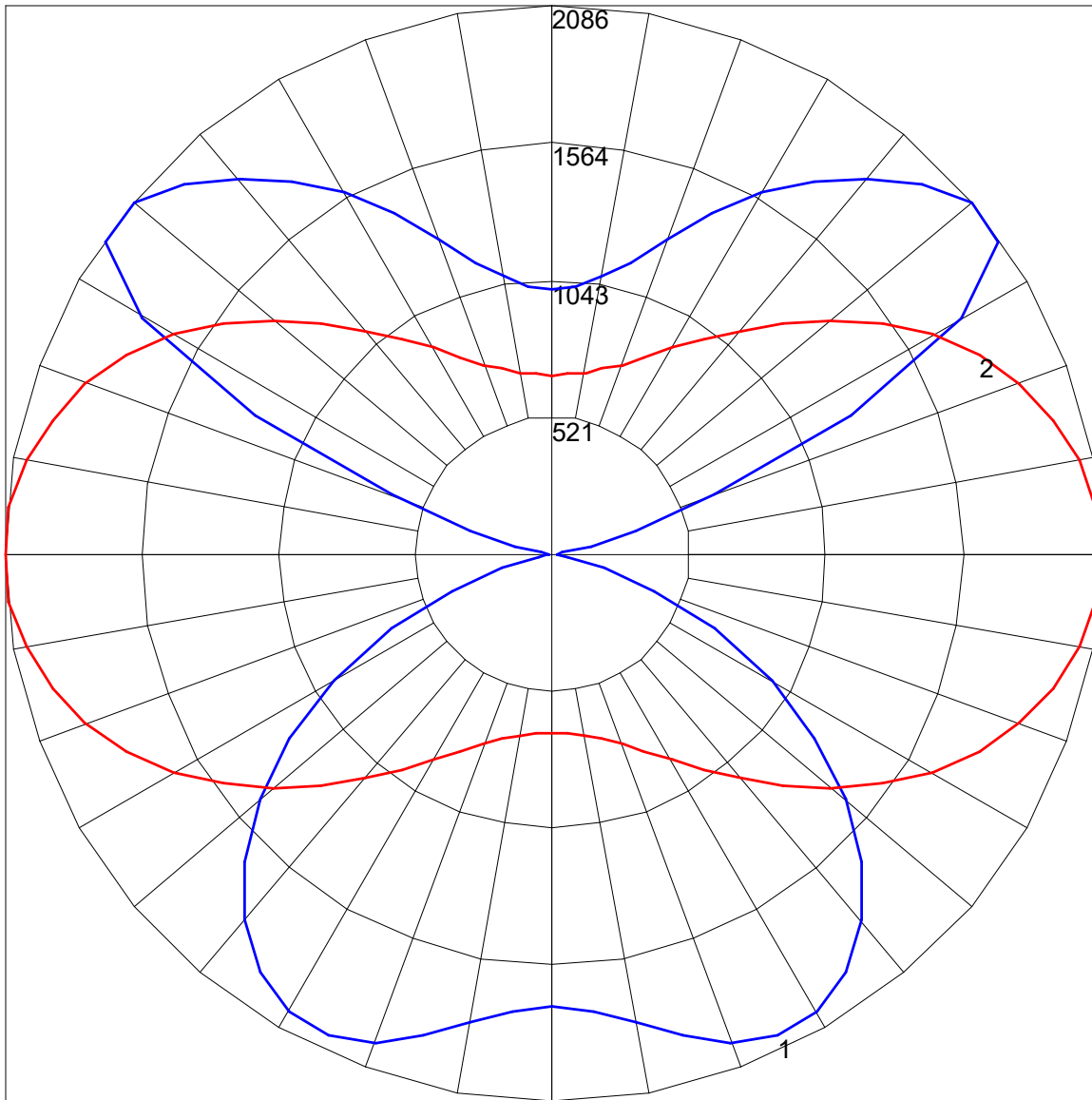
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	89	82	76	71	82	76	71	66	65	61	58	54	52	49	45	43	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30	26
5	68	57	49	42	63	53	45	40	45	40	35	38	34	30	32	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 2085.896 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)